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George Henry Falkiner Nuttall and the Nuttall Tick Catalogue

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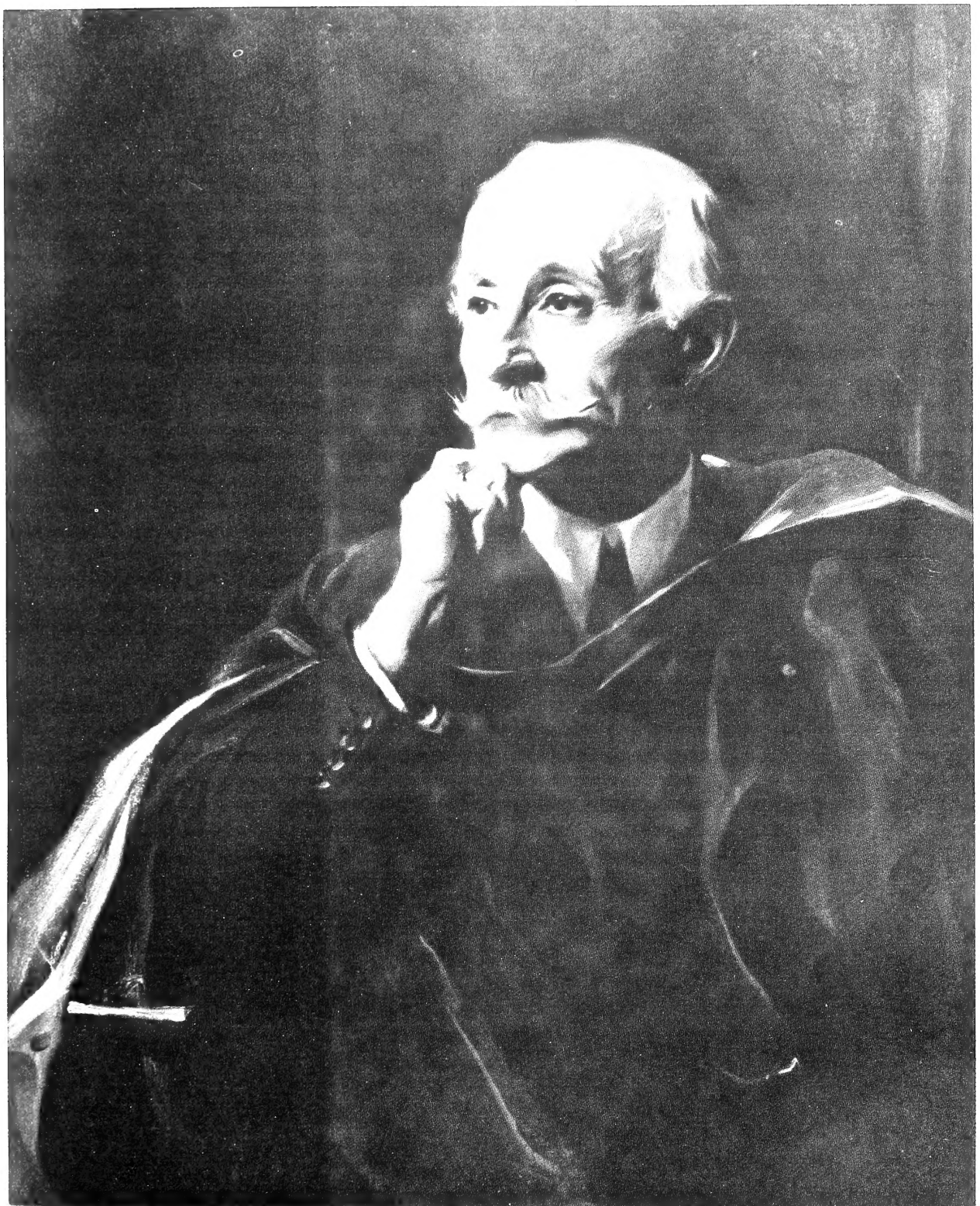
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Geo. H. Nuttall

George Henry Falkiner Nuttall (1862-1937). Portrait in oils (1932) by Philip Alexius Laszlo de Lombos.

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George Henry Falkiner Nuttall and the Nuttall Tick Catalogue

By James E. Keirans

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Abstract

Keirans, James E. 1984. George Henry Falkiner Nuttall and the Nuttall tick catalogue. U.S. Department of Agriculture Miscellaneous Publication Number 1438, 1785 pp.

During the first third of this century, Professor George H. F. Nuttall of Cambridge University amassed what, at that time, was the world's largest collection of ticks (Acari: Ixodoidea). He kept detailed records on all Ixodoidea he received, including a three-volume

handwritten catalogue. This publication presents a biography of G. H. F. Nuttall, his tick catalogue in its original and updated form, and four appendixes listing type specimens of tick species, species names of Ixodoidea, host names, and localities found in the catalogue.

KEYWORDS: Acari, biography, George Henry Falkiner Nuttall, Ixodoidea, ticks.

Foreword

The ticks (Acari, Metastigmata) are without doubt the most important carriers and reservoir hosts of disease organisms affecting wild and domestic animals and, next to mosquitoes, the most important vectors of human pathogens. The bites of certain species may also cause an acute and sometimes fatal intoxication in humans known as tick paralysis, and heavy infestations on domestic animals may lead to unthriftiness and even death through exsanguination. Serious losses may also be caused by secondary infections of wounds inflicted by the parasites. Thus the bioeconomic problems created by the group are enormous, and clearly of fundamental importance to their understanding is an adequate taxonomic foundation. This to a great extent must be dependent on studies of museum material and particularly on studies of collections of outstanding importance in relation to the taxonomic history of the group.

Arguably, from this historical viewpoint, the single most important collection of ticks is that amassed by Professor G. H. F. Nuttall. Although Nuttall first turned his attention to the role of arthropods in the spread of disease as early as 1897, the real origin of the tick collection began with his investigations of canine piroplasmiasis at the University of Cambridge in 1904. When these studies revealed a lack of coordinated knowledge of the biology and systematics of tick vectors, Nuttall planned and began to collect material for a comprehensive work, "Ticks: A Monograph of the Ixodoidea." For this project he enlisted the aid of C. Warburton, L. E. Robinson, and W. F. Cooper.

Originally the work was intended to be published as a single volume, but the task presented great difficulties. In 1908, the decision was made to issue separately Part I of Volume I dealing with the Argasidae. Part II ("Ixodidae,"

Section I, "Classification," Section II, "The Genus Ixodes") and Part III ("The Genus Haemaphysalis"), both by G. H. F. Nuttall and C. Warburton, were published in 1911 and 1915, but the work was seriously interrupted by World War I. Part IV ("The Genus Amblyomma," by L. E. Robinson), which formed the first part of Volume II, was not published until 1926. It was Nuttall's fervent wish that the "Monograph" be completed. Following his retirement as Quick Professor of Biology at Cambridge University in 1931, he was able to devote more attention to the project. Sadly his sudden death in December 1937 brought the undertaking to a standstill, and although another fasciculus (Part V, "On the Genera Dermacentor, Anocentor, Cosmiomma, Boophilus, and Margaropus," by Professor D. R. Arthur) was published in 1960, the Monograph remains unfinished.

Nuttall's systematic studies at Cambridge, undertaken mainly at the Quick Laboratory and at the Molteno Institute for Research in Parasitology, spanned a period of about 33 years. During this time he received enormous amounts of material for critical examination from physicians, veterinarians, parasitologists, and taxonomists working in all parts of the world, so that at the time of its presentation to the British Museum (Natural History) by the Molteno Institute in 1939 his collection was unrivaled in its importance. As presented, the collection comprised three sections: A reference collection, rich in types, representing nearly all the valid species then recognized; a "stock" collection with many species represented by long series of specimens; and an assemblage of laboratory reared material. All items were carefully labeled and numbered and were documented in detail in a three-volume handwritten register.

Over the years the Nuttall collection has

been curated with painstaking care by successive heads of the Arachnida Section, and in accordance with the terms of the gift it has been maintained as a discrete entity. However, although the need has long been recognized, the Museum has been unable to prepare a catalogue for publication. Thus, it was particularly pleasing to be able to welcome J. E. Keirans of the Rocky Mountain Laboratories, Hamilton, Mont., an authority of international standing on the Metastigmata, as a visiting scientist to the Arachnida Section, and to provide him with the facilities for a 12-month study of the Nuttall collection with a view to producing a critical catalogue. He has completed the task with notable suc-

cess. Tick workers everywhere will be greatly indebted to him, and, having been directly responsible for the curation of the Nuttall collection for several years, I feel privileged to have been invited to contribute the foreword to this important work.



J. G. Sheals
Keeper of Zoology
British Museum
(Natural History)

Preface

The Nuttall collection of ticks, which had never been revised and updated in toto, was discussed in the autumn of 1976 with the acarology staff of the British Museum (Natural History). This collection had been donated to the British Museum (Nat. Hist.) in 1939 by the Molteno Institute for Research in Parasitology, Cambridge University. The staff agreed that to have this important historical collection, rich in type specimens, entirely reidentified and updated would benefit the Museum. I agreed that, as a systematist on Ixodoidea from the Rocky Mountain Laboratories (RML), U.S. Public Health Service, it would be advantageous for RML because we were entering all data relating to the two largest tick collections in the world, the RML collection and that of Harry Hoogstraal, Naval Medical Research Unit No. 3 (NAMRU-3), Cairo, Egypt, into the computer at the U.S. National Museum of Natural History. With the addition of Professor Nuttall's collection, data on the three most important tick collections in the world would become available to researchers. In addition, the Nuttall collection contains type specimens for over 150 tick species and numerous species of medical and veterinary importance

collected from all over the world. Accurate determination of these species would be beneficial to all tick workers.

I began a year's visit to the British Museum (Nat. Hist.) in August 1977 for the purpose of reidentifying the Nuttall tick collection. This research was supported by the Office of International Health, National Institutes of Health, Bethesda, Md.

This publication brings up to date, in a slightly revised form, Nuttall's "Catalogue of Ticks," a three-volume handwritten journal, never before published but certainly a work that leading tick specialists have found one of the most useful single references on the Ixodoidea. The Nuttall catalogue, as now updated and revised, is a historical record of an exceedingly important group of ectoparasites. Because of Professor Nuttall's diligent listing of all relevant collection data relating to his ticks, combined with those data from the RML and NAMRU-3 tick collections, we will undoubtedly be able to better understand tick-host relationships, geographical distribution patterns, and seasonal dynamics within the Ixodoidea.

Acknowledgments

The following persons are gratefully acknowledged: At the British Museum (Natural History), J. Gordon Sheals, Keeper of Zoology, kindly invited me to conduct this research on Professor Nuttall's tick collection; Keith H. Hyatt, Arachnida and Myriapoda Section, freely provided access to the Nuttall collection plus space, tools, and time to study this material; Anne S. Baker, Arachnida and Myriapoda Section, provided rare and obscure references relating to Professor Nuttall that are available only in the library of the British Museum (Nat. Hist.). A special thanks, also, to Bernice E. Brewster, formerly of the Arachnida and Myriapoda Section, who provided host and locality information for which I am most grateful.

Donald Macfarlane, Commonwealth Institute of Entomology, through his knowledge of the British records office, was instrumental in enabling me to trace the daughter and son of Professor Nuttall. Macfarlane also provided invaluable assistance in solving certain British conventions in housing, schooling, banking, and so forth, for which my

family and I are most grateful. Dennis W. Babbage, emeritus fellow and former president, and Ralph E. Bennett, president, Magdalene College, Cambridge University, were gracious in assisting me in gathering background material on Professor Nuttall's later days at Cambridge.

To the following authorities on the Ixodoidea my thanks for their taxonomic assistance: Carleton M. Clifford, Rocky Mountain Laboratories, Hamilton, Mont.; Harry Hoogstraal and Hilda Wassef, NAMRU-3, Cairo, Egypt, and Jane B. Walker, Veterinary Research Institute, Onderstepoort, Republic of South Africa. Professor Nuttall's son, George R. F. Nuttall, was very helpful in filling in details on his father's life. I am grateful to F. G. A. M. Smit, British Museum (Nat. Hist.), R. W. Wenzel, Field Museum of Natural History, and K. C. Kim, Pennsylvania State University, for determinations of Siphonaptera, Hippoboscidae, and Anoplura, respectively. Parts of this research were aided by a Wellcome Research Travel Grant from the Burroughs Wellcome Fund.

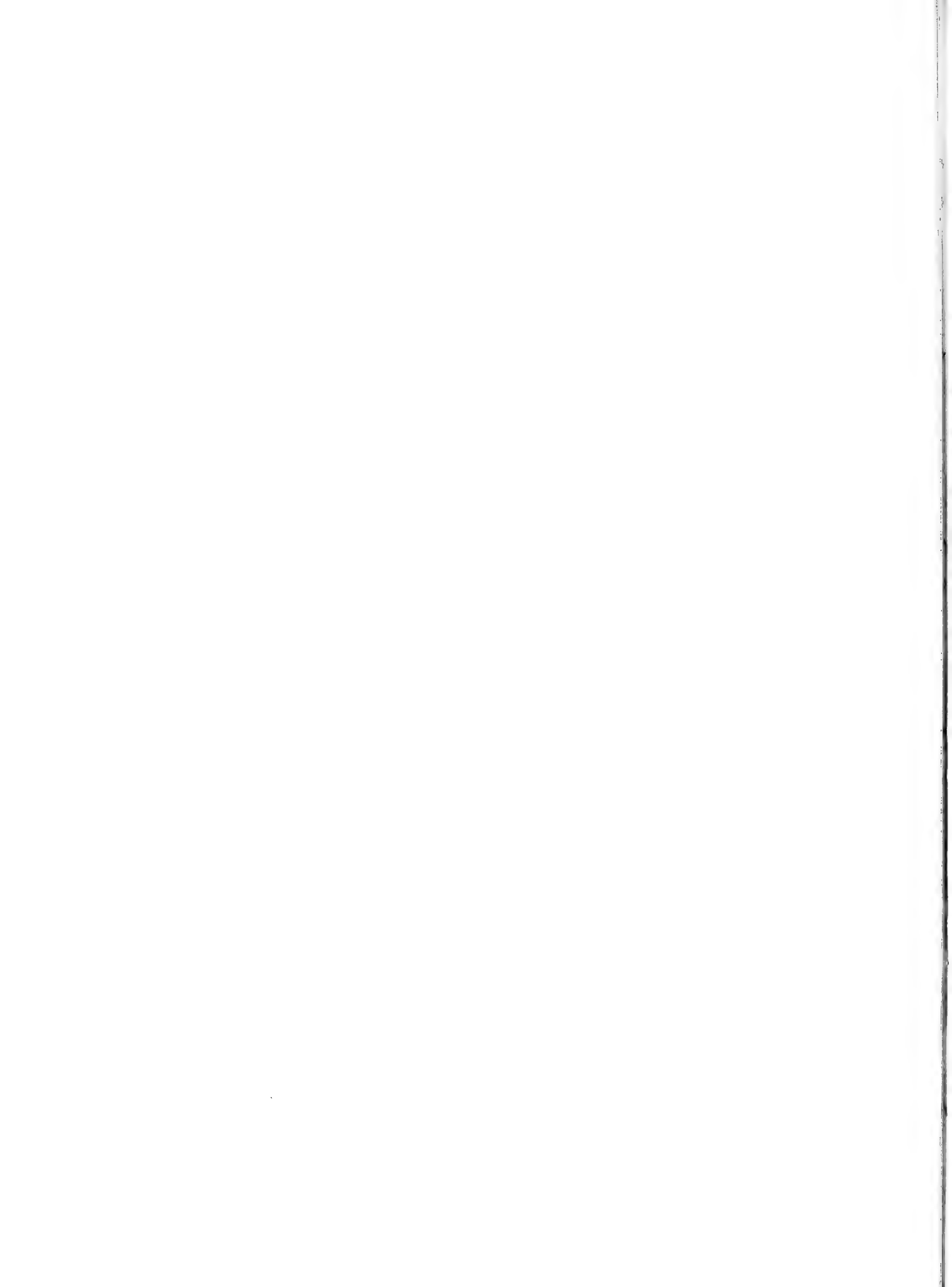
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George Henry Falkiner Nuttall and the Nuttall Tick Catalogue

by James E. Keirans^{1/}

From the turn of the century until his death in 1937, George H. F. Nuttall amassed what at the time was the world's largest tick collection. This collection was the basis for monographic revisions of the genera *Argas* and *Ornithodoros* (1908), *Ixodes* (1911), *Haemaphysalis* (1915), and *Amblyomma* (1926). These works are still consulted by specialists and, although outdated, the *Amblyomma* revision remains the best published work on that genus.

Nuttall was in a unique position with regard to the collection of ticks. He personally collected, but that was a secondary source of material. As Director of the Molteno Institute for Research in Parasitology, Cambridge University, he had access to collections by present and former students and corresponded with parasitologists throughout the world. He also exchanged tick specimens with most of the leading tick workers of the day, including L. G. Neumann, W. Dönitz, H. de B. Aragão, E. Brumpt, and R. A. Cooley. Readers of the scientific publications "Parasitology" and the "Journal of Hygiene," both of which he edited, were acquainted with his numerous publications on ticks and sent him samples for identification. More importantly, this was the era of the greatest expansion of the British Colonial Empire and the time of the formation of the Entomological Research Committee (Tropical Africa), later expanded to the Imperial

Bureau of Entomology and now the Commonwealth Institute of Entomology. This committee began the first systematic collection and study of insects and other arthropods injurious to man, animals, and crops in Africa (Anon., 1909; Shipley, 1910). Nuttall was a member of this committee and was responsible for all tick identifications.

However, all this access to huge tick collections would have been in vain had it not been for Nuttall's meticulous recordkeeping. Each collection received a Nuttall number, and all data were put on labels kept with the ticks in alcohol; numerically, the data were entered in his tick catalogue. The large number of ticks from collectors throughout the world, combined with Nuttall's detailed accurate recordkeeping and his taxonomic expertise, led to a tick collection unrivaled in its day.

After Nuttall's death in 1937, Cambridge University presented his tick collection to the British Museum (Nat. Hist.) with the single stipulation that it remain a separate entity as--The Nuttall Tick Collection--and not be incorporated into the general collection. Various investigators have studied parts of Nuttall's collection when they pertained to species groups in which they had an interest, but the entire collection has never been revised and updated. Since his death, taxonomic concepts have changed within the Ixodoidea and their numerous vertebrate hosts. In addition, the emergence of scores of new nations, especially in the post-World War II period, requires an updating of all locality data associated with the Nuttall collection.

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Biography of George H. F. Nuttall

George Henry Falkiner Nuttall was born in San Francisco, Calif., on July 5, 1862, the second of three sons and two daughters of Robert Kennedy Nuttall, M.D., and his wife, Magdalena. His father (1815-81) received his doctor of medicine degree from Aberdeen in 1847 and was a physician in the prison colony in Tasmania for 4 years before migrating to San Francisco and establishing an obstetrical practice. In 1865, the family moved to Europe, where the children were educated in France, Germany, England, and Switzerland. In 1873, his father took a house in Richmond, Surrey, and George went to Epsom for a part of his primary school education; in 1876, he was privately tutored before returning to America in 1878. It was to this cosmopolitan upbringing that Nuttall owed his ability to speak German, French, Italian, and Spanish, accomplishments that were to help him greatly in his scientific career and travels. He entered the University of California, Berkeley, to study medicine and obtained a doctor of medicine degree in 1884 and also won the Kane Prize.

After 1 year at Johns Hopkins University in Baltimore, Md., Nuttall went to Germany--first, to Breslau and later, Göttingen, where he became interested in parasitology, which became the main scientific interest of his life. In 1891, he returned to America as assistant to W. H. Welch, professor of pathology at Johns Hopkins. From 1892 to 1899, he worked on hygiene at Göttingen and Berlin. In 1895, he married Paula von Oertzen-Kittendorf (1873-1922) of Mecklenburg. They had two sons, George (b. 1896) and Winfred (1897-1972), and a daughter, Carmelita (b. 1902). In 1899, Nuttall gave lectures on bacteriology at Cambridge. A year later, he was appointed university lecturer in bacteriology and preventive medicine.

In 1901, Nuttall founded the "Journal of Hygiene," which he edited up to the time of his death. Seven years later he began "Parasitology," which he edited until 1933. The following note appears in

Nuttall's journal for May 1900: "In this month I saw Dr. John Haldane, F.R.S., at a meeting of the Physiological Society in Cambridge. We had a conversation which led to our starting the JOURNAL OF HYGIENE the public announcement of which appeared in October, the first number coming out in January 1901. The suggestion initiated from Haldane, who being a physiologist was unwilling to take on the chief editorship. Dr. Arthur Newsholme, representing the administration side of Hygiene, joined us as third editor and we soon secured a lengthy list of collaborators in all parts of the world." In his editorial work he displayed the same thoroughness as in his research. He considered that part of the duty of an editor was educational and spent much time in correcting and improving papers and in advising young and inexperienced workers. As editor, he exerted great influence on investigators all over the world, and his journals became models upon which the publications of several scientific societies were based.

Among his outstanding contributions to science was his discovery while working in Flugge's Institute (1888) that defibrinated blood possesses a strong bactericidal property against anthrax bacilli and that this property disappears by heating the blood to 55° C. The results of this work were incorporated in a paper "A Contribution to the Study of Immunity," which received the triennial Boylston Prize from Harvard University. This work initiated the study of humoral immunity and was the forerunner of such great discoveries as antitoxic immunity by workers like E. A. Behring and S. Kitasato. It occupied also a prominent place in the discussion of humoral versus cellular immunity formulated by E. Metchnikoff.

In collaboration with W. H. Welch (1892), he studied in great detail the anaerobic gas-producing micro-organism known now as Clostridium perfringens, the agent of gas gangrene, the importance of which as a pathogenic agent was not fully appreciated until World War I.

In collaboration with H. Thierfelder (1895-97), he carried out the first successful experiments on life under aseptic conditions. In these investigations, guinea pigs delivered by Caesarean section were kept alive and fed in a specially devised chamber under bacteria-free conditions.

In 1897, Nuttall turned his attention to the role of arthropods in the spread of disease, a subject to which he devoted his later life. In 1899, he published his well-known paper "On the Role of Insects, Arachnids and Myriapods as Carriers in the Spread of Bacterial and Parasitic Diseases of Man and Animals," which contains an exhaustive critical and historical review of the entire subject. Soon afterward (1900-01), he became interested in the history of malaria in England and in collaboration with L. Cobbett, T. Strangeways, and others undertook a survey of the distribution of the genus Anopheles in England. He found that three species of these mosquitoes were in all districts that were formerly malarious. The disappearance of malaria in England was therefore not due to the extinction of Anopheles. In collaboration with A. E. Shipley, he carried out an important investigation on the structure and biology of Anopheles, which is still considered a classic.

About the same time (1901), Nuttall turned his interest to precipitin reactions. He devoted the next 3 years to studying the application of the precipitin reaction to phylogenetic relationships among vertebrates. In 1904, he published his classic monograph "Blood Immunity and Blood Relationship," incorporating the results of an extensive investigation of precipitin tests carried out on the blood of about 600 species of animals. This investigation clearly established the correlation between the antigenic relationships of animal sera and the zoological relationships of the species. It threw a new light on the study of the phylogenetic relationships in the animal kingdom and provided also a new method for identifying the character of minute

traces of blood, a procedure that has had notable applications in forensic medicine.

After the publication of this monograph, Nuttall began his investigations on diseases transmitted to animals by ticks. By means of infected ticks (Haemaphysalis leachi) sent to him by C. P. Lounsbury from South Africa, he succeeded in infecting dogs with the agent of piroplasmiasis, a disease unknown in England. This was the first case of investigating a disease imported by an infected vector. An important result of this study, which had great economic importance, was the discovery of the curative property of trypan blue for piroplasmiasis in dogs, cattle, and sheep. This study was followed by an extensive investigation of the anatomy, biology, life history, and systematics of ticks, carried out in collaboration with C. Warburton and L. E. Robinson. The results of these investigations are incorporated in numerous papers and in the monographic study of ticks that occupied him on and off during the remaining years of his life. During this investigation Nuttall acquired a very large collection of ticks from all parts of the world, at that time the largest in existence and rich in type specimens.

Most of his research interest during and after World War I was in the study of the Anoplura, their life history, biology, anatomy, and the problems of combating the spread of these parasites.

In his early life Nuttall had traveled in Mexico, Cuba, and North America, and it was probably during this period that he became interested in natural science. His uncle, Tiburcio Parrott, gave him his first microscope and started him in making and preparing microscopic slide mounts of all varieties of animals and plants. This was perhaps the initial event in Nuttall's scientific career.

Nuttall's scientific work shows that he possessed the attributes of the acute observer, the experimental scientist, and the naturalist to a remarkable

degree. These powers enabled him to recognize small specific characters with the intuition of the systematist and, at the same time, to unravel the most complicated anatomical structures. As an experimentalist, he was able to devise complicated and well-controlled experiments and to overcome great technical difficulties in carrying them out.

As a naturalist, he showed a real passion for collecting all sorts of specimens and in preserving, classifying, and cataloguing them. This work was always carried out with a great regard for permanence. He selected always the correct container for the specimen, unfading ink, and paper of lasting quality. The catalogues of his various collections have several hundreds or, in the case of ticks, thousands of entries in his own handwriting, giving the complete history of specimens to which they refer. In his journal, with equal meticulousness, Nuttall recounted his daily experiences, conversations, trips to various meetings, and interesting visitors to his laboratory and home.

In addition to his scientific attainments, Nuttall read widely on a variety of subjects and spoke with expertise on such topics as heraldry and gardening. He was also an excellent draftsman with a great interest in art. In 1904, he was elected a Fellow of the Royal Society, at the same time as his friend A. E. Shipley, and the year 1906 was one of the most important of his life as shown by the following journal entry.

"July 20 admitted to a Junior Fellowship at Christ's College. October 16 elected Quick Professor of Biology at Cambridge, and duly admitted on the 19th by the Vice-Chancellor (Mr. Roberts of Caius) at the Lodge and on the same day went to Brighton to see Mother - back to C. 24th. 24 May proceeded to the degree of Dr. of Science (Cambridge). November 20 dined with Prof. Newton, F.R.S., at Magdalene College after having at 11 a.m. been one of a deputation which was presented to the King of Norway at Buckingham Palace on behalf of the Royal Institute of Public Health.

"This was a most eventful year. Following upon the San Francisco disaster which for some time we thought might end in the loss of our fortune, things began to look up and in the end the fire-insurance companies paid all that was due, less 5% for cash payment rec'd within a year of the disaster.

"It was a great satisfaction to be admitted a Fellow at Christ's for I felt that I had at last got into 'the inner circle.' Soon after, I was made Reader in Hygiene, the Lectureship in Bacteriology and Preventive Medicine, previously held being allowed to lapse. Curiously enough I only held this post for 4 days before I was elected to the newly established Quick chair when, in turn, the Readership lapsed, for both the Lectureship and Readership had been personal appointments. When the Readership was established, there had been no thought of my going in for the Professorship, for the conditions under which the latter was to be held had not as yet been determined. However, as time went on, it was decided that the holder of the chair should devote himself to the 'study of the protozoa, especially in relation to disease,' and this being the case I made an application for the post. The decision as to who should be the first holder of the chair was arrived at with some difficulty and a good deal of heart burning. My friends rallied nobly to the charge and I was elected. It is just as well to forget the disagreeable aspects of the campaign for it ended in Victory for me. In my printed application with the friend much matter relating to this event, so important for me & mine for it put me 'upon my legs' again after the San Francisco disaster which strained our finances badly, my income from that source having been cut off for upwards of a year."

Nuttall received honorary degrees from the Universities of California, Strasbourg, Egypt, South Africa, and Liège and was elected corresponding member of many scientific societies. He received also the Belgian Order of Leopold II and the

French Order of Commandeur de la Légion d'Honneur.

On the afternoon of December 16, 1937, Nuttall rushed from Cambridge to London to attend an autograph party at Foyles Bookstore for his son, George, who had coauthored a book with H. M. Hyde on air defense and the civil population. From there he dashed off to an art gallery where the portraits of Philip Alexius Laszlo de Lombos were on display, including one of Nuttall painted in 1932 (see frontispiece). From there he went immediately to the Craven Hotel in Charing Cross where he suffered a fatal heart attack. Unfortunately, it was on the eve of a dinner in his honor to be given by 60 colleagues upon his retirement from his long and successful editorship of the "Journal of Hygiene."

G[raham]-S[mith] and K[eilin] (1938) published Nuttall's obituary with a list of his publications. The following list of additional publications by Professor Nuttall is not meant to be exhaustive because it does not include all abstracts, editorial reviews, or extracts of previous publications, but I have attempted to include most of the notes and longer works not in the 1938 publications list.

Nuttall, G. H. F. 1897. The part played by insects in the spread of plague, and on the receptivity of different animals to plague infection. Vet. Rec. 10: 390-391.

_____ 1899. Nachtrag zu meinem Bericht betreffend "Neure Untersuchungen uber Malaria, Texas-fieber und Tsetsefliegen-Krankheit" in dieser Zeitschr. 1898, No. 22. Hyg. Rundschau 9: 117-118.

_____ 1899. The part played by insects, arachnids, and myriapods in the propagation of infective diseases of man and animals. Vet. Rec. 12: 171-174.

_____ 1899. The poisons given off by parasitic worms in man and animals. Ann. Mag. nat. Hist. 4: 235-236.

_____ 1899. The role of insects, arachnids and myriapods in the propagation of infective diseases of man and animals. Lancet 2: 775-778.

_____ 1900. Upon the part played by mosquitoes in the propagation of malaria. A historical and critical study. J. trop. Med. 2: Title correction of item 39 in Nuttall's (1938) list of publications. [See 3d from last entry in this publication list.]

_____ Haldane, J., & Newsholme, A. 1901. Introduction. J. Hyg. Cambridge 1: 1-2.

_____ 1902. Note on the supposed transmission of plague by fleas and of relapsing fever by bed bugs. J. trop. Med. 5: 65-66.

_____ 1904. Directions for preserving filariae. J. R. Army med. Corps 3: 78.

_____ & Graham-Smith, G. S. 1905. Canine piroplasmiasis. Bull. Inst. Pasteur, Paris 3: 839-840.

_____ 1907. International Society of Tropical Medicine. J. trop. Med. and Hyg. 10: 337-338.

_____ 1907. Redwater fever and allied diseases. Proc. Assoc. econ. Biol. 1: 106.

_____ 1908. Letter to the editor. The International Society of Tropical Medicine. Lancet 1: 1109.

_____ 1909. The Harben lectures, 1908. Spirochaetosis in man and animals. J. trop. vet. Sci. 4: 144-158.

Nuttall, G. H. F. & Hadwen, S. 1910.
The drug treatment of piroplasmosis
in cattle. Vet. J. 17: 38-45.

1911. On haematozoa
occurring in wild animals in Africa.
1. Piroplasma rossi n. sp. and
Haemogregarina canis adusti n. sp.
found in the jackal. 2. Spiro-
chaeta bovis caffris n. sp. found in
the buffalo. J. trop. vet. Sci. 6:
83-90.

1913. Observations on
British rat-fleas, July-October,
1911. Parasitology, Cambridge 6: 1.

1913. Personal opinions of
Professor George H. F. Nuttall,
F.R.S., M.A., M.D., Ph.D., Sc.D.,
regarding the proposed Rockefeller
[sic] Institute for the study of
prevention of disease (by request,
January 1901) [pp. 55, 57-60]. 60
pp. Commercial Press, Bombay.

1913. Scheme for the organi-
zation of an institute for the study
of tropical diseases in India [pp.
37, 39-43]. 60 pp. Commercial
Press, Bombay.

& Strickland, C. 1913.
Report on rat-fleas in Cambridge-
shire. Parasitology, Cambridge 6:
18-19. [The 2d entry above and this
entry are corrections of item 123 in
Nuttall's list of publications; see
3d from last entry in this publica-
tion list.]

1915. Report on the work of
the Quick Laboratory, Cambridge.
Rep. advis. Com. Trop. Dis. Res. Fd.
Lond. (1914): 87-88.

& Hindle, E. 1915. Condi-
tions influencing the transmission
of East Coast fever. Studies
Rockefeller Inst. Med. Res. 20: 1-12.

1917. Foreword to Hindle,
E. Notes on the biology of Pediculus
humanus. Parasitology, Cambridge 9:
259-260.

1921. Notice to authors of
papers intended for publication in
Parasitology. Parasitology, Cam-
bridge 13: [4 unnumbered pages
appearing after p. 192 in issue No.
2.]

1922. Correspondence. The
end of the International Society of
Tropical Medicine. Am. J. trop. Med.
2: 369-370.

1922. Thomas Spencer Cobbold,
biography with portrait. Parasitol-
ogy, Cambridge 14: 417-418, portrait,
pl. 20.

1925. Acarina (Ixodidae).
Bull. Com. Etud. hist. sci. Afr.
occident. Fr. 8: 100-101.

1927. The armorial bearings
of Magdalene College. Magdalene
Coll. Mag. 8: 109-110.

1927. The arms of Thomas
Lord Audley of Walden (1488-1544)
founder of Magdalene College,
Cambridge. Cambridge Antiq. Soc.
Comm. 28: 101-115.

1929. Philip Hedgeland Ross.
Lancet 217: 1284.

1931. Le role pathogene des
tiques. Bruxelles Med. 10: 1359-
1366.

1938. List of scientific
publications (1886-1938). Para-
sitology, Cambridge 30: 409-418.

1940. Notes on the prepa-
ration of papers for publication in
the Journal of Hygiene and in
Parasitology. J. Hyg. Cambridge 40:
1-62.

1940. Notes on the prepa-
ration of papers for publication in
the Journal of Hygiene and in
Parasitology. Parasitology,
Cambridge 32: 1-62.

From George R. F. Nuttall, I purchased
Professor Nuttall's personal set of

annotated reprints in 18 bound volumes. Included in volume X were 3 publications printed for private circulation.

Nuttall, G. H. F. 1906. Application of G. H. F. Nuttall for election to the Quick Professorship of Biology, Cambridge. 21 pp. Printed by John Clay, M.A., at the University Press.

(Undated but between 1909 and 1919). Statement regarding a project to build a field laboratory for research in parasitology in the vicinity of Cambridge. 4 pp. University of Cambridge.

1907-24. Annual report of the Quick Professor, Cambridge. [Reports for 1907, 1910, 1912, 1913, and 1921 are in Nuttall's handwriting, but copies were also undoubtedly printed.]

Explanatory Notes on the Catalogue

Format

I have attempted to reproduce the Nuttall catalogue as a document historically faithful to the original work. In the left-hand column of each page is the catalogue as originally handwritten, including all remarks by Nuttall or his colleagues at Cambridge. Nuttall skipped the numbers 1555, 2101, and 3245-3254. These omissions are noted in the text. I found that the following original catalogue numbers needed to be rearranged: 2211, 2327-2344, 2746, 2905, and 3412 were repeated for completely unrelated collections and I have renumbered them, respectively, 2211Z, 2327Z-2344Z, 2746Z, 2905Z, and 3412Z. Nuttall misnumbered the catalogue item 1242 as 1142, which I have corrected.

At the Molteno Institute, Cambridge University, I was given various notebooks, including an almost complete one-volume copy of the tick catalogue that belonged to Nuttall. Professor Bruce Newton of the Molteno Institute graciously allowed me to deposit this material with Nuttall's tick collection at the British Museum (Nat. Hist.). Among these documents was a notebook entitled "Ticks. Collections Sent Away," which contains the names and addresses of numerous persons (usually parasitologists, teachers, and naturalists), the ticks they received, and the Nuttall number from which the ticks were taken. I have indicated these donations in the remarks section of the original catalogue column because they are part of Nuttall's original records although not so entered into his catalogue.

Nuttall often indicated the date he replied to the donor of a collection (i.e., R.14.VII.1914). In addition, he often entered the abbreviation of an author of a species name (i.e., Ambly. cohaerens Dö.). I have deleted reply dates and abbreviations. Throughout the catalogue he abbreviated names of tick genera, such as Ambly., Boo., Haem., and Hyal. I have given complete names for all tick genera. Also, in some but not

all instances, Nuttall cited a given collection as follows:

N3077 Aponomma trimaculatum ♂'s, N's
(i) ♂'s
(ii) N's

I have eliminated the redundant use of (i) and (ii). With these exceptions and a few minor corrections, all data appearing in the left-hand column are as they appeared in the original version of Nuttall's catalogue.

In his catalogue, Nuttall arranged collection data in seven general categories for each entry as follows: (1) Nuttall number, (2) tick determination, (3) host, (4) locality, (5) date, (6) collector, and (7) remarks. Entry (1) is always present and (2) is rarely absent. The remaining categories are usually included.

In the updated catalogue column, I have added to category (1) a Rocky Mountain Laboratories (RML) number. This number will allow these records to be added into the SELGEM (the acronym derived from SELF-GENERATING MASTER) information retrieval system of the National Museum of Natural History, Smithsonian Institution. This is a generalized system for information storage, management, and retrieval especially suited for collection management in museums. Often Nuttall neglected to list the number of specimens in a collection. I have added this information to the tick determination using the standard characters: ♂ = male, ♀ = female, N = nymph, and L = larva. Host data are indicated by current species designation whenever possible. Common names are used when applicable or when no other choice is available. Specific localities are given coordinates whenever possible, but where the localities are large areas (viz Queensland, Australia; South Africa), no coordinates are given. I have used the more readily recognizable names of localities rather than the less common, albeit more correct, names. For example, I have used Algiers instead of Alger and Cairo instead of Al-Qahirah. Where a Nuttall tick collection is

missing, all information is given as it appears in the catalogue, and no attempt is made to update or correct any data. The word "MISSING" appears in the update column.

The following abbreviations are used throughout the text:

BMNH	British Museum (Natural History)
C.W.	Cecil Warburton
G.H.F.N.	George H. F. Nuttall
J.E.K.	James E. Keirans
L.E.R.	Lloyd E. Robinson
NB	Nota bene
Nn	L. G. Neumann
RML	Rocky Mountain Laboratories
I.B.E.	(also cited as Imp. Bur. Ent.) Imperial Bureau of Entomology

At the end of the catalogue are four appendixes so that users can locate collection data by type specimens, genus and species of tick, host, and geographical locality.

Tick Determinations

The determination of most immature ticks should be considered tentative. Where nymphs or larvae were part of a reared series, I have given them the same identification as adults. I have made specific identifications of other immatures when I have felt confident of the determination, or where knowledge of immature stages is well known, or both, i.e., many Ornithodoros spp. and certain Ixodes spp.

Haemaphysalis leachi determinations may be considered as H. leachi group. This group of African carnivore parasites consists of H. leachi, H. moreli, H. paraleachi, H. punctaleachi, and H. spinulosa. Separation of these entities was not attempted.

Dermacentor auratus, D. compactus, D. atrosignatus, and at least two other unnamed species are currently under study by H. Hoogstraal and H. Wassef. I have used an unpublished key by these

workers for this group. When their revision of the D. auratus group is published, Nuttall's collections of these taxa will need to be restudied.

In Africa, the Rhipicephalus sanguineus group currently contains R. bergeoni, R. camacasi, R. guilhoni, R. moucheti, R. sanguineus, R. serranoi, R. sulcatus (two ecologically and morphologically distinct entities), and R. turanicus.

The first three species are not well known, and the first two may be present in R. sanguineus collections, especially in the horn of Africa. R. guilhoni is characteristically a North and West African livestock tick and may be widely distributed. R. moucheti is a rare species, known only from a few specimens from Guinea, Benin, and Cameroon.

Biosystematic investigations on the R. sanguineus group are being conducted by R. G. Pegram and coworkers. Specific identification of this group awaits the results of these studies.



Figure 1.--The Nuttall tick catalogue: Volume 1, Nos. 1-800; volume 2, Nos. 801-3500; and volume 3, Nos. 3501-3972.

The Nuttall Tick Catalogue

Volume I, Nos. 1-800

Catalogue of Ticks
collected by
George H.F. Nuttall,
M.A., M.D., Ph.D., Sc.D., F.R.S.
Fellow of Magdalene College,
Quick Professor of Biology in the
University of Cambridge

ORIGINAL DETERMINATION

CURRENT STATUS

N 1 N 1 MISSING

Dermacentor occidentalis 1 ♂

Wooded country, San Rafael,
California, U.S.A.

VII.1879

Mounted in balsam (transparent)
by G.H.F. Nuttall. (both slides
1 & 2 show ornamentation well by
reflected light) G.H.F.N. & C.W.
det. I.1915

N 2 N 2 MISSING

Dermacentor occidentalis 1 ♀

Wooded country, San Rafael,
California, U.S.A.

VII.1879

Mounted in balsam (transparent)
by G.H.F. Nuttall.

(both slides 1 & 2 show ornamenta-
tion well by reflected light).
G.H.F.N. & C.W. det. I.1915

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3	N	3 MISSING
<p><u>Boophilus australis</u> larvae = <u>B. microplus</u></p> <p>Cattle</p> <p>Queensland, Australia</p> <p>1900</p> <p>Presented by T. Bowhill</p> <p>Larvae raised from ♀ taken from cattle suffering from piroplasmosis. Mounted in balsam (transparent) by G.H.F. Nuttall</p>			
N	4	N	4 MISSING
<p>Undetermined genus</p> <p>Rat</p> <p>"from my bungalow compound"</p> <p>Rec'd 11.IX.1905</p> <p>Rec'd from Dr. E. H. Hankin</p>		<p>Dr. E. H. Hankin was stationed in Agra, India, which is probably the locality for this collection. See also Nuttall 327 and 759. [J.E.K.]</p>	
N	5	N	5 MISSING
<p>Undetermined genus</p> <p>Man, dog, hyaena, cow</p> <p>Makindu, E. Africa</p> <p>Rec'd 26.X.1904</p> <p>Rec'd from Dr. P. H. Ross</p>			

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 6</p> <p><u>Amblyomma cyprum</u> 2 ♂</p> <p>"my clothing (trouser)"</p> <p>Join of the River Laloki and Goldie, 12 mi. from Port Moresby [sic] British New Guinea.</p> <p>26.V.1905</p> <p>Rec'd from Mr. R.F.L. Burton</p> <p>Mr. Burton writes - "My bearers said, 'louse belong to Boroma,' which probably means "pig-tick."</p>	<p>N 6</p> <p>RML 105801</p> <p>2 ♂ <u>Amblyomma cyprum</u></p> <p><u>Homo sapiens</u></p> <p>Join of the River Laloki and Goldie, 17 km from Port Moresby (09.30 S, 147.10 E), Papua New Guinea.</p> <p>26.V.1905</p> <p>Rec'd from Mr. R.F.L. Burton</p> <p>R.F.L. Burton (1864-1922), educated at Eton, lived many years in New Zealand where he farmed on a large scale.</p>
<p>N 7</p> <p><u>Ixodes hexagonus</u> ♀ (gorged)</p> <p>Human</p> <p>Caxton, Cambs., England</p> <p>Rec'd V.1905</p> <p>Dr. Giles. Rec'd from Dr. G. C. Wherry</p> <p>Tick had been found attached to the anus of a female servant. An acquaintance reported that "a large live insect had worked its way out of her body through the skin - she sent me word last night (5.VI.1908) - she noticed a lump getting larger and larger for 3 or 4 days, and this was the climax".</p>	<p>N 7</p> <p>RML 105802</p> <p>1 ♀ <u>Ixodes hexagonus</u></p> <p><u>Homo sapiens</u></p> <p>Caxton (52.12 N, 0.06 W), Cambs., England</p> <p>Rec'd V.1905</p> <p>Dr. Giles. Rec'd from Dr. G. C. Wherry</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N 8

N 8 MISSING

Haemaphysalis leachi all stages

Dogs

Raised in Cambridge. Rec'd from
Cape Colony, S. Africa

Rec'd II.1904

Sent by C. P. Lounsbury

Mounted by me in 1904 as slides
(Canada balsam)

I - V	♂'s	
VI - IX	♀'s	[13 slides]
X - XII	N's	
XIII	L's	

N 9

N 9

RML 105803

Rhipicephalus sanguineus ♂, ♀5 ♂, 13 ♀, 4 N, 148 L Rhipicephalus
sanguineus1 N Amblyomma sp.

Dog

Dog

India

India

19.I.1906

19.I.1906

Dr. C. W. Daniels

Dr. C. W. Daniels

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	10	N	10
		RML	105804
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Barbados, West Indies		Barbados (13.10 N, 59.32 W)
	I.1906		I.1906
	H. H. Brindley		H. H. Brindley
	1 ♂, 1 ♀ to C. Strickland, Malaya		Harold Hulme Brindley (1865-1944) Educated at St. Johns College, Cambridge (Steward 1914-1923, Fellow 1931); a noted authority on the Dermoptera and a historian of nautical evolution.
N	11	N	11 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Cairo, Egypt		
	10.II.1906		
	Rec'd from Dr. Edna Steinhardt, 17.II.1906		
	The specimens were collected on 10.II.1906, a few hours before death, from a dog which died, after 2 days illness from (presumably) piroplasmiasis. Given to Dr. Steinhardt by Dr. Looss (Cairo).		
N	12	N	12 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Cairo, Egypt		
	10.II.1906		
	Rec'd from Dr. Edna Steinhardt via Dr. Looss.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	13	N	13	MISSING
	<u>Amblyomma</u> n. sp. ♂, ♀			
	Tortoise			
	Malay Peninsula			
	Dr. H. E. Durhan [London Sch. Trop. Med. No. 214]			
N	14	N	14	MISSING
	<u>Ornithodoros moubata</u> 2 ♂, 2 ♀			
	Harar, Abyssinia			
	V.1901			
	Dr. E. Brumpt			
	Given to me by Dr. Brumpt in Paris, III.1906			
N	15,a	N	15,a	MISSING
	(15) <u>Rhipicephalus bursa</u> ♂, N, L			
	(a) <u>Haemaphysalis cinnabarina</u> var. <u>punctata</u> 1 ♀ laying eggs (labelled <u>R. bursa</u> by Motas!)			
	Sent III.1906			
	Sent by Prof. C. S. Motas, Bucharest, Roumania			

ORIGINAL DETERMINATIONCURRENT STATUS

N	16	N	16 MISSING
	<u>Boophilus annulatus</u> ♂, ♀, N		
	Sent III.1906		
	Sent by Prof. C. S. Motas, Bucharest, Roumania		
	Mounted on 2 slides in balsam		
N	17	N	17
	<u>Hyalomma aegyptium</u> 42 ♂, 6 ♀	RML	105822
	Camels		42 ♂, 6 ♀ <u>Hyalomma a. anatolicum</u> 2 ♂ <u>Hyalomma dromedarii</u>
	Cairo abattoir, Egypt		<u>Camelus dromedarius</u>
	29.III.1906		Abattoir, Cairo (30.03 N, 31.15 E), Egypt
	Dr. A. Balfour		29.III.1906
			Dr. A. Balfour
			Sir Andrew Balfour (b1859) was with Wellcome Research Laboratories in Khartoum, Sudan and later head of London School of Hygiene and Trop- ical Medicine.
N	18	N	18 MISSING
	<u>Hyalomma aegyptium</u>		
	Cattle		
	Cairo abattoir, Egypt		
	29.III.1906		
	Dr. A. Balfour		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	19	N	19
		RML	105823
	<u>Ixodes canisuga</u> ♀		1 ♀ <u>Ixodes canisuga</u>
	Dog		Dog
	Longner Hall, Shrewsbury		Longner Hall, Shrewsbury (52.43 N, 2.45 W), England
	12.IV.1906		12.IV.1906
	R.F.L. Burton		R.F.L. Burton Cited: Nuttall & Warburton (1911: 214).
N	20	N	20
		RML	105824
	Undetermined genus ♂, ♀3		1 ♂, 3 ♀ <u>Hyalomma truncatum</u>
	Giraffe		<u>Giraffa camelopardalis</u>
	Katsina, S. Nigeria, West Africa		Katsina (13.00 N, 7.32 E), Nigeria
	VIII.1905		VIII.1905
	D. Alexander		D. Alexander
N	21b	N	21b
		RML	105825
	<u>Rhipicephalus</u>		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Sudan		Sudan
	Rec'd. 1.IV.1906		Rec'd. 1.IV.1906
	Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).		Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).
	"Ticks from the Sudan said to be <u>Hyal. aegyptium</u> ."		There is also 1 ♀ <u>Hyalomma truncatum</u> with the Nuttall number 21a but the collection data corresponds to Nuttall number 20.

ORIGINAL DETERMINATIONCURRENT STATUS

N	22	N	22
		RML	105826
	3 ♂ <u>Amblyomma hebraeum</u>		1 ♂ <u>Amblyomma gemma</u> 3 ♂ <u>Amblyomma lepidum</u>
	Sudan		Sudan
	Rec'd. 1.IV.1906		Rec'd. 1.IV.1906
	Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).		Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).
N	23	N	23
		RML	105827
	<u>Argas miniatus</u>		3 ♀ <u>Argas persicus</u>
	Sudan		Sudan
	Rec'd. 1.IV.1906		Rec'd. 1.IV.1906
	Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).		Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).
			Vial label reads <u>Argas persicus</u> although <u>Argas miniatus</u> was entered in the catalogue.
N	24	N	24
		RML	105828
	<u>Rhipicephalus sanguineus</u>		1 ♀ <u>Rhipicephalus sanguineus</u>
	Sudan		Sudan
	Rec'd. 1.IV.1906		Rec'd. 1.IV.1906
	Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).		Rec'd. from Dr. Daniels (London) who in turn got them from Dr. A. Balfour (Khartoum).

ORIGINAL DETERMINATIONCURRENT STATUS

N 25

Undetermined genus

Donkey, horse, camel, dog,
and ox

Hyderabad, Sind, India

15.V.1906

Dr. Advani

Thrown away

N 25d

RML 105829

18 ♂, 9 ♀ Rhipicephalus
sanguineusDonkey, horse, camel, dog,
and oxHyderabad (25.22 N, 68.22 E),
Sind, Pakistan

15.V.1906

Dr. Advani

ORIGINAL DETERMINATIONCURRENT STATUS

N	26a, b, c, c', d	N	26a, a', b, c, c', d
		RML	105830
	26a <u>Rhipicephalus evertsi</u>		26a 2 ♂ <u>Rhipicephalus evertsi</u> (pinned specimens)
			26a 2 ♂ <u>Hyalomma rufipes</u>
			26a 7 ♂ <u>Hyalomma truncatum</u>
			26a' 1 ♂ <u>Amblyomma hebraeum</u>
	26b <u>Hyalomma aegyptium</u>		26b 1 ♂, 1 ♀ <u>Hyalomma rufipes</u>
			26b 1 ♂, 1 ♀ <u>Rhipicephalus evertsi</u> (pinned specimens)
	26c <u>Hyalomma aegyptium</u>		26c 9 ♂, 10 ♀ <u>Hyalomma truncatum</u> (including 1 ♂ in tick abnormalities jar)
	26c' <u>Rhipicephalus evertsi</u>		26c' 2 ♀ <u>Rhipicephalus evertsi</u> (pinned specimens)
	26d <u>Rhipicephalus evertsi</u>		26d 1 ♀ <u>Rhipicephalus simus</u>
			26d 6 ♂, 6 ♀ <u>Hyalomma truncatum</u>
	Ox (26a, a'), Horse (26b), Goats and Sheep (26c, c'), Dog (26d)		Ox (26a, a'), Horse (26b), Goats and Sheep (26c, c'), Dog (26d)
	South Africa		Republic of South Africa
	Rec'd. 6.IV.1906		Rec'd. 6.IV.1906
	Rec'd. from Dr. B. G. Brock Germiston, Transvaal, South Africa		Rec'd. from Dr. B. G. Brock, Germiston, Transvaal, S. Africa
			The abnormal ♂ <u>Hyalomma truncatum</u> was figured in Robinson (1920: 178). He indicated the specimen was from a goat, Germiston, Transvaal, S. Africa, 6.IV.1918.
			26a' was not entered in Nuttall's catalogue.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	27	N	27a, b
		RML	105831
	<u>Hyalomma aegyptium</u> ♂, ♀		27a 40 ♂, 4 ♀ <u>Hyalomma marginatum</u>
			27b 3 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Campagna Romano, Italy		Campagna di Roma (41.54 N, 12.29 E), Italy
	4-10.V.1906		4-10.V.1906
	Dr. B. Gosio		Dr. B. Gosio
N	28	N	28b
		RML	105832
	<u>Hyalomma aegyptium</u>		4 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Campagna Romano, Italy		Campagna di Roma (41.54 N, 12.29 E), Italy
	27.IV - 3.V.1906		27.IV - 3.V.1906
	Dr. B. Gosio		Dr. B. Gosio
	Dr. Gosio writes from Rome 12.V.1906, "Alles hängt von ver Viehart ab welche hierher gebracht wird gewöhnlich untersuche ich die Rinder des Schlachthausen. Bald wird Sardinienvich in grossen Maasstabe eingebührt. Dann werden sie sicher eine sehr grosse Anzahe von Zecken eralten, auch in cetrudizen Zustande."		Dr. Gosio writes from Rome 12.V.1906, "It all depends on the kind of cattle brought here. Usually I examine the slaughter house cattle. Soon there will be an import of Sardinian cattle on a large scale. Then they will receive a very large number of ticks, also in (cetrudizen ?) condition."

ORIGINAL DETERMINATIONCURRENT STATUS

N 29 a, b

N 29 a, b

(29a) Amblyomma petersi 1 ♂29a 1 ♂ Amblyomma rhinocerotis(29b) Dermacentor rhinocerotis
3 ♂, 2 ♀29b 2 ♂, 1 ♀ Dermacentor rhinocerinus

Rhinoceros

Diceros bicornis (probably)Nimule, Nile Province, Uganda
ProtectorateNimule (3.36 N, 32.03 E), Equatoria
Province, Sudan (on Sudan-Uganda
border)

22.III.1906

22.III.1906

Dr. W. A. Densham

Dr. W. A. Densham

Dr. Densham wrote, "They were not attached firmly like most ticks and I watched them for some time as they moved about over the skin."
[♂, ♀ mounted dry in cell on a slide]

All of the above are pinned specimens.
Slides missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 30

N 30

Hyalomma aegyptium ♂'s, ♀'s20 ♂, 56 ♀ Hyalomma dromedarii

Camels

Camelus dromedarius

Biskra, Algeria, North Africa

Biskra (24.50 N, 5.52 E), Algeria

4.I.1906

4.I.1906

B. H. Soulsby

B. H. Soulsby

[♂'s found on neck, ♀'s on belly
and under shoulder.]

Collection in two vials.

1 ♀ to Prof. Hewlett,
Kings College, London 6.III.1907.1 ♀ to Dr. H. deB. Aragão,
Brazil 23.I.1910.1 ♂, 1 ♀ to Dr. J. G. Parham,
Portuguese East Africa 18.IV.1910.1 ♂, 1 ♀ to N. Y. National
Museum 18.IV.19101 ♂, 1 ♀ to Prof. Dr. Dahl,
Berlin Museum VII.1914.1 ♂, 1 ♀ to Prof. Dr. Schenkling,
Deutsches Entomol. Museum VII.1914.1 ♂, 1 ♀ to Prof. Dr. Gestro,
Museo Civico di Stori Nat. Genova
VII.1914.4 ♂, 12 ♀ to Prof. Wheeler,
Boston, Mass. 20.II.1915.

ORIGINAL DETERMINATIONCURRENT STATUS

N	31	N	31
		RML	105835
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s N's		43 ♂, 15 ♀ <u>Rhipicephalus sanguineus</u> 1 ♂ <u>Haemaphysalis bispinosa</u>
	Dogs		Dogs
	S. Sylhet, India		S. Sylhet (24.54 N, 91.52 E), India
	5.IX.1904		5.IX.1904
	Dr. A. B. Dalgetty		Dr. A. B. Dalgetty
	[2 slides, balsam mounts (I) ♂, ♀, (II) N's]		Slides missing
	<u>R. sanguineus</u> were sent to the following:		
	1 ♂, 1 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin 19.I.1910.		
	1 ♂, 1 ♀ to Dr. G. S. Graham, Smith Medical Schools, Cambridge 19.I.1910.		
	1 ♂, 1 ♀ to E. E. Green, Government Entomologist, Ceylon 19.I.1910.		
	1 ♂, 1 ♀ to Dschunkowsky, Transcaucasus 19.I.1910.		
	1 ♂, 1 ♀ to Dr. H. deB. Aragão, Brazil, 23.I.1910.		
	Sex/stage unknown to Dr. Longin, Navas, Zaragoza, Spain 28.V.1913.		
N	32	N	32
		RML	105836
	Undetermined genus		1 L <u>Ornithodoros</u> sp.
	Rat		Rat
	Agra, India		Agra (27.11 N, 78.01 E) India
	Rec'd 11.IX.1905		Rec'd 11.IX.1905
	Rec'd from Dr. E. H. Hankin		Rec'd from Dr. E. H. Hankin

ORIGINAL DETERMINATIONCURRENT STATUS

N	33	N	33
		RML	105837
	<u>Boophilus australis</u>		2 ♂, 6 ♀, 3 N, 37 L <u>Boophilus microplus</u>
	Cattle		Cattle
	India		India
	1906		1906
	Capt. J.D.E. Holmes		Capt. J.D.E. Holmes
<p>Ticks from Lt. Col. C. E. Nuthall, A.V.D., sent to me (G.H.F.N.) by Colonel B. Skinner, R.A.M.C. (War Office, 68 Victoria Street, London, S.W.) 12.I.1906:</p>			
N	34a	N	34a
		RML	105838
	<u>Boophilus australis</u>		19 ♂, 14 ♀, 10 N <u>Boophilus microplus</u>
	Bowen, N. Queensland		Bowen (20.01 S, 148.15 E), Queensland, Australia
	Sent 12.I.1906		Sent 12.I.1906
	Lt. Col. C. E. Nuthall, A.V.D.		Lt. Col. C. E. Nuthall, A.V.D.
	3 ♂ mounted in balsam on 3 slides		Slides missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 34b

Boophilus australis ♂'s

Cattle

Wellington District S. India

Sent 12.I.1906

Lt. Col. C. E. Nuttall, A.V.D.

N 34b

RML 71482

24 ♂, 2 N Boophilus microplus
1 ♀ Haemaphysalis intermedia

Cattle

Wellington (11.22 N, 76.48 E)
India

Sent 12.I.1906

Lt. Col. C. E. Nuttall, A.V.D.

There is a tick collection with the Nuttall number 34(2) that Prof. Nuttall did not enter into his catalogue containing the following ticks and data:

1 ♂, 1 ♀ Haemaphysalis bispinosa
Wellington, S. India sent 12.I.1906
Lt. Col. C. E. Nuttall
I believe this collection belongs with Nuttall 34b and am assigning it RML 71482.

N 34c

Haemaphysalis bispinosa ♂, ♀

Coimbatore District S. India

Sent 12.I.1906

Lt. Col. C. E. Nuttall, A.V.D.

N 34c

RML 105839

1 ♂ Haemaphysalis bispinosaCoimbatore District (11.15 N,
77.20 E) India

Sent 12.I.1906

Lt. Col. C. E. Nuttall, A.V.D.

ORIGINAL DETERMINATIONCURRENT STATUS

N	34d	N	34d
		RML	71472
	<u>Haemaphysalis bispinosa</u> var. <u>intermedia</u>		3 ♀ <u>Haemaphysalis bispinosa</u> 8 ♀ <u>Haemaphysalis intermedia</u>
	Bangalore & Mysore Dist. India		Bangalore District (12.53 N, 77.30 E) and Mysore State (13.30 N, 76.45 E), India
	Sent 12.I.1906		Sent 12.I.1906
	Lt. Col. C. E. Nuttall, A.V.D.		Lt. Col. C. E. Nuttall, A.V.D.
			There is a tick collection with Nuttall 34.4 that Prof. Nuttall did not enter into his catalogue containing 1 ♀ <u>Rhipicephalus</u> <u>haemaphysaloides</u> . I am assigning it RML 71472.
			The <u>Haemaphysalis intermedia</u> collection cited: Hoogstraal & Trapido (1963: 838).
N	34e	N	34e
		RML	105840
	<u>Boophilus australis</u> ♀'s		26 ♀ <u>Boophilus microplus</u>
	Bangalore & Mysore Dist. India		Bangalore Dist. (12.53 N, 77.30 E) and Mysore State (13.30 N, 76.45 E) India
	Sent 26.I.1906		Sent 26.I.1906
	Lt. Col. C. E. Nuttall, A.V.D.		Lt. Col. C. E. Nuttall, A.V.D.

ORIGINAL DETERMINATIONCURRENT STATUS

N	34f	N	34f
		RML	105841
	<u>Ornithodoros savignyi</u>		34 ♀, 2 N <u>Ornithodoros savignyi</u>
	Secunderabad and Hyderabad Districts, India		Secunderabad (17.27 N, 78.30 E) and Hyderabad (18.00 N, 78.00 E) Districts, India
	Sent 12.I.1906		Sent 12.I.1906
	Lt. Col. C. E. Nuthall, A.V.D.		Lt. Col. C. E. Nuthall, A.V.D.
N	34g	N	34g
		RML	105842
	<u>Rhipicephalus haemaphysaloides</u>		1 ♂, 2 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Secunderabad and Hyderabad Districts, India		Secunderabad (17.27 N, 78.30 E) and Hyderabad (18.00 N, 78.00 E) Districts, India
	Sent 12.I.1906		Sent 12.I.1906
	Lt. Col. C. E. Nuthall, A.V.D.		Lt. Col. C. E. Nuthall, A.V.D.
			Vial label reads, " <u>Rhipicephalus</u> <u>haemaphysaloides</u> , var. <u>expeditus</u> fide, Neumann letter of 12.X.1907"

ORIGINAL DETERMINATIONCURRENT STATUS

N 34h

N 34h

Haemaphysalis bispinosa
var. intermedia

RML 71474

25 ♀ Haemaphysalis intermediaSecunderabad and Hyderabad
Districts, IndiaSecunderabad (17.27 N, 78.30 E) and
Hyderabad (18.00 N, 78.00 E)
Districts, India

Sent 12.I.1906

Sent 12.I.1906

Lt. Col. C. E. Nuttall, A.V.D.

Lt. Col. C. E. Nuttall, A.V.D.

2 ♀ to Dr. L. O. Howard, U.S.
Dept. Agriculture, Washington, D.C.,
21.V.1909There is a collection - Nuttall 34
3 ♀ Hyalomma marginatum turanicum
and Nuttall 34.8 3♂, 2 ♀ Hyalomma
anatolicum anatolicum that Prof.
Nuttall did not enter in his
catalogue both containing all the
above collection data. I am assigning
both collections RML 71474.The H. a. anatolicum collection was
cited by Kaiser & Hoogstraal (1964:
272) as 4 ♂, 2 ♀. Only 3 ♂, 2 ♀
were present in 1978.The H. intermedia collection was
cited by Hoogstraal & Trapido
(1963: 838).

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received from the Zoological Gardens, London, N.W., during 1905:

N	35	N	35
			RML 61047
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		6 ♂, 10 ♀ <u>Hyalomma dromedarii</u>
	<u>Camelus dromedarius</u>		<u>Camelus dromedarius</u>
	Aden, Arabia		Peoples Democratic Republic of Yemen (Aden)
	30.XI.1905		30.XI.1905
	1 ♂, 1 ♀ sent to Prof. Dryer, Parasitology Dept., Oxford, 1 ♂, 1 ♀ sent to W. D. Hunter, USDA, Washington 1 ♂, 1 ♀ sent to Dr. de Blicck, Java 22.I.1915.		An additional 2 ♀ are in the Rocky Mountain Laboratory collection (Bishopp No. 430)
N	36	N	36
			RML 105843
	<u>Amblyomma nodosum</u> ♂'s TYPE SPECIMENS		7 ♂ <u>Amblyomma nodosum</u> (3 ♂ on slides) (2 ♂ pinned) (2 ♂ in alcohol) Lectotype and paralectotypes of <u>Amblyomma uncatum</u>
	<u>Tamandua tetradactyla</u> (<u>Tamandua anteater</u>)		<u>Tamandua tetradactyla</u>
	South America		South America
	22.XII.1906		22.XII.1906
	3 ♂'s & parts of ♂ mounted in balsam on 5 slides 1 ♂ sent to A. S. Hirst B.M. (N.H.)		3 ♂'s mounted on slides plus 2 slides as follows: 1. capitulum and leg IV of ♂ 2. chelicera and hypostome of ♂ 2. ♂ pinned specimens. Original description, Nuttall & Warburton (1908: 412); Robinson (1926: 199) cited this collection as <u>A. nodosum</u> . Lectotype designated: Keirans & Brewster (1981: 157).

ORIGINAL DETERMINATIONCURRENT STATUS

N	37	N	37
		RML	105844
	<u>Aponomma exornatum</u> ♂'s, ♀'s		11 ♂, 2 ♀ <u>Aponomma exornatum</u>
	<u>Varanus exanthematicus</u>		<u>Varanus exanthematicus</u>
	West Africa		West Africa
	23.XI.1905		23.XI.1905 (date on vial label is 13.V.1905)
	2 ♂'s mounted in cells with other <u>Aponomma</u>		Slide missing. Santos Dias (1958: 519-520) indicated the number of males as 10.
N	38	N	38
		RML	105845
	<u>Aponomma gervaisi</u> ♂'s, ♀'s		7 ♂ <u>Aponomma gervaisi</u>
	(<u>Varanus bengalensis</u>)		<u>Varanus bengalensis</u>
	Bengal monitor		
	India		India
	6.XI.1905		6.XI.1905

ORIGINAL DETERMINATIONCURRENT STATUS

N 39

N 39

Aponomma laeve ♂, ♀

RML 105846

2 ♂, 2 ♀ Aponomma latum
1 ♂ Aponomma pattoni(Python regius)

Royal python

Python regius

West Africa

West Africa

1.XII.1905

1.XII.1905

The finding of the Asian species
A. pattoni in a West African
collection of A. latum must be the
result of a mix-up either at the
London Zoo or in Nuttall's laboratory.

N 40

N 40

Amblyomma dissimile 3 ♂

RML 105847

3 ♂ Amblyomma dissimile(Iguana tuberculata)

Tuberculated iguana

Iguana tuberculata

Tropical America

Tropical America

7.XII.1905

7.XII.1905

ORIGINAL DETERMINATIONCURRENT STATUS

N 41

N 41

RML 105848

Aponomma gervaisi 4 ♂, 2 ♀, N's
var. lucasi

4 ♂, 2 N Aponomma varanensis

(Eryx conicus)
Conical eryx

Eryx conicus
(name not verified)

India

India

29.X.1905 (arrived at Zool. Soc.
Gardens 13.III.1905)

29.X.1905 (arrived at Zool. Soc.
Gardens 13.III.1905)

Original determination by Neumann in
1907 was Aponomma exornatum.
Redetermined by C. Warburton. (See
descr. of Apon. g. var. 1. in Dec.
1910 Parasitology 3: 406.)

N 42

N 42

RML 105849

Aponomma decorosum

13 ♂ Aponomma decorosum

(Varanus gouldi)
Gouldi monitor

Varanus gouldi

Australia

Australia

1905

1905

ORIGINAL DETERMINATIONCURRENT STATUS

N 43

N 43

RML 105850

Amblyomma clypleolatum ♂'s5 ♂ Amblyomma clypleolatumLectotype and paralectotypes of
A. atrogenatum(Testudo elegans)
Starved tortoiseGeochelone elegans

India

India

2.X.1905

2.X.1905

Type specimens of Amblyomma
atrogenatum[♂ capitulum in balsam on a slide]
1 ♂ to A. S. Hirst, B.M. (N.H.)Total includes 1 ♂ pinned.
Nuttall & Warburton (1908: 410)
and Robinson (1926: 81) indicated
that the host was received at the
Zoological Gardens, London 14.VIII.1905
and the ticks removed 2.X.1905.An empty token tube indicates a
slide mount of a ♂ but slide
missing 1977.Lectotype designated: Keirans &
Brewster (1981: 155).

ORIGINAL DETERMINATIONCURRENT STATUS

N 44

N 44

RML 18591

Aponomma exornatum ♂'s, ♀'s36 ♂ Aponomma exornatum(Varanus niloticus)Varanus niloticus

Nilotic monitor

Africa

Africa

28.XI.1905 (host arrived at Zool.
Soc. Gardens 31.VIII.1905)28.XI.1905 (host arrived at Zool.
Soc. Gardens 31.VIII.1905)1 ♂ 1 ♀ to Prof. Kellogg, Stanford
UniversityThere are an additional 2 ♂, 1 ♀ of
this collection sent to Prof. R. A.
Cooley, now in the Rocky Mountain
Laboratory collection (RML 22405).1 ♂ 1 ♀ to Dr. H. deB. Aragão,
Brazil, 23.I.19101 ♂ 1 ♀ to Col. A. Alcock, London
School Trop. Med. 26.I.19102 ♂ to Dr. J. G. Parkham, Portuguese
East Africa 18.IV.1913

2 ♂ to N.Y. National Museum 18.IV.1913

2 ♂ 1 ♀ to Prof. R. A. Cooley, Montana
V.1928

ORIGINAL DETERMINATIONCURRENT STATUS

N	45	N	45
		RML	105851
	<u>Aponomma gervaisi</u> ♀		1 ♀ <u>Aponomma gervaisi</u>
	(<u>Varanus griseus</u>)		<u>Varanus griseus</u>
	Grey monitor		
	North Africa		North Africa
	20.XII.1905		20.XII.1905
	1 ♀ mounted on slide		The collecting locality is incorrect. Slide missing.
N	46a, b	N	46a, b
		RML	105852
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) 26 ♂, 9 ♀, 10 N <u>Hyalomma anatolicum excavatum</u>
	(b) <u>Boophilus annulatus</u> ♂, ♀		(b) 2 ♂ <u>Boophilus annulatus</u>
	Egyptian cattle		Egyptian cattle
	Egypt		Egypt
	IV.1906		IV.1906
	Rec'd from Dr. W. Littlewood, Sanitary Dept., Cairo, Egypt		Rec'd from Dr. W. Littlewood, Sanitary Dept., Cairo, Egypt
	♂ & ♀ mounted in balsam on slide. 1 ♂, 1 ♀ <u>Hyalomma aegyptium</u> to Sheffield University 30.VI.1907. 1 ♂, 1 ♀ to Prof. B. Galli-Valerio, Lausanne, Switzerland 14.III.1912. 1 ♂, 1 ♀ to Prof. Dr. M. Miyajima, Tokio, Japan 7.III.1912. 1 ♂, 1 ♀ to Dr. G. L. Tuck, Tientsin, China 17.II.1912. 1 ♂, 1 ♀ to A. H. Cockayne, Wellington, New Zealand.		Slide missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N	47	N	47
		RML	105853
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		1 ♂, 3 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Barbados, West Africa		Barbados Island (13.10 N, 59.32 W)
	V.1901		V.1901
	Dr. G. C. Low		Dr. G. C. Low
			Catalogue incorrectly reads West Africa instead of West Indies.
N	48a, b	N	48a, b
		RML	105854
	(a) <u>Rhipicephalus pulchellus</u> ♀'s		(a) 3 ♀ <u>Rhipicephalus pulchellus</u>
	(b) <u>Haemaphysalis leachi</u>		(b) MISSING
	Dog		Dog
	Makindu, East Africa		Makindu(02.17 S, 37.49 E) Kenya
	10.XI.1904		10.XI.1904
	Dr. P. H. Ross		Dr. P. H. Ross
			Philip Hedgeland Ross (1876-1929) Born Christchurch, New Zealand, he spent his active career in Africa working on trypanosomiasis, relapsing fever, and malaria. For an obituary see Nuttall (1929).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	49	N	49 MISSING
	<u>Rhipicephalus</u> sp.		
	Dog		
	Makindu, East Africa		
	10·XI·1904		
	Dr. P. H. Ross bad condition - thrown away		
N	50	N	50
	<u>Rhipicephalus pulchellus</u>	RML	105855
	Striped hyaena		2 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	Simba, East Africa		<u>Hyaena hyaena</u>
	13·X·1904		Simba (2.10 S, 37.36 E) Kenya
	P. H. Ross		13·X·1904
			P. H. Ross
N	51	N	51
	<u>Rhipicephalus pulchellus</u> ♀	RML	105856
	Off?		1 ♀ <u>Rhipicephalus pulchellus</u>
	Makindu, East Africa		Off?
	10·XI·1904		Makindu (2.17 S, 37.49 E), Kenya
	P. H. Ross		10·XI·1904
			P. H. Ross

ORIGINAL DETERMINATIONCURRENT STATUS

N	52	N	52
		RML	105857
	<u>Margaropus winthemi</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Margaropus winthemi</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	About 1907		About 1907
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
	It was from this lot that Neumann described <u>M. lounsburyi</u> in 1907.		Probable syntypes of <u>M. lounsburyi</u>
N	53	N	53
		RML	105858
	<u>Argas persicus</u> larvae and eggs		100+ larvae <u>Argas persicus</u>
	Raised on fowls		Raised on fowls
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	Probably S. African strain (not noted)		Probably S. African. Raised in Cambridge, England
	1902		1902
N	54	N	54
		RML	105859
	<u>Boophilus australis</u>		5 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Queensland, Australia		Queensland, Australia
	1906		1906
	C. J. Pound		C. J. Pound
	(ex E. G. Wheler coll.)		

ORIGINAL DETERMINATION

N 55

Ixodes sp.
Dog
Bonn, Germany

XI-1903
G. H. F. Nuttall

N 56

Ixodes sp.
Dog
Bonn, Germany

XI-1903
G. H. F. Nuttall

N 57

Ixodes ricinus
Found on Dr. Nuttall, his son and
a relative
Kittendorf, Mecklenburg, Germany
IX-1905
Dr. Nuttall

CURRENT STATUS

N 55

RML 105860
3 ♀ Ixodes hexagonus
Dog
Bonn (50.44 N, 7.05 E)
Federal Republic of Germany

XI-1903
G. H. F. Nuttall

N 56

RML 105861
2 ♀, 2 N Ixodes hexagonus
Dog
Bonn (50.44 N, 7.05E)
Federal Republic of Germany

XI-1903
G. H. F. Nuttall

N 57 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	58	N	58	MISSING
	Roe-deer			
	Kittendorf, Mecklenburg, Germany			
	13.IX.1905			
	Dr. Nuttall			
N	59a, b	N	59a, b	
		RML	105862	
	(a) <u>Hyalomma aegyptium</u>		(a) MISSING	
	(b) <u>Rhipicephalus sanguineus</u>		(b) 1 ♀ <u>Rhipicephalus sanguineus</u>	
			(b) 1 ♀ <u>Rhipicephalus bursa</u>	
	Cattle		Cattle	
	Rome, Italy		Rome (41.54 N, 12.29 E), Italy	
	Rec'd 21.VI.1906		Rec'd 21.VI.1906	
	Rec'd from Dr. Gosio		Rec'd from Dr. Gosio	
	(59b) 1 ♂, 1 ♀ to Sheffield University 3.VI.1907			
N	60	N	60	
		RML	105863	
	<u>Ixodes hexagonus</u> N's		10 N, 1 L <u>Ixodes hexagonus</u>	
	Hedgehog		<u>Erinaceus europaeus</u>	
	Cambridge, England		Cambridge (52.13 N, 0.08 E), England	
	10.VII.1904		10.VII.1904	
			G.H.F. Nuttall	
	Hedgehog kept in the laboratory some days		Cited: Nuttall & Warburton (1911: 182).	
	2 N sent to Prof. Matheson, Cornell, 27.V.1929			

ORIGINAL DETERMINATIONCURRENT STATUS

N	61	N	61	MISSING
	<u>Ixodes</u> sp.			
	No data			
	Rec'd from Mr. E. G. Wheeler			
N	62	N	62	MISSING
	2 ♀ <u>Ixodes canisuga</u>			
	Dog			
	Sligo, Ireland			
	16.IX.1905			
	Rec'd from A.E.F. Nuttall			
	16.IX.1905			
N	63	N	63	MISSING
	<u>Ixodes</u> sp.			
	Young rat			
	Longner Hall, Shrewsbury, England			
	20.IV.1906			
	R.F.L. Burton			

ORIGINAL DETERMINATIONCURRENT STATUS

N	64	N	64 MISSING
	<u>Ixodes hexagonus</u> ♀'s		
	Sheep		
	Lydd, Kent, England		
	1905		
	Thrown away, badly preserved 27.V. 1908		
	G.H. Nuttall		
	Ticks received from Dr. Gosio, Rome, Italy		
	27.VI.1906:		
N	65	N	65, b
		RML	105864
	65 <u>Hyalomma aegyptium</u>		(65) MISSING
			(b) 2 ♀ <u>Rhipicephalus bursa</u>
			(b) 1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Rome, Italy		Rome (41.54 N, 12.29 E), Italy
	VI.1906		VI.1906
	Dr. Gosio		Dr. Gosio
			Nuttall 65b was not entered in the catalogue.

ORIGINAL DETERMINATION

N 66a, b

(a) Hyalomma aegyptium ♂'s, ♀'s
 (b) Rhipicephalus sanguineus

cattle

Rome, Italy

VI-1906

Dr. Gosio

CURRENT STATUS

N 66a, b

RML 105865

(a) 2 ♂, 3 ♀ Hyalomma marginatum
 (b) 2 ♂, 1 ♀ Rhipicephalus sanguineus
 (b) 1 ♂, 4 ♀ Rhipicephalus bursa

Cattle

Rome (41.54 N, 12.29 E), Italy

VI-1906

Dr. Gosio

N 67

Rhipicephalus bursa ♂'s, ♀'s

Cattle

Rome, Italy

VI-1906

Dr. Gosio

N 67

RML 105866

1 ♂, 6 ♀ Rhipicephalus bursa

Cattle

Rome (41.54 N, 12.29 E), Italy

VI-1906

Dr. Gosio

ORIGINAL DETERMINATIONCURRENT STATUS

N	68, a	N	68, a
		RML	105867
	(68) <u>Rhipicephalus bursa</u> ♂'s, ♀'s		(68) 5 ♂, 9 ♀ <u>Rhipicephalus bursa</u>
	(a) <u>Rhipicephalus sanguineus</u> ♀'s		(68) 17 ♂, 5 ♀ <u>Hyalomma marginatum</u>
	Cattle		(a) 6 ♀ <u>Rhipicephalus sanguineus</u>
	Rome, Italy		Cattle
	VI.1906		Rome (41.54 N, 12.29 E), Italy
	Dr. Gosio		VI.1906
	1 ♂, 1 ♀ on slide in balsam		Dr. Gosio
			Slide missing.
			The <u>Hyalomma</u> collection was not entered into the catalogue by Nuttall.
N	69	N	69
		RML	105868
	<u>Hyalomma syriacum</u> ♂, ♀		3 ♂ <u>Hyalomma aegyptium</u>
	Tortoise		Tortoise
	Cambridge, England		Cambridge (52.13 N, 0.08 E), England
	IX.1902		V.1904
	Mr. Child, presented to G.H.F. Nuttall by Dr. Graham-Smith		Mr. Child, presented to G.H.F. Nuttall by Dr. Graham-Smith
	See 2 slides		Slides missing.
			Vial label date is V.1904.
			Catalogue date was V.1904 but crossed out and IX.1902 inserted.

ORIGINAL DETERMINATIONCURRENT STATUS

N 70

N 70

RML 105869

Amblyomma cooperi 1 ♂, ♀
TYPES2 ♂, 6 ♀ Amblyomma cooperi
Lectotype and Paralectotypes(Hydrochoerus capybara)
"Carpinchio"Hydrochoerus hydrochaerisPuerto Cooper, Alto
Paraguay, S. AmericaPuerto Cooper (23.03 S, 57.43 W),
Alto, Paraguay, S. America

1904

1904

W. F. Cooper

W. F. Cooper

♀ mounted in balsam on 2 slides
Pinned specimensSlides present.
Nuttall & Warburton (1908: 410)
original description. On p. 412
they indicated 1 ♂, 5 ♀ in collection.
Robinson (1926: 75) indicated more
than 1 ♂ but did not give total.Lectotype designated: Keirans &
Brewster (1981: 155).

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	71	N	71
		RML	105870
	<u>Ornithodoros moubata</u> unfed 1st stage N's (No data noted)		20 N <u>Ornithodoros moubata</u> (No data noted)
	Raised from lot received probably from British East Africa.		Raised from lot received probably from Kenya.
	Raised 1912		Raised 1912
N	72	N	72
		RML	105871
	<u>Haemaphysalis hystricis</u> 1 ♀		1 ♀ <u>Haemaphysalis celebensis</u> Holotype
	<u>Sus celebensis</u>		<u>Sus verrucosus celebensis</u>
	Celebes		Sulawesi (2.00 S. 121.00 E), Indonesia
	Presented by Hon. N. C. Rothschild as a mounted specimen (No. 916) which we unmounted 4.I.1915 C.W. det.		Presented by Hon. N. C. Rothschild as a mounted specimen (No. 916) which we unmounted 4.I.1915. C.W. det.
			Cited: Nuttall & Warburton (1915: 425, 426); Hoogstraal et al. (1965d; 1001; 1973a: 556). Nathaniel Charles Rothschild (1877- 1923) wealthy banker who also had a keen love of nature especially the Lepidoptera and the ectoparasitic insects.
			All collections presented by Rothschild to Nuttall and to the BM(NH) are discussed by Keirans (1982).

ORIGINAL DETERMINATIONCURRENT STATUS

N 73

N 73

Amblyomma cyprium 1 ♂

RML 105872

1 ♂ Amblyomma cypriumSus celebensisSus verrucosus subsp.

Celebes

Sulawesi (2.00 S, 121.00 E),
Indonesia

Presented by Hon. N. F. Rothschild
as a slide "No. 915" which is
unmounted, being defraction
5.I.1915.

Presented by Hon. N. C. Rothschild
as a slide "No. 915" which is
unmounted, being defraction
5.I.1915.

3 ♂ Amblyomma cyprium mounted as
slides, 2 transparent, 1 opaque -
see slides No. 73 (i) (ii) (iii)
(Rothschild No's. 917, 919, 920,
(3 slides)
(L. E. Robinson det. 26.I.1915)
Redet. 26.II.1919.

3 slide-mounted males missing.

Cited: Robinson (1926: 236).

ORIGINAL DETERMINATIONCURRENT STATUS

N 74

N 74

RML 105873

Amblyomma? caelaturum 1 N1 N Amblyomma sp.Sus celebensisSus verrucosus subsp.

Celebes

Sulawesi (2.00 S, 121.00 E),
IndonesiaPresented by Hon. N. C. Rothschild
No. 918Presented by Hon. N. C. Rothschild
No. 918

L.E.R. det. 26.I.1915

N 75

N 75 MISSING

Amblyomma clypeolatum 3 ♂ slides

Tortoise

Zoological Society's Gardens, London

11.X.1895

Presented by Hon. N. C. Rothschild

Mounted (i) opaque & (ii) (iii)
transparent on 3 slides No's. 1015,
1017, 1019.

L.E.R. det. 26.III.1919.

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	76 <u>Amblyomma</u> sp. 1 ♀ slide Monitor Kalao Island From Hon. N. C. Rothschild No. 964 Mounted opaque on slide.	N	76 MISSING [See also N 93]
N	77 <u>Amblyomma marmoreum</u> 3 ♂ slides <u>Testudo pardalis</u> (Leopard tortoise) No further data, mounted as transparent specimens on slides No's. 1033, 1034, 1035. Presented by Hon. N. C. Rothschild L.E.R. det. 26.III.1919.	N	77 MISSING
N	78 <u>Amblyomma albolimbatum</u> 1 ♂, 2 ♀ slides Black and white snake No further data 30.I.1896 Presented by Hon. N. C. Rothschild Specimens No's. 997, 996, 999. L.E.R. det. 26.III.1919.	N	78 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	79a, b	N	79a, b
		RML	105778
	(a) <u>Boophilus decoloratus</u> ♀'s		(a) 1 ♂, 56 ♀ <u>Boophilus decoloratus</u>
	(b) <u>Amblyomma hebraeum</u> ♂'s		(a) 1 ♂ <u>Hyalomma marginatum</u> <u>turanicum</u>
	Cattle		(b) <u>MISSING</u>
	Rustenburg, Transvaal, South Africa		Cattle
	V.1905		Rustenburg (25.40 S, 27.15 E), Transvaal, Republic of South Africa
	Dr. B. Brock		V.1905
			Dr. B. Brock
N	80	N	80
		RML	105874
	<u>Ixodes hexagonus</u> ♀		1 ♀, many eggs <u>Ixodes hexagonus</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	In laboratory Cambridge, England		In laboratory, Cambridge (52.13 N, 00.08 E), England
	26.VII.1904		26.VII.1904
	G.H.F. Nuttall		G.H.F. Nuttall
N	81	N	81 MISSING
	<u>Ixodes hexagonus</u> ♀'s		
	Dog		
	Northumberland, England		
	1904		
	Thrown away, bad condition.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	82	N	82
		RML	105875
	<u>Ixodes hexagonus</u> larvae		41 L <u>Ixodes hexagonus</u>
	Raised in laboratory Cambridge Progeny of ♀ No. 81		Raised in laboratory, Cambridge (52.13 N, 0.08 E), England
	[2 larvae mounted in balsam on a slide]		Slide missing.
N	83	N	83 MISSING
	<u>Ixodes ricinus</u>		
	Sheep		
	Scotland		
	1904		
	Rec'd from Mr. W. F. Cooper (Watford)		
N	84	N	84
		RML	105876
	<u>Hyalomma aegyptium</u> ♂, ♀		10 ♂, 5 ♀ <u>Hyalomma anatolicum</u> <u>excavatum</u>
	Horse		Horse
	Cairo abattoir, Egypt		Abattoir, Cairo (30.30 N, 31.15 E), Egypt
	13.IV.1906		13.IV.1906
	Rec'd from Dr. Little		Rec'd from Dr. Little
	1 ♂, 1 ♀ to W. S. Patton 14.I.1910		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	85	N	85
		RML	105877
	<u>Hyalomma aegyptium</u>		5 ♀ <u>Hyalomma anatolicum excavatum</u>
	Cattle		Cattle
	Cairo abattoir, Egypt		Abattoir, Cairo (30.30 N, 31.15E), Egypt
	29.III.1906		29.III.1906
	Dr. Little		Dr. Little
N	86	N	86
		RML	105878
	<u>Amblyomma lepidum</u> ♂'s, ♀'s		5 ♂, 7 ♀ <u>Amblyomma lepidum</u>
	Cattle		Cattle
	East London, Cape Colony, S. Africa		East London (33.02 S, 27.55 E), Cape Colony, South Africa
	1.V.1905		1.V.1905
	Dr. Williamson		Dr. Williamson
	1 ♂, 1 ♀ mounted in cells on slide II.1915. 1 ♂, 1 ♀ to Prof. R. Matheson, Cornell University 27.V.1929		Slide missing.
N	87	N	87
		RML	105879
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		3 ♂, 10 ♀, 4 N <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Dominica, West Indies		Dominica (15.30 N. 61.20 W), West Indies
	ex E. G. Wheler collection		ex E. G. Wheler collection

ORIGINAL DETERMINATIONCURRENT STATUS

N	88	N	88 MISSING
	<u>Ixodes tenuirostris</u> 1 ♂		
	Toft, near Grantchester Cambs., England		
	III.1904		
	Presented by N.D.F. Pearce, M.A.		
	[mounted on cell in balsam on a slide]		
N	89	N	89
	<u>Amblyomma marmoreum</u> 2 ♂	RML	105880
	Southern Soudan		2 ♂ <u>Amblyomma sparsum</u>
	No further data		Southern Sudan
	Probably in 1909		Probably in 1909
	Probably sent by Mr. H. H. King		Probably sent by Mr. H. H. King
	L.E.R. det. 9.XII.1914		Cited: Theiler & Salisbury (1959: 111).

ORIGINAL DETERMINATIONCURRENT STATUS

N 90

N 90 MISSING

Aponomma gervaisi var. lucasi 4 ♂Ophiophagus bungarus
(Hamadryad)

Presented by Hon. N. C. Rothschild

No particulars [4 slides]

(Mounted as slides 738-941
2 in glycerine, 2 in balsam
C. Warburton det. I.1915).

N 91

N 91 MISSING

Aponomma gervaisi var. lucasi 1 ♂Varanus civitatus
(Monitor)

Presented by Hon. N. C. Rothschild

No particulars [1 slide]

(Mounted as slide 900 in dil. glycerine.
C. Warburton det. I.1915).

ORIGINAL DETERMINATIONCURRENT STATUS

N	92	N	92 MISSING
	<u>Aponomma gervaisi</u> 2 ♂		
	<u>Varanus civitatus</u> (Monitor)		
	Presented by Hon. N. C. Rothschild		
	No particulars [2 slides]		
	(Mounted as slides 962-965 in glycerine. C. Warburton det. I. 1915).		
N	93	N	93 MISSING
	<u>Amblyomma decoratum</u> 4 ♂, 1 ♀		
	Monitor		
	Kalas Island		[Kalao Island misspelled]
	Presented by Hon. N. C. Rothschild		
	[5 slides] (3 in glycerine, 2 ♂ in balsam R. 959, 961, 963, 964, 966) C.W. det. I.1915		
			[R 964 is entered under N 76]
N	94	N	94 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Horse		
	Macloutsie, Bechuanaland		
	I.1906		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	95	N	95
		RML	105881
	<u>Amblyomma marmoreum</u>		1 ♂ <u>Amblyomma marmoreum</u>
	Tortoise		Tortoise
	Macloutsi, Bechuanaland		Macloutsi (21.35 S, 27.21 E), Botswana
	Dr. B. G. Brock		Dr. B. G. Brock
			Robinson (1926: 89) indicated ♂'s present and Theiler & Salisbury (1959: 110) indicated 2 ♂ in this collection.
N	96	N	96 MISSING
	<u>Rhipicephalus</u> sp.		
	Mule		
	Macloutsie, Bechuanaland		
	I.1906		
	Dr. B. G. Brock		
N	97	N	97
		RML	105635
	<u>Rhipicephalus</u> sp.		2 ♂, 3 ♀ <u>Rhipicephalus simus</u>
	Dog		Dog
	Macloutsie, Bechuanaland		Macloutsi (21.35 S, 27.21 E), Botswana
	I.1906		I.1906
	Dr. B. G. Brock		Dr. B. G. Brock

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	98	N	98
	Undetermined	RML	105882
	hare		1 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	Maclountsie, Bechuanaland		hare
	I.1906		Macloutsi (21.35 S, 27.21 E), Botswana
	Dr. B. G. Brock		I.1906
			Dr. B. G. Brock
N	99a, b	N	99a, b
		RML	105883
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) 10 ♂, 1 ♀ <u>Hyalomma rufipes</u>
	(b) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(a) 4 ♂, 1 ♀ <u>Hyalomma truncatum</u>
			(b) MISSING
	Ox		Ox
	Macloutsie, Bechuanaland		Macloutsi (21.35 S, 29.21 E), Botswana
	I.1906		I.1906
	Dr. B. G. Brock		Dr. B. G. Brock
N	100 a, b, c	N	100 a, b, c
		RML	105884
	(a) <u>Hyalomma aegyptium</u>		(a) 4 ♂, 2 ♀ <u>Hyalomma truncatum</u>
	(b) <u>Rhipicephalus</u> sp.		(b) MISSING
	(c) <u>Amblyomma</u> sp.		(c) MISSING
	Sheep		Sheep
	Macloutsie, Bechuanaland		Macloutsi (21.35 S, 27.21 E), Botswana
	I.1906		I.1906
	Dr. B. G. Brock		Dr. B. G. Brock

ORIGINAL DETERMINATIONCURRENT STATUS

N	101a, b	N	101a, b
		RML	105885
	(a) <u>Hyalomma aegyptium</u> (b) <u>Rhipicephalus</u> sp.		(a) 3 ♂, 5 ♀ <u>Hyalomma truncatum</u> (b) 1 ♂ <u>Rhipicephalus simus</u>
	Goat		Goat
	Macloutsie, Bechuanaland		Macloutsi (21.35 S, 27.21 E), Botswana
	I.1906		I.1906
	Dr. B. G. Brock		Dr. B. G. Brock
	Mixed lot of ticks received from Dr. P. H. Ross, from Nairobi, E. Africa, VII.1906. [All in a pill-box (dry) marked "Njiro, Dog"]		
N	102a-d	N	102a
		RML	105886
	(a) <u>Rhipicephalus pulchellus</u> ♂, ♀ (b) <u>Amblyomma variegatum</u> ♂, ♀ (c) <u>Haemaphysalis leachi</u> ♂ (d) <u>Rhipicephalus</u> sp. ♂, ♀		(a) 2 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u> plus an additional 2 ♂, 2 ♀ pinned specimens. There is also 1 ♂ a <u>teneral</u> runt that is tentatively considered this species. (b-d) MISSING
	Pill box containing ticks marked "Njiro dog"		Pill box containing ticks marked "Njiro dog"
	Nairobi, E. Africa		Nairobi (1.17 S, 36.49 E), Kenya
	Received VII.1906		Received VII.1906
	Received from Dr. P. H. Ross		Received from Dr. P. H. Ross
	All ticks dry in pill box. One slide of (b) ♀ in balsam.		Slide missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N	103	N	103	MISSING
	<u>Rhipicephalus appendiculatus</u>			
	Nairobi, E. Africa			
	Received VII.1906			
	Received from Dr. P. H. Ross			
	All dry in pill box marked "No. 10 gland by Dr. Milen"			
N	104	N	104	
		RML	105887	
	<u>Amblyomma lepidum</u>		3 ♂ <u>Amblyomma lepidum</u>	
	Cattle		Cattle	
	East Coast of Africa		East coast of Africa	
	Received VII.1906		Received VII.1906	
	Received from Dr. P. H. Ross		Received from Dr. P. H. Ross	
N	105	N	105	
		RML	105888	
	<u>Amblyomma variegatum</u>		8 ♂, 3 ♀, 2 N, <u>Amblyomma variegatum</u>	
	Nairobi, E. Africa		Nairobi, (01.17 S, 36.49 E), Kenya	
	Received VII.1906		Received VII.1906	
	Received from Dr. P. H. Ross		Received from Dr. P. H. Ross	
	Pinned in a pill box with a label as follows: "Dr. Hodges, Tumor No. 9"		Pinned specimens	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	106a, b, c	N	106c
		RML	105889
	(a) <u>Amblyomma variegatum</u> ♂, ♀		(a) MISSING
	(b) <u>Rhipicephalus evertsi</u> ♂, ♀		(b) MISSING
	(c) <u>Rhipicephalus pulchellus</u> ♀		(c) 1 ♀ <u>Rhipicephalus pulchellus</u>
	Nairobi		Nairobi (01.17 S, 36.49 E), Kenya
	Received VII.1906		Received VII.1906
	Received from Dr. P. H. Ross, Nairobi		Received from Dr. P. H. Ross, Nairobi
	No data label		Slides missing.
	(4 slides of ♂'s dissected)		
N	107	N	107
		RML	105890
	<u>Rhipicephalus capensis</u>		7 ♂, 4 ♀ <u>Rhipicephalus capensis</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	1906		1906
	Received from Mr. C. P. Lounsbury		Received from Mr. C. P. Lounsbury
	[1 slide of 2 ♂, 2 ♀ in balsam prep.]		Slide missing. Charles Pugsley Lounsbury (1872-1955) born in Brooklyn, N.Y., B.Sc., Mass. Agric. College. Appointed Government Entomologist Union of South Africa in August 1895

108-118. Ticks received from Colonel B. Skinner, R.A.M.C., to whom they had been sent by Lt.-Col. C. E. Nuthall of the Army Veterinary Corps. They were all collected in Secunderabad, India, on the dates and hosts indicated below:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	108a, b	N	108a, b
		RML	105891
	(a) <u>Hyalomma aegyptium</u>		(a) 193 ♂, 5 ♀, 1 N <u>Hyalomma anatolicum anatolicum</u>
	(b) <u>Rhipicephalus haemaphysaloides</u>		(b) 2 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Cattle at slaughter house Secunderabad, India		Cattle at slaughter house Secunderabad (17.27 N, 78.30 E) India
	23·VI·1906		23·VI·1906
N	109	N	109
		RML	105892
	<u>Rhipicephalus sanguineus</u>		20 ♂, 23 ♀ <u>Rhipicephalus sanguineus</u>
	Dog, ears		Dog, ears
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E) India
	25·V·1906		25·V·1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner
			Date on vial label is 8·VIII·1906
N	110	N	110
		RML	105893
	<u>Rhipicephalus sanguineus</u>		1 ♂, 12 ♀, 17 N <u>Rhipicephalus sanguineus</u>
	Dog, face, back & thighs		Dog, face, back & thighs
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E), India
	25·V·1906		25·V·1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner

ORIGINAL DETERMINATIONCURRENT STATUS

N	111	N	111
		RML	105894
	♂ <u>Hyalomma aegyptium</u>		1 ♂ <u>Hyalomma anatolicum anatolicum</u>
	Horse, ear		Horse, ear
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E) India
	24.VI.1906		24.VI.1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner
N	112	N	112
		RML	105895
	<u>Hyalomma aegyptium</u>		13 N (engorged), 27 N (unengorged) <u>Hyalomma</u> sp.
	Donga ponies, ears		Donga ponies, ears
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E), India
	22.VI.1906		22.VI.1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner
	Nymphs and larvae mounted on slides I, II		Slides missing. The 13 engorged specimens are in a separate vial from the 27 unengorged nymphs. These are most likely <u>Hyalomma anatolicum</u> <u>anatolicum</u> . See Kaiser & Hoogstraal (1964: 272).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	113	N	113
	<u>Rhipicephalus sanguineus</u>	RML	60033
	Dog (dachshund)		15 ♂, 18 ♀ <u>Rhipicephalus sanguineus</u>
	Secunderabad, India		Dog (dachshund)
	26·V·1906		Secunderabad (17.27 N, 78.30 E), India
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		26·V·1960
	1 ♂, 1 ♀ sent to Prof. Dryer, Parasitology Dept. Oxford. 1 ♂, 1 ♀ sent to W. D. Hunter, USDA, Washington. 1 ♂, 1 ♀ sent to A. D. Imms Allahabad Univ., India		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner
			An additional 1 ♂, 1 ♀ of this collection was sent to F. C. Bishopp. (Bishopp 433). These ticks are deposited in the Rocky Mountain Laboratory.
N	114	N	114 MISSING
	N's <u>Hyalomma aegyptium</u>		
	Pony, ear		
	Secunderabad, India		
	30·VI·1906		
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		

ORIGINAL DETERMINATIONCURRENT STATUS

N	115	N	115
		RML	105896
	<u>Rhipicephalus sanguineus</u>		2 ♂, 8 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E), India
	26·VI·1906		26·VI·1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner
N	116	N	116
		RML	105897
	<u>Rhipicephalus sanguineus</u>		37 ♂, 6 ♀, 4 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E), India
	26·VI·1906		26·VI·1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner

ORIGINAL DETERMINATIONCURRENT STATUS

N	117	N	117
		RML	105898
	<u>Hyalomma aegyptium</u>		2 ♂, 7 ♀ <u>Hyalomma dromedarii</u>
	Water-cart bullock		Water-cart bullock
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E), India
	26·V·1906		26·V·1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner
	1 ♂, 1 ♀ sent to Dr. K. F. Meyer, Univ. California, Berkeley 15·XI·1913. 1 ♂, 1 ♀ sent to A. D. Imms, Allahabad Univ., India.		Determined by Kaiser & Hoogstraal as <u>H. dromedarii</u> in 1961 but cited (1964: 272) as <u>Hyalomma</u> <u>a. anatolicum</u> .
N	118	N	118
		RML	105899
	<u>Hyalomma aegyptium</u>		23 ♂, 2 ♀ <u>Hyalomma anatolicum</u> <u>anatolicum</u>
	Goat		Goat
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E), India
	28·V·1906		28·V·1906
	Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner		Lt. Col. C. E. Nuthall, A.V.C. Received from Col. B. Skinner

ORIGINAL DETERMINATIONCURRENT STATUS

N	119	N	119
		RML	105900
	<u>Hyalomma syriacum</u>		5 ♂ <u>Hyalomma aegyptium</u>
	Land tortoise		Land tortoise
	Chepstow, Monmouthshire, Wales		Chepstow (51.38 N, 2.40 W), Gwent, Wales
	Received 15.VIII.1906		Received 15.VIII.1906
	Received from Dr. J. Cropper, Chepstow, Monmouthshire, Wales		Received from Dr. J. Cropper
			All pinned specimens
N	120	N	120
		RML	105901
	<u>Aponomma gervaisi</u>		1 ♀ <u>Aponomma hydrosauri</u>
	<u>Varanus gouldi</u>		<u>Varanus gouldi</u>
	Australia, received at the Zoo, London		Australia, received at the Zoo, London
	Received 6.V.1905		Received 6.V.1905
N	121	N	121
		RML	105902
	<u>Haemaphysalis leachi</u> ♂		1 ♂ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Grahamstown, S. Africa		Grahamstown (33.18 S, 26.32 E), Republic of South Africa
	Received VI.1906		Received VI.1906
	Received from T. Bowhill, F.R.C.V.S.		Received from T. Bowhill, F.R.C.V.S.
			A pinned specimen

ORIGINAL DETERMINATIONCURRENT STATUS

N	122	N	122 MISSING
	<u>Ornithodoros moubata</u>		
	Received 23.VII.1906		
	Received from Mr. Robert Newstead, School of Tropical Medicine, Liverpool.		Robert Newstead (1859-1947) M.S.C., F.R.S. Lecturer in Economic Entomology and Parasitology, Liverpool School of Tropical Medicine. Retired from Chair of Entomology, 1924.
N	123	N	123 MISSING
	<u>Ixodes ricinus</u> N		
	Grantchester, Cambs., England		
	Summer 1906		
	N.D.F. Pearce, Esq., M.A.		
N	124	N	124
		RML	105903
	<u>Rhipicephalus sanguineus</u>		13 ♂, 7 ♀ <u>Rhipicephalus sanguineus</u>
	South Africa		Republic of South Africa
	No particulars		

ORIGINAL DETERMINATIONCURRENT STATUS

N	125a, b	N	125
		RML	105904
	(a) <u>Ixodes hexagonus</u> ♀ (b) <u>Ixodes hexagonus</u> N's		2 ♀, 9 N <u>Ixodes hexagonus</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Grantchester, Cambs., England		Grantchester (52.10 N, 00.06 E), Cambs., England
	15.VIII.1906		15.VIII.1906
	Mr. Pearce		Mr. Pearce
	♀♀ (number not stated) sent to Dr. H. deB. Aragão, Brazil 23.I.1910 1 ♀, 1 N sent to Dr. J. H. Ashworth 22.VI.1910 1 ♀ sent to Richard Hancock, England, 16.VI.1918		See also Nuttall 918
N	126	N	126
		RML	105905
	<u>Amblyomma dissimile</u>		4 ♂, 3 ♀, 1 N <u>Amblyomma dissimile</u>
	British Guiana		Guyana
	Sent 18.VIII.1906		Sent 18.VIII.1906
	Sent by Dr. C. W. Daniels		Sent by Dr. C. W. Daniels
			Cited in Robinson (1926: 167). An additional 1 ♂, 1 ♀ are pinned.
			Dr. Daniels taught at the London School of Hygiene and Tropical Medicine. A group photo in 1901 including Dr. Daniels was pub- lished by Mattingly (1976).

ORIGINAL DETERMINATIONCURRENT STATUS

N	127	N	127
		RML	105906
	<u>Rhipicephalus sanguineus</u>		3 ♂, 14 ♀ <u>Rhipicephalus turanicus</u>
	Jerusalem, Palestine		Jerusalem (31.46 N, 35.14 E), Israel
	Received 4·IX·1906		Received 4·IX·1906
	Received from "Cropper's friend"		Received from "Cropper's friend"
			Vial label reads "Dr. Cropper's friend"
N	128	N	128
		RML	105907
	<u>Ixodes hexagonus</u>		2 ♀ <u>Ixodes hexagonus</u>
	Longner Hall, Shrewsbury		Longner Hall, Shrewsbury (52.43 N, 02.45 W), England
	Received IX·1906		Received IX·1906
	Received from Mr. R.F.L. Burton		Received from Mr. R.F.L. Burton
	1 ♀ sent to Sheffield University 3·VI·1907		

ORIGINAL DETERMINATIONCURRENT STATUS

N 129

Haemaphysalis neumanni 2 ♂, 4 ♀
(TYPES)

Horse

Japan

Sent 1906

Sent by Prof. Dr. W. Dönitz
from Berlin

N 129

RML 105908

2 ♂, 2 ♀ Haemaphysalis longicornis

Horse

Japan

Sent 1906

Sent by Prof. Dr. W. Dönitz from
Berlin

Syntypes of H. neumanni

Dönitz (1905: 127) original descrip-
tion.

F.K.W. Dönitz (1838-1912). Nuttall
(1913a) wrote a memorial tribute
and list of Dönitz's publications.

N 130

Rhipicephalus sanguineus 1 ♀

No particulars

Cairo, Egypt

Sent IX.1906

Sent by Dr. Bitter

N 130

RML 105909

1 ♀ Rhipicephalus sanguineus

No particulars

Cairo (30.03 N, 31.15 E), Egypt

Sent IX.1906

Sent by Dr. Bitter

ORIGINAL DETERMINATIONCURRENT STATUS

N 131

N 131

RML 105910

Amblyomma hebraeum? larvae1 L Amblyomma sp.

Human ♀

♀ Homo sapiens

Bihe District Angola

Distrito do Bié-Cuando Cubango
(16.00 S, 19.30 E), Angola

Probably V-1905

Probably V-1905

Sent by Dr. F. C. Wellman

Sent by Dr. F. Creighton Wellman

Dr. Wellman writes 28-VII-1906
 "Several years ago an English lady
 told me of a small white tick with
 a red head which appears in the
 middle of the wet season (Dec.-
 March) in numbers, and the bite of
 which is very painful, causing
 swellings and constitutional
 symptoms, faintness, nausea, etc."
 She sent this in consequence to
 Wellman (VII-1905) in "eau de
 Cologne" which she said she
 removed from her skin, its bite
 resulting in the symptoms she
 originally detailed to me. The
 specimen is from Bihe District
 of Angola, and probably dates from
 May 1905."

ORIGINAL DETERMINATIONCURRENT STATUS

N	132	N	132
		RML	105911
	<u>Ornithodoros moubata</u> (4)		2 ♀ <u>Ornithodoros moubata</u>
	Collected in native kraals		Collected in native kraals
	Benguela District W. Africa		Distrito de Benguela (12.00 S, 15.00 E), Angola
	18.V.1906		18.V.1906
	Received from Dr. F. C. Wellman		Received from Dr. F. Creighton Wellman
N	133	N	133
		RML	105986
	<u>Boophilus spec. incert.</u> ♀'s		4 ♀ <u>Boophilus decoloratus</u>
	Ox		Ox
	Bailundo District of Benguela W. Africa		Concelho do Bailundo (12.00 S, 16.00 E) Benguela, Angola
	15.VI.1905		15.VI.1905
	Dr. Wellman		Dr. F. Creighton Wellman
	♀ Hypostome mounted on a slide		Slide missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N	134	N	See Nuttall 897
	<u>Haemaphysalis campanulata</u> n. sp. ♂, ♀ eggs [Specimens renumbered No. 897.]		
N	135	N	135 MISSING
	<u>Argas persicus</u> Fowls Central Research Institute Kasuli, Punjab, India IX.1906 Received from Capt. E.D.W. Greig I.M.S. 4 slides ♂, N skins and spiracle (Fig. 10 Ticks Part I) mounted in balsam and glycerin		
N	136	N	136
		RML	105987
	<u>Argas persicus</u> Fowls Central Research Institute Kasauli, Punjab, India IX.1906 Received from Capt. E.D.W. Greig, I.M.S. Has been using them for experiments on Spirochaetoses. Found disease in fowls and has communicated it to a variety of birds (mammalia refractory). The larvae (not adult ticks) appear to infect.		1 ♂, 2 ♀, 1 N <u>Argas persicus</u> Fowls Central Research Institute, Kasauli (30.55 N, 76.57 E), Punjab, India IX.1906 Received from Capt. E.D.W. Greig, I.M.S.

ORIGINAL DETERMINATIONCURRENT STATUS

N	137	N	137 MISSING
	<u>Boophilus</u> sp. eggs		
	Sent by Dr. A. Lutz, Sao Paulo, Brazil X.1906		
	No data		Dr. Adolfo Lutz (1855-1940), Medical degree Berne University 1878. Chief Medical Dept., Institute Oswaldo Cruz. Retired 1938. Died Rio de Janeiro 6.X.1940.
N	138	N	138 MISSING
	<u>Argas miniatus</u>		
	Sent by Dr. A. Lutz, Sao Paulo, Brazil, X.1906		
	No data		
N	139	N	139
		RML	105988
	<u>Amblyomma americanum</u> ♂'s, ♀'s		8 ♂, 5 ♀ <u>Amblyomma americanum</u>
	Hogs		Hogs
	Mountain House Farm		Mountain House Farm, Dallas (32.47 N, 96.48 W), Texas, USA
	24.III.1906		24.III.1906
	F. C. Pratt		F. C. Pratt
	Received from W. H. Dalrymple, M.R.C.V.S. Baton Rouge, Louisiana, USA [2 ♂, 2 ♀ mounted in cells with other <u>Amblyomma</u> spp.] Received 17.XII.1906		An additional 1 ♂, 1 ♀ are pinned specimens. Slides of 2 ♂, 2 ♀ missing. Additional locality information taken from vial label. Cited and 1 ♂, 1 ♀ figured in Robinson (1926: 46, 47).

ORIGINAL DETERMINATIONCURRENT STATUS

N	140	N	140
		RML	105989
	<u>Argas persicus</u>		6 ♂, 2 ♀, 2 N, plus 2 specimens too damaged to sex <u>Argas persicus</u>
	Kasauli, Punjab, India		Kasauli (30.55 N, 76.57 E), Punjab, India
	Received 20·XII·1906		Received 20·XII·1906
	Received from Capt. Greig, I.M.S.		Received from Capt. Greig, I.M.S.
	He writes, 21·XI·1906 - "I have had 3 successful infection experiments, 2 with larvae and 1 with adult ticks." [2 larvae in balsam on slide] 2 (sex not given) sent to Col. Leishman 7·VIII·1907		Slide missing.
N	141	N	141 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s, N's		
	<u>Bos taurus</u>		
	Determined by Dr. C. W. Stiles, 1901, received from Bur. Anim. Industry ("No. 4631"), U.S. Dept. Agriculture 20·XII·1906 (parasite coll) [2 ♂ mounted in balsam on 2 slides] Det. as <u>annulatus</u> in Washington! by Stiles [1901]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	142	N	142
		RML	105990
	<u>Amblyomma pomposum</u> 1 ♂		3 ♂ <u>Amblyomma pomposum</u>
	Sheath of a mule		Sheath of a mule
	130 miles due E. of Benguella W. Africa at an altitude of 4,200 ft.		130 miles (208 km) E. of Benguela (12.35 S, 13.25 E), Angola at an altitude of 4,200 ft. (1280 m).
	20.X.1906		20.X.1906
	Received from Dr. F. C. Wellman		Received from Dr. F. Creighton Wellman
	A common species thereabouts Received 17.XII.1906		Cited in Robinson (1926: 100).
N	143	N	143 MISSING
	<u>Phonergates bicoloripes</u> (not a species of Ixodoidea)		
	Found in a pig-stye, Benguella, Angola, West Africa; rec'd from Dr. F. C. Wellman, 17.XII.1906. [Dr. Wellman writes: "I have taken two other individuals both feeding on ticks (<u>Orn. moubata</u>) in pig-styes, 2.X.1906, 130 miles due East of Benguella, altitude 4200 ft.-Rainy season"]. See his letter of 23.X.1906.		

144-154. Ticks received from Dr. Aldo Castellani, Clinic for Tropical Diseases Colombo, Ceylon, 22.XI.1906. Determined by C. Warburton, XII.1906. (All places in Colombo or its suburbs):

ORIGINAL DETERMINATION

CURRENT STATUS

N	144	N	144
		RML	105991
	<u>Rhipicephalus sanguineus</u>		8 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>
	Civet cat		Civet cat
	Kollupitiya, Ceylon		Kollupitiya (06.53 N, 79.51 E), Sri Lanka
	20.XI.1906		20.XI.1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Det. C. Warburton XII.1906		Prof. Marchese Sir Aldo Castellani (1877-1971). He proved (12.VI.1902) that <u>Trypanosoma gambiense</u> was the cause of sleeping sickness and that it occurred in the blood, the brain and in cerebrospinal fluid. He was Bacteriologist to the Ceylon Government (1903-1915).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	145	N	145
		RML	105992
	<u>Rhipicephalus sanguineus</u>		26 ♂, 8 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Kollupitiya, Ceylon		Kollupitiya (06.53 N, 79.51 E), Sri Lanka
	20·XI·1906		20·XI·1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Determined C. Warburton XII·1906		
N	146	N	146
		RML	105993
	<u>Rhipicephalus sanguineus</u>		8 ♀ <u>Rhipicephalus sanguineus</u>
	Cow		Cow
	Gangodawoila, Ceylon		Gangodawila (06.52 N, 79.53 E), Sri Lanka
	17·XI·1906		17·XI·1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Determined C. Warburton XII·1906		
N	147	N	147
		RML	105994
	<u>Rhipicephalus sanguineus</u>		12 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	Mongoose		Mongoose
	Koolupitiya, Ceylon		Kollupitiya (06.53 N, 79.51 E), Sri Lanka
	20·XI·1906		20·XI·1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Determined C. Warburton XII·1906		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	148	N	148
		RML	76099
	<u>Haemaphysalis bispinosa</u>	2 ♂	<u>Haemaphysalis bispinosa</u>
		1 ♂	<u>Haemaphysalis intermedia</u>
	Polecat		Polecat
	Kollupitiya, Ceylon		Kollupitiya (06.53 N, 79.51 E), Sri Lanka
	20·XI·1906		20·XI·1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Determined C. Warburton XII·1906		Cited in Nuttall & Warburton (1915: 432).
N	149	N	149
		RML	105995
	<u>Rhipicephalus sanguineus</u>	5 ♂, 1 ♀	<u>Rhipicephalus sanguineus</u>
	Hare		Hare
	Cotte, Ceylon		Kotte (06.43 N, 79.54 E), Sri Lanka
	18·XI·1906		18·XI·1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Determined C. Warburton XII·1906		

ORIGINAL DETERMINATIONCURRENT STATUS

N	150	N	150
		RML	105996
	<u>Haemaphysalis bispinosa</u>		3 ♂, 3 ♀ <u>Haemaphysalis bispinosa</u>
	Dogs		Dogs
	Nugegoda, Ceylon		Nugegoda (06.52 N, 79.53 E), Sri Lanka
	19.XI.1906		19.XI.1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Determined C. Warburton XII.1906		Cited in Nuttall & Warburton (1915: 432).
N	151	N	151
		RML	105997
	<u>Haemaphysalis bispinosa</u>		3 ♂, 9 ♀ <u>Haemaphysalis bispinosa</u>
	Mouse deer		Mouse deer
	Cinnamon Gardens, Ceylon		Cinnamon Gardens (06.55 N, 79.52 E), Sri Lanka
	19.XI.1906		19.XI.1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Determined C. Warburton XII.1906		Cited in Nuttall & Warburton (1915: 432).

ORIGINAL DETERMINATIONCURRENT STATUS

N	152	N	152
		RML	105998
	<u>Haemaphysalis bispinosa</u>		2 ♂, 7 ♀ <u>Haemaphysalis bispinosa</u>
	Pig		Pig
	Government Model Farm, near Colombo, Ceylon		Government Model Farm, near Colombo (06.56 N, 79.51 E), Sri Lanka
	17·XI·1906		17·XI·1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Determined C. Warburton XII·1906 1 ♂, 1 ♀ sent to Dr. J. H. Ashworth, Edinburgh 22·VI·1910		Cited in Nuttall & Warburton (1915: 432).
N	153	N	153
		RML	105999
	<u>Aponomma gervaisi</u>		1 ♂, 7 ♀ <u>Aponomma gervaisi</u>
	Iguana		Iguana
	Borlesgomuwa, Ceylon		Boralesgomuwa (06.50 N, 79.54 E), Sri Lanka
	18·XI·1906		18·XI·1906
	Received from Dr. Aldo Castellani		Received from Dr. Aldo Castellani
	Determined C. Warburton XII·1906		

ORIGINAL DETERMINATIONCURRENT STATUS

N 154a, b

N 154a, b

RML 106000

(a) Boophilus australis 1 ♀
 (b) Rhipicephalus
sanguineus 1 ♂, 2 ♀

(a) 1 ♀ Boophilus microplus
 (b) 1 ♂, 2 ♀ Rhipicephalus sanguineus

Cow

Cow

Cinnamon Gardens, Ceylon

Cinnamon Gardens (06.55 N, 79.52 E),
Sri Lanka

21·XI·1906

21·XI·1906

Received from Dr. Aldo Castellani

Received from Dr. Aldo Castellani

Determined C. Warburton XII·1906

ORIGINAL DETERMINATIONCURRENT STATUS

N 155

Argas persicus

Crevices in mud wall of hen roost at the Grand Hotel, Khartoum

Received 24·XI·1906

Mr. H. H. King & Dr. A. Balfour

Received from Dr. A. Balfour, Wellcome Research Laboratories, Gordon Memorial College, Khartoum, who states that these ticks are associated with a deadly spirochaetosis in fowls which occurred in fowls imported from Genoa, Italy, similar to the disease in Brazil (Marchoux & Salimbeni). "I am sending you nymphs, adults & casts, etc., which "infested these fowls." These were collected by Mr. H. H. King, our Entomologist & Dr. Balfour from crevices in the mud wall of the hen roost at the Grand Hotel, Khartoum.
Some (sex/stage not stated) to Prof. G. H. Carpenter, Royal College Science, Dublin 19·I·1910.
Some (sex/stage not stated) to Dr. G. S. Graham-Smith, Medical School, Cambridge 19·I·1910.
Some (sex/stage not stated) to E. E. Green (F.E.S.) Govt. Entomologist, Ceylon 19·I·1910.
Some (sex/stage not stated) to Dschunkowsky Transcaucasus 19·I·1910.
Some (sex/stage not stated) to Dr. Edmund Sergent, Algeria N. Africa 19·IV·1910.
Some (sex/stage not stated) to Dr. H. deB. Aragão, Brazil 23·I·1910

N 155

RML 104760

5 N Argas persicus

Crevices in mud wall of hen roost at the Grand Hotel, Khartoum (15.36 N, 32.32 E), Sudan

Received II·1907

Mr. H. H. King & Dr. A. Balfour

The date given above is from vial label which disagrees with catalogue. The reference is to Marchoux & Salimbeni (1903). There is one additional cast skin in this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	156	N	156
		RML	104761
	<u>Boophilus annulatus</u>		3 ♀ <u>Boophilus microplus</u>
	Received ca. 1901		Received ca. 1901
	Received from Mr. E. G. Wheeler		Received from Mr. E. G. Wheeler
N	157	N	157
		RML	105762
	<u>Boophilus annulatus</u> larvae		±2000 L <u>Boophilus microplus</u>
	Queensland, Australia		Queensland, Australia
	Received 1900		Received 1900
	Received from T. Bowhill F.R.C.V.S.		Received from T. Bowhill F.R.C.V.S.
N	158	N	158
		RML	104763
	<u>Aponomma trachysauri</u>		1 ♂, 1 ♀, 1 N <u>Aponomma hydrosauri</u>
	<u>Trachysaurus rugosus</u> (the stump-tailed lizard)		<u>Trachysaurus rugosus</u>
	Adelaide, S. Australia		Adelaide (34.55 S, 138.35 E), Australia
	14.XI.1906		14.XI.1906
	Received from Dr. E. A. Johnson		Received from Dr. E. A. Johnson

159-165. Ticks received from E. B. Haddon, B.A., 31.X.1906. All the specimens were collected of [sic] cows and oxen, at Jinja, Uganda, Africa:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	159	N	159 MISSING
<u>Amblyomma variegatum</u>			
Cows and oxen			
Jinja, Uganda			
Received 31.X.1906			
Received from E. B. Haddon, B.A.			
N	160a, b	N	160a, b MISSING
(a) <u>Amblyomma variegatum</u>			
(b) <u>Rhipicephalus appendiculatus</u>			
Cows and oxen			
Jinja, Uganda			
Received 31.X.1906			
Received from E. B. Haddon, B.A.			
N	161a, b	N	161a, b MISSING
(a) <u>Amblyomma variegatum</u>			
(b) <u>Rhipicephalus appendiculatus</u>			
Cows and oxen			
Jinja, Uganda			
Received 31.X.1906			
Received from E. B. Haddon, B.A.			

ORIGINAL DETERMINATIONCURRENT STATUS

N 162a, b N 162a, b MISSING

- (a) Amblyomma variegatum
 (b) Rhipicephalus appendiculatus

Cows and oxen

Jinja, Uganda

Received 31·X·1906

Received from E. B. Haddon, B.A.

N 163 N 163 MISSING

Amblyomma variegatum

Cows and oxen

Jinja, Uganda

Received 31·X·1906

Received from E. B. Haddon, B.A.

N 164 N 164 MISSING

Amblyomma variegatum

Cows and oxen

Jinja, Uganda

Received 31·X·1906

Received from E. B. Haddon, B.A.

ORIGINAL DETERMINATIONCURRENT STATUS

N 165

N 165 MISSING

Amblyomma variegatum

Cows and oxen

Jinja, Uganda

Received 31·X·1906

Received from E. B. Haddon, B.A.

N 166

N 166

RML 104764

♀'s Boophilus annulatus14 ♀ Boophilus annulatus

Probably Nebraska, USA

Probably Nebraska, USA

Sent 18·XII·1906

Sent 18·XII·1906

Prof. W. E. Allen

Prof. W. E. Allen

Sent by Prof. H. B. Ward of the
 Zoological Dept., The University
 Nebraska, Lincoln, Nebr., USA
 saying "cattle ticks collected
 and preserved by Prof. W. E.
 Allen of the State Normal
 School, Kearney, Nebraska."

Henry Baldwin Ward (1865-1945)
 Ph.D. Harvard 1892.
 Established the Journal of
Parasitology in 1914.

167-177. Ticks received 3.I.1907 from Colonel B. Skinner, R.A.M.C.,
to whom they were sent by Lt.-Col. C. E. Nuthall, R.A.V.C.

ORIGINAL DETERMINATION

CURRENT STATUS

N

167

N

167

RML

71483

Haemaphysalis bispinosa

43 ♀ Haemaphysalis bispinosa
including 1 ♀ NEOTYPE
1 ♀ Haemaphysalis intermedia
1 ♂ Hyalomma brevipunctata

Cattle at slaughter house

Cattle at slaughter house

Madras, India

Madras (13.05 N, 80.17 E),
Tamil Nadu, India

9.XI.1906

9.XI.1906

Lt. Col. C. E. Nuthall, R.A.V.C.
sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

Lt. Col. C. E. Nuthall, R.A.V.C.
sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

For a discussion of this collection
including selection of the NEOTYPE
see Trapido (1965: 155, 156).
The H. bispinosa collection is
cited by Nuttall & Warburton
(1915: 431); Hoogstraal & Trapido
(1966: 1188).

N

168

N

168

RML

104765

Haemaphysalis bispinosa

15 ♀ Haemaphysalis bispinosa

Goat

Goat

Madras, India

Madras (13.05 N, 80.17 E),
Tamil Nadu, India

10.XI.1906

10.XI.1906

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

Lt. Col. C. E. Nuthall, R.A.V.C.
Sent by Col. B. Skinner, R.A.M.C.
Received by Nuttall 3.I.1907

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	169	N	169
		RML	104766
	<u>Haemaphysalis ? bispinosa</u> (mostly nymphs)		2 ♂, 2 ♀, 104 N, 9 L <u>Haemaphysalis bispinosa</u>
	Cattle		Cattle
	Basin Road Depot, Madras, India		Basin Road Depot, Madras (13.05 N, 80.17 E), Tamil Nadu, India
	15.XI.1906		15.XI.1906
	Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907
	2 ♂ to C. Strickland, Malaya		
N	170	N	170
		RML	104767
	<u>Rhipicephalus sanguineus</u>		50 ♂, 55 ♀, <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Madras, India		Madras (13.05 N, 80.17 E), Tamil Nadu, India
	10.XI.1906		10.XI.1906
	Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907

ORIGINAL DETERMINATIONCURRENT STATUS

N	171	N	171
		RML	104768
	<u>Hyalomma aegyptium</u>		13 ♂, 18 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Cattle		Cattle
	S. & T. Transport Co., Madras, India		S. & T. Transport Co., Madras (13.05 N, 80.17 E) Tamil Nadu, India
	9.XI.1906		9.XI.1906
	Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907
	1 ♂, 1 ♀ to Prof. Hewlett, Kings College, London 6.III.1907		
N	172	N	172 MISSING
	<u>Hyalomma aegyptium</u>		
	Cattle		
	Harris Road Cattle Depot, Madras, India		
	8.XI.1906		
	Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		
	1 ♂, 1 ♀ to Richard Hancock, England 16.VI.1918		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	173	N	173
		RML	104769
	<u>Rhipicephalus sanguineus</u>		37 ♂, 83 ♀ <u>Rhipicephalus sanguineus</u>
	Pariah dogs		Pariah dogs
	Madras, India		Madras (13.05 N, 80.17 E), Tamil Nadu, India
	9.XI.1906		9.XI.1906
	Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907
	1 ♂, 1 ♀ to Col Leishman 7.VIII.1907.		Vial label locality reads Secunderabad, India
	1 ♂, 1 ♀ to Prof. B. Galli-Valerio, Lausanne, Switzerland 14.III.1912.		
	1 ♂, 1 ♀ to Prof. Dr. M. Miyajima Tokio, Japan 7.III.1912.		
	1 ♂, 1 ♀ to Dr. G. L. Tuck, Tientsin, China 17.II.1912.		
	1 ♂, 1 ♀ to A. H. Cockayne, Wellington, N.Z.		
	1 ♂, 1 ♀ to Dr. Lajos Gwzony, Univ. Budapest, Hungary 23.VI.1914.		
N	174	N	174
		RML	104770
	<u>Rhipicephalus sanguineus</u>		88 ♂, 48 ♀, 2 N <u>Rhipicephalus sanguineus</u>
	Foxhounds		Foxhounds
	Madras, India		Madras (13.05 N, 80.17 E), Tamil Nadu, India
	10.XI.1906		10.XI.1906
	Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907
	1 ♂, 1 ♀ to Richard Hancock, England 16.VI.1918.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	175	N	175
		RML	104771
	<u>Hyalomma aegyptium</u>		18 ♂, 9 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Donga ponies		Donga ponies
	Secunderabad, India		Secunderabad (17.27 N, 78.30 E), India
	26.V.1906		26.V.1906
	Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907
N	176	N	176
		RML	66586
	<u>Hyalomma aegyptium</u>		2 ♂, 1 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Cattle		Cattle
	Harris Road Cattle Depot, Madras, India		Harris Road Cattle Depot, Madras (13.05 N, 80.17 E), Tamil Nadu, India
	8.XI.1906		8.XI.1906
	Lt. Col. C. E. Nuthall, R.A.M.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907		Lt. Col. C. E. Nuthall, R.A.V.C. Sent by Col. B. Skinner, R.A.M.C. Received by Nuttall 3.I.1907

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	177 <u>Amblyomma hebraeum</u> N's Cape Colony, South Africa ♂'s, ♀'s received II.1906 N's received I.1908 C. P. Lounsbury [2 slides, balsam] N's sent for heartwater experiments	N	177 MISSING
N	177X <u>Amblyomma hebraeum</u> ♂'s, ♀'s Rec'd from C. P. Lounsbury II.1906 Cape Colony, South Africa	N	177X MISSING
N	178 larvae ? Off a cesspit Adelaide S. Australia Received 14.XI.1906 Rec'd from Dr. E. A. Johnson (what are they?)	N	178 MISSING
N	179 <u>Boophilus australis</u> Labelled " <u>Rhipicephalus australis</u> " Asia Minor Rec'd XII.1906 Dr. E. Steinhardt. Sent by Dr. H. Bitter [hypostome mounted on a slide]	N	179 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 180

N 180

RML 104772

Boophilus australis ♀'s5 ♀ Boophilus microplus

English cattle

English cattle

Astana farm, Sarawak

Astana farm, Sarawak, Malaysia

Sent 17.XII.1906

Sent 17.XII.1906

John Hewitt, B.A.

John Hewitt, B.A. (1881-1961) born in England, spent some years in Sarawak, Director of Museum at Kuching. In 1908 went to South Africa and became Director of the Albany Museum, Grahamstown in 1910; retired in 1958. Authority on spiders and reptiles of South Africa.

Taken from softer parts of the skin of English cattle belonging to the Astana farm. These ticks exist in thousands, forming a continuous crust on the skin of the unfortunate beasts. Apparently they cause no specific disease, but the cattle become rather emaciated. The grass of the area in question is swarming with very active young ticks for miles. These creatures do not seriously attack Indian cattle or buffaloes, so the farmer says. I would be glad of a name for the ticks. Perhaps Dr. Nuttall would look at them? I can send more specimens and representatives of every stage of the life-history of the tick, if anyone desires it. From John Hewitt, B.A., Superintendent of the Museum, Sarawak, Borneo 17.XII.1906.

ORIGINAL DETERMINATIONCURRENT STATUS

N	181	N	181
		RML	104773
	<u>Rhipicephalus sanguineus</u> 1 ♀ (young)		1 ♀ <u>Rhipicephalus sanguineus</u>
	Man in his bed		♂ <u>Homo sapiens</u>
	Sekondi, Gold Coast, W. Africa		Sekondi (04.56 N, 01.42 W), Ghana
	10.X.1906		10.X.1906
	Sent by Dr. W. M. Graham M.O. Gold Coast		Sent by Dr. W. M. Graham, M.O. Gold Coast
	182-188 Ticks received from Colonel B. Skinner, R.A.M.C., from Ceylon, 15.I.1907:		
N	182	N	182
		RML	104774
	<u>Amblyomma integrum</u> ♀'s		2 ♀ <u>Amblyomma integrum</u>
	Cattle		Cattle
	Naranpitiya, Ceylon		Naranpitiya (07.13 N, 80.21 E), Sri Lanka
	3.XII.1906		3.XII.1906
	Received from Col. B. Skinner R.A.M.C. 15.I.1907		Plus one additional ♀ pinned. Cited: Robinson (1926: 114).

ORIGINAL DETERMINATIONCURRENT STATUS

N 183a, d

N 183a, d

RML 104775

- (a) Rhipicephalus sanguineus
- (b) Boophilus australis ♀
- (c) Haemaphysalis bispinosa
- (d) Amblyomma sp.

- (a) 8 ♂ Rhipicephalus sanguineus
- (b) 2 ♀ Boophilus microplus
- (c) 1 ♂, 2 ♀ Haemaphysalis bispinosa
- (d) 2 N Amblyomma sp.

Mouse-deer (? dying)

Mouse-deer (? dying)

Boreasgama, Ceylon

Boralesgomuwa (06.50 N, 79.54 E),
Sri Lanka

6.XII.1906

6.XII.1906

Received from Col. B. Skinner
R.A.M.C. 15.I.1907Received from Col. B. Skinner
R.A.M.C. 15.I.1907

ORIGINAL DETERMINATIONCURRENT STATUS

N	184	N	184
		RML	104776
	<u>Amblyomma integrum</u> ♂		4 ♂ <u>Amblyomma integrum</u>
	Horse (? hare)		Horse (? hare)
	Borlasgama, Ceylon		Boralesgomuwa (06.50 N, 79.54 E), Sri Lanka
	6·XII·1906		6·XII·1906
	Received from Col. B. Skinner R.A.M.C. 15·I·1907		Received from Col. B. Skinner R.A.M.C. 15·I·1907
	2 ♂ to C. Strickland, Malaya		
N	185a, b	N	185a, b
		RML	104777
	(a) <u>Boophilus australis</u> ♀'s		(a) 5 ♀ <u>Boophilus microplus</u>
	(b) <u>Amblyomma</u> sp. N's		(b) 2 N <u>Amblyomma</u> sp.
	Buffalo		Buffalo
	Cotta, Ceylon		Cotta Road (?) (06.55 N, 79.53 E) Sri Lanka
	4·XII·1906		4·XII·1906
	Received from Col. B. Skinner R.A.M.C. 15·I·1907		Received from Col. B. Skinner R.A.M.C. 15·I·1907

ORIGINAL DETERMINATIONCURRENT STATUS

N	186a, b	N	186a, b
		RML	104778
	(a) <u>Haemaphysalis bispinosa</u>		(a) 5 ♂, 4 ♀, 1 N <u>Haemaphysalis bispinosa</u>
	(b) <u>Boophilus spec. incert</u>		(b) 2 ♂ <u>Boophilus microplus</u>
	Country cat		Country cat
	Borlasgama, Ceylon		Boralesgomuwa (06.50 N, 79.54 E), Sri Lanka
	4.XII.1906		4.XII.1906
	Received from Col. B. Skinner R.A.M.C. 15.I.1907		Received from Col. B. Skinner R.A.M.C. 15.I.1907
	(a)[1 ♂, 3 ♀ mounted in balsam on 2 slides]		Slides missing. (186a) cited: Nuttall & Warburton (1915: 432).
N	187	N	187
		RML	104779
	<u>Haemaphysalis bispinosa</u>		4 ♂, 3 ♀ <u>Haemaphysalis bispinosa</u>
	Village dog		Village dog
	Borlasgama, Ceylon		Boralesgomuwa (06.50 N, 79.54 E), Sri Lanka
	4.XII.1906		4.XII.1906
	Received from Col. B. Skinner R.A.M.C. 15.I.1907		Received from Col. B. Skinner R.A.M.C. 15.I.1907
			There is an additional 1 ♂, 1 ♀ of this collection in the Rocky Mountain Laboratory collection. Cited: Nuttall & Warburton (1915: 432).

ORIGINAL DETERMINATIONCURRENT STATUS

N	188a, b	N	188a, b
		RML	76098
	(a) <u>Haemaphysalis bispinosa</u>		(a) 1 ♀ <u>Haemaphysalis intermedia</u>
	(b) <u>Boophilus australis</u>		(b) 5 ♀ <u>Boophilus microplus</u>
	Black monkey		Black monkey
	Raygam Koili, Ceylon		Raygam Koili, Sri Lanka (Locality not verified)
	5.XII.1906		5.XII.1906
	Received from Col. B. Skinner R.A.M.C. 15.I.1907		Received from Col. B. Skinner R.A.M.C. 15.I.1907
	[hypostome mounted on a slide]		Slide missing. An additional 1 ♀ <u>H. intermedia</u> is in the NAMRU-3 collection, Cairo, Egypt
	189-193. Ticks received 22.I.1906, from Dr. P. H. Ross, Government Bacteriologist, Nairobi, East African Protectorate:		
N	189	N	189 MISSING
	<u>Rhipicephalus appendiculatus</u>		
	Goats		
	Benadir Coast		[The Benadir Coast is in The Somali Democratic Republic.]
	Received 22.I.1907		
	Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East African Pro- tectorate.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	190	N	190 MISSING
	<u>Amblyomma variegatum</u> ?		
	Cattle		
	Embu (Mt. Kenya)		
	Received 22.I.1907		
	Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East African Pro- tectorate.		
N	191a, b	N	191 b
	(a) <u>Haemaphysalis leachi</u>		(a) MISSING
	(b) <u>Rhipicephalus simus</u> 1 ♂		(b) 2 ♂, 1 ♀ <u>Rhipicephalus simus</u>
	Dog		Dog
	Nairobi, B. E. Africa		Nairobi (1.17 S, 36.49 E), Kenya
	Received 22.I.1907		Received 22.I.1907
	Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East African Pro- tectorate.		Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East African Pro- tectorate.
	Dr. P. H. Ross collection 1906 Compared with Neumann's type of <u>R. simus</u>		

ORIGINAL DETERMINATIONCURRENT STATUS

N	192a, c	N	192a, c
		RML	104781
	(a) <u>Amblyomma variegatum</u> (b) <u>Rhipicephalus evertsi</u> ♂ (c) <u>Rhipicephalus pulchellus</u> ♀		(a) 7 ♂, 2 ♀, 3 N <u>Amblyomma variegatum</u> (b) MISSING (c) 1 ♀ <u>Rhipicephalus pulchellus</u>
	Cattle		Cattle
	Nairobi, B.E. Africa		Nairobi (01.17 S, 36.49 E), Kenya
	Received 22.I.1907		Received 22.I.1907
	Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East African Protectorate		Received from Dr. P. H. Ross, Government Bacteriologist Nairobi East African Protectorate
	(192a) 4 slides ♀'s mounted in balsam 1 ♂, 1 ♀ of <u>A. variegatum</u> to Prof. Hewlett, Kings College, London		Slides of N 192a missing.
N	193a, d	N	193b, d
		RML	104782
	(a) <u>Hyalomma aegyptium</u> (b) <u>Rhipicephalus pulchellus</u> ♀ (c) <u>Amblyomma lepidum</u> ♂ (d) <u>Rhipicephalus simus?</u> ♂		(a) MISSING (b) 1 ♀ <u>Rhipicephalus pulchellus</u> (c) 1 ♂ <u>Amblyomma lepidum</u> (d) 1 ♂ <u>Rhipicephalus humeralis</u>
	Cattle		Cattle
	Lamu and Kismayu		Lamu (02.16 S, 40.54 E) and Kismayu (locality not verified, Kisumu, 00.06 S, 34.45 E is a possibility), Kenya
	Received 22.I.1907		Received 22.I.1907
	Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East African Protectorate		Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East African Protectorate

194-198. Ticks sent by Colonel W. B. Leishman, R.A.M.C., 24.I.1907, who wants diagnoses. These were sent to him by Captain W. H. Best, West African Medical Staff, collected by him in the Ikite Country, N.E. District of Lagos Province, West Africa:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	194	N	194
		RML	104783
	<u>Amblyomma splendidum</u>		2 ♂ <u>Amblyomma splendidum</u>
	Buffalo		<u>Syncerus caffer</u>
	Ikite Country, N. E. District of Lagos Province, West Africa		Ikite Country, N. E. District of Lagos State (06.30 N, 03.30 E), Nigeria
	Received 24.I.1907		Received 24.I.1907
	Capt. W. H. Best, West African Medical Staff. Sent by Col. W. B. Leishman, R.A.M.C.		Capt. W. H. Best, West African Medical Staff. Sent by Col. W. B. Leishman, R.A.M.C.
	(I-III, slides, ♂ dissected, balsam)		Cited in Robinson (1926: 125). Slides missing.
			An additional pinned ♂ is in the BMNH collection.
N	195a, b	N	195b
		RML	104784
	(a) <u>Haemaphysalis leachi</u> 2 ♂		(a) MISSING
	(b) <u>Rhipicephalus bursa</u> ♀		(b) 1 ♀ <u>Rhipicephalus sanguineus</u> (tentative ID. Genital aperture narrow)
	Dog		Dog
	Ilesha		Ilesha (07.37 N, 04.44 E), Nigeria
	Received 24.I.1907		Received 24.I.1907
	Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East Africa		Received from Dr. P. H. Ross, Government Bacteriologist, Nairobi East Africa

ORIGINAL DETERMINATIONCURRENT STATUS

N	196	N	196
		RML	104785
	3 ° <u>Amblyomma splendidum</u>		2 ° <u>Amblyomma splendidum</u>
	Buffalo		<u>Syncerus caffer</u>
	Ikiti Country		Ikiti Country, N.E. District of Lagos State (06.30 N, 03.30 E), Nigeria
	Received 24.I.1907		Received 24.I.1907
	Capt. W. H. Best, West African Medical Staff. Sent by Col. W. B. Leishman R. A. M. C.		Capt. W. H. Best, West African Medical Staff. Sent by Col. W. B. Leishman, R.A.M.C.
	From collection N 194		Cited: Robinson (1926: 125).
N	197	N	197 MISSING
	<u>Rhipicephalus bursa</u>		
	Harness deer		
	Ose River		
	Received 24.I.1907		
	Capt. W. H. Best, West African Medical Staff. Sent by Col. W. B. Leishman, R.A.M.C.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	<p>198</p> <p><u>Rhipicephalus simus</u> 1 ♂</p> <p>Pig</p> <p>Ilesha, Lagos Province, W. Africa</p> <p>Received 24·I·1907</p> <p>Capt. W. H. Best, West African Medical Staff. Sent by Col. W. B. Leishman R.A.M.C.</p> <p>(L. G. Neumann determined 12·XI·1907 for us)</p>	N	<p>198</p> <p>RML 104786</p> <p>1 ♂ <u>Rhipicephalus muhsamae</u></p> <p>Pig</p> <p>Ilesha (07.37 N, 04.44 E), Nigeria</p> <p>Received 24·I·1907</p> <p>Capt. W. H. Best, West African Medical Staff. Sent by Col. W. B. Leishman, R.A.M.C.</p>
N	<p>199</p> <p><u>Amblyomma marmoreum</u> larvae (Type) Reared at Rosebank</p> <p>Reared III·1906</p> <p>Sent by Mr. Lounsbury, Govern- ment Entomologist Cape Colony, South Africa.</p>	N	<p>199</p> <p>RML 104787</p> <p>7 L <u>Amblyomma</u> sp.</p> <p>Reared at Rosebank (33.57 S, 18.28 E), Republic of South Africa</p> <p>Reared III·1906</p> <p>Sent by Mr. Lounsbury, Government Entomologist Cape Colony, South Africa.</p> <p>Cited: Edwards & Evans (1967: 596).</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N 200

N 200

RML 104788

Amblyomma marmoreum
unfed nymphs4 N Amblyomma sp.

Reared at Rosebank

Reared at Rosebank (33.57 S, 18.28 E),
Republic of South Africa.

Reared V.1906

Reared V.1906

Sent by Mr. Lounsbury, Govern-
ment Entomologist, Cape Colony
South AfricaSent by Mr. Lounsbury, Government
Entomologist, Cape Colony, South
Africa

ORIGINAL DETERMINATIONCURRENT STATUS

N	201	N	201
		RML	104789
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		31 ♂, 67 ♀ <u>Rhipicephalus sanguineus</u>
	Reared on nymphs on dogs		Reared as nymphs on dogs
	Madras, India		Madras (13.04 N, 80.17 E), India
	14.X.1906		14.X.1906
	Rec'd from Lieut. S.R. Christophers M.B., I.M.S.		Rec'd from Lieut. S.R. Christophers M.B., I.M.S.
	Infected with Piroplasmosis (5 slides, balsam mounts of ♂'s, ♀'s) I-V		Slides missing 1978
			Colonel Sir Samuel Rickard Christophers (1873-1978). A brief review of his career and a photo are presented as a frontispiece in <u>Ann. Trop. Med. Parasit.</u> vol. 73 (1979).
N	202	N	202
		RML	22308
	<u>Amblyomma caelaturum</u> ♂ & ♀		1 ♂, 1 ♀ <u>Amblyomma geoemydae</u>
	Tortoise		Tortoise
	Malay Peninsula		Malaysia
	Dr. H. E. Durham		Dr. H. E. Durham
	Given me by Dr. Daniels, whose number "214" it bore. See descriptive notes, drawings and slide with digit of one, mounted (See Neumann Archi. f Parasitologie) Nove VI, p. 10, figs. 9 & 10, a ♂ & ♀ from Bulikima, Singapore, specimen from British Museum [digit mounted in balsam on a slide]		Slide of digit missing Cited: Robinson (1926: 230). Santos Dias (1958: 500) records 2 ♂, 1 ♀ <u>A. geoemydae</u> in this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	203	N	203	MISSING
	<u>Ornithodoros moubata</u>			
	Dowa, British Central Africa			
	Rec'd 1905			
	Out of Dr. Daniel's Collection, No. 206.			
N	204	N	204	MISSING
	<u>Ornithodoros moubata</u>			
	British Central (Africa)			
	Rec'd 1905			
	Out of Dr. Daniel's Collection No. 207.			
N	205	N	205	
		RML	104790	
	<u>Ornithodoros moubata</u>		1 ♂, 1 ♀, 1 N <u>Ornithodoros moubata</u>	
	Tete, Portuguese Central Africa		Tete (10.56 S, 14.10 E), Angola	
	Rec'd 1905		Rec'd 1905	
	Out of Dr. Daniel's Collection No. 209.		Cited: Merriman (1911: 171).	
N	206	N	206	
		RML	104791	
	" <u>Argas americanus</u> "		2 ♂, 1 ♀, 2 N <u>Argas radiatus</u>	
	Rec'd 1905		Rec'd 1905	
	No data. Out of Dr. Daniel's Collection, No. 213. Two specimens sent to Dr. E. Pavlovsky, Leningrad 9.X.1925.			

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	207	N	207
		RML	104792
	<u>Boophilus australis</u> ?, larvae, labelled " <u>Ixodes bovis</u> "		+ 500 L <u>Boophilus microplus</u>
			Probably Australia
	Rec'd 10.XI.1904		Rec'd 10.XI.1904
	W. F. Cooper		W. F. Cooper
	Rec'd from Queensland Bacteriological Station		
N	208	N	208
		RML	104793
	<u>Boophilus australis</u> ? adults, labelled " <u>Ixodes bovis</u> "		8 ♂ <u>Boophilus microplus</u>
			Probably Australia
	Rec'd 10.XI.1904		Rec'd 10.XI.1904
	W. F. Cooper		W. F. Cooper
	Rec'd from Queensland Bacteriological Station		
N	209	N	209 MISSING
	<u>Dermacentor andersoni</u> = <u>occidentalis</u> ♂		
	Victor, Montana		
	Rec'd from Dr. C. W. Stiles		
	Balsam mounted specimen on slide, with diamond scratched No. 9467 (from U. S. Pub. Health & Marine- Hospital Service, Washington, D.C., U.S.A.) [The word TYPE is crossed out beneath the species determination - J.E.K.]		There is an empty vial in token tube indicating 1 ♂ <u>D. andersoni</u> on a slide - Missing 1978. Number 9467 is the holotype ♂ of <u>Dermacentor andersoni</u> but the locality is Woodman, Montana, not Victor. See Stiles (1910: 40) and Keirans (1976: 262).

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 210</p> <p>3 ♂, 2 ♀ <u>Dermacentor occidentalis</u> (Type)</p> <p><u>Bos taurus</u></p> <p>Helena, Montana</p> <p>22.V.1904</p> <p>Tuttle</p> <p>Determined by Dr. C. W. Stiles 10.IV.1906 and 11.V.1904. Presented by Tuttle, 1904. Sent by Dr. Stiles to G.H.F.N. and bearing No. 9487 (U.S. Pub. Health & Marine-Hospital Service, Washington, D.C., U.S.A.)</p>	<p>N 210 MISSING</p> <p>No. 9487 is <u>Dermacentor andersoni</u> collected in Hamilton, Montana - See Stiles (1910; 41).</p>
<p>N 211</p> <p><u>Dermacentor andersoni</u> (Type)</p> <p>Man (♂ No. 9438)</p> <p>Bitter Root Valley, Montana, U. S. America</p> <p>5.V.1903</p> <p>J. F. Anderson</p> <p>Determined by Dr. C. W. Stiles Presented 29.VI.1903 by J. F. Anderson. Sent by Dr. Stiles to G.H.F.N. & bearing Nos. ♂ 9438, ♀ 9435 (U.S. Pub. Health & Marine-Hospital Service, Washington, D.C., U.S.A.).</p>	<p>N 211</p> <p>RML 104794</p> <p>1 ♂. 1 ♀ <u>Dermacentor andersoni</u></p> <p><u>Homo sapiens</u> (♂ No. 9438)</p> <p>Bitterroot Valley (47.06 N, 115.10 W) Montana, U.S.A.</p> <p>5.V.1903</p> <p>J. F. Anderson</p> <p>These are not type specimens and the numbers 9438 and 9435 are not listed in Stiles (1910)</p>

212-215. Ticks from the district (County) of Juchitan, on the Pacific side of the Isthmus of Tehuantepec, Mexico. Received from the collector, A. Laughton 12.III.1907

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	212	N	212
		RML	104795
	<u>Amblyomma cajennense</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma cajennense</u> Lectotype and paralectotype of <u>A. versicolor</u>
	Horse		Horse
	Tolosa, Oaxaca, Mexico		Tolosa (22.31 N, 101.22 W), Mexico
	10.I.1907		10.I.1907
	A. Laughton		A. Laughton
	L. E. Robinson Det. 1926		Nuttall & Warburton (1908: 407), original description. Cited: Robinson (1926: 53). Lectotype designated: Keirans & Brewster (1981: 158).
N	213	N	213
		RML	104796
	<u>Amblyomma versicolor</u> ? N		1 N <u>Amblyomma</u> sp.
	Man		<u>Homo sapiens</u>
	Between Chivela and Rincou Antonio, Est. Oaxaca, Mexico		Between Chivela (16.42 N, 94.59 E) and Rincou Antonio (locality not verified), Mexico
	2.I.1907		2.I.1907
	A. Laughton		A. Laughton

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	214	N	214
		RML	104797
	<u>Amblyomma</u> sp. larvae		2 L <u>Amblyomma</u> sp.
	Horse		Horse
	Tolosa, Oaxaca, Mexico		Tolosa (22.31 N, 101.22 W), Mexico
	10.I.1907		10.I.1907
	A. Laughton		A. Laughton
N	215	N	215
		RML	104798
	<u>Boophilus</u> sp. larvae		4 L <u>Amblyomma</u> sp.
	Cow		Cow
	Tolosa, Oaxaca, Mexico		Tolosa (22.31 N, 101.22 W), Mexico
	10.I.1907		10.I.1907
	A. Laughton		A. Laughton
N	216	N	216 MISSING
	<u>Ixodes hexagonus</u> ♀'s, N's, L's		
	<u>Lutra vulgaris</u>		
	No doubt British		
	Gift of Hon. N. C. Rothschild		
	7 slides (R.961-973)		
	I-III - larvae		
	IV - N		
	V-VII - ♀'s		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	217	N	217 MISSING
	<u>Ixodes hexagonus</u> 2 ♀		
	Fox		
	No doubt British		
	Gift of Hon. N. C. Rothschild (2 slides R 930-931)		
N	218	N	218
	<u>Amblyomma tholloni</u> 2 ♀	RML	104799
	Elephant		2 ♀ <u>Amblyomma tholloni</u>
	Jinja, Busoga, Uganda, Africa		<u>Loxodonta africana</u>
	28.XI.1906		Jinja (00.26 N, 33.12 E), Uganda
	Shot by E. G. Haddon, B.A.		28.XI.1906
			E. B. Haddon, B.A.
			Cited: Robinson (1926: 252).
N	219	N	219
	<u>Boophilus australis</u> ♀	RML	104800
	Cattle		34 ♀ <u>Boophilus microplus</u>
	Kuching Sarawak, Borneo		Cattle
	I.1907		Kuching (01.33 N, 110.20 E), Sarawak
	Dr. A. R. Wellington, General Hospital, Kuching, Sarawak, Borneo		I.1907
			Dr. A. R. Wellington

ORIGINAL DETERMINATIONCURRENT STATUS

N	220	N	220
		RML	104801
	<u>Haemaphysalis papuana</u>		1 ♀, 3 N <u>Haemaphysalis papuana</u>
	Dog		Dog
	Kuching, Sarawak, Borneo		Kuching (01.33 N, 110.20 E.), Sarawak
	I.1907		I.1907
	Dr. A. R. Wellington		Dr. A. R. Wellington
	1 ♂ to L. O. Howard U.S.D.A. 21.V.1909 [specimen now in RML collection - J.E.K.]		The ♀ of this collection was cited by Trapido et al (1964: 178). Collection in two tubes.
	1 N to C. Strickland, Malaya		
	1 ♀ to A. S. Hirst, B.M.N.H.		The nymphs are being retained with the ♀ although they probably are not <u>H. papuana</u> . See fig. 340, Nuttall & Warburton (1915: 406).
N	221	N	221
		RML	104802
	<u>Haemaphysalis wellingtoni</u> ♂'s ♀'s TYPE		1 ♂, 10 ♀, 2 N <u>Haemaphysalis</u> <u>wellingtoni</u> Lectotype and paralectotypes
	Fowls		Fowls
	Kuching, Sarawak, Borneo		Kuching (01.33 N, 110.20 E), Sarawak
	I.1907		I.1907
	Dr. A. R. Wellington		Dr. A. R. Wellington
	[2 ♀ mounted in balsam on 2 slides]		Slides present 1978. Nuttall & Warburton (1908: 397), original description.
	1 ♀ to Dr. de Blicck, Java 22.I.1915		1♂, 1 ♀ are in a separate vial with a blue TYPE label. Lectotype designated: Keirans & Brewster (1981: 163, 164).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	222	N	222 MISSING
	<u>Amblyomma cajennense</u> ♂ & ♀ (TYPE)		
	<u>Hydrochoerus capybara</u>		
	Brazil		
	Type gift of Professor L. G. Neumann of Toulouse, France 24.II.1907		
N	223	N	223
	<u>Amblyomma striatum</u> ♂ & ♀ species epithet crossed out and <u>ovale</u> inserted. (TYPE)	RML	104803
	<u>Canis azarai</u>		1 ♀ <u>Amblyomma striatum</u>
	Brazil		<u>Dusicyon</u> sp.
	Types gift of Professor L. G. Neumann of Toulouse, France 24.II.1907. Det. L. E. Robinson 1926		Brazil
			This is not a type specimen. Cited as <u>Amblyomma ovale</u> by Robinson (1926: 29).
N	224	N	224
	<u>Ixodes brunneus</u> 1 ♀	RML	104804
	Owl		2 ♀ <u>Ixodes arboricola</u> 1 ♀ <u>Ixodes frontalis</u>
	Cambridge		Owl
	Rec'd 1904		Cambridge (52.12 N, 00.08 E), England
	Rec'd from Dr. G. S. Graham-Smith		Rec'd 1904
			Cited: Nuttall & Warburton (1911: 192); Arthur (1952: 153); Arthur (1963: 118).

ORIGINAL DETERMINATIONCURRENT STATUS

N	225	N	225
		RML	104805
	Larva <u>Argas</u> sp.?		1 L <u>Argas vespertilionis</u>
	Bat		Bat
	Grantchester, Cambs.		Grantchester (52.10 N, 00.06 E), Cambs., England
	X.1906		X.1906
	N.D.F. Pearce, M.A.		N.D.F. Pearce, M.A.
N	226	N	226
		RML	104806
	<u>Ornithodoros megnini</u>		10 N <u>Otobius megnini</u>
	<u>Bos taurus</u>		<u>Bos taurus</u>
	21.I.1899		21.I.1899
	A. M. Hildebrand		A. M. Hildebrand
	Determined 1899 by Stiles & Hassall. Sent me by Dr. C. W. Stiles of Washington, D.C., U.S. America. Some (sex/stage not stated) to W. F. Cooper 22.I.1910.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 227

N 227

RML 104807

Rhipicephalus haemaphysaloides
♂ & ♀2 ♂, 1 ♀ Rhipicephalus haemaphysaloides

Chin Hills, India

Probably Chin Hills (23.30 N, 93.30 E),
BurmaFrom collection sent by Lefroy
to Warburton 1906 [1 slide, ♂ ♀
in balsam].The word Type beneath the species name
has been crossed out in the original
determination.

228-235. Ticks received from Dr. B. Brock, Germiston, Transvaal, S. Africa.
4.III.1907, who wrote, 8.II.1907 that they were sent him from the "North."
Those from tortoise (Nos. 228, 229) are the only ones his friend Mr. Fry
could find on reptiles.

N 228

N 228

RML 104808

Amblyomma marmoreum ♂♂ (many)
(Type)4 ♂, 2 ♀ Amblyomma marmoreum

Tortoise

Tortoise

"North" of Germiston, Transvaal
South Africa"North" of Germiston, Transvaal,
Republic of South Africa

Killed, 1906

Killed, 1906

Mr. Fry

Mr. Fry

Rec'd from Dr. B. Brock.
Killed, 1906 by hot water &
preserved in 10% formalin, which
evaporated.
1 ♂ to Prof. Hewlett,
Kings College, London.

Cited: Robinson (1926: 90).
These are not type specimens.
Theiler & Salisbury (1959: 108)
lists 7 ♂, 2 ♀.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	229	N	229
		RML	104809
	<u>Amblyomma marmoreum</u> ♂'s, 2 ♀ (Type)		10 ♂, 2 ♀ <u>Amblyomma marmoreum</u>
	Tortoise		Tortoise
	"North" of Germiston, Transvaal South Africa		"North" of Germiston, Transvaal, Republic of South Africa
	Rec'd 4.III.1907		Rec'd 4.III.1907
	Mr. Fry		Mr. Fry
	Rec'd from Dr. B. Brock Compared 6.III.1907, a type, gorged ♀ of Lounsbury's also agree with Nn's descr. & fig. of ♂. 1 ♂ to Dr. S. Hadwen Brit. Columbia, Canada 10.X.1913. 1 ♂ to Prof. Kellogg, Stanford Univ. 1 ♂ to Sheffield Univ. 3.VI.1907.		These are not type specimens. 3 ♂, 1 ♀ of the above total are pinned specimens. Cited: Robinson (1926: 90); Theiler & Salisbury (1959: 108).
N	230a, b	N	230a, b
		RML	104810
	(a) <u>Rhipicephalus simus</u> ♂ ♀ (b) <u>Rhipicephalus sanguineus</u> ♂		(a) 6 ♂, 4 ♀ <u>Rhipicephalus simus</u> (b) 3 ♂ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	"North" of Germiston Transvaal South Africa		"North" of Germiston Transvaal, Republic of South Africa
	14.I.1907		14.I.1907
	Mr. Fry		Mr. Fry
	Rec'd from Dr. B. Brock		Date on vial label is 14.III.1907

ORIGINAL DETERMINATIONCURRENT STATUS

N	231	N	231 MISSING
	<u>Rhipicephalus appendiculatus</u> 2 ♀		
	Cat		
	"North" of Germiston, Transvaal, South Africa		
	14.I.1907		
	Mr. Fry		
	Rec'd from Dr. B. Brock		
N	232a-d	N	232a, c, d
		RML	104811
	(a) <u>Hyalomma aegyptium</u> ♂ ♀		(a) 5 ♂, 9 ♀ <u>Hyalomma rufipes</u>
	(b) <u>Rhipicephalus evertsi</u> ♂ ♀		(b) MISSING
	(c) <u>Rhipicephalus simus</u> ♂ ♀		(c) 1 ♂, 1 ♀ <u>Rhipicephalus simus</u>
	(d) <u>Amblyomma hebraeum</u> 1 ♂		(d) 1 ♂ <u>Amblyomma hebraeum</u>
	Horse		Horse
	"North" of Germiston, Transvaal, South Africa		"North" of Germiston, Transvaal, Republic of South Africa
	11.I.1907		11.I.1907
	Mr. Fry		Mr. Fry
	Rec'd from Dr. B. Brock		(232d) Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	233	N	233
		RML	104812
	<u>Hyalomma aegyptium</u>		24 ♂, 1 ♀ <u>Hyalomma rufipes</u>
	Ox		Ox
	"North" of Germiston, Transvaal South Africa		"North" of Germiston, Transvaal, Republic of South Africa
	22.I.1907		22.I.1907
	Mr. Fry		Mr. Fry
	Rec'd from Dr. B. Brock		Rec'd from Dr. B. Brock
N	234	N	234
		RML	104813
	<u>Hyalomma aegyptium</u>		9 ♂, 5 ♀ <u>Hyalomma truncatum</u>
	Sheep		Sheep
	"North" of Germiston, Transvaal, South Africa		"North" of Germiston, Transvaal, Republic of South Africa
	17.I.1907		17.I.1907
	Mr. Fry		Mr. Fry
	Rec'd from Dr. B. Brock		Rec'd from Dr. B. Brock
N	235	N	235
		RML	104814
	<u>Hyalomma aegyptium</u>		8 ♂ <u>Hyalomma truncatum</u>
	Goat		Goat
	"North" of Germiston, Transvaal South Africa		"North" of Germiston, Transvaal, Republic of South Africa
	17.I.1907		17.I.1907
	Mr. Fry		Mr. Fry
	Rec'd from Dr. B. Brock		

ORIGINAL DETERMINATIONCURRENT STATUS

N 236

N 236

Argas persicus var. miniatus

RML 104815

1 ♂, 1 N Argas miniatus1 ♂, 1 N Argas persicus

Brazil

Brazil

Rec'd II.1907

Rec'd II.1907

Rec'd from Dr. E. Marchoux

Rec'd from Dr. E. Marchoux

A) Some, which arrived dead, were preserved in 70% spirit. They conveyed spirochaetosis to fowl in Cambridge.

B) After feeding on fowl and mouse on 19.II.1907, these ticks, placed at 24° C, cast skins by 6.III.1907; 7 out of lot "E", 2 out of lot "G", re which see protocols of experiments.

N 237

N 237

Rhipicephalus sanguineus larvae

RML 104816

139 L Rhipicephalus sanguineus

Original stock from Cairo, Egypt

Original stock from Cairo, Egypt

Rec'd 29.VIII.1906

Rec'd 29.VIII.1906

Rec'd from Dr. Bitter

Rec'd from Dr. Heinrich Bitter

Hatched 29.VIII.1906
[1 slide, larvae in balsam]

Slide missing
Cited: Nuttall (1915: 448).

ORIGINAL DETERMINATIONCURRENT STATUS

N 238

N 238 MISSING

Ornithodoros moubataLilongwe, Central Angoniland,
British Central Africa

Rec'd 12.III.1907

Rec'd from Dr. C. W. Daniels

"They are unusually light
in colour."239-241. Ticks received from Dr. A. Balfour, Gordon College, Khartoum,
labelled from the "Wellcome Research Laboratories" (Entomological
Dept.), Khartoum, Sudan.

N 239

N 239

RML 104817

Rhipicephalus sanguineus4 ♂, 2 ♀ Rhipicephalus sanguineus
3 ♂, 1 ♀ Rhipicephalus simus

No data

No data

Rec'd from Dr. A. Balfour

Rec'd from Dr. A. Balfour

ORIGINAL DETERMINATIONCURRENT STATUS

N	240	N	240
		RML	104818
	<u>Amblyomma marmoreum</u>		2 ♂ <u>Amblyomma sparsum</u>
	No data		No data
	Rec'd from Dr. A. Balfour		Rec'd from Dr. A. Balfour
	The lot contained a malformed ♂ which will be found among the pinned specimens. It was described & figured by me in Parasitology, vol. VII, p. 254		Cited: Nuttall (1914a: 254); Robinson (1926: 89); Theiler & Salisbury (1959: 110). The pinned malformed ♂ is now in the BMNH collection.
N	241	N	241
		RML	104819
	<u>Hyalomma aegyptium</u>		8 ♂, 9 ♀ <u>Hyalomma dromedarii</u> 1 ♂, 1 ♀ <u>Hyalomma rufipes</u>
	No data		No data
	Rec'd from Dr. A. Balfour		Rec'd from Dr. A. Balfour
N	242	N	242
		RML	104817
	<u>Argas persicus</u> larvae		1 L <u>Argas persicus</u>
	Parents from Cairo, Egypt, larvae raised in Cambridge		Parents from Cairo (30.03 N, 31.15 E), Egypt; larvae raised in Cambridge (52.13 N, 00.08 E), England
	Rec'd 29.VIII.1906		Rec'd 29.VIII.1906
	Sent by Dr. Bitter		Sent by Dr. Heinrich Bitter
	Supposed to be infected with <u>Spirochaeta gallinarum</u> , the ♀'s having been fed on an infected fowl 19.II.1906.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 243

Argas persicus eggsParent ticks probably from
Kasauli, Punjab, India

Rec'd 20.XII.1906

Sent by Capt. E.D.W. Greig

Parent ticks received 20.XII.1906
fed 23.I.1907 on fowl, placed
at 24° C. Laid eggs (many) by
6.III.1907

N 243

RML 104821

One vial of Argas persicus eggsParent ticks probably from
Kasauli, (30.55N, 76.57E), India

Rec'd 20.XII.1906

Sent by Capt. E.D.W. Greig

Retained in a separate jar for
tick eggs.

N 244

Boophilus annulatus ♂, ♀

Cattle

Gainsville, Florida

8.III.1907

Professor J. M. Scott

Sent by C. L. Crow, Ph.D.

N 244 MISSING

245-248. Ticks sent by Dr. A. Yale Massey of Tanganyika Concessions, Ltd., Kansanshi, N.W. Rhodesia, 22.I.1907, to R. T. Leiper, M.B. (London School of Tropical Medicine) and transmitted to Professor Nuttall on behalf of Mr. Leiper by Dr. C. W. Daniels, 26.III.1907. The bottles marked respectively 1, 5, 8, 9 & Massey's letter to Leiper says the following: (We must pick out what we want & return the rest with diagnoses).

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	245	N	245
		RML	104822
	<u>Ixodes cavipalpus</u> ♂ ♀ TYPES		1 ♂, 3 ♀ <u>Ixodes cavipalpus</u> Lectotype and paralectotypes
	Baboon		<u>Papio cynocephalus</u>
	Kansanshi, N.W. Rhodesia		Kansanshi (12.05 S, 26.25 E), Zambia
	Sent 22.I.1907 to London School Tropical Medicine		Sent 22.I.1907 to London School Tropical Medicine
	Ticks sent by Dr. A. Yale Massey of Tanganyika Concessions, Ltd., Kansanshi, N.W. Rhodesia.		Nuttall & Warburton (1908:394), original description, p. 395 cited host as <u>Cynocephalus babuin</u> Cited: Nuttall & Warburton (1911: 194). Arthur (1965: 128) indicated 2 ♂, 7 ♀ types deposited in BMNH. Lectotype designated: Keirans & Brewster (1981: 165).
	1 ♀ sent to A. S. Hirst B.M. (NH) 1 ♂, 1 ♀ to London School Tropical Medicine 29.I.1908. [3 slides of ♂, ♀ & hypostome & spiracle, in balsam]		Two slides present of a ♂ & ♀

ORIGINAL DETERMINATIONCURRENT STATUS

N 246

N 246

RML 104823

Rhipicephalus masseyi ♂ & ♀21 ♂, 12 ♀ Rhipicephalus masseyi
Lectotype and paralectotypesBos cafferSyncerus caffer

Kansanshi, N.W. Rodesia

Kansanshi (12.05 S, 26.25 E), Zambia

1907

1907

2 ♀, 2 ♂ returned to London
Sch. Trop. Med.
1♂, 1 ♀ to Prof. Dönitz, Berlin
1 ♂, 1 ♀ to A. S. Hirst BM(N.H.)
[3 slides ♂, ♀'s mounted in balsam]
Ticks sent by Dr. A. Yale Massey
of Tanganyika Concessions, Ltd.,
Kansanshi, N.W. Rhodesia

2 ♀ on slide, 1♂ on slide, ♀ digits
on slide, 1 ♀ vulva on slide.
Nuttall & Warburton (1908: 404),
original description based on 31 ♂,
21 ♀. This type series of R. masseyi
also contains 1 ♀ Rhipicephalus kochi
and 1 ♀ Rhipicephalus hurti. Both
determinations tentative because
neither specimen is typical.
Lectotype designated: Keirans &
Brewster (1981: 170).

N 247

N 247 MISSING

Rhipicephalus annulatus var.
decoloratus

Cattle

Ticks sent by Dr. A. Yale Massey
of Tanganyika Concessions, LTD.,
Kansanshi, N.W. Rhodesia
"have been recognized [as such] by
Professor Neumann" Toulouse,
France (for Museum, Lond. Sch.
Trop. Med.).

ORIGINAL DETERMINATIONCURRENT STATUS

N	248a, b	N	248b
		RML	104824
	(a) <u>Boophilus decoloratus</u>		(a) MISSING
	(b) <u>Rhipicephalus capensis</u> var. <u>compositus</u>		(b) 11 ♂, 11 ♀ <u>Rhipicephalus</u> <u>compositus</u>
	Cattle		Cattle
	Kansanshi		Kansanshi (12.05 S, 26.25 E), Zambia
	Ticks sent by Dr. A. Yale Massey of Tanganyika Concessions, Ltd., Kansanshi N.W. Rhodesia. 1 ♂, 1 ♀ sent to Col. A. Alcock FRS, London Sch. Trop. Med. 26.I.1910.		
	249-252. Ticks sent by Dr. P. H. Ross, from Nairobi, British East Africa. He says we may keep the specimens but he desires them identified and the diagnoses sent him, in accordance with his numbers. They were collected by him and Mr. Simpson (Gov't. Veterinary Bacteriologist):		
N	249	N	249
		RML	104825
	<u>Amblyomma petersi</u> 1 ♂		1 ♂ <u>Amblyomma sparsum</u> (tentative ID) (A pinned specimen)
	Rhinoceros		Probably <u>Diceros bicornis</u>
			Probably Kenya
	P. H. Ross & Mr. Simpson		P. H. Ross & Mr. Simpson
	Sent by Dr. P. H. Ross from Nairobi, British East Africa. Ross No. "2"		
			Cited: Robinson (1926: 90).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	250	N	250
		RML	104826
	<u>Amblyomma personatum</u> 2 ♂		2 ♂ <u>Amblyomma personatum</u> pinned specimens
	Rhinoceros		Probably <u>Diceros bicornis</u>
			Probably Kenya
	P. H. Ross & Mr. Simpson		P. H. Ross & Mr. Simpson
	Sent by Dr. P. H. Ross from Nairobi British East Africa. Ross No. "1"		Cited: Robinson (1926: 260).
N	251	N	251
		RML	104827
	<u>Dermacentor rhinocerotis</u>		3 ♂ <u>Dermacentor rhinocerinus</u>
	Rhinoceros		Probably <u>Diceros bicornis</u>
			Probably Kenya
	P. H. Ross & Mr. Simpson		P. H. Ross & Mr. Simpson
	Sent by Dr. P. H. Ross from Nairobi British East Africa. Ross No. "3"		Pinned specimens
N	252	N	252
		RML	104828
	<u>Hyalomma aegyptium</u> ? 1 ♂		1 ♂ <u>Hyalomma rufipes</u> pinned specimen
	cattle		Cattle
	Lamu		Lamu (02.16 S, 40.54 E), Kenya
	P. H. Ross & Mr. Simpson		P. H. Ross & Mr. Simpson
	Sent by Dr. P. H. Ross from Nairobi British East Africa Ross No. "4"		

ORIGINAL DETERMINATIONCURRENT STATUS

N 253 N 253 MISSING

Argas persicus

Rec'd IV.1907

Rec'd from Dr. E. A. Johnson
Adelaide, South Australia

Found associated with
spirochaetosis in fowls

N 254 N 254 MISSING

Hyalomma aegyptium ♂'s & ♀'s

Scrotum of bullock

Nowshera, India

16.IV.1907

Rec'd from Col. Skinner, R.A.M.C.

N 255 N 255 MISSING

Hyalomma aegyptium ♂'s & ♀'s

Scrotum of bullock

Nowshera, India

16.IV.1907

Rec'd. from Col. B. Skinner, R.A.M.C.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	256	N	256
		RML	104829
	<u>Hyalomma aegyptium</u> ♂'s & ♀'s		7 ♂, 4 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Scrotum of bullock		Scrotum of bullock
	Nowshera, India		Nowshera (34.01 N, 71.59 E), Pakistan
	16.IV.1907		16.IV.1907
	Rec'd from Col. B. Skinner, R.A.M.C.		Rec'd from Col. B. Skinner, R.A.M.C.
			Cited: Kaiser & Hoogstraal (1964: 272).
N	257	N	257
		RML	104830
	<u>Hyalomma aegyptium</u> ♂'s & ♀'s		1 ♂, 2 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Between mammary glands of ♀ pony		Between mammary glands of ♀ pony
	Nowshera, India		Nowshera (34.01 N, 71.59 E), Pakistan
	18.IV.1907		18.IV.1907
	Rec'd from Col. B. Skinner, R.A.M.C.		Rec'd from Col. B. Skinner, R.A.M.C.
N	258	N	258 MISSING
	<u>Hyalomma aegyptium</u> ♂'s		
	Ponies		
	Nowshera, India		
	18.IV.1907		
	Rec'd from Col. B. Skinner, R.A.M.C.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	259	N	259
		RML	104831
	<u>Hyalomma aegyptium</u> ♂'s		5 ♂ <u>Hyalomma anatolicum anatolicum</u>
	Scrotum of bullock		Scrotum of bullock
	Peshawar City, India		Peshawar City (34.02 N, 71.37 E), Pakistan
	20.IV.1907		20.IV.1907
	Rec'd from Col. B. Skinner, R.A.M.C.		Rec'd from Col. B. Skinner, R.A.M.C.
	Lice of the genus <u>Haematopinus</u> also collected		Vial label indicates host as buffalo
N	260	N	260 MISSING
	<u>Hyalomma aegyptium</u> ♂'s ♀		
	Mammary gland of mare		
	Peshawar City, India		
	20.IV.1907		
	Rec'd from Col. B. Skinner, R.A.M.C.		
N	261	N	261 MISSING
	<u>Hyalomma aegyptium</u> ♂ & ♀		
	Scrotum of bullock		
	Peshawar City, India		
	20.IV.1907		
	Rec'd from Col. B. Skinner, R.A.M.C.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	262	N	262
		RML	104832
	<u>Ixodes hexagonus</u> 3 ♀		1 ♀ <u>Ixodes hexagonus</u>
	Dog		Dog
	Cambridge		Cambridge (52.12 N, 00.08 E), England
	15.V.1907		15.V.1907
	Dr. G. S. Haynes		Dr. G. S. Haynes
			Cited: Nuttall & Warburton (1911:182).
N	263	N	263
		RML	104833
	<u>Hyalomma syriacum</u> 1 ♂		1 ♂ <u>Hyalomma aegyptium</u>
	Healthy garden tortoise		Healthy garden tortoise
	The Master's Lodge, Spalding, England		The Master's Lodge, Spalding (52.47 N, 00.09 W) England
	V.1907		V.1907
	Mr. S. H. Perry		Mr. S. H. Perry
N	264	N	264
		RML	104834
	<u>Argas persicus</u>		1 N, 39 L <u>Argas persicus</u>
	Infected (spirochaetosis) fowl run		Infected (spirochaetosis) fowl run
	Probably Kasauli, India		Probably Kasauli (30.53 N, 76.57 E), India
	Sent alive 4.V.1907, rec'd 25.V.1907		Sent alive 4.V.1907, rec'd 25.V.1907
	Sent by Capt. E.D.W. Greig, IMS		Sent by Capt. E.D.W. Greig, IMS
	[1 ♂, 2 ♀ mounted dry in cell on slide]		Slide missing. Collection in two vials.

ORIGINAL DETERMINATIONCURRENT STATUS

N	265	N	265
		RML	104835
	<u>Hyalomma syriacum</u> ♂'s & ♀'s (one small ♂)		11 ♂, 3 ♀ <u>Hyalomma aegyptium</u>
	Large tortoise		Large tortoise
	Cambridge		Cambridge (52.12 N, 00.08 E), England
	24.V.1907		24.V.1907
	Rec'd from Prof. James Ward		Rec'd from Prof. James Ward
	1 ♂, 1 ♀ to Dr. H. De B Aragao, Brazil 23.I.1910		
266-291. <u>California Ticks</u> : 26 tubes of ticks received 30.V.1907, from Professor Vernon L. Kellogg, Zoological Dept., Leland Stanford Junior University, California, U.S.A., being their <u>whole</u> collection. To be determined and mostly returned.			
N	266	N	266 MISSING
	<u>Dermacentor variabilis</u> ?		Vernon Lyman Kellogg (1867-1937) Professor of Zoology, Stanford University, Mallophaga authority and charter member, Entomological Society of America.
	Short-tailed wild cat		
	Monterey, California		
	6.VIII.1895		
	(slide)		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	267	N	267
	<u>Ixodes brunneus</u> ♀	RM1	104836
	" <u>Carpidacus puilatus</u> " ?		1 ♀ <u>Ixodes brunneus</u>
	Palo Alto California		<u>Carpodacus</u> sp.
	2.V.1891		Palo Alto (37.21 N, 122.07 W), California
	Snodgrass		2.V.1891
			Snodgrass
			Cited: Nuttall & Warburton (1911:1912)
N	268	N	268 MISSING
	<u>Dermacentor variegatus</u> ?♀		
	Long Bridge, San Gregorio, California		
	10.VII.1896		
	F. J. Jack		
N	269a-c	N	269 MISSING
	(a) <u>Dermacentor variegatus</u> ?♂'s		
	(b) Fleas, etc.		
	(c) <u>Ixodes ricinus</u> ♂ & N's		
	Fox		
	Palo Alto, California		
	III.1895		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	270	N	270
		RML	104837
	<u>Ixodes texanus</u> 1 ♀		1 ♀ <u>Ixodes texanus</u>
	Californian grey squirrel		Californian grey squirrel
	King's River, California		King's River (approximately 36.18 N, 119.52 W), California
	25.VII.1896		25.VII.1896
			Nuttall, et al. (1911: 215) figured this specimen and N992. The specimens are both correct but the captions are beneath the wrong figures. On pg. 216 he indicated 2 ♀ present but both catalogue and vial label read 1 ♀.
N	271	N	271 MISSING
	<u>Dermacentor albipictus</u> ♂ ♀		
	Horse		
	Menlo Park, California		
	VI.1892		
	W.G.F.		
	[A ♂ ♀ mounted as a slide ♂ ♀ spiracles ditto] C. W. det. I.1915		
N	272	N	272 MISSING
	<u>Ixodes ricinus</u> ♂, ♀'s		
	Mountain lion		
	14.XII.1894		
	Gilroy collection		
	[♂ ♀ mounted in balsam on a slide]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	273	N	273
	<u>Argas persicus</u>	RML	104838
	Chickens		1 ♀ <u>Argas sanchezi</u>
	Merced, California		Chickens
	VII.1894		Merced (37.18 N, 120.29 W), California
	E. M. Ehrhorn		VII.1894
	(2 ♀ & 1 N kept 1 ♀ large! 10.4 x 6.3 mm.)		E. M. Ehrhorn
N	274	N	274 MISSING
	<u>Dermacentor</u>		
	Horse		
	Palo Alto, California		
	22.I.1895		
N	275	N	275 MISSING
	<u>Ixodes</u> sp. N.		
	Ear of ring-tailed cat		
	Santa Rosa, California		
	3.X.1895		
N	276	N	276 MISSING
	<u>Dermacentor</u> ♀'s		
	Probably California		
	No locality label		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	277 <u>Dermacentor</u> Dog Palo Alto, California 15.IV.1897 Dr. Jenkins	N	277 MISSING
N	278 <u>Ixodes brunneus</u> 1 ♀ Probably California With feather attached No locality label	N	278 MISSING
N	279 <u>Ixodes brunneus</u> 1 ♀ <u>Cyancitta stelleri frontalis</u> 15.XII.1895 R. E. Snodgrass Type of <u>Ixodes kelloggi</u> Nutt. & Warb. I.1908 since condemned	N	279 RML 104839 1 ♀ <u>Ixodes brunneus</u> slide of ♀ capitulum <u>Cyanocitta stelleri</u> California 15.XII.1895 R. E. Snodgrass Nuttall & Warburton (1908: 396), original description of <u>I. kelloggi</u> . Cited: Nuttall & Warburton (1911: 192). Paralectotype designated: Keirans & Brewster (1981: 166).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	280	N	280
		RML	104840
	<u>Ixodes brunneus</u> 1 ♀		1 ♀ <u>Ixodes brunneus</u> Lectotype of <u>Ixodes kelloggi</u>
	Thrush		Thrush
	Palo Alto, California		Palo Alto (37.21 N, 122.07 W), California
	14.XI.1895		14.XI.1895
			Cited: Nuttall & Warburton (1911: 192). Lectotype designated: Keirans & Brewster (1981: 166).
N	281	N	281 MISSING
	<u>Amblyomma</u> sp.? N's and larvae		
	<u>Amevia surinamensis</u>		
	McLane		
	Panama Coll, Zoological Museum Near <u>A. laticutatum</u>		
N	282	N	282
		RML	104841
	<u>Ixodes brunneus</u> 2 ♀		2 ♀ <u>Ixodes brunneus</u>
	<u>Piranga ludoviciana</u>		<u>Piranga ludoviciana</u>
	Sunol, California		Sunol (37.36 N, 121.53 W), California
	20.V.1896		20.V.1896
	(rostrum mutilated)		Cited: Nuttall & Warburton (1911:192).

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	283	N	283
		RML	104342
	<u>Ixodes brunneus</u> 2 ♀'s		2 ♀ <u>Ixodes brunneus</u>
	<u>Habia melanocephala</u>		<u>Habia melanocephala</u> (name not verified)
	Sunol, California		Sunol (37.36 N, 121.53 W), California
	20.V.1896		20.V.1896
			Cited: Nuttall & Warburton (1911: 192); Arthur (1952: 152).
N	284	N	284
		RML	104343
	<u>Ixodes angustus</u> 1 ♀		1 ♀ <u>Ixodes angustus</u>
	<u>Scuirus</u>		<u>Scuirus</u> sp.
	La Honda, California		La Honda (37.19 N, 122.16 W), California
	3.II.1895		3.II.1895
			Nuttall & Warburton (1911: 198) cited V. L. Kellogg as the collector.
N	285	N	285 MISSING
	<u>Ixodes</u> sp ? N		
	<u>Turdus ustulatus</u>		
	Palo Alto, California		
	2.V.1896		
	R. E. Snodgrass		
N	286	N	286 MISSING
	<u>Ixodes ricinus</u>		
	Probably California		
	No locality label		

ORIGINAL DETERMINATIONCURRENT STATUS

N	287	N	287	MISSING
	<u>Amblyomma</u> sp ? N's & larvae			
	<u>Amevia surinamensis</u>			
	McLane			
	From Zoological Coll. Panama			
N	288	N	288	
		RML	104844	
	<u>Ornithodoros coriaceus</u> (9 ♀, 7 ♂ kept 3 ♂, 4 ♀)		2 ♂, 1 ♀ <u>Ornithodoros coriaceus</u>	
	Los Olivos, California		Los Olivos (34.41 N, 120.08 W) California	
	VIII.1904		VIII.1904	
	H. A. Moran		H. A. Moran	
	[1 ♀ mounted dry in cell on slide] Some sent to W. F. Cooper 22.I.1910		Slide missing. Nuttall's notebook on ticks sent away indicated that the collection date was VII.1904.	
N	289	N	289	
		RML	104845	
	<u>Amblyomma dissimile</u> ♂'s ♀'s		1 ♂, 2 ♀ <u>Amblyomma dissimile</u>	
	Boa		Boa	
	Panama		Panama	
	13.I.1896		13.I.1896	
	R.C.M.		R.C.M.	

ORIGINAL DETERMINATIONCURRENT STATUS

N	290	N	290
		RML	10846
	<u>Ixodes signatus</u> 3 ♀, 1 N, 1 L		3 ♀, 1 N, 1 L <u>Ixodes signatus</u>
	Brandt's cormorant		<u>Phalacrocorax penicillatus</u>
	Pacific Grove, California		Pacific Grove (36.38 N, 121.57 W), California
	1894		1894
	(1 ♀ to be returned to Kellogg) 1♀ removed to give in exchange to British Museum (Nat. Hist.) 17.XI.32. Note what rec'd in exch. for this <u>Ix. signatus</u> = <u>Ix. nairobiensis</u> Nuttall.		The ♀ <u>I. signatus</u> given to the BMNH has accession number 1921.11.29.3. Note in vial: compared with Nn's <u>Ixodes parvirostris</u> & specimens in Hamburg & Washington (B.A.I.) G.H.F.N. VII.1916. The 1♀ returned to Dr. Kellogg was subsequently donated to the RML Collection by Dr. G. F. Ferris of Stanford University and given RML numbers 39115 and 50538.
N	291	N	291 MISSING
	<u>Ixodes ricinus</u>		
	Mouse		
	Palo Alto, California		
	18.III.1893		
N	292	N	292 MISSING
	<u>Ornithodoros</u>		
	Young nestling cormorant		
	Guernsey		
	VII.1898		
	Dr. G. S. Graham-Smith		
	[4 slides of larvae mounted in balsam]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 293

Haemaphysalis N's & larvae

Cat

Sarawak, Borneo

Sent V.1907

Sent by Dr. A. R. Wellington

N 293

RML 104847

26 N, 33 L Haemaphysalis sp.

Cat

Sarawak

Sent V.1907

Sent by Dr. A. R. Wellington

N 294

Haemaphysalis wellingtoni

Fowls

Sarawak, Borneo

Sent V.1907

Sent by Dr. A. R. Wellington

[a N mounted in balsam on
a slide]1 ♂, 1 ♀ to Prof. Dönitz,
Berlin1 ♂, 1 ♀ to L. O. Howard,
U.S.D.A. 21.V.1909

1 ♂ to C. Strickland, Malaya

1 ♂, 1 ♀ to A. S. Hirst, BM(NH)

N 294

RML 104848

7 ♂, 3 ♀, 9 N Haemaphysalis
wellingtoni

Fowls

Sarawak

Sent V.1907

Sent by Dr. A. R. Wellington

Slide missing.

The specimens sent to L. O. Howard
are now in the RML collection.

Cited: Moritz & Fischer (1981: 363).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	295	N	295
		RML	104849
	<u>Haemaphysalis papuana</u>		1 ♀ <u>Haemaphysalis papuana</u>
	Dog		Dog
	Sarawak, Borneo		Sarawak
	Sent 11.VII.1907		Sent 11.VII.1907
	Sent by Dr. Daniels (who received it from Dr. A. R. Wellington)		Sent by Dr. Daniels (who received it from Dr. A. R. Wellington)
N	296	N	296
		RML	104850
	<u>Boophilus australis ?</u>		1 ♂, 2 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Sarawak, Borneo		Sarawak
	Sent 11.VI.1907		Sent 11.VI.1907
	Sent by Dr. Daniels (who received it from Dr. A. R. Wellington)		Sent by Dr. Daniels (who received it from Dr. A. R. Wellington)
N	297	N	297
		RML	104851
	<u>Rhipicentor bicornis</u>		1 ♀ <u>Rhipicentor bicornis</u>
	Found in a house		Found in a house
	Kansanshi, N.W. Rhodesia		Kansanshi (12.05 S, 26.25 E), Zambia
	Rec'd. 11.VI.1907		Rec'd. 11.VI.1907
	Dr. A. Yale Massey		Dr. A. Yale Massey
	Said to have habits similar to <u>Ornithodoros moubata</u> . Dr. Daniels writes further (13.VI.1907) "Massey is said to be a careful man." The tick doubtless found in native hut.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	298	N	298	MISSING
	<u>Ixodes hexagonus</u>			
	Stoat, <u>Putorius erminea</u>			
	No doubt British			
	Gift of Hon. N. C. Rothschild			
	12 slides (R1000-1011)			
	I larva			
	II-VI nymphs			
	VII-XII ♀'s unfed & fed			
	299-303. Ticks received from Colonel B. Skinner, R.A.M.C., Nowshera, India, June 1907:-			
N	299	N	299	
		RML	104852	
	<u>Rhipicephalus sanguineus</u>		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>	
	Breast of fox terrier bitch		Breast of fox terrier bitch	
	Nowshera Cantonments, India		Nowshera (34.01 N, 71.59 E), Pakistan	
	28.IV.1907		28.IV.1907	
N	300	N	300	
		RML	104853	
	<u>Hyalomma aegyptium</u>		4 ♂, 3 ♀ <u>Hyalomma anatolicum anatolicum</u>	
	Between tail and rectum of a buffalo		Between tail and rectum of a buffalo	
	Nowshera City, India		Nowshera (34.01 N, 71.59 E), Pakistan	
	3.V.1907		3.V.1907	

ORIGINAL DETERMINATIONCURRENT STATUS

N	301	N	301
		RML	104854
	<u>Hyalomma aegyptium</u>		1 ♂, 5 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Horse		Horse
	Nowshera City, India		Nowshera (34.01 N, 71.59 E), Pakistan
	3.V.1907		3.V.1907
N	302	N	302
		RML	104855
	<u>Rhipicephalus sanguineus</u>		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Grass in public garden		Grass in public garden
	East end of Nowshera Contonments, India		Nowshera (34.01 N, 71.59 E), Pakistan
	10.V.1907		10.V.1907
N	303	N	303 MISSING
	<u>Hyalomma aegyptium</u>		
	Bullock		
	Nowshera City, India		
	3.V.1907		

ORIGINAL DETERMINATIONCURRENT STATUS

N 304

N 304

RML 104856

Haemaphysalis punctata ♀1 ♀ Haemaphysalis punctata

Sheep

Sheep

Brooklands Farm, New Church
New Romney, KentBrooklands Farm, New Church
New Romney (50.59 N, 00.56 E)
Kent, England

IV.1907

IV.1907

Sent by Professor R. T. Hewlett

Sent by Professor R. T. Hewlett

Cited: Nuttall & Warburton
(1915: 384).

N 305, a

305, a MISSING

(305) Boophilus annulatus? ♀(a) Amblyomma sp. N's

Off collector's clothes

Las Penas, Banderas Bay
West Coast of Mexico about
Lat. 20 N.

20.IV.1907

Maj. C. Ashburnham

"They seem to swarm there. In
fact, it is difficult to avoid them
if you go into the bush off the
road."

ORIGINAL DETERMINATIONCURRENT STATUS

N	306	N	306
		RML	104857
	<u>Boophilus decoloratus</u> (all stages)		363 ♂, 77 ♀, 107 N, 87 L, 1 vial eggs <u>Boophilus decoloratus</u>
	Cow		Cow
	Origin Cape Colony, S. Africa		Origin Cape Colony, Republic of South Africa
	VII.1907		VII.1907
	Sent by Mr. C. P. Lounsbury		Sent by Mr. C. P. Lounsbury
	Reared at Cambridge from larvae [23 slides, balsam mounts all stages ♂, ♀, N, L]		Slides missing. 2♂, 2♀ sent to Dr. Fred C. Bishopp are now in the RML Collection (Bishopp 426).
N	307a, b	N	307a, b
		RML	104858
	(a) <u>Boophilus australis</u>		(a) 1 ♂, 1 ♀, 1 N <u>Boophilus microplus</u>
	(b) <u>Haemaphysalis bispinosa</u>		(b) 1 ♀ <u>Haemaphysalis bispinosa</u>
	Wild red-deer		Wild red-deer
	Kuching, Sarawak, Borneo		Kuching (01.32 N, 110.19 E) Sarawak, Malaysia
	Sent VII.1907		Sent VII.1907
	Sent by Dr. A. R. Wellington		Sent by Dr. A. R. Wellington
			(b) Cited: Nuttall & Warburton (1915: 433); Hoogstraal et al. (1969: 1076).

ORIGINAL DETERMINATIONCURRENT STATUS

N 308

Amblyomma helvolum

Python

Kuching, Sarawak, Borneo

VII.1907

Dr. A. R. Wellington

N 308

RML 104859

1 ♀ Amblyomma helvolumPython sp.Kuching (01.32 N, 110.19 E),
Sarawak, Malaysia

VII.1907

Dr. A. R. Wellington

Cited incorrectly as N 303
by Robinson (1926: 219).

N 309

Haemaphysalis papuana

Pig

Kuching, Sarawak, Borneo

VII.1907

Dr. A. R. Wellington

1 ♂ to C. Strickland, Malaya
1 ♂ to A. S. Hirst, B.M.(N.H.)

N 309

RML 104860

1 ♂, 1 ♀ Haemaphysalis papuanaSus scrofaKuching (01.32 N, 110.19 E)
Sarawak, Malaysia

VII.1907

Dr. A. R. Wellington

Cited: Nuttall & Warburton (1915:
407); Trapido et al. (1964a: 178);
Hoogstraal et al. (1969: 1076)
cited 1 ♂ Haemaphysalis bispinosa
(Nuttall 309) from a "dog". I have
not seen this specimen.

ORIGINAL DETERMINATIONCURRENT STATUS

N 310

N 310 MISSING

Haemaphysalis leachi

Large man-eating male lion

Katanga Dist., Congo Free State,
Lualaba River, 10°40' S Lat.

Sent 27.VII.1907

Dr. A. Yale Massey

1 ♂, 1 ♀ to Dr. J. G. Parham
Portuguese East Africa 18.IV.1913.
1 ♂, 1 ♀ to N.Y. National Museum
18.IV.1913.

N 311

N 311

RML 104861

Amblyomma pomposum ♂1 ♂ Amblyomma pomposum

Ox

Ox

Katanga Dist., Congo Free State,
Lualaba River 10°40' S. Lat.Katanga Dist. (10.40 S, 27.00 E),
Lualaba River, Zaire

27.VII.1907

27.VII.1907

Sent by Dr. A. Yale Massey

Sent by Dr. A. Yale Massey

(Note: Wants diagnosis sent him.
Has sent specimens to Neumann
hitherto, but wants to "patronize
our own schools henceforth."
Neumann named 4 new spp. off
horse sent him by Massey, viz.
Rhipicephalus lunulatus,
R. supertritus, R. attenuatus.
and R. gladiger).

Cited: Robinson (1926: 100).

312-319. Ticks sent by Dr. H. A. Ballou, of the Imperial Department of Agriculture, Barbados, West Indies, 20.II.1907.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	312	N	312
		RML	104862
	<u>Boophilus australis</u>		7 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	Barbados, W. Indies		Barbados (13.10 N, 59.32 W), West Indies
	20.II.1907		20.II.1907
	H. A. Ballou		H. A. Ballou
N	313	N	313 MISSING
	<u>Argas persicus</u>		
	Fowls		
	Trinidad		
	17.VIII.1901		
	G. H. Hart		
N	314	N	314 MISSING
	<u>Boophilus australis</u>		
	Cow		
	Barbados		
	II.1907		
	H. A. Ballou		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	315	N	315 MISSING
	<u>Argas persicus</u> , larvae		
	Fowl, attached to skin		
	Trinidad		
	28.V.1902		
	G. H. Hart		
N	316	N	316
	<u>Boophilus australis</u>	RML	104863
	Cattle		3 ♀, 86 L <u>Boophilus microplus</u>
	St. Philip, Barbados		Cattle
	1905		St. Philip (13.10 N, 59.32 W), Barbados
	Dr. Stoute		1905
			Dr. Stoute
N	317	N	317
	<u>Boophilus australis</u> N's	RML	104864
	Dog		2 N <u>Dermacentor</u> sp.
	Barbados		Dog
	1907		Barbados
	H. A. Ballou		1907
			H. A. Ballou

ORIGINAL DETERMINATIONCURRENT STATUS

N	318	N	318
		RML	104865
	<u>Boophilus australis</u>		2 ♂, 4 ♀, 1 N <u>Boophilus microplus</u>
	Cattle		Cattle
	Buckley's, St. Kitts, W. Indies		Buckley's, St. Kitts-Nevis-Anguilla (17.21 N, 62.48 W).
	14.III.1907		14.III.1907
	H. A. Ballou		H. A. Ballou
N	319	N	319 MISSING
	<u>Amblyomma variegatum</u>		
	Antigua		
	VII.1904		
	Mr. Lidiette		
	Labelled No. 1 Gold Ticks		

ORIGINAL DETERMINATIONCURRENT STATUS

N	320 a-f	N	320a, d, e, f
		RML	104866 and RML 66580 (for 320d only)
	(a) <u>Dermacentor rhinoceratus</u>		(a) 1 ♂, 1 ♀ <u>Dermacentor rhinocerinus</u>
	(b) <u>Amblyomma variegatum</u>		(b) MISSING
	(c) <u>Hyalomma aegyptium</u>		(c) MISSING
	(d) <u>Rhipicephalus falcatus</u>		(d) 1 ♂ <u>Rhipicephalus senegalensis</u>
	(e) <u>Rhipicephalus supertritus</u>		(e) 1 ♂, 2 ♀ <u>Rhipicephalus supertritus</u>
	(f) <u>Rhipicentor bicornis</u> 1 ♂, 1 ♀ Types		(f) 3 ♂ <u>Rhipicentor bicornis</u> Lectotype and paralectotypes
	North Nyasa British Central Africa		Malawi
	III.1907		III.1907
	Dr. J.E.S. Old		Dr. J.E.S. Old
	Old sent them to Mr. Lounsbury for identification who sent them to us to identify.		320e-Lectotype & paralectotypes of <u>R. coriaceus</u> Nuttall & Warburton (1908: 402) original description. Cited: Old (1909: 20); Santos Dias (1958: 475). Lectotype designated: Keirans & Brewster (1981: 169).
	320e Types of <u>R. coriaceus</u> Nutt. & Warb. I.1908 (= <u>R. supertritus</u> nn. 1907 [1 ♀ on slide in balsam]).		320f-One ♂ is mounted on 2 slides. Nuttall & Warburton (1908: 399) original description. Lectotype designated: Keirans & Brewster (1981: 169).
	320f. Types of <u>Rhipicentor bicornis</u> [2 slides, Type ♂ in balsam (i) body, ect. (ii) capitulum].		
N	321	N	321
		RML	104867
	<u>Rhipicentor bicornis</u> 1 ♀		1 ♀ <u>Rhipicentor bicornis</u>
	Benguella, W. Africa		Benguela (12.35 S, 13.25 E), Angola
	1907		1907
	Rec'd from Dr. F. Creighton Wellman		Rec'd from Dr. F. Creighton Wellman
			The vulva of this ♀ is mounted on a slide.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	322 <u>Ixodes hexagonus</u> 1 ♀ <u>Mustela putorius</u> ferret Probably British Gift of Hon. N. C. Rothschild R929 (Mounted in glycerin in glass cell)	N	322 MISSING
N	323 <u>Rhipicephalus sanguineus</u> Ear and neck of an old male rat (<u>Mus rattus</u>) Nowshera Cantonments N.W. Frontier Province, India Rec'd 3.VI.1907 Rec'd from Colonel B. Skinner, R.A.M.C.	N	323 RML 104868 1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u> <u>Rattus rattus</u> Nowshera (34.01 N, 71.59 E), Pakistan Rec'd 3.VI.1907 Rec'd from Colonel B. Skinner, R.A.M.C.
N	324 <u>Ixodes hexagonus</u> 3 N <u>Erinaceus europaeus</u> Probably British Gift of Hon. N. C. Rothschild (3 slides R 944-946)	N	324 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	325	N	325
	<u>Boophilus australis</u>	RML	104869
	Goat		1 ♂, 18 ♀, 3 N <u>Boophilus microplus</u>
	Sarawak, Borneo		Goat
	30.VI.1907		Sarawak, Malaysia
	Dr. A. R. Wellington		30.VI.1907
			Dr. A. R. Wellington
			Nymphs in a separate vial.
N	326	N	326 MISSING
	<u>Amblyomma personatum</u> ♀		
	Rhinoceros		Two pinned ♀ are in the
	Nairobi, British Central Africa		BMNH collection.
	Sent 1.III.1907		
	Sent by Dr. Philip H. Ross		
	See No. 250.		
N	327	N	327
	<u>Haemaphysalis bispinosa</u> var. <u>intermedia</u>	RML	104870
	Cat		2 ♀ <u>Haemaphysalis kutchensis</u>
	Agra, India		Paratypes
	Sent 14.IX.1907		Cat
	Sent by Dr. E. H. Hankin		Agra (27.11 N, 78.01 E), India
	Cotypes with 515a		Sent 14.IX.1907
			Sent by Dr. E. H. Hankin
			Hoogstraal & Trapido (1963a: 489), original description.

ORIGINAL DETERMINATIONCURRENT STATUS

N	328	N	328 MISSING
	<u>Hyalomma aegyptium</u> larvae		
	Rat (<u>Mus rattus</u>)		
	Nowshera, N.W. Frontier Province, India		
	Sent 13.VI.1907		
	Sent by Colonel B. Skinner		
	Mounted on 2 slides		
N	329	N	329
		RML	104871
	<u>Rhipicephalus capensis</u> ♂ ♀ (Type)		1 ♂, 1 ♀ <u>Rhipicephalus capensis</u>
	German S.W. Africa		Namibia
	Sent 26.X.1907		Sent 26.X.1907
	Sent by Professor W. Donitz of Berlin.		Sent by Professor W. Dónitz
	(Considers them certainly " <u>capensis</u> " in view of their source).		These specimens are not types.

ORIGINAL DETERMINATIONCURRENT STATUS

N 330

N 330

RML 105560

Rhipicephalus capensis ♂♂ ♀2 ♂ Rhipicephalus jeanneli
1 ♀ Rhipicephalus punctatus

Aruscha German East Africa

Aruscha (03.22 S, 36.41 E),
Tanzania

Sent 1907

Sent 1907

Sent by Professor W. Donitz

Sent by Professor W. Dönitz

[Dönitz writes of these: "I can't determine those otherwise than as Rhip. capensis. Neumann's Rhip. compositus from Khartoum is unknown to me from personal observation; it is stated not to have confluent punctations (if my memory serves me right). In all specimens I have examined this depends much on the illumination. If you place a ♂ horizontally & illuminate it from head end, the punctations all appear discrete. Illuminate the tick sideways and punctations appear arranged in rows & partly confluent. The Rhipicephalus from German S. W. Africa have somewhat fewer punctations than my specimens from Central Africa, & for this reason agree more closely with Rhipicephalus compositus" [Dönitz thinks that when Neumann described his R. compositus he was unable to determine the specimens from Koch's description & figures. Later he saw they were one and the same, but wishing to save his name he sought for differences which he thought to find in the punctations. If such differences exist can only be decided upon the examination of further ticks from the South, which we should get easier than he can]. He presents us with 329 and 330 for our collection. (Free translation of a letter from Prof. Dönitz by G.H.F.N. 29.X.1907)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	331	N	331
	<u>Hyalomma aegyptium</u> 4 ♂	RML	104872
	Mule		4 ♂ <u>Hyalomma anatolicum excavatum</u>
	Rhabat, Morocco		Mule
	24.IX.1907		Rhabat (34.02 N, 06.51 W), Morocco
	Major C. Ashburnham		24.IX.1907
			Major C. Ashburnham
N	332	N	332
	<u>Hyalomma aegyptium</u>	RML	104873
	The Sultan's baggage camels		8 ♀ <u>Hyalomma marginatum</u>
	Rhabat, Morocco		The Sultan's baggage camels (<u>Camelus dromedarius</u>)
	24.IX.1907		Rhabat (34.02 N, 06.51 W), Morocco
	Major C. Ashburnham		24.IX.1907
			Major C. Ashburnham
	333	N	333
	<u>Argas brumpti</u>	RML	104874
	Dakoto Valley Somaliland		1 ♀ <u>Argas brumpti</u>
	1901		Dakoto or Dakhatto Valley, Somali Democratic Republic (locality not verified)
	Dr. Brumpt		1901
	Dr. Brumpt sent this specimen, only has 4 thereof left. "He bears large scars on his body due to this tick bite. I saw the scars when I met Dr. Brumpt in Paris in 1905." Rec'd. XII.1905 G.H.F.N.		Dr. Brumpt
			The locality is spelled Dakhatto Valley in Nuttall, et al. (1908a: 33).

334-338. Ticks received from Dr. A. Yale Massey 7.I.1908, who collected them in N. W. Rhodesia.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	334	N	334
		RML	104875
	<u>Rhipicephalus</u> sp. N		1 N <u>Rhipicephalus</u> sp.
	Man		<u>Homo sapiens</u>
	N. W. Rhodesia		Zambia
	Rec'd 7.I.1908		Rec'd 7.I.1908
	Rec'd from Dr. A. Yale Massey		Rec'd from Dr. A. Yale Massey
N	335	N	335 MISSING
	<u>Hyalomma aegyptium</u> ♀		
	N.W. Rhodesia		
	Rec'd 7.I.1908		
	Rec'd from Dr. A. Yale Massey		
N	336	N	336
		RML	104876
	<u>Amblyomma pomposum</u> 2 ♂'s		2 ♂ <u>Amblyomma pomposum</u>
	Eland		<u>Taurotragus oryx</u>
	N.W. Rhodesia		Zambia
	9.IX.1907		9.IX.1907
	Rec'd from Dr. A. Yale Massey		Rec'd from Dr. A. Yale Massey

ORIGINAL DETERMINATIONCURRENT STATUS

N	337a, b	N	337a
		RML	104877
	(a) <u>Amblyomma pomposum</u>		(a) 5 ♂ <u>Amblyomma pomposum</u>
	(b) <u>Rhipicephalus capensis</u> var. <u>compositus</u>		(b) MISSING
	Buffalo		<u>Syncerus caffer</u>
	Katanga, Congo Free State		Katanga (08.00 S, 27.00 E), Zaire
	25.VIII.1907		25.VIII.1907
	Rec'd from Dr. A. Yale Massey		Rec'd from Dr. A. Yale Massey
	1 ♂, 1 ♀ of 337b sent to E. Brumpt, Paris		Cited: Santos Dias (1958: 516) as <u>Amblyomma superbum</u>
N	338	N	338
		RML	104878
	<u>Amblyomma pomposum</u>		15 ♂ <u>Amblyomma pomposum</u>
	Hartebeest		<u>Alcelaphus buselaphus</u>
	Katanga, Congo Free State		Katanga (08.00 S, 27.00 E), Zaire
	27.VIII.1907		27.VIII.1907
	Rec'd from Dr. A. Yale Massey		Rec'd from Dr. A. Yale Massey
	1 ♂ sent to R. W. Mettam Weybridge IV.1931		Cited: Robinson (1926: 100); Santos Dias (1958: 516) as <u>Amblyomma superbum</u> .
	1 ♂ sent to H. S. Purchase IV.1931		

339-345. Ticks received 9.I.1908 from R. T. Hewlett, of King's College, Strand, London. W. C., who received them from the Bacteriological Institute, Brisbane, Queensland, Australia, together with a memorandum giving the following particulars (Name ticks and return those we don't require):

N	339	N	339
		RML	104879
	<u>Ixodes fecilais</u> var. <u>aegrifossus</u> TYPES (scrub ticks) ♀♀♀		2 ♀ <u>Ixodes fecialis</u> Lectotype and paralectotype of <u>I. f. aegrifossus</u>
	Opossum		Opossum
	Tamberine Mountain, Logan River, S. E. Queensland		Tamberine Mountain, Logan River (27.43 S, 153.18 E), Queensland, Australia
	IV.1907		IV.1907
	[1 ♀'s Capitulum mounted in balsam on slide]		Warburton & Nuttall (1909: 59), original description.
			Token tube indicates a slide of of ♀ capitulum. Missing 1978. Cited: Nuttall & Warburton 1911: 250). Lectotype designated: Keirans & Brewster (1981: 166).
N	340	N	340
		RML	104880
	<u>Amblyomma triguttatum</u>		4 ♀ <u>Amblyomma triguttatum</u>
	Horse		Horse
	Albert River, Burketown		Albert River, Burketown (17.44 S, 139.22 E), Queensland, Australia
	V.1896		V.1896
			Cited: Robinson (1926: 57).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	341	N	341
	<u>Rhipicephalus sanguineus</u> ♀'s	RML	104881
	Dogs		7 ♀ <u>Rhipicephalus sanguineus</u>
	Lower Burderkin River, N. Queensland		Lower Burderkin River (19.39 S, 147.30 E), Queensland, Australia
	IX.1897		IX.1897
N	342	N	342 MISSING
	<u>Rhipicephalus sanguineus</u> 2 ♂, 1 ♀		
	Dog		
	Lower Burderkin River, N. Queensland		
	IX.1897		
N	343	N	343 MISSING
	<u>Rhipicephalus sanguineus</u> ♂ & ♀		
	Dog		
	Lower Burderkin River, N. Queensland		
	IX.1897		
	1 ♂, 1 ♀ to Prof. Hewlett Kings College, London		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	344	N	344
		RML	104882
	<u>Boophilus australis</u> ♂ & ♀'s		5 ♂, 15 ♀ <u>Boophilus microplus</u>
	Dog		Dog
	Lower Burderkin River, N. Queensland		Lower Burderkin River (19.39 S, 147.30 E), Queensland, Australia
	IX.1897		IX.1897
	1 ♂, ♀'s to Prof. Hewlett, Kings College, London.		
	1 ♂, 1 ♀ to Prof. E. Brumpt, Ecole Médécine, Paris 12.X.1922		
N	345 a - e	N	345 a - e
		RML	104883
	(a) <u>Boophilus australis</u> ♀'s		(a) 14 ♀ <u>Boophilus microplus</u>
	(b) <u>Boophilus australis</u> ♀'s		(b) 14 ♀ <u>Boophilus microplus</u>
	(c) <u>Boophilus australis</u> ♂		(c) 20 ♂ <u>Boophilus microplus</u>
	(d) <u>Boophilus australis</u> larvae & eggs		(d) ±1000 larvae & eggs mixed <u>Boophilus microplus</u>
	(e) <u>Boophilus australis</u> ♀'s		(e) 15 ♀, 3 N <u>Boophilus microplus</u>
	Cattle		Cattle
	Roper River, Northern Territory Australia		Roper River (14.43 S, 135.27 E) Northern Territory, Australia
	XII.1894		XII.1894
	(a) [♂ & ♀ mounted as slides]		
	(b) ready to oviposit. Note yellow spot.		
	(c) full-grown males		
	(e) young female cattle ticks		
	(c) 1 ♂ to C. Strickland, Malaya		
	(c) 2 ♂, 1 ♀ to Prof. Hewlett, Kings College, London		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	346	N	346
		RML	104884
	<u>Ornithodoros moubata</u>		1 ♂, 6 N <u>Ornithodoros moubata</u>
	Blantyre		Blantyre (15.47 S, 35.00 E), Malawi
	Rec'd 21.I.1908		Rec'd 21.I.1908
	Col. Leishman		Col. Leishman
	Moulted skins of 2 adults & 2 nymphs, born X.1907, first fed 11.I.1908. The living specimens (346a) he gave me were received from Blantyre in June & were fed last on 10.VIII.1907.		Also 2 vials of nymphs. William Boog Leishman (1865-1926) Medical graduate, Univ. Glasgow. Worked in India until 1895. Then worked extensively on spirochaetes of relapsing fever and it's vector, <u>Ornithodoros moubata</u> .
N	347	N	347
		RML	104885
	<u>Hyalomma syriacum</u>		2 ♂ <u>Hyalomma aegyptium</u>
	Tortoise		Tortoise
	Cambridge, England		Cambridge (52.13 N, 00.08 E), England
	Rec'd 27.I.1908		Rec'd 27.I.1908
	Rec'd from Mr. Clay		Rec'd from Mr. Clay
	1 ♂ to J. de Meza, Zomba Nyasaland 19.II.1916		

ORIGINAL DETERMINATIONCURRENT STATUS

N	348	N	348
		RML	104886
	1 ♂ <u>Ornithodoros turicata</u> COTYPE		1 ♂ <u>Ornithodoros turicata</u> SYNTYPE
	Guanajuato, Mexico		Guanajuato (21.01 N, 101.15 W), Mexico
	Sent by Dr. A. Dugès		Sent by Dr. A. Dugès
	[1 slide with tarsus 2 in balsam] Presented to me by Professor Neumann (Toulouse) 29.I.1908		♂ tarsus on slide Dugès (1876) p. 11, original description
N	349	N	349
		RML	104887
	<u>Ornithodoros coriaceus</u> 1 ♂, 2 ♀, 3 N		1 ♂, 2 ♀, 1 N <u>Ornithodoros</u> <u>coriaceus</u>
	Isthmus of Tehuantepec, Mexico		Isthmus of Tehuantepec (17.00 N, 95.00 W), Mexico
	I.1908		I.1908
	Mrs. Z. Nuttall		Mrs. Z. Nuttall
	One of the 2 large ones (arrived alive) gave her a painful bite which bled when the tick was removed & was troublesome after- wards - it bit through a stocking. The 4 small ones arrived dead. Rec'd 16.II.1908. Native name "talajas"		Mrs. Zelia Nuttall was the author of the Nuttall Codex and sister of G.H.F. Nuttall.

350-353. Ticks sent by Dr. F. Creighton Wellman from Benguella Hinterland, Angola, W. Africa (Long. E. 15°05' X Lat. S 12°44', altitude 1360 meters) received 30.XII.1907.

N	350	N	350
		RML	104888
	<u>Ixodes cavipalpus</u> 3 ♀		3 ♀ <u>Ixodes cavipalpus</u>
	Ear of Duiker bok		Ear of <u>Sylvicapra grimmia</u>
	Benguella Hinterland, Angola		Benguela (12.44 S, 15.05 E), Angola
	Rec'd 3.XII.1907		Rec'd 3.XII.1907
	Sent by Dr. F. Creighton Wellman		Sent by Dr. F. Creighton Wellman
N	351	N	351
		RML	104889
	<u>Rhipicephalus longiceps</u> TYPES		18 ♂, 2 ♀ <u>Rhipicephalus longiceps</u> Lectotype and paralectotypes.
	Klipspringer bok		<u>Oreotragus oreotragus</u>
	Benguella Hinterland, Angola (1360 meters)		Benguela (12.35 S, 13.25 E), Angola
	Rec'd 3.XII.1907		Rec'd 3.XII.1907
	Sent by Dr. F. Creighton Wellman		Sent by Dr. F. Creighton Wellman
			Warburton (1912: 11), original description
			1 ♂ of the above total is in the tick abnormalities jar and cited by Nuttall (1914a: 253).
			Santos Dias (1958: 478) listed 12 ♂, 1 ♀ present in this collection. Lectotype designated: Keirans & Brewster (1981: 170).

ORIGINAL DETERMINATIONCURRENT STATUS

N 352

Rhipicephalus appendiculatus ♂ ♀

African rabbit (or hare)

Benguela Hinterland, Angola

Rec'd 30.XII.1907

Sent by Dr. Creighton Wellman

1 ♂, 1 ♀ to W. D. Hunter, U.S.D.A.
Washington

N 353

Ixodes cavipalpus ♂

native baby

Benguela Hinterland, Angola

Rec'd 30.XII.1907

Sent by Dr. F. Creighton Wellman

N 352

RML 64000

8 ♂, 4 ♀ Rhipicephalus punctatus

African rabbit (or hare)

Benguela (12.44 S, 15.05 E), Angola

Rec'd 30.XII.1907

Sent by Dr. F. Creighton Wellman

1 ♂, 1 ♀ are in the RML
collection (Bishopp 431)

N 353

RML 104890

1 ♂ Ixodes cavipalpus

Homo sapiens (native baby)

Benguela (12.44 S, 15.05 E), Angola

Rec'd. 30.XII.1907

Sent by Dr. F. Creighton Wellman

Cited: Nuttall & Warburton
(1911: 194).

ORIGINAL DETERMINATIONCURRENT STATUS

N	354	N	354
	<u>Argas reflexus</u>	RML	104891
	Magdeburg, Germany		1 ♂ <u>Argas reflexus</u>
	27.II.1908		Magdeburg (52.10 N, 11.40 E), Democratic Republic of Germany
	Sent by Dr. Fulleborn of Hamburg		27.II.1908
	[mounted skin, last stage nymph, dorsum on slide in balsam]		Sent by Dr. Fulleborn of Hamburg
N	355	N	355 MISSING
	<u>Ixodes ricinus</u>		
	Wild cat		
	Invernesshire, Scotland		
	25.IV.1907		
	Rec'd from Dr. E. A. Wilson		
N	356	N	356
	<u>Ixodes tenuirostris</u> larvae	RML	104892
	Ear of <u>Sorex minutus</u>		4 L <u>Ixodes trianguliceps</u>
	Grippetts, Gloucestershire, England		Ear of <u>Sorex minutus</u>
	12.I.1908		Grippett's, Gloucestershire (51.50 N, 02.15 W), England
	Dr. E. A. Wilson		12.I.1908
			Dr. E. A. Wilson
			I did not mount any of these specimens on slides so the ID must be considered tentative. Cited: Nuttall & Warburton (1911: 248); Thompson (1968: 146).

ORIGINAL DETERMINATIONCURRENT STATUS

N 357

Ixodes hexagonus

i larva

ii nymph

raised in laboratory
(Cambridge, England)

[2 slides in balsam]

N 357 MISSING

N 358

Ixodes hexagonus 2 ♂

Hedgehog

Grantchester, Cambs.

Dissection of parts 4 slides

i-iv some fig in ticks

Part [2 slides]

N 358 MISSING

N 359

Ornithodoros moubata eggs,
larval skins, nymphs of 1st stage

Raised in Cambridge laboratory

Rec'd IV.1907

Rec'd from Mr. Newstead
(School of Trop. Med.) Liverpool

N 359

RML 104893

One vial of eggs Ornithodoros
moubata

Originally from Africa

Rec'd IV.1907

Rec'd from Mr. Newstead
(School of Trop. Med.) Liverpool

ORIGINAL DETERMINATIONCURRENT STATUS

N	360	N	360
		RML	104894
	<u>Ixodes nitens</u> 1♀ COTYPE		1 ♀ <u>Ixodes nitens</u> SYNTYPE
	<u>Mus macleari</u>		<u>Rattus macleari</u>
	Christmas Island, Pacific Ocean		Christmas Island (10.30 S, 105.40 E).
	Hon. N. C. Rothschild		Hon. N. C. Rothschild
	(ex Shipley's coll. "No. 2")		Neumann (1904: 460), original description. Cited: Nuttall & Warburton (1911: 185).

361-366. Ticks received from Dr. A. Theiler, Government Veterinary Bacteriologist, Dept. of Agriculture, Pretoria, Transvaal, S. Africa; II.1908.

N	361	N	361	MISSING
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Rhipicephalus evertsi N's

No data re host

Pretoria, Transvaal, South Africa

Rec'd II.1908

Rec'd from Dr. A. Theiler

N	362	N	362	MISSING
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Hyalomma aegyptium ♂, ♀'s
(unfed), ♀'s (gorged)

No data re host

Pretoria, Transvaal, South Africa

Rec'd II.1908

Rec'd from Dr. A. Theiler

ORIGINAL DETERMINATIONCURRENT STATUS

N	363	N	363	MISSING
	<u>Rhipicephalus appendiculatus</u> Tarvae (gorged)			
	No data <u>re</u> host			
	Pretoria, Transvaal, South Africa			
	Rec'd II.1908			
	Rec'd from Dr. A. Theiler			
N	364	N	364	MISSING
	<u>Rhipicephalus evertsi</u> 1 ♂, 4 ♀			
	No data <u>re</u> host			
	Pretoria, Transvaal, South Africa			
	Rec'd II.1908			
	Rec'd from Dr. A. Theiler			
N	365	N	365	
		RML	104895	
	<u>Rhipicephalus appendiculatus</u> N's (unfed)		22 N <u>Rhipicephalus appendiculatus</u>	
	No data <u>re</u> host		No data <u>re</u> host	
	Pretoria, Transvaal, South Africa		Pretoria (25.45 S, 28.10 E), Transvaal, Republic of S. Africa	
	Rec'd II.1908		Rec'd II.1908	
	Rec'd from Dr. A. Theiler		Rec'd from Dr. A. Theiler	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	366	N	366
		RML	104896
	<u>Hyalomma aegyptium</u> larvae		±2000 L <u>Hyalomma</u> sp.
	No data <u>re</u> host		No data <u>re</u> host
	Pretoria, Transvaal, South Africa		Pretoria (25.45 S, 28.10E), Transvaal, Republic of S. Africa
	Rec'd II.1908		Rec'd II.1908
	Rec'd from Dr. A. Theiler		Rec'd from Dr. A. Theiler
N	367	N	367
		RML	66620
	<u>Rhipicephalus bursa</u> , all stages		1 ♂, 4 N, 1 L <u>Rhipicephalus bursa</u>
	Bucharest, Roumania		Bucharest (44.26 N, 26.06 E), Roumania
	Sent 19.II.1908		Sent 19.II.1908
	Sent by Prof. C. S. Motas		Sent by Prof. C. S. Motas
N	368	N	368
		RML	104897
	<u>Rhipicephalus neavei</u> 1 ♀		1 ♀ <u>Rhipicephalus kochi</u>
	Cattle		Cattle
	Makindani, German, East Africa		Mikindani, now Mtwara (10.16 S, 40.11 E), Tanzania
	Sent 7.III.1908		Sent 7.III.1908
	Sent by Professor W. Dönitz		Sent by Professor W. Dönitz
	[To compare with our <u>Rhip.</u> <u>masseyi</u> & to keep].		

ORIGINAL DETERMINATIONCURRENT STATUS

N	369	N	369
		RML	104898
	<u>Ornithodoros tholozani</u> ♂ ?		1 ♂ <u>Ornithodoros lahorensis</u>
			Sheep
			India
	Rec'd V.1907		Rec'd V.1907
	Rec'd from Mr. R. Newstead, School of Trop. Med., Liverpool		Rec'd from Mr. R. Newstead, School of Trop. Med., Liverpool
	[Described as <u>O. lahorensis</u> by Neumann, 1908, we determined it as <u>O. tholozani</u>]		Host and locality data were on vial label but not entered in the catalogue.

370-373. Ticks received 31.III.1908, from Dr. P. Hood, Senior Medical Officer, Bathurst, Colony of Gambia.

N	370	N	370
		RML	104899
	<u>Hyalomma aegyptium</u>		14 ♂, 4 ♀ <u>Hyalomma rufipes</u>
	Cattle		Cattle
	Gambia		Gambia
	1.II.1908		1.II.1908
	Dr. P. Hood		Dr. P. Hood
	1 ♂, 1 ♀ to J. deMeza, Zomba, Nyasaland 19.II.1916		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	371	N	371
		RML	104900
	<u>Rhipicephalus sanguineus</u> ♂'s, ♂'s		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Gambia		Gambia
	16.II.1908		16.II.1908
	Dr. P. Hood		Dr. P. Hood
	"brownny-red" of collection		Specific locality taken from vial label.
N	372a-c	N	372a, b
		RML	104901
	(a) <u>Boophilus decoloratus</u> 1 ♂, many ♀'s		(a) 23 ♀ <u>Boophilus decoloratus</u>
	(b) <u>Hyalomma aegyptium</u> 2 ♂, many ♀'s		(b) 1 ♀ <u>Hyalomma truncatum</u>
	(c) <u>Amblyomma variegatum</u> 1 ♂		(b) 1 ♀ <u>Hyalomma rufipes</u>
	Fawn-colored cow		(b) 11 N <u>Hyalomma</u> sp.
	Gambia		(c) MISSING
	20.II.1908		Cow
	Dr. P. Hood		Banjour (13.27 N, 16.35 W), Gambia
			20.II.1908
			Dr. P. Hood
			Specific locality listed as Bathurst, taken from vial label.
N	373a, b	N	373a, b MISSING
	(a) <u>Boophilus decoloratus</u> 1 ♀		
	(b) <u>Amblyomma variegatum</u> 1 ♂, 1 N		
	Cattle		
	Gambia		
	5.II.1908		
	Dr. P. Hood		

374-378. Ticks brought 31.III.1908 by Mrs. Zelia Nuttall from Mexico, where they were collected by Mr. Horace Levesley at Santa Lucrezia, Isthmus of Tehuantepec 1-15.II.1908; - "Some (fat ones) collected from horses, others from man; the starved ones from the weeds." Considered to be 4 different kinds; the native names being on the 4 bottles. Only the larvae arrived alive (377) bottle damp inside; ticks placed, after washing, in 70% spirit: -

ORIGINAL DETERMINATIONCURRENT STATUS

N	374a, b	N	374a, b
		RML	104902
	(a) <u>Amblyomma cajennense</u> ♂'s & ♀'s (b) <u>Amblyomma cajennense</u> ♀'s, N's (unfed) & N's (gorged)		(a) 75 ♂, 3 N <u>Amblyomma cajennense</u> (b) 1 ♂, 121 ♀ <u>Amblyomma cajennense</u>
	Santa Lucrezia, Tehuantepec, Mexico		Jesus Carranza (17.26 N, 95.02 W), Tehuantepec, Mexico
	1-15.II.1908		1-15.II.1908
	Horace Levesley		Horace Levesley
	1 ♂, 1 ♀ to A. D. Imms, Allahabad University, India. 1 ♂, 1 ♀ to Prof. Kellogg, Stanford. 1 ♂, 1 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin 19.I.1910. 1 ♂, 1 ♀ to Dr. G. S. Graham-Smith Medical Schools, Cambridge, 19.I.1910. 1 ♂, 1 ♀ to E. E. Green [F.E.S.] Gov. Entomologist, Ceylon 19.I.1910. 1 ♂, 1 ♀ to Dschunkowsky, Trans- caucasus 19.I.1910. 1 ♂, 1 ♀ to Dr. Edmund Sergent, Algeria, N. Africa 19.IV.1910. 1 ♂, 1 ♀ to Dr. H. de B. Aragao Brazil 23.I.1910. 1 ♂, 1 ♀ to Col. A. Alcock, FRS London School Trop. Med. 26.I.1910. 1 ♂, 1 ♀ to Prof. Galli-Valerio, Lausanne, Switzerland 4.III.1912. 1 ♂, 1 ♀ to Dr. M. Miyajima, Tokio, Japan 7.III.1912. 1 ♂, 1 ♀ to G. L. Tuck, Tientsin, China 17.II.1912. 1 ♂, 1 ♀ to A. H. Cockayne, Wellington, N.Z.		The vial labels for this collection read 374 and 374a but to conform to the catalogue format, I have listed them as 374a and b. Cited: Robinson (1926: 53).
	Native name, "Vermejas"		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	375 a - c	N	375 a
		RML	104903
	(a) <u>Amblyomma cajennense</u> gorged Larvae & N's		(a) 38 N, 8 L <u>Amblyomma cajennense</u>
	(b) <u>Amblyomma cajennense</u> gorged N's		(b) MISSING
	(c) <u>Amblyomma cajennense</u> 1 ♀		(c) MISSING
	Santa Lucrezia, Tehuantepec, Mexico		Jesus Carranza (17.26 N, 95.02 W), Tehuantepec, Mexico
	1-15.II.1908		1-15.II.1908
	Horace Levesley		Horace Levesley
	Native name "Conchudas"		Vial label reads 375 but to conform to the catalogue format I have listed it as 375a.
N	376a, b	N	376a
		RML	104904
	(a) <u>Amblyomma cajennense</u> unfed N's		(a) 82 N <u>Amblyomma cajennense</u>
	(b) <u>Amblyomma cajennense</u> gorged N's		(a) 1 ♂ <u>Anocentor nitens</u>
			(b) MISSING
	Santa Lucrezia, Tehuantepec, Mexico		Jesus Carranza (17.26 N, 95.02 W) Tehuantepec, Mexico
	1-15.II.1908		1-15.II.1908
	Horace Levesley		Horace Levesley
	Native name "Garrapatas"		The <u>Amblyomma cajennense</u> collection cited Robinson (1926: 53).

ORIGINAL DETERMINATIONCURRENT STATUS

N	377a, b	N	377a, b
		RML	104905
	(a) <u>Amblyomma cajennense</u> larvae (b) <u>Amblyomma cajennense</u> nymphs		(a&b) several thousand larvae <u>Amblyomma cajennense</u>
	Santa Lucrezia, Tehuantepec, Mexico		Jesus Carranza (17.26 N, 95.02 W), Tehuantepec, Mexico
	1-15.II.1908		1-15.II.1908
	Horace Levesley		Horace Levesley
	Native name "Pinoñillos"		Cited: Robinson (1926: 53).
N	378	N	378
		RML	104906
	<u>Dermacentor nitens</u> (gorged but shrivelled)		3 ♀ <u>Anocentor nitens</u> Horses
	Santa Lucrezia, Tehuantepec, Mexico		Jesus Carranza (17.26 N, 95.02 W), Tehuantepec, Mexico
	1-15.II.1908		1-15.II.1908
	Horace Levesley		Horace Levesley
	Had oviposited en route from Mexico came mixed with lot 374		Host information taken from vial label.

379-386. Ticks received, 8.IV.1908, from Mr. W. D. Hunter, Bureau of Entomology, U.S. Dept. of Agriculture, Dallas, Texas, U.S. America.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	379	N	379
		RML	104907
	<u>Argas persicus</u>		1 ♂, 3 ♀ <u>Argas radiatus</u>
	Fowl house		Fowl house
	Texas		Texas, U.S.A.
	XI.1907		XI.1907
	D. Hannis		D. Hannis
	(labelled <u>A. miniatus</u> Koch)		Walter David Hunter (1875-1925) Chief of section of insects affecting southern field crops, Bureau of Entomology. He worked on ticks and cotton pests and was president of American Association of Economic Entomologists.
N	380	N	380
		RML	104908
	<u>Amblyomma americanum</u> 2 ♀'s		2 ♀ <u>Amblyomma americanum</u>
	Goats		Goats
	Kerrville, Texas		Kerrville (30.03 N, 99.08 W), Texas, U.S.A.
	V.1907		V.1907
	Rec'd from W. D. Hunter		W. D. Hunter
			Collector's name taken from vial label
N	381	N	381 MISSING
	<u>Amblyomma cajennense</u> ♂, ♀'s		
	Horse		
	Brownsville, Texas		
	IV.1907		
	Rec'd from W. D. Hunter		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	382	N	382
	<u>Amblyomma maculatum</u> ♂, ♀'s	RML	104909
	Cattle		1 ♂, 2 ♀ <u>Amblyomma maculatum</u>
	Victoria, Texas		Cattle
	X.1906		Victoria (28.48 N, 97.00 W), Texas, U.S.A.
	Rec'd from W. D. Hunter		X.1906
			Rec.d from W. D. Hunter
			Cited: Robinson (1926: 44).
N	383	N	383 MISSING
	<u>Boophilus annulatus</u> 2 ♂, 2 ♀ (gorged)		
	Cows		
	Dallas, Texas		
	IV.1908		
	Rec'd from W. D. Hunter		
N	384	N	384
	<u>Haemaphysalis leporispalustris</u> 2 ♂, 2 ♀	RML	104910
	Rabbit		2 ♂, 1 ♀ <u>Haemaphysalis</u> <u>leporispalustris</u>
	Maverick Co., Texas		Rabbit
	V.1906		Maverick Co. (28.40 N, 100.25 W), Texas, U.S.A.
	Rec'd from W. D. Hunter		V.1906
			Rec'd from W. D. Hunter

ORIGINAL DETERMINATIONCURRENT STATUS

N	385	N	385
		RML	104911
	<u>Dermacentor nitens</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Anocentor nitens</u>
	Horses ears		Horses ears
	Brownsville, Texas		Brownsville (25.54 N, 97.30 W), Texas, U.S.A.
	21.XI.1907		21.XI.1907
	Rec'd from W. D. Hunter		Rec'd from W. D. Hunter
N	386	N	386
		RML	104912
	<u>Dermacentor variabilis</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Dermacentor variabilis</u>
	Dogs		Dogs
	Jackson Co., Texas		Jackson Co. (29.00 N, 96.30 W), Texas, U.S.A.
	15.III.1907		15.III.1907
	Rec'd from W. D. Hunter		Rec'd from W. D. Hunter
			Total includes 1 ♂, 1 ♀ mounted on a slide
N	387	N	387 MISSING
	<u>Ornithodoros megnini</u> ♂, ♀, N		
	Cow's ear		
	Laredo, Texas		
	XI.1907		
	[2 nymphs mounted dry in cells on slides]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	388	N	388
		RML	104913
	<u>Rhipicephalus bursa</u> 2 ♂, 1 ♀		2 ♂ <u>Rhipicephalus bursa</u>
	Allassio, Italy		Allassio (44.00 N, 08.10 E), Italy
	IV.1908		IV.1908
	Rec'd from Mr. Scott		Rec'd from Mr. Scott
N	389	N	389
		RML	115895
	<u>Hyalomma aegyptium</u> 1 ♂		1 ♂ <u>Hyalomma anatolicum excavatum</u>
			Off?
	Allassio, Italy		Allassio (44.00 N, 08.10 E), Italy
	IV.1908		IV.1908
	Mr. Scott		Mr. Scott

390-394. Ticks from Benguella, Angola, W. Africa, 3.V.1908, and delivered by the collector, Dr. F. Creighton Wellman, in person. The bottle contained the following species:

N	390	N	390 MISSING
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Ornithodoros moubata adults
and nymphs

Benguella, Angola

3.V.1908

Dr. F. Creighton Wellman

Some (no. & sex not stated) to
Prof. Dryer, Parasit. Dept.,
Oxford and also to Dr. J. H.
Ashworth 22.VI.1910

ORIGINAL DETERMINATIONCURRENT STATUS

N	391	N	391
		RML	104914
	<u>Boophilus decoloratus</u> ♂, ♀♀		5 ♂, 106 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Benguela, Angola		Benguela (12.35 S, 13.25 E), Angola
	3.V.1908		3.V.1908
	Dr. F. Creighton Wellman		Dr. F. Creighton Wellman
	Called "Ohupa" by natives		
N	392	N	392
		RML	104915
	<u>Amblyomma pomposum</u>		2 ♂ <u>Amblyomma pomposum</u>
	Benguela, Angola		Benguela (12.35 S, 13.25 E), Angola
	3.V.1908		3.V.1908
	Dr. F. Creighton Wellman		Dr. F. Creighton Wellman
	Called "etengi" by natives		Cited: Robinson (1926: 100).
N	393	N	393
		RML	66672
	<u>Rhipicephalus capensis</u> ♂ ♀		2 ♂ <u>Rhipicephalus sulcatus</u>
	<u>Rhipicephalus longiceps</u>		15 ♂, 2 ♀ <u>Rhipicephalus longiceps</u>
	TYPES		Paralectotypes
	Benguela Angola		Benguela (12.35 S, 13.25 E), Angola
	3.V.1908		3.V.1908
	Dr. F. Creighton Wellman		Dr. F. Creighton Wellman
			Warburton (1912: 11), original description. Paralectotypes designated: Keirans & Brewster (1981: 170).

ORIGINAL DETERMINATIONCURRENT STATUS

N	394	N	394
		RML	104916
	<u>Ixodes cavipalpus</u> 3 ♂, 1 ♀ (gorged)		1 ♂, 3 ♀ <u>Ixodes cavipalpus</u>
	Benguella Angola		Benguela (12.35 S, 13.25 E), Angola
	1908		1908
	Dr. F. Creighton Wellman		Dr. F. Creighton Wellman
			Cited: Nuttall & Warburton (1911: 194).
N	395	N	395 MISSING
	<u>Ixodes unicavatus</u> 3 larvae		
	<u>Phalacrocorax graculus</u>		
	Probably British		
	Gift of Hon. N. C. Rothschild		
	Mounted on 3 slides R988-90 G.H.F.N. det. 13.II.1915		
N	396	N	396 MISSING
	<u>Ixodes brunneus</u> ? 1 N		
	<u>Erithacus rubecula</u> (robin)		
	Probably British		
	Gift of Hon. N. C. Rothschild		
	Mounted on a slide R1032		

ORIGINAL DETERMINATIONCURRENT STATUS

N 397

N 397 MISSING

Amblyomma hirtum 1 ♂

Bird (in spirit)

Galapagos Islds, Pacific Ocean
(W. of Ecuador)

Gift of Hon. N. C. Rothschild

Mounted on a slide R911
L.E.R. det. 6.III.1915

N 398

N 398 MISSING

Haemaphysalis cinnabarina var.
punctata 3 ♂, 3 ♀, 4 N

Sheep

Kent

mounted as slides VII-VI.1905

In connection with our work on the anatomy of this species published in Journal of Hygiene, vol. V (Nuttall, Cooper & Robinson). They were collected off sheep in Kent for us at various times [11 slides]

♂ I-III N VII-X
♀ IV-VI L's XI

The correct citation for the anatomy of Haemaphysalis punctata should be Nuttall, Cooper & Robinson 1908b Parasitology 1: 152-181.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	399	N	399
	<u>Ixodes hexagonus</u> ♀'s & N's	RML	16471
	Stoat		3 ♀, 2 N, 1 L <u>Ixodes hexagonus</u>
	Histon, Cambs.		<u>Mustela erminea</u>
	12.V.1908		Histon (52.15 N, 00.06 E), Cambs., England
	Mr. Orpen		12.V.1908
	1 ♀ to Col. A. Alcock London School Tropical Med., Royal Albert Dock 26.I.1910		Mr. Orpen
			2 ♀ sent to RML by P.A. Buxton (Rec'd 24.II.1940). An additional ♀ <u>I. hexagonus</u> presented to Dr. F.C. Bishopp is now in the RML collection (Bishopp 3231).
N	400	N	400 MISSING
	<u>Ixodes ricinus</u> ♂'s, ♀'s		
	Dog		
	Blackaddie, Sanquhar, Scotland		
	Rec'd 12.V.1908		
	Mr. R. Bramwell		
N	401	N	401 MISSING
	<u>Ixodes ricinus</u> ♂'s & ♀'s		
	Sheep, 24 hrs. after it died of "louping ill"		
	Blackaddie, Sanquhar, Scotland		
	Rec'd 12.V.1908		
	Mr. R. Bramwell		
	1 ♂, 1 ♀ to Royal College of Surgeons, London 20.XII.1909		

ORIGINAL DETERMINATIONCURRENT STATUS

N 402

Ixodes ricinus ♂'s & ♀'s
Ixodes hexagonus 1 ♀

Sheep

Blackaddie, Sanquhar, Scotland

Rec'd 12.V.1908

Mr. R. Bramwell

N 402a

RML 104917

402 MISSING
 402a 1 ♀ Ixodes canisuga

Sheep

Blackaddie, Sanquhar
 (55.21 N, 03.55 W), Scotland

Rec'd 12.V.1908

Mr. R. Bramwell

There is no 402a listed in the
 catalogue.

Cited: Nuttall & Warburton
 (1911: 213), who spelled
 the locality Blackadie.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	403	N	403
		RML	104918
	<u>Argas vespertilionis</u> 2 gorged Larvae		2 L <u>Argas vespertilionis</u>
	Bat		Bat
	Histon, Cambs.		Histon (52.15 N, 00.06 E), Cambs., England
	10.V.1908		10.V.1908
			Nuttall et al. (1908: 39) incorrectly stated the collection date as 11.V.1903. Arthur (1963: 194) repeated this error.
N	404	N	404
		RML	104919
	<u>Ixodes hexagonus</u> ♀'s & N's		1 ♀, 12 N <u>Ixodes hexagonus</u>
	Stoat, <u>Mustela putorius</u>		<u>Mustela erminea</u>
	Holme, Peterborough		Holme (52.28 N, 00.14 W), Peterborough, England
	31.III.1908		31.III.1908
	Rec'd from Mr. W. Farren		Rec'd from Mr. W. Farren
	Rec'd 14.V.1908 1 ♀ to W. D. Hunter, USDA Washington		The ♀ <u>I. hexagonus</u> sent to W. D. Hunter was given Bishopp number 429 and is now in the RML collection
			Cited: Nuttall & Warburton (1911: 182).

ORIGINAL DETERMINATIONCURRENT STATUS

N 405

N 405

RML 66941

Ixodes ricinus ♂ & ♀

Cheviot sheep

Shelfhill Farm, Hawick
Scotland

Rec'd 22.V.1908

Rec'd from Mr. J. Murray

2 ♀ to Dr. E. Roubaud, Inst. Pasteur, Paris, 12.X.1922; 2 ♀ to Prof. J. Hjort, Christiania Univ., Norway, 12.X.1922; 2 ♀ to Dr. A. Watkins Pitchford, Army Vet. School, Thornhill, Aldershot, 12.X.1922; 2 ♀ to L.P.W. Renouf, Biol. Dept., Univ. College, Cork, Ireland, 12.X.1922; 2 ♀ to Dr. Wm. Parry Morgan, Publ. Hlth. Dept., Cardiff, Wales, 12.X.1922; 2 ♀ to J.E.M. Mellor, Malvern College, Malvern, 16.X.1922; 2 ♀ to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon, 7.XI.1922; 2 ♀ to Prof. E. Brumpt, Ecole de Medicine, Paris, 12.X.1922; 2 ♀ to I.C. Ross, Univ. Sydney, Australia; 2 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin, 19.I.1910; 2 ♀ to Dr. G. S. Graham-Smith, Medical Schools, Cambridge, 19.I.1910; 2 ♀ to E. E. Green (F.E.S.) Gov. Entomologist, Ceylon, 19.I.1910; 2 ♀ to Dschunkowsky (Transcaucasus), 19.I.1910; 2 ♀ to Dr. Edmond Sergent, Algeria, N. Africa, 19.IV.1910; 2 ♀ to Dr. H. de B. Aragão, Brazil, 23.I.1910; 1 ♂, 1 ♀ (in copulo) to Dr. H. de B. Aragao, Brazil, 23.I.1910; 2 ♀ to Prof. Dr. M. Miyajima, Tokio, Japan, 7.III.1912; 2 ♀ to Dr. G. L. Tuck, Tientsien, China, 17.II.1912; 2 ♀ to A. H. Cockangue, Wellington, N.Z.; some (sex/stage unknown) to Dr. Longin Navas, Zaragoza, Spain, 28.V.1913; 1 ♂, 1 ♀ to Dr. K. F. Meyer, U. Calif., Berkeley, 13.XI.1913; 2 ♀ to W. A. Pool, Indian Civil Vet. Dept., 12.X.1922; 2 ♀ to Prof. B. Galli-Valerio, Lausanne, Switzerland, 14.III.1912;

This collection is missing from the B.M.N.H. However, the 1 ♀ sent to the U.S.N.M., Washington, D.C., is now in the RML collection. Cited Nuttall & Warburton (1911: 152).

ORIGINAL DETERMINATIONCURRENT STATUS

405 (cont'd)

Some (sex/stage unknown) to Prof. O. Duboseq, Montpellier, France, 10.II.1914; 1 ♀ to Prof. Dr. Dahl, Berlin Museum, VII.1914; 1 ♀ to Prof. Dr. S. Schenkling, Deutsches Entomol. Museum, VII.1914; 1 ♀ to Prof. Dr. R. Gestro, Museo Civico di Storia Nat. Genova, VII.1914; 1 ♀ to U.S.N.M., Washington; 1 ♂, 2 ♀ to F. C. Bishopp; 1 ♂, 2 ♀ to Prof. Dryer, Parasit. Dept., Oxford; 1 ♂, 1 ♀ to W. D. Hunter, U.S.D.A., Washington.

406-413. Ticks received from Dr. A. Theiler, Gov't Veterinary Bacteriologist, Dept. of Agriculture, Pretoria, Transvaal, S. Africa, 27.I.1908.

N	406	N	406
		RML	104920
	<u>Hyalomma aegyptium</u> eggs		One vial <u>Hyalomma</u> sp. eggs
	Pretoria, Transvaal, S. Africa		Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa
	Rec'd 27.I.1908		Received 27.I.1908
	Received from Dr. A. Theiler		Received from Dr. A. Theiler
N	407	N	407
		RML	104921
	<u>Rhipicephalus appendiculatus</u> eggs		1 vial <u>Rhipicephalus appendiculatus</u> eggs
	Pretoria, Transvaal, S. Africa		Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa
	Received 27.I.1908		Received 27.I.1908
	Received from Dr. A. Theiler		Received from Dr. A. Theiler

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	408 <u>Rhipicephalus evertsi</u> eggs Pretoria, Transvaal, S. Africa Received 27.I.1908 Received from Dr. A. Theiler	N	408 MISSING
N	409 <u>Rhipicephalus evertsi</u> larvae Pretoria, Transvaal, S. Africa Received 27.I.1908 Received from Dr. A. Theiler	N	409
		RML	104922
			± 5000 L <u>Rhipicephalus evertsi</u> Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa Received 27.I.1908 Received from Dr. A. Theiler
N	410 <u>Rhipicephalus evertsi</u> cast nymphal skins Pretoria, Transvaal, S. Africa Received 27.I.1908 Received From Dr. A. Theiler	N	410 MISSING
N	411 <u>Rhipicephalus evertsi</u> ♂'s and ♀'s issued from 410 Pretoria, Transvaal, S. Africa Received 27.I.1908 Received from Dr. A. Theiler	N	411
		RML	104923
			3 ♂, 2 ♀ <u>Rhipicephalus evertsi</u> Pretoria (25.45 S, 28.10 E) Transvaal, Republic of South Africa Received 27.I.1908 Received from Dr. A. Theiler

ORIGINAL DETERMINATIONCURRENT STATUS

N	412	N	412 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s (gorged)		
	Pretoria, Transvaal, S. Africa		
	Received 27.I.1908		
	Received from Dr. A. Theiler		
N	413	N	413
		RML	104924
	<u>Boophilus decoloratus</u> larvae		+ 10,000 L <u>Boophilus decoloratus</u>
	Pretoria, Transvaal, S. Africa		Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa
	Received 27.I.1908		Received 27.I.1908
	Received from Dr. A. Theiler		Received from Dr. A. Theiler
	414-416. Ticks received from Professor J. R. Wallace, Auchenbaingee, Thornhill, Dumfriesshire, Scotland, collected 26.V.1908.		
N	414	N	414
		RML	104925
	<u>Ixodes canisuga</u> ♀'s		33 ♀ <u>Ixodes canisuga</u>
	Dog		Dog
	Auchenbaingee, Thornhill, Dumfriesshire, Scotland		Auchenbaingee, Thornhill (55.14 N, 3.46 W), Dumfriesshire, Scotland
	26.V.1908		26.V.1908
	Received from Prof. J. R. Wallace		Received from Prof. J. R. Wallace
	♀'s (number not stated) to Dr. S. Hadwen, British Columbia, Canada 10.X.1913		Cited: Nuttall and Warburton (1911: 213).

ORIGINAL DETERMINATIONCURRENT STATUS

N 415 N 415 MISSING

Ixodes ricinus ♂'s, ♀'s

Lambs

Auchenbaingee, Thornhill,
Dumfrieshire, Scotland

26.V.1908

Received from Prof. J. R. Wallace

N 416 N 416 MISSING

Ixodes ricinus ♂'s, ♀'s

Cattle

Auchenbaingee, Thornhill,
Dumfrieshire, Scotland

26.V.1908

Received from Prof. J. R. Wallace

1 ♂, 1 ♀ to Dr. de Blicck, Java,
22.I.1915

	<u>ORIGINAL DESCRIPTION</u>		<u>CURRENT STATUS</u>
N	417 a-e	N	417
		RML	66940
	<u>Ixodes ricinus</u>		17 L <u>Ixodes ricinus</u> 121 L <u>Ixodes ricinus</u>
	(a) - cow, (b) - dead lamb, (c) - ewe with "lingering trembling", (d) - wool of sheep, (e) - sheep		Hedgehog (17 L) Sheep (121 L)
	Glenmaddie Farm Sanquhar, Scotland		Quick Laboratory, Cambridge (52.13 N, 00.08 E) England
	(a) 26.V.1908, (b) 20.V.1908, (c) 26.V.1908, (d) 27.V.1908, (e) 27.V.1908		17.VIII.1909
	Mr. R. Bramwell		1 engorged larva is in the RML collection
			Evidently progeny of 417 a-e were reared at Cambridge but Nuttall did not so indicate in his catalogue. Cited: Nuttall and Warburton (1911: 152).

ORIGINAL DETERMINATIONCURRENT STATUS

418-421. Ticks received from Dr. A. Theiler, Gov't Veterinary Bacteriologist, Dept. of Agriculture, Pretoria, Transvaal, S. Africa, received 1.VI.1908.

N 418

N 418

RML 60593

Amblyomma hebraeum ♂'s and ♀'s

Pretoria, Transvaal, S. Africa

Received 1.VI.1908

Received from Dr. A. Theiler

1 ♂, 1 ♀ to Prof. Dryer, Parasit. Dept., Oxford

1 ♂, 1 ♀ to W. D. Hunter, USDA, Washington

This collection is missing from the B.M. (N.H.). However, there are 1 ♂, 2 ♀ now in the RML collection that had Bishopp number 423.

N 419

N 419 MISSING

Amblyomma hebraeum N's (gorged)

Pretoria, Transvaal, S. Africa

Received 1.VI.1908

Received from Dr. A. Theiler

N 420

N 420 MISSING

Amblyomma hebraeum N's (gorged)

Pretoria, Transvaal, S. Africa

Received 1.VI.1908

Received from Dr. A. Theiler

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	421	N	421
		RML	104926
	<u>Rhipicephalus appendiculatus</u> N's (gorged)		9 N <u>Rhipicephalus appendiculatus</u>
	Pretoria, Transvaal, S. Africa		Pretoria (25.45 S, 28.10 E), Transvaal, Republic of South Africa
	Received 1.VI.1908		Received 1.VI.1908
	Received from Dr. A. Theiler		Received from Dr. A. Theiler
N	422	N	422
		RML	104927
	<u>Ixodes canisuga</u>		1 ♀ <u>Ixodes canisuga</u>
	Dogs		Dogs
	Auchenbrack, Timron, Scotland		Auchenbrack, Tynron (55.13 N, 03.53 W), Scotland
	29.V.1908		29.V.1908
	Sent by J. McMonnies (shepherd)		Sent by J. McMonnies
			Cited: Nuttall and Warburton (1911: 213).
N	423	N	423 MISSING
	<u>Ixodes ricinus</u> ♀'s, N's and larvae		
	Sheep		
	Auchenbrack, Timron, Scotland		
	29.V.1908		
	Sent by J. McMonnies (shepherd)		

ORIGINAL DETERMINATIONCURRENT STATUS

424-434. Ticks received early in June 1908, from Dr. P. Hood, Senior Medical Officer, Bathurst, Colony of Gambia.

N	424	N	424
		RML	104928
	<u>Haemaphysalis hoodi</u> TYPE		15 ♂, 34 ♀ <u>Haemaphysalis hoodi</u> Lectotype and paralectotypes
	Fowls		Fowls
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	12.V.1908		12.V.1908
	Dr. P. Hood		Dr. P. Hood
	1 ♂, 1 ♀ to Dr. L. O. Howard USDA 21.V.1909		The specimens sent to Dr. Howard are now in RML. Warburton and Nuttall (1909: 63), original description. Lectotype designated: Keirans & Brewster (1981: 160).
N	425a, b	N	425 MISSING
	(a) <u>Hyalomma aegyptium</u> 3 ♂'s, 2 ♀'s (b) <u>Amblyomma variegatum</u> 4 ♂'s		
	Cow		
	Bathurst, Gambia		
	18.V.1908		
	Dr. P. Hood		
N	426	N	426
		RML	104929
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		22 ♂, 22 ♀, 9 N <u>Rhipicephalus sanguineus</u>
	Brown and white dog		Brown and white dog
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	18.V.1908		18.V.1908
	Dr. P. Hood		Dr. P. Hood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	427a-e	N	427b, c
		RML	104930
	(a) <u>Amblyomma variegatum</u> ♂'s, 2 ♀'s		(b) 8 ♂, 3 ♀ <u>Hyalomma truncatum</u>
	(b) <u>Hyalomma aegyptium</u> 5 ♂, 1 ♀		(c) 1 ♂ <u>Rhipicephalus senegalensis</u>
	(c) <u>Rhipicephalus simus</u> 1 ♂		(a), (d), (e) MISSING
	(d) <u>Boophilus australis</u> ? 2 ♀ (injured)		
	(e) <u>Amblyomma variegatum</u> N		
	Brown cow		Brown cow
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	18.V.1908		18.V.1908
	Dr. P. Hood		Dr. P. Hood
			427a, d, e - MISSING
N	428	N	428
		RML	104931
	<u>Boophilus australis</u>		6 ♀ <u>Boophilus geigy</u>
	Brown cow		Brown cow
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	13.V.1908		13.V.1908
	Dr. P. Hood		Dr. P. Hood
N	429	N	429
		RML	115866
	<u>Amblyomma variegatum</u> 11 ♂'s		2 ♂ <u>Amblyomma variegatum</u>
	Sheep		Sheep
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	12.V.1908		12.V.1908
	Dr. P. Hood		Dr. P. Hood
	1 ♂ to W. D. Hunter, USDA, Washington		

ORIGINAL DETERMINATIONCURRENT STATUS

N	430	N	430 MISSING
	<u>Amblyomma variegatum</u> 1 N (gorged)		
	Donkey		
	Bathurst, Gambia		
	18.V.1908		
	Dr. P. Hood		
N	431	N	431
		RML	104932
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		10 ♂, 11 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Brown cow		Brown cow
	Bathurst, Gambia		Banjul (13.27 N, 16.35 W), Gambia
	12.V.1908		12.V.1908
	Dr. P. Hood		Dr. P. Hood
N	432	N	432 MISSING
	<u>Boophilus decoloratus</u> ♂, ♀		
	Mandingo man		
	Bathurst, Gambia		
	12.V.1908		
	Dr. P. Hood		

ORIGINAL DETERMINATIONCURRENT STATUS

N 433 N 433 MISSING

Amblyomma variegatum ♀

White pig

Bathurst, Gambia

12.V.1908

Dr. P. Hood

1 ♂, 1 ♀ to Prof. Kellogg,
Stanford Univ.

N 434 N 434 MISSING

Rhipicephalus sanguineus ♂'s, ♀'s

White dog

Bathurst, Gambia

12.V.1908

Dr. P. Hood

ORIGINAL DETERMINATIONCURRENT STATUS

435-436. Ticks received 13.VI.1908 from Dr. K. S. Wise of the Public Hospital, Georgetown, British Guiana, who delivered them in person.

N	435	N	435
		RML	104933
	<u>Boophilus australis</u>		72 ♀ <u>Boophilus microplus</u>
	Cows		Cows
	Along British Guiana coast		Along Guyana coast
	Received 13.VI.1908		Received 13.VI.1908
	Dr. K. S. Wise		Dr. K. S. Wise
	1 ♂, 1 ♀ to A. D. Imms, Allahabad Univ., India; 1 ♂, 1 ♀ to Royal College of Surgeons, London, 20.XII.1909; 1 ♂, ♀'s to Prof. Kellogg, Stanford Univ.		
N	436	N	436
		RML	104934
	<u>Rhipicephalus sanguineus</u> ♂, ♀'s Larvae		2 ♂, 3 ♀, many larvae & eggs <u>Rhipicephalus sanguineus</u>
	Dog suffering from piroplasmosis		Dog suffering from piroplasmosis
	British Guiana		Georgetown (06.48 N, 58.10 W) Guyana
	Received 13.VI.1908		Received 13.VI.1908
	Dr. K. S. Wise		Dr. K. S. Wise
	(will send notes)		Georgetown locality on vial label

ORIGINAL DETERMINATIONCURRENT STATUS

N	437,a, b	N	437a, b
		RML	104935
	(437) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(437) MISSING
	(a) <u>Boophilus australis</u> 1 ♀		(a) 1 ♀ <u>Boophilus microplus</u>
	(b) <u>Rhipicephalus appendiculatus</u> 1 ♂		(b) 1 ♂ <u>Rhipicephalus appendiculatus</u>
	Goats and cattle		Goats and cattle
	Mauritius		Mauritius
	Sent 27.VI.1908		Sent 27.VI.1908
	Sent by M. de Charmoy, director of Museum, Port Louis		Sent by M. de Charmoy, Director of Museum, Port Louis
	438-440. Ticks received from Dr. C. M. Wenyon, London School of Tropical Medicine, London E.C., 25.VI.1908.		
N	438	N	438
		RML	104936
	<u>Aponomma laeve</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Aponomma latum</u>
	Yellow snake, <u>Psammophis sibilans</u>		<u>Psammophis sibilans</u>
	Barboy, White Nile, Sudan		Barboy, White Nile (15.38 N, 32.31 E), Sudan
	30.XI.1907		30.XI.1907
	Dr. C. M. Wenyon		Dr. C. M. Wenyon
			Host common name is the hissing sand snake
			Charles Morley Wenyon (1878-1948) graduate of Univ. Leeds, University College, London, and Guy's Hospital. Protozoologist at London School of Tropical Medicine and later Research Director of the Wellcome Bureau of Scientific Research. Perhaps the greatest protozoologist of the century (Garnham, 1979).

ORIGINAL DETERMINATIONCURRENT STATUS

N	439	N	439
		RML	104937
	<u>Aponomma laeve</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Aponomma latum</u>
	Snake, <u>Psammophis sibilans</u>		<u>Psammophis sibilans</u>
	River Sobat, Sudan		Sobat River (09.22 N, 31.33 E), Sudan
	3.VII.1907		3.VII.1907
	Dr. C. M. Wenyon		Dr. C. M. Wenyon
			Vial label incorrectly states the locality as River Sobat, Egypt.
N	440	N	440
		RML	104938
	<u>Argas persicus</u> larvae (gorged)		16 L <u>Argas persicus</u>
	Fowls		Fowls
	Meshra el Reh, Sudan		Mashra ar Raqq (08.25 N, 29.16 E), Sudan
	25.II.1908		25.II.1908
	Received from Dr. C. M. Wenyon		Received from Dr. C. M. Wenyon
N	441	N	441
		RML	104939
	<u>Argas persicus</u> all stages		4 ♂, 6 N, 3 L <u>Argas persicus</u>
	Cape Colony S. Africa		Cape Colony, Republic of South Africa
	Sent 29.VI.1908		Sent 29.VI.1908
	Sent by Mr. C. P. Lounsbury		Sent by Mr. C. P. Lounsbury

ORIGINAL DETERMINATIONCURRENT STATUS

N	442a-c	N	442a, b
		RML	104940
	(a) <u>Hyalomma aegyptium</u> larvae (gorged)		(a) 6 L <u>Amblyomma</u> sp.
	(b) <u>Rhipicephalus sanguineus</u>		(b) 1 ♂, 2 ♀ <u>Amblyomma</u> sp.
	(c) <u>Amblyomma lepidum</u> ♂, ♀		(c) MISSING
	Young ostrich		<u>Struthio camelus</u>
	White Nile, Sudan		White Nile (15.38 N, 32.31 E), Sudan
			25.VI.1908
			Dr. C. M. Wenyon
	(c) on slides, L. E. Robinson re-det 26.III.1919		Date and collector information taken from vial label
N	443	N	443
		RML	104941
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		13 ♂, 9 ♀ <u>Rhipicephalus sanguineus</u>
	Probably Lagos, S. Nigeria (W. Africa)		Probably Lagos (06.27 N, 03.23 E), Nigeria
	Received 30.VI.1908		Received 30.VI.1908
	Received from Dr. H. Strachan, Principal Medical Officer		Received from Dr. H. Strachan, Principal Medical Officer
N	444	N	444 MISSING
	<u>Amblyomma lepidum</u> ♂, ♀		
	(Wenyon coll "438")		
	Slides L. E. Robinson re-determined 26.III.1919. Found with <u>Hyal.</u> <u>aegyptium</u>		

ORIGINAL DETERMINATIONCURRENT STATUS

N	445	N	445 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Allahabad, India		
	Rec'd 10.III.1908		
	Rec'd from Professor A. D. Imms		
N	446	N	446
	<u>Ixodes hexagonus</u> ♀'s, N's	RML	104942
	Hedgehog		2 ♀, 6 N <u>Ixodes hexagonus</u>
	Madingly Hall, Cambs.		<u>Erinaceus europaeus</u>
	16.VII.1908		Madingley (52.13 N, 00.03 E), Cambs., England
	Mr. W. A. Harding		16.VII.1908
			Mr. W. A. Harding
			Cited: Nuttall & Warburton (1911: 182).
N	447	N	447
	<u>Ixodes canisuga</u> ♀'s and N's	RML	56920 and RML 66149
	Dog		
	Auchenbrack, Tynron, Scotland		
	Mr. J. McMonnies		
	1 ♀ to Prof. Dr. Dahl, Berlin Museum VII.1914, 1 ♀ to Prof. Dr. Schenkling, Deutsches Entomol. Mus. VII.1914; 1 ♀ to Prof. Dr. Gestro, Museo Civico di Storia Nat., Genova VII.1914.		The Nuttall collection contains no specimens of <u>I. canisuga</u> with this Nuttall number. However, the BM(NH) collection contains 1 N (13.2.12.7-8). There is also 1 N (RML 56920) in the RML collection from the Bishopp collection (Bishopp 3239) and 1 N (RML 66149) from the U.S.N.M. collection. Cited and figured: Nuttall & Warburton (1911: 212, 213).

ORIGINAL DETERMINATIONCURRENT STATUS

N	448	N	448
		RML	104943
	<u>Rhipicephalus simus</u> larvae		92 L <u>Rhipicephalus simus</u>
	Pretoria, Transvaal, S. Africa		Raised in Cambridge
	Received 30.III.1908		Raised in 1908
	Received from Dr. A. Theiler		Received from Dr. A. Theiler
			Larvae in 2 vials 1-14 L; 2-78 L
N	449	N	449 MISSING
	<u>Rhipicephalus appendiculatus</u> N's (gorged)		
	Pretoria, S. Africa		
	Sent 11.V.1908		
	Sent by Dr. A. Theiler		

ORIGINAL DETERMINATIONCURRENT STATUS

N 450

Amblyomma hebraeum 1 ♀

Pretoria, S. Africa

Received 11.V.1908

Received from Dr. A. Theiler

N 450 MISSING

N 451

Rhipicephalus pulchellus 1 ♂, 1 ♀

British East Africa

18.VII.1908

Sent by Mr. F. V. Theobald

N 451

RML 104944

1 ♂, 1 ♀ Rhipicephalus pulchellus

Kenya

18.VII.1908

Sent by Mr. F. V. Theobald

Frederick Vincent Theobald (1868-1930)
 Professor of economic zoology at the
 South-Eastern Agricultural College, Wye,
 Kent. Produced a famous monograph on
 the Culicidae for Trustees of the
 British Museum (Nat. Hist.) that was not
 well received. He later wrote a mono-
 graph on British Aphididae.

ORIGINAL DETERMINATIONCURRENT STATUS

N	452	N	452
		RML	104945
	<u>Boophilus australis</u> ♂'s, ♀'s		19 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	7 miles from Simla, India		7 miles from Simla (31.06 N, 77.10 E), India
	Sent 23.VI.1908		Sent 23.VI.1908
	Sent by Mr. Wm. Smith, Gov't Dairy Expert		Sent by Mr. Wm. Smith, Gov't Dairy Expert
N	453	N	453
		RML	104946
	<u>Argas vespertilionis</u> larvae		5 L <u>Argas vespertilionis</u>
	<u>Vesperugo pipistrellus</u>		<u>Pipistrellus pipistrellus</u>
	Church at Histon, Cambs		Church at Histon (52.15 N, 00.06 E), Cambs, England
	30.VII.1908		30.VII.1908
	Mr. W. A. Harding		Mr. W. A. Harding
	[6 larvae mounted in balsam on 2 slides]		Slides missing

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	454	N	454
		RML	104947
	<u>Ixodes putus</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Ixodes uriae</u>
	Bempton cliffs, ledges frequented by guillemots		Gulls
	Received 5.VIII.1908		Bempton cliffs (54.08 N, 00.10 W) England
	Received from Oxley Grabham, M.A. The Museum, York		Received 5.VII.1908
	(Says jackdaws feed on them "with avidity")		Received from Oxley Grabham, M.A. The Museum, York
			Host taken from vial label Cited: Nuttall and Warburton (1911: 260).
N	455	N	455 MISSING
	<u>Ornithodoros moubata</u> 1 ♀		
	Received 10.VIII.1908		
	Received from A. B. Cook, MA, Cambridge		
	A. B. Cook received the tick from his brother, a medical missionary		
N	456	N	456
		RML	104948
	<u>Ixodes hexagonus</u> ♀		1 ♀ <u>Ixodes hexagonus</u>
	<u>Lutra vulgaris</u>		<u>Lutra lutra</u>
	Histon, Cambs., England		Histon (52.15 N, 00.06 E), Cambs., England
	1908		1908
	W. A. Harding		W. A. Harding
			Cited: Nuttall & Warburton (1911: 182).

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	457	N	457
		RML	104949
	<u>Amblyomma cajennense</u> 1 ♀, 1 N & larvae Grass on mountain at Jamaica 1903 Mr. W. A. Harding		1♀, 2 N <u>Amblyomma cajennense</u> Grass on mountain at Jamaica 1903 Mr. W. A. Harding Cited: Robinson (1926: 53).
N	458a-c	N	458b
		RML	104950
	(a) <u>Rhipicephalus evertsi</u> 2 ♀'s (b) <u>Rhipicephalus appendiculatus</u> 1 ♂ (c) <u>Boophilus decoloratus</u> 1♂, ♀'s Cattle Rhodesia, S. Africa Sent 10.VII.1908 Sent by Prof. Wallace		(a) MISSING (b) 1♂ <u>Rhipicephalus supertritus</u> (c) MISSING Cattle Zimbabwe Sent 10.VII.1908 Sent by Prof. Wallace
N	459	N	459
		RML	104951
	<u>Ixodes putus</u> 1♀ Sea gull Handa Island, Sutherland, Scotland Rec'd VIII.1908 Rec'd from Dr. W.L.H. Duckworth		1♀ <u>Ixodes uriae</u> Sea gull Handa Island (58.22 N, 05.12 W), Sutherland, Scotland Rec'd VIII.1908 Rec'd from Dr. W.L.H. Duckworth

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	460	N	460
		RML	104952
	<u>Amblyomma dissimile</u> ♂'s		3 ♂ <u>Amblyomma cruciferum</u>
	Iguana		Iguana
	Received VIII.1908		Received VIII.1908
	Received from Dr. Duckworth, Cambridge		Received from Dr. Duckworth, Cambridge
	Iguana at Zoological Gardens, London?		Two pieces of skin in the vial with 1 ♂ still attached
N	461a, b	N	461a, b
		RML	104953
	(a) <u>Dermacentor nitens</u> ♂'s, ♀'s		(a) 4 ♂, 62 ♀ <u>Anocentor nitens</u>
	(b) <u>Boophilus</u> spec. incert ♀'s		(b) 26 ♀ <u>Boophilus microplus</u>
	Horses		Horses
	Montserrat, W. Indies		Montserrat (16.45 N, 62.12 W), W. Indies
	30.VI.1908		30.VII.1908
	Dr. W. G. Heath		
	461a sent to the following:		Date taken from vial label
	1 ♂, 1 ♀ to Launcelot Harrison Australia 9.V.1910		
	1 ♂, 1 ♀ to Prof. M. Jesus Maynar, Zaragoza, Spain 10.V.1910		
	1 ♂, 1 ♀ to Prof. Poulton, Oxford, 26.V.1919		
	1 ♂, 1 ♀ to E. Hindle, Cambridge, 24.IX.1919		
	1 ♂, 1 ♀ to Major Lothian, School Hygiene, Blackpool 25.IX.1919		
	1 ♂, 1 ♀ to Major J.E.M. Boyd, Cambridge 20.XII.1919		
	1 ♂, 1 ♀ to Dr. J. Gordon Thompson London School Trop. Med. 8.I.1920		
	1 ♂, 1 ♀ to Dr. R. W. Hegner, Johns Hopkins, Baltimore 8.III.1920		
	1 ♂, 1 ♀ to Dr. R. J. Tillyard, Nelson, N.Z. VI.1920		

1 ♂, 1 ♀ to Prof. Jules Bordet,
 Bruxelles, Belgium 30.VI.1920
 1 ♂, 2 ♀ to E. T. Bordman Univ.
 Florida, Gainesville 30.V.1929
 461b [C. W. det. 1918]

ORIGINAL DETERMINATION

CURRENT STATUS

N	462	N	462 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s		
	Cattle		
	Montserrat, W. Indies		
	30.VI.1908		
	Dr. W. G. Heath		
N	463	N	463
		RML	104954
	<u>Rhipicephalus sanguineus</u> 1 ♂		1 ♂ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Montserrat, W. Indies		Montserrat (16.45 N, 62.12 W), W. Indies
	12.VI.1908		12.VI.1908
	Dr. W. G. Heath		Dr. W. G. Heath
N	464	N	464
		RML	105622
	<u>Rhipicephalus sanguineus</u>		4 ♂, 43 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs, horses and cat		Dogs, horses and cat
	Ebute Metta, S. Nigeria		Ebute Metta (06.29 N, 03.23 E), Nigeria
	30.VI.1908		30.VI.1908
	W. F. Macfarlane		W. F. Macfarlane
			1 ♂ teratological

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	465	N	465
	<u>Amblyomma variegatum</u>	RML	57368
	Cattle		2 ♀ <u>Amblyomma variegatum</u>
	Jaba, S. Nigeria		Cattle
	30.VI.1908		Jaba (07.52 N, 11.06 E) or (10.12 N, 13.00 E), Nigeria
	W. F. Macfarlane		30.VI.1908
	The ♀ to W. D. Hunter, USDA, Washington		W. F. Macfarlane
			The ♀ sent to Hunter was given Bishopp number 424 and is now in the RML collection.
N	466	N	466
	<u>Aponomma</u> sp. ? N's	RML	104955
	Ear of <u>Ptilocerus lowii</u>		3 N <u>Dermacentor</u> sp.
	Sarawak, Borneo		Ear of <u>Ptilocerus lowii</u>
	Received IX.1908		Sarawak, Malaysia
	J. Hewitt		Received IX.1908
	Sent by Dr. A. R. Wellington		J. Hewitt
N	467, a	N	467
	(467) <u>Hyalomma aegyptium</u>	RML	104956
	(a) <u>Rhipicephalus evertsi</u>		(467) 6 ♂, 3 ♀ <u>Hyalomma rufipes</u> 1 ♂ <u>Boophilus decoloratus</u>
	Cows		(a) MISSING
	Rhodesia		Cows
	23.VII.1908		Zimbabwe
	Professor Robert Wallace		23.VII.1908
			Professor Robert Wallace

ORIGINAL DETERMINATIONCURRENT STATUS

N	468	N	468
		RML	104957
	<u>Boophilus decoloratus</u>		2 ♂, 13 ♀ <u>Boophilus decoloratus</u>
	Sheep dead of heartwater		Sheep dead of heartwater
	Rhodesia		Zimbabwe
	25.VIII.1908		25.VIII.1908
	Professor R. Wallace		Professor R. Wallace
			Also many eggs
N	469	N	469 MISSING
	<u>Argas persicus</u>		
	(a) larvae attached to skin of chicken; (b) nymph; (c) adults which convey spirochaetosis		
	French Sudan		
	Dr. G. Borrel of the Pasteur Institute, Paris		
	Sent at the instance of Dr. E. Marchoux. He sends 3 tubes from French Sudan (all returned 25.IX.1908)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	470	N	470
		RML	104958
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s, ♀'s		1 ♂ <u>Aponomma gervaisi</u> 4 ♂, 25 ♀ <u>Aponomma varanensis</u>
	Rock snake, <u>Python molurus</u>		<u>Python molurus</u>
	Probably Zoological Gardens Calcutta, India		Probably Zoological Gardens Calcutta, India
	1908		1908
	Sent by Mr. Annandale		Sent by Mr. Annandale
	[2 ♂, 2 ♀ mounted in cells with other <u>Aponomma</u> spp.] Determined by C. Warburton, 1908 [Det. corrected by C.W. 29.III.1915]		Slides missing Nelson Annandale (1876-1924) sent to India 1904 as Deputy Superintendent of Natural History Section of the Indian Museum; appointed Superintendent 1907. In 1916 founded Zoological Survey of India.
N	471	N	471
		RML	104959
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s, ♀'s, N's, L's		25 ♂, 11 ♀, 31 N, 4 L <u>Aponomma</u> <u>varanensis</u>
	Cobra, <u>Naja tripudians</u>		<u>Naja naja</u>
	Probably Zoological Garden, Calcutta, India		Probably Zoological Garden, Calcutta, India
	1908		1908
	Sent by Mr. Annandale		Gift of Dr. N. Annandale
	Determined by C. Warburton 1908. Det. corrected by C.W. 29.III.1915 2 ♂, 2 ♀ to C. Strickland, Malaya 1 ♂, 1 ♀ to Prof. Dryer, Parasit. Dept., Oxford 1 ♂, 1 ♀ to W. D. Hunter, USDA, Washington 1 ♂, 1 ♀ to A. D. Imms, Allahabad Univ., India Some (sex/stage not stated) to Dr. de Blicck, Java, 22.I.1915		Cited: Santos Dias (1958: 518) who gave tick numbers 26 ♂, 10 ♀, 4 N The 1♂, 1♀ sent to W. D. Hunter are now in the RML collection (Bishopp #425).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	472	N	472
		RML	104960
	<u>Aponomma gervaisi</u>		5 ♂, 2 ♀, 6 N <u>Aponomma varanensis</u>
	<u>Bungarus fasciatus</u>		<u>Bungarus fasciatus</u>
	Probably Zoological Gardens, Calcutta, India		Probably Zoological Gardens, Calcutta, India
	1908		1908
	Sent by Mr. Annandale		Sent by Mr. Annandale
N	473 a		473 MISSING
	(473) <u>Boophilus decoloratus</u>		
	(a) <u>Rhipicephalus evertsi</u>		
	Sheep dying of Heartwater		
	Old "Umtali" Rhodesia, S. Africa		
	Sent 28.VIII.1908		
	Sent by Professor R. Wallace		
N	474	N	474 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Cape Colony, S. Africa		
	1908		
	Received from Mr. C. P. Lounsbury		

ORIGINAL DETERMINATIONCURRENT STATUS

N	475	N	475
		RML	104961
	<u>Ornithodoros moubata</u>		9 ♂, 4 ♀, 3 N <u>Ornithodoros moubata</u>
	Nairobi, Uganda, British East Africa		Nairobi (01.17 S, 36.49 E), Kenya
	3.X.1910		3.X.1910
	Dr. P. H. Ross		Dr. P. H. Ross
	Supposed to be infected with <u>Spirochaeta duttoni</u> . [Raised in Cambridge for several generations. Slides, balsam mounts, moults, etc.]		Slides missing. Also in this collection are 8 cast skins and eggs.
N	476	N	476
		RML	104962
	<u>Amblyomma variegatum</u> ♀ (gorged)		1 ♀ <u>Amblyomma variegatum</u>
	Cow		Cow
	Nyasaland, B. E. Africa		Malawi
	Sent 15.X.1908		Sent 15.X.1908
	Sent by Dr. J.E.S. Old		Sent by Dr. J.E.S. Old
N	477	N	477
		RML	104963
	<u>Boophilus decoloratus</u>		11 ♀ <u>Boophilus decoloratus</u>
	Nyasaland, B. E. Africa		Malawi
	Sent 15.X.1908		Sent 15.X.1908
	Sent by Dr. J.E.S. Old		Sent by Dr. J.E.S. Old

ORIGINAL DETERMINATIONCURRENT STATUS

N	478	N	478
		RML	104964
	<u>Rhipicephalus capensis</u> ♂, ♀'s		5 ♂, 6 ♀ <u>Rhipicephalus compositus</u>
	"Big game"		"Big game"
	Nyasaland, B. E. Africa		Malawi
	Sent 15.X.1908		Sent 15.X.1908
	Sent by Dr. J.E.S. Old		Sent by Dr. J.E.S. Old
N	479	N	479
		RML	104965
	<u>Rhipicephalus sanguineus</u>		4 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Bussorah		Al Basrah (30.30 N, 47.47 E), Iraq
	IX.1907		IX.1907
	Sent by Dr. Nattan-Larrier of Paris X.1908		Sent by Dr. Nattan-Larrier of Paris X.1908
N	480	N	480 MISSING
	<u>Argas persicus</u> larvae		
	Fowls, ducks, and turkeys		
	Bouchir		[Bouchir is probably Buchir (27.03 N, 53.35 E), Iran]
	III.1907		
	Sent by Dr. Nattan-Larrier of Paris X.1908		

ORIGINAL DETERMINATIONCURRENT STATUS

N	481	N	481
		RML	104966
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		2 ♂, 4 ♀ <u>Hyalomma dromedarii</u>
	Camels		Camels
	Western Australia, imported from India		Western Australia, imported from India
	Sent 25.IX.1908		Sent 25.IX.1908
	Sent by Dr. J. Burton Cleland, Gov't Bacteriologist, Dept. of State Medicine and Public Health, Central Board of Health, Perth, West Australia		Sent by Dr. J. Burton Cleland, Gov't Bacteriologist, Dept. of State Medicine and Public Health, Central Board of Health, Perth, West Australia
	"Shortly after the camels landed these ticks propagated themselves and were distributed amongst horses and cattle causing a good deal of irritation around their attachment". Sent with camel-lice (See louse-list No. 21) = <u>Haematopinus cameli</u>		Sir John Burton Cleland (1878-1971) Professor of Pathology, University of Adelaide 1920-1948; president Royal Society of South Australia, 1928 and 1941; knighted 1964.
N	482	N	482
		RML	104967
	<u>Amblyomma helvolum</u> 3 ♂, N		3 ♂ <u>Amblyomma helvolum</u>
	Iguana		Iguana
	St. John's Island, Singapore Straits Settlement		Sakijang Bendera, Pulau (01.13 N, 103.51 E), Singapore
	Received 6.X.1908		Received 6.X.1908
	Received from Dr. A. R. Wellington		Received from Dr. A. R. Wellington
			Cited: Robinson (1926: 219).

ORIGINAL DETERMINATIONCURRENT STATUS

483-492. Ticks received from Dr. J. C. Koningsberger X.1908, Zoological Museum, Buitenzorg, Java, who wrote, 22.VIII.1908, asking that the determinations be sent him and what specimens we could spare.

N	483	N	483
		RML	104968
	<u>Amblyomma sublaeve</u>		22 ♂, 2 ♀ <u>Amblyomma javanense</u>
	<u>Manis javanica</u>		<u>Manis javanica</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger
			Dr. Jacob Christian Koningsberger (1868-1951) former Minister of the Colonies, Chairman of Parliament in the Netherlands Indies, former director of the National Botanical Gardens and of the Zoological Museum and Laboratory of Buitenzorg.
N	484	N	484
		RML	104969
	<u>Aponomma gervaisi</u> 2 ♀		2 ♀ <u>Aponomma varanensis</u>
	<u>Python reticulatus</u>		<u>Python reticulatus</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	485	N	485 MISSING
	<u>Rhipicephalus sanguineus</u>		
	Java		
	Received X.1908		
	Received from Dr. J. C. Koningsberger		
N	486	N	486
		RML	104970
	<u>Amblyomma helvolum</u> 2. ♀		2. ♀ <u>Amblyomma helvolum</u>
	<u>Coluber onicephalus</u>		<u>Coluber onicephalus</u> (name not verified), Possibly <u>Gonyosoma oxycephalum</u> .
	Boie, Java		Boie, Java (locality not verified)
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger
			Cited: Robinson (1926: 219).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	487	N	487
		RML	104971
	<u>Aponomma exornatum</u>		31 ♂, 1 ♀, 10 N, 2 L <u>Aponomma varanensis</u>
	<u>Python reticulatus</u>		<u>Python reticulatus</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger
	1 ♂ to Dr. J.E.M. Boyd, Cambridge, 20.XII.1919; 1 ♂ to Dr. J. Gordon Thompson, London School of Tropical Medicine 8.I.1920; 1 ♂ to Dr. R. W. Hegner, Johns Hopkins, Baltimore 8.III.1920; 1 ♂ to Dr. R. J. Tillyard, Nelson, N.Z. VI.1920; 1 ♂ to Prof. Jules Bordet, Bruxelles, Belgium 30.VI. 1920		
N	488	N	488
		RML	104972
	<u>Rhipicephalus sanguineus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger

ORIGINAL DETERMINATIONCURRENT STATUS

N	489	N	489
		RML	104973
	<u>Amblyomma prolongatum</u>		11 ♂ <u>Amblyomma testudinarium</u>
	<u>Bos bubalus</u>		<u>Bubalus bubalis</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger
			Cited: Robinson (1926: 257).
N	490	N	490
		RML	104974
	<u>Amblyomma helvolum</u>		4 ♂, 1 ♀ <u>Amblyomma helvolum</u>
	<u>Ptyas (Zamenis) korros</u>		<u>Ptyas korros</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger
			Cited: Robinson (1926: 219).
N	491	N	491
		RML	104975
	<u>Amblyomma helvolum</u>		1 ♂ <u>Amblyomma helvolum</u>
	<u>Dipsas dendrophila</u>		<u>Boiga dendrophila</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger

ORIGINAL DETERMINATIONCURRENT STATUS

N	492	N	492
		RML	104976
	<u>Amblyomma helvolum</u> ♂'s, ♀'s		7 ♂, 1 ♀ <u>Amblyomma helvolum</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from J. C. Koningsberger
N	493	N	493
		RML	104977
	<u>Aponomma exornatum</u>		2 ♂, 3 N <u>Aponomma varanensis</u>
	<u>Naja sputatrix</u>		<u>Naja naja sputatrix</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger
N	494, a	N	494
		RML	104978
	(494) <u>Aponomma exornatum</u>		(494) 2 ♂ <u>Aponomma varanensis</u>
	(a) <u>Amblyomma helvolum</u>		(a) 3 ♂, 1 ♀ <u>Amblyomma helvolum</u>
	<u>Varanus salvator</u>		<u>Varanus salvator</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	495a-d	N	495a-d
		RML	104979
	(a) <u>Amblyomma testudinarium</u> (b) <u>Rhipicephalus haemaphysaloides</u> (c) <u>Haemaphysalis wellingtoni</u> (d) <u>Boophilus australis</u>		(a) 5 ♂ <u>Amblyomma testudinarium</u> (b) 2 ♂, 2 ♀ <u>Rhipicephalus pilans</u> (c) 4 ♀ <u>Haemaphysalis wellingtoni</u> (d) 18 ♀ <u>Boophilus microplus</u>
	<u>Bos indicus</u> and <u>Bos bubalus</u>		<u>Bos indicus</u> and <u>Bubalus bubalis</u>
	(a) Palembang, Sumatra (b-d) Java		(a) Palembang (02.55 S, 104.45 E), Sumatra, Indonesia (b-d) Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger (a) 1 ♀ to C. Strickland, Malaya (c) 1 ♀ to C. Strickland, Malaya		Received from Dr. J. C. Koningsberger 495a Cited: Robinson (1926: 257) 495c Cited: Nuttall and Warburton (1915: 481) who gave the locality as Palembang, Sumatra
N	496a-c	N	496a-c
		RML	104980
	(a) <u>Rhipicephalus haemaphysaloides</u> ♀'s (b) <u>Haemaphysalis papuana</u> (c) <u>Haemaphysalis koningsbergeri</u> (type)		(a) 1 ♂, 4 ♀ <u>Rhipicephalus pilans</u> (b) 1 ♂ <u>Haemaphysalis nadchatrami</u> (c) 1 ♂, 2 ♀ <u>Haemaphysalis koningsbergeri</u> Lectotype and paralectotypes.
	<u>Felis pardus</u>		<u>Panthera pardus</u>
	Java		Java, Indonesia
	Received X.1908		Received X.1908
	Received from Dr. J. C. Koningsberger		Received from Dr. J. C. Koningsberger Warburton and Nuttall (1909: 65), original description of H. <u>koningsbergeri</u> . The vulva of 1 ♀ of H. <u>koningsbergeri</u> has been removed and is on slide. Lectotype designated: Keirans and Brewster (1981: 162).

ORIGINAL DETERMINATIONCURRENT STATUS

N	497, a, b	N	497, b
		RML	104981
	(497) <u>Rhipicephalus capensis</u> var. <u>compositus</u>		(497) 3 ♂, 3 ♀ <u>Rhipicephalus compositus</u>
	(a) <u>Rhipicephalus sanguineus</u>		(a) MISSING
	(b) <u>Boophilus decoloratus</u>		(b) 1 ♀ <u>Boophilus decoloratus</u>
	Sheep and buffalo		Sheep and buffalo
	Ruo District, Nyasaland		Ruo Basin (15.54 S, 35.39 E), Malawi
	1906, Received 10.XI.1908		1906, Received 10.XI.1908
	Received from Dr. J.E.S. Old		Received from Dr. J.E.S. Old
N	498	N	498
		RML	104982
	<u>Rhipicephalus appendiculatus</u> (small)		10 ♂, 14 ♀ <u>Rhipicephalus kochi</u>
	Scabby goat		Scabby goat
	Ruo District, Nyasaland		Ruo Basin (15.54 S, 35.39 E), Malawi
	Received 10.XI.1908		Received 10.XI.1908
	Received from Dr. J.E.S. Old		Received from Dr. J.E.S. Old
			The back of the vial label bears the word "cotypes". The determination on the obverse is <u>R. neavei</u> although the catalogue determination is <u>R. appendiculatus</u> .

ORIGINAL DETERMINATIONCURRENT STATUS

N	499 <u>Ixodes canisuga</u> 1 larva Mole Longner Hall, Shrewsbury, England 10.XI.1908 Sent by Mr. R.F.L. Burton	N	499 MISSING
N	500 <u>Argas persicus</u> Persia Sent 21.XI.1908 Dr. Nattan-Larrier of Paris	N	500 MISSING
N	501 <u>Ixodes canisuga</u> ♀ Horse Cambridge Received 20.V.1908 Received from Mr. G. Banham F.R.C.V.S. 2 ♀ to N.Y. National Museum 18.IV.1913	N	501 RML 56922 25 ♀ <u>Ixodes canisuga</u> Horse Cambridge (52.13 N, 00.08 E), England Received 20.V.1908 Received from Mr. G. Banham F.R.C.V.S. 1 ♀ from the Bishopp Collection (Bishopp number 3230) is in the RML collection. Cited: Nuttall & Warburton (1911: 214).

ORIGINAL DETERMINATIONCURRENT STATUS

502-505. Ticks received from Dr. Graham, Medical Officer of Health,
Gold Coast, W. Africa, Dec. 1908.

N	502	N	502
		RML	104983
	<u>Aponomma laeve</u>		3 ♂, 9 ♀ <u>Aponomma latum</u>
	Large black snake		Large black snake
	Axim, Gold Coast, W. Africa		Axim (04.52 N, 02.14 W), Ghana
	1908		1908
	Received from Dr. Graham		Received from Dr. Graham
N	503	N	503
		RML	104984
	<u>Ixodes rarus</u>		4 ♀ <u>Ixodes cumulatimpunctatus</u>
	Leopard		<u>Panthera pardus</u>
	Obuasi, Ashanti, W. Africa		Obuasi (06.55 N, 01.41 W) Ashanti Region, Ghana
	1908		1908
	Received from Dr. Graham		Received from Dr. Graham
			Cited: Nuttall and Warburton (1911: 230).
			Cited: Arthur and Burrow (1957: 505).
N	504	N	504
		RML	96399
	<u>Haemaphysalis parvata</u>		2 ♂, 2 ♀, 1 N <u>Haemaphysalis parvata</u>
	Prahsu, Gold Coast		Prahsu (05.56 N, 01.22 W), Ghana
	1908		1908
	Dr. Graham		Dr. Graham
			Nuttall and Warburton (1915: 421) cite this collection as 2 ♂, 1 ♀, 2 N.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	505	N	505 MISSING
	<u>Ixodes rarus</u>		
	Man and dog		
	Kumasi, Ashanti, W. Africa		
	X.1907		
	Dr. Graham		
N	506	N	506
	<u>Ixodes angustus</u>	RML	104985
	<u>Sciurus hudsonicus</u>		2 ♀ <u>Ixodes angustus</u>
	Vancouver, British Columbia		<u>Tamiasciurus hudsonicus</u>
	Rec'd 10.XII.1908		Vancouver (49.15 N, 123.08 W), British Columbia, Canada
	Rec'd from T. Bowhill, F.R.C.V.S.		Rec'd 10.XII.1908
			Rec'd from T. Bowhill, F.R.C.V.S.
			Cited: Nuttall & Warburton (1911: 197).
507-508. Ticks received from Dr. H. Bayon, Medical Superintendent, Sesse S.S. Camp, Entebbe, Uganda, B.E. Africa 17.XI.1908:			
N	507	N	507
	<u>Haemaphysalis leachi</u> ♂ ♀	RML	104986
	Cattle		1 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	Lake Victoria, Nyanza		Cattle
	Rec'd 17.XI.1908		Lake Victoria, Nyanza (00.30S, 34.30E), Kenya
	Rec'd from Dr. H. Bayon		Rec'd 17.XI.1908
			Rec'd from Dr. H. Bayon

ORIGINAL DETERMINATIONCURRENT STATUS

N	508	N	508
		RML	104987
	<u>Aponomma exornatum</u>		22 ♂ <u>Aponomma exornatum</u>
	Water lizard		Water lizard
	Sesse Islands, Lake Victoria		Sese Islands (00.20 S, 32.20 E), Lake Victoria, Uganda
	Rec'd 17.XI.1908		Rec'd 17.XI.1908
	Rec'd from Dr. H. Bayon		Rec'd from Dr. H. Bayon
	Water lizard very common in Sesse Islands. 1 ♂, 1 ♀ to Dr. S. Hadwen British Columbia, Canada 10.X.1910. 1 ♂, 1 ♀ to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.I.1915. 1 ♂ to Launcelot Harrison, Australia 9.V.1919. 1 ♂ to Prof. M. Jesus Maynar Zaragoza, Spain 10.V.1919. 1 ♂ to Prof. Poulton, Oxford 26.V.1919. 1 ♂ to Prof. E. Hindle, Cambridge 24.IX.1919. 1 ♂ to Major Lothian, School of Hygiene, Blackpool 25.IX.1919.		
N	509	N	509 MISSING
	<u>Ixodes ricinus</u> 4 ♂, 2 ♀		
	Roe deer, <u>Cervus capreolus</u>		
	? British		
	Gift of Hon. N. C. Rothschild		
	Mounted on 5 slides (R982, 984-987)		

Ticks collected 1905-1907 in Ceylon by Mr. E. E. Green, F.E.S., who wants names, and, if possible, duplicates returned. Can give particulars of any numbered specimens by reference to his "Notes" on his return to Ceylon in Feb. 1909. Present address, Mote Hall, Bearsted, Kent (16.XII.1908).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	510	N	510
		RML	104988
	<u>Haemaphysalis bispinosa</u> 1 ♀		1 ♀ <u>Haemaphysalis bispinosa</u>
	Dog		Dog
	Ceylon		Sri Lanka
			I.1909
	E. E. Green		E. E. Green
			Edward Ernest Green (1861-1949), born in Ceylon, educated in England. Government Entomologist to Ceylon 1899-1913 and international authority on scale insects.
			Cited: Nuttall & Warburton (1915: 432).
N	511	N	511 MISSING
	<u>Rhipicephalus sanguineus</u> 2 ♀'s		
	Found on verandah wall		
	Ceylon		
	E. E. Green		
	Peradeniya, Ceylon, in June		
	Ret'd		

ORIGINAL DETERMINATIONCURRENT STATUS

N 512

N 512, a

RML 104995

Rhipicephalus sanguineus 4 ♀
(2 kept)2 ♀ Rhipicephalus haemaphysaloides
(a) 2 ♀ Amblyomma integrum

Ceylon

Sri Lanka

E. E. Green

E. E. Green

"Miscellaneous Ixodidae"

The Amblyomma integrum collection was not entered in the catalogue. The specimens were collected by Mr. Green at Matara (05.56 N, 80.33 E), Sri Lanka in 1906.

ORIGINAL DETERMINATIONCURRENT STATUS

N 513

N 513 MISSING

Rhipicephalus sanguineus

♂'s ♀'s

Cattle

Pullalam

(December)

E. E. Green

All sent back to Green

N 514

N 514

RML 104989

Hyalomma aegyptium1 ♂ Hyalomma marginatum isaaciLunugalla, Ceylon
4,000 ft.Lunugalla (07.01 N, 81.00 E),
4,000 ft. (1219 M), Sri Lanka

VII.1907

VII.1907

E. E. Green

E. E. Green

ORIGINAL DETERMINATIONCURRENT STATUS

N	515a, b	N	515a, b
		RML	76102
	(a) <u>Haemaphysalis bispinosa</u> <u>intermedia</u> n. sp. W & N 1909 (Type)		(515) 11 ♀ <u>Boophilus microplus</u>
	(b) <u>Haemaphysalis bispinosa</u> ♀		(a) 1 ♀ <u>Haemaphysalis intermedia</u> Lectotype
	Cattle		(b) 1 ♀ <u>Haemaphysalis bispinosa</u>
	Matara, Ceylon		Cattle
	VII.1906		Matara (05.56 N, 80.33 E), Sri Lanka
	E. E. Green		VII.1906
			E. E. Green
			(515) was not entered in the catalogue.
			(a) Warburton & Nuttall (1909: 69), original description.
			Hoogstraal & Trapido (1963b: 838) selection of lectotype; also cited: Nuttall & Warburton (1915: 432).
			The vulva of 515a is on a slide.
N	516	N	516 MISSING
	<u>Ixodes putus</u> 5 N's		
	<u>Diomedea salvinii</u> (albatross) no data		
	Gift of Hon. N. C. Rothschild		
	(5 slides R901-3, 905)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	517	N	517
	<u>Ixodes putus</u> 1 ♀	RML	104990
	<u>Uria lachrymans</u> (ringed guillemot) no data		5 ♂, 8 ♀, 3 N <u>Boophilus microplus</u>
			Cattle
			Matara (05.56 N, 80.33 E), Sri Lanka
			VII.1906
	Gift of Hon. N. C. Rothschild		E. E. Green
	[1 slide] (R934) slide missing [J.E.K.]		The collection data fit N 515 although the vial label indicates 517.
N	518	N	518
	<u>Ixodes putus</u> 5 larvae	RML	104991
	Puffin		4 ♂, 1 ♀ <u>Amblyomma integrum</u>
	Probably British		?host
			Sri Lanka
			1907
	Gift of Hon. N. C. Rothschild		E. E. Green
	[5 slides I-V] (R975-979) G.H.F.N. det. 12.II.1915 Slides missing [J.E.K.]		Robinson (1926: 114) cites this collection ex? cattle, Matara, Ceylon, 1906.
			Nuttall evidently duplicated the number 518. This collection was not entered in the catalogue.

ORIGINAL DETERMINATIONCURRENT STATUS

N 519

Haemaphysalis sp.? larvaeCervus axis

Vavuniya

Rec'd from Mr. E. E. Green

N 519

RML 104992

5 L Haemaphysalis sp.Cervus axisVavuniya (08.45 N, 80.30 E),
Sri Lanka

I.1909

Rec'd from Mr. E. E. Green

Dates for 517 - 519 taken from
vial labels.

N 520

Rhipicephalus sanguineus ♀ & eggs

Dog?

Returned to Green

N 520 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 521

N 521

Aponomma exornatum

RML 104993

13 ♂ Aponomma exornatumVaranus niloticusVaranus niloticusIguana
Pietermaritzburg, Natal,
S. AfricaPietermaritzburg (29.37 S,
30.23 E), Natal, Republic of
South Africa

4.XI.1908

4.XI.1908

Dr. W. Watkins Pitchford

Dr. W. Watkins Pitchford

"Dark chocolate brown, with metallic green and gold markings on back"....."Small ticks adhering in a closely packed patch to skin of under surface of base of tail posterior to anus. Their presence produces an ulceration. Commonly found in this situation at this season of the year. Blood films on host, examined at same time, show no recognizable abnormality." (All foregoing on label accompanying specimens) Thinks they may be new. See letter of 17.XI.1908 to G.H.F.N.

ORIGINAL DETERMINATIONCURRENT STATUS

N 522

N 522

RML 104994

Argas vespertilionis Nymph II1 N Argas vespertilionis

Guestline Rectory, Hastings

Guestline Rectory, Hastings
(50.51 N, 00.36 E), England

XII.1908

XII.1908

Rev. E. N. Bloomfield

Rev. E. N. Bloomfield

Rec'd. by C. Warburton 5.I.1909
 He has sent specimens he says to
 British Museum "It is almost
 certainly from the rare serotine
 bat of which there is a colony
 on an inaccessible part of the
 roof of my house." It was
 found at one time not uncommonly
 in the room below the bat colony.

N 523

N 523

RML 104996

Ixodes brunneus ♀
(minus hypostome, digits)1 ♀ Ixodes frontalisPasser montanusPasser montanusSt. Genes de Malgoire
(Gard) FranceSaint-Genies-de-Malgoires
(43.57 N, 04.13 E), France

16.XI.1908

16.XI.1908

Sent by Hon. N. C. Rothschild
 who received specimens from
 Albert Hugues, Naturalist

Sent by Hon. N. C. Rothschild who
 received specimens from Albert
 Hugues, Naturalist

Bird found dead with tick
 attached to neck.

ORIGINAL DETERMINATIONCURRENT STATUS

N 524, a

N 524, a

RML 104997

Haemaphysalis campanulata
(a) Boophilus sp. incert1 ♀ Haemaphysalis campanulata
(a) 7 ♀ Boophilus microplus

Cattle and horses

Cattle and horses

Wei-hai-Wei, China

Wei-Hai (37.30 N, 122.06 E),
Peoples Republic of China

Rec'd 5.I.1909

Rec'd 12.X.1908

Rec'd from Dr. W. M. Muat
Medical Officer of Health at
Wei-hai-Wei.Rec'd from Dr. W. M. Muat
Medical Officer of Health at
Wei-hai-Wei

Collection date from vial label

Cited: Nuttall & Warburton (1915; 492).

525-531. Ticks received January, 1909, from Mr. H. H. King, who collected them in Sudan (1908). He will give particulars later by reference to the letters which he has marked. Determined by C. Warburton.

N 525

N 525

RML 104998

Rhipicephalus sanguineus ♂'s ♀'s4 ♂, 6 ♀ Rhipicephalus sanguineus

Sudan

Sudan

1908

I.1908

ORIGINAL DETERMINATIONCURRENT STATUS

N	526	N	526	MISSING
	<u>Amblyomma lepidum</u> ♀ var. with long scutum			
	Sudan			
	1908			
N	527	N	527	
		RML	104999	
	<u>Amblyomma lepidum</u> 1 ♂		1 ♂ <u>Amblyomma variegatum</u>	
	Cattle		Cattle	
	Tonga, Upper White Nile		Tonga (09.28 N, 31.03 E), Sudan	
	Rec'd I.1909		Rec'd I.1909	
	H. H. King		H. H. King	
	Tick also said to occur in Uganda			
N	528	N	528	
		RML	109235	
	<u>Amblyomma tholloni</u> 1 ♀		1 ♀ <u>Amblyomma tholloni</u>	
	Elephant		<u>Loxodonta africana</u>	
	Sudan		Sudan	
	1908		1908	
	H. H. King		H. H. King	
			Cited: Robinson (1926: 252) but no Nuttall number given.	

ORIGINAL DETERMINATIONCURRENT STATUS

N	529	N	529
		RML	109236
	<u>Amblyomma lepidum</u> 4 ♂ (which we pro tem call <u>hebraeum-variegatum</u>)		4 ♂ <u>Amblyomma lepidum</u>
	Cattle		Cattle
	Tonga, Upper White Nile, Sudan		Tonga (09.28 N, 31.03 E), Sudan
	1909		1909
	H. H. King		H. H. King
	W. Dönitz det 14.III.1912		Cited: Robinson (1926: 96).
N	530	N	530
		RML	109237
	<u>Rhipicephalus sanguineus</u>		3 ♂, 1 ♀ <u>Rhipicephalus simus</u>
	Sudan		Sudan
	1908		1908
	H. H. King		H. H. King
N	531	N	531
		RML	109238
	<u>Aponomma exornatum</u> 1 ♂		1 ♂ <u>Aponomma flavomaculatum</u>
	Sudan		Sudan
	1908		1908
	H. H. King		H. H. King

ORIGINAL DETERMINATIONCURRENT STATUS

N 532 a-c

N 532c

RML 109239

- (a) Boophilus decoloratus ♀'s
 (b) Boophilus decoloratus ♂'s
 young ♀'s
 (c) Haemaphysalis leachi ♂'s & ♀'s

- (a) MISSING
 (b) MISSING

(c) 3 ♂, 4 ♀ Haemaphysalis leachi

Entebbe, Uganda, B.E. Africa

Entebbe (00.04 N, 32.28 E), Uganda

Rec'd 12.I.1909

Rec'd 12.I.1909

Rec'd from R. P. Riches

Rec'd from R. P. Riches

1 ♂, 1 ♀ to Prof. B. Galli-Valerio,
Lausanne, Switzerland, 14.III.19121 ♂, , ♀ to Prof. Dr. M. Miyajima
Tokio, Japan 7.III.19121 ♂, 1 ♀ to Dr. G. L. Tuck,
Tientsien, China 17.II.19121 ♂, 1 ♀ to A. H. Cockayne,
Wellington, N.Z.

(All ticks sent are from 532c)

N 533

Nuttall inadvertently omitted
this catalogue number.

534-538. Ticks received from Captain R. Ford (The Elms, Wisborough Green, Sussex 10.I.1909). Wants particulars and duplicates, which we do not need, returned. All from British East Africa.

N	534	N	534
		RML	109240
	<u>Rhipicephalus pulchellus</u> 3 ♂, 2 ♀		3 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	Zebra		<u>Equus burchelli</u>
	Athi Plains, 30 miles N of Nairobi (dry season).		Athi Plains (01.25 S, 36.53 E), Kenya
	10.III.1906		10.III.1906
	Capt. R. Ford		Capt. R. Ford
N	535	N	535
		RML	109241
	<u>Rhipicephalus pulchellus</u> 2 N's		2 N <u>Rhipicephalus pulchellus</u>
	Off R. Ford's body or that of a native boy		Off R. Ford's body or that of native boy
	Athi Plains, 30 miles N. of Nairobi (dry season)		Athi Plains (01.25 S, 36.53 E), Kenya
	9.III.1906		10.III.1906
	Capt. R. Ford		Capt. R. Ford
	(Found with one typical gorged ♀ from which N appears inornate; ♀ returned) 9.III.1906 Same source as No. 534.		Vial label date disagrees with catalogue.

ORIGINAL DETERMINATIONCURRENT STATUS

N	536	N	536
		RML	109242
	<u>Rhipicephalus pulchellus</u> 2 N's		2 N <u>Rhipicephalus</u> sp.
	Hartebeest		<u>Alcelaphus buselaphus</u>
	Harley's Land, 30 miles N. of Nairobi		Harley's Land, 30 miles N. of Nairobi, Kenya (locality not verified)
	10.III.1906		10.III.1906
	Capt. R. Ford		Capt. R. Ford
	Label states "identified by L. G. Neumann"		
N	537	N	537 MISSING
	<u>Rhipicephalus evertsi</u> (adults)		
	Hartebeest		
	30 miles N. of Nairobi		
	Capt. R. Ford		
	"Identified by A. S. Hirst, seen by Neumann," 1906. All returned to collector.		
N	538	N	538 MISSING
	<u>Dermacentor rhinocerotis</u> 3 ♂, 1 ♀ (kept 1 large ♂, 1 ♀)		
	Rhinoceros		
	Walo River, British East Africa		
	Capt. R. Ford		

ORIGINAL DETERMINATIONCURRENT STATUS

N 539

N 539 MISSING

Haemaphysalis leachi ♂Erinaceus albiventris

Gebel Auli, White Nile, Egypt

9.V.1900

S. & F. Witherby. Rec'd from
Hon N. C. Rothschild (No. 1036)
1908.

Det. by G.H.F.N. 27.I.1909
[1 ♂ mounted in balsam on slide]

540-543. Ticks received from Dr. J. C. Koningsberger 22.I.1909 from Buitenzorg, Java. Collected in Sumatra and Bali.

ORIGINAL DETERMINATIONCURRENT STATUS

N 540a-j

N 540a-d, f-j

RML 109243

(a) Amblyomma testudinarium ♂'s ♀(a) 13 ♂, 2 ♀ Amblyomma testudinarium(b) Rhipicephalus haemaphysaloides
3 ♂'s, 3 ♀'s(b) 2 ♂, 3 ♀ Rhipicephalus
pilans(c) Haemaphysalis proxima n. sp.
W & N 1909 1 ♀(c) 1 ♀ Haemaphysalis cornigera
TYPE of H. proxima
1 N Haemaphysalis cornigera
tentative ID in a separate vial(d) Boophilus australis ♂'s ♀'s & N's(d) 5 ♂, 34 ♀, 3 N Boophilus microplus(e) Amblyomma testudinarium ♂'s ♀'s

(e) MISSING

(f) Rhipicephalus haemaphysaloides
4 ♂'s(f) 4 ♂ Rhipicephalus pilans(g) Boophilus australis ♀'s ♀(g) 1 ♂, 17 ♀, 3 N Boophilus microplus(h) Amblyomma testudinarium ♂'s(h) 6 ♂, 1 N Amblyomma testudinarium(i) Rhipicephalus haemaphysaloides
♂'s ♀'s(i) 11 ♂, 1 ♀ Rhipicephalus pilans(j) Boophilus australis ♂'s ♀(j) 8 ♂, 35 ♀, 6 N Boophilus microplusBos bubalusBubalus bubalis

West Coast of Sumatra

West Coast of Sumatra

IX.1908

Dr. J. C. Koningsberger

Dr. J. C. Koningsberger

540d 1 ♂, 1 ♀ to Dr. J. H. Ashworth,
Edinburgh 22.VI.1910540h 1 ♂ to Prof. R. Matheson,
Cornell 27.V.1929540c Warburton & Nuttall (1909: 61),
original description of H. proxima.
The vulva of this ♀ has been removed
and is now on a slide.Collection date is on vial label
but not in catalogue.

540a & h cited: Robinson (1926: 257).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N.	541	N	541
			RML 109244
	<u>Amblyomma testudinarium</u> 3 ♂, 1 ♀		3 ♂, 1 ♀ <u>Amblyomma testudinarium</u>
	<u>Cervus</u> sp.		<u>Cervus</u> sp.
	Bali		Bali
	IX.1908		IX.1908
	Dr. J. C. Koningsberger		Dr. J. C. Koningsberger
			Cited: Robinson (1926: 257)
N	542	N	542
			RML 109245
	<u>Haemaphysalis parmata</u> 1 ♀ (bad specimen)		1 ♀ <u>Haemaphysalis</u> sp.
	<u>Equus cab.</u>		Horse
	Bali		Bali
	1908		1908
	Dr. J. C. Koningsberger		Dr. J. C. Koningsberger
			The vial label locality, German West Africa, is in error.
N	543	N	543
			RML 104246
	<u>Boophilus australis</u> ♀'s		6 ♀ <u>Boophilus microplus</u>
	<u>Bos</u>		<u>Bos</u> sp.
	Bali		Bali
	IX.1908		22.I.1909
	Dr. J. C. Koningsberger		Dr. J. C. Koningsberger
			Vial label date shows date received rather than date collected.

544-596. Ticks received from Hon. N. Charles Rothschild, M.A., 1908.
The numbers in brackets, thus [R253] are in accordance with his list:

ORIGINAL DETERMINATIONCURRENT STATUS

N	544	N	544	MISSING
	<u>Amblyomma</u> sp. not <u>varium</u>			
	<u>Bradypus</u> <u>tridactylus</u>			
	Brazil			
	[R253]			
N	545	N	545	
		RML	109247	
	<u>Amblyomma</u> sp.		1 ♀ <u>Amblyomma</u> <u>geoemydae</u> (tentative ID)	
	On ground		On ground	
	Paquil, Luzon		Paquil, Luzon, Philippines (locality not verified)	
	15.I.1895		15.I.1895	
	A. Everett		A. Everett	
	[R 258]			
N	546	N	546	
		RML	109248	
	<u>Amblyomma</u> <u>triguttatum</u>		4 ♀ <u>Amblyomma</u> <u>triguttatum</u>	
	Kangaroo		Kangaroo	
	Barrow Island, N.W. Australia		Barrow Island (20.48 S, 115.23 E), Australia	
	XI.1900		XI.1900	
	C. J. T. Tanney		C. J. T. Tanney	
	Det. by L. E. Robinson		Cited: Robinson (1926: 57) who indicated that ♂'s were also present in this collection.	

ORIGINAL DETERMINATIONCURRENT STATUS

N	547	N	547
		RML	109249
	<u>Amblyomma australiense</u> 6 ♂, 1 ♀		6 ♂, 1 ♀ <u>Amblyomma australiense</u>
	<u>Echidna aculeata</u>		<u>Tachyglossus aculeatus</u>
	Mt. Anderson, W. Australia		Mt. Anderson (17.58 S, 124.04 E), Australia
	C. J. T. Tanney		C. J. T. Tanney
	[R 274]		Robinson (1926: 135, 136) illustrated ♂ and ♀ from this collection. Taylor (1946: 100) repeated Robinson's descriptions and illustrations.
N	548	N	548 MISSING
	<u>Aponomma gervaisi</u>		
	Boa		
	II.1887		
	Given to D. S. MacLagan 14.X.1938 [R 257]		
N	549	N	549
		RML	109250
	<u>Hyalomma syriacum</u>		4 ♂ <u>Hyalomma aegyptium</u>
	Tortoise		Tortoise
	[R 254] 1 ♂, 1 ♀ to New York National Museum, New York City 18.IV.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N	550	N	550
		RML	109251
	<u>Aponomma decorosum</u>		2 ♂ <u>Aponomma decorosum</u>
	Australian monitor		Australian monitor
	[R 196]		
N	551	N	551 MISSING
	<u>Amblyomma triguttatum</u>		
	Kangaroo		
	Barrow Island, N. W. Australia		
	20.XI.1900		
	C. J. T. T.		
	[R 181]		
N	552	N	552
		RML	109252
	<u>Amblyomma triguttatum</u>		2 ♂, 3 ♀ <u>Amblyomma triguttatum</u>
	Kangaroo		Kangaroo
	Barrow Island, N. W. Australia		Barrow Island (20.48 S, 115.23 E), Australia
	XI.1900		20.XI.1900
	C. J. T. Tanney		
	[R 179]		Cited: Robinson (1926: 57). Date taken from vial label.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	553	N	553
	<u>Amblyomma triguttatum</u>	RML	109253
	Kangaroo		4 ♂, 13 N <u>Amblyomma triguttatum</u>
	Barrow Island, N. W. Australia		Kangaroo
	18.XI.1900		Barrow Island (20.48 S, 115.23 E), Australia
	C. J. T. Tanney		18.XI.1900
	[R 211]		C. J. T. Tanney
			Cited: Robinson (1926: 57).
N	554	N	554
	<u>Aponomma exornatum</u>	RML	109254
	<u>Monitor strix</u>		2 ♂ <u>Aponomma varanensis</u>
	? Australia		<u>Monitor strix</u> (name not verified)
	[R 236]		? Australia
			Collection probably not from Australia. The only collection of <u>A. varanensis</u> from Australia is the type ♂ of <u>A. quadratus</u> (an inornate form of <u>A. varanensis</u>). The single record may have been an accidental importation of tick and host.
N	555	N	555
	<u>Dermacentor rhinocerotis</u>	RML	109255
	No other data		7 ♂ <u>Dermacentor rhinocerinus</u>
	[R 2592]		There is an additional ♂ <u>D. rhinocerinus</u> mounted on a slide.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	556	N	556
		RML	109256
	<u>Aponomma hydrosauri</u>		2 ♂, 1 ♀ <u>Aponomma hydrosauri</u>
	? Adelaide, W. Australia		? Adelaide (34.55 S, 138.35 E), Australia
	[R 287]		
N	557	N	557
		RML	109257
	<u>Amblyomma cajennense</u>		1 ♂, 2 ♀ <u>Amblyomma cajennense</u> 3 ♂ <u>Amblyomma pecarium</u>
	Peccary		<u>Tayassu</u> sp.
	Marpat, Tabasco		San Andres, Estado de Tabasco (18.00 N, 92.40 W), Mexico
			30.V.?
	[R 198]		Robinson (1926: 53) incorrectly gave the Nuttall number 577.
N	558a, b	N	558a, b
		RML	109258
	(a) <u>Hyalomma aegyptium</u> ♂ ♀		(a) 1 ♂, 1 ♀ <u>Hyalomma rufipes</u>
	(b) <u>Amblyomma gemma</u> 2 ♂		(b) 2 ♂ <u>Amblyomma gemma</u>
	Giraffe		<u>Giraffa camelopardalis</u>
	[R 263]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	559	N	559
		RML	109259
	<u>Amblyomma tholloni</u> 1 ♀		1 ♀ <u>Amblyomma tholloni</u>
	Ruwenzori, Africa		Ruwenzori (00.23 N, 29.54 E), a mountain on the Uganda-Zaire border.
	1906		1906
	A. F. R. Wollaston		A. F. R. Wollaston
	[R 285]		Cited: Robinson (1926: 252).
N	560	N	560
		RML	109260
	<u>Amblyomma longirostre</u> 1 ♂		1 ♂ <u>Amblyomma longirostre</u>
	<u>Coendou simonsi</u>		<u>Coendou bicolor simonsi</u>
	Charuplaya, Bolivia		Charapaya (17.22 S, 66.45 W), Bolivia
	22.VI.1901		22.VI.1901
	P. O. Simons		P. O. Simons
	[R 260]		Cited: Robinson (1926: 140).
N	561	N	561
		RML	109261
	<u>Hyalomma syriacum</u>		4 ♂ <u>Hyalomma aegyptium</u>
	Algerian tortoise		Algerian tortoise
	Hon. N. C. Rothschild		Hon. N. C. Rothschild
	No R. number		

ORIGINAL DETERMINATIONCURRENT STATUS

N	562	N	562
		RML	109262
	<u>Amblyomma ovale</u>		2 ♂ <u>Amblyomma ovale</u>
	<u>Speothos venaticus</u>		<u>Speothos venaticus</u>
	Charuplaya, Bolivia		Charapaya (17.22 S, 66.45 W), Bolivia
	27.VI.1901		27.VI.1901
	P. O. Simons		P. O. Simons
	[R 261]		
N	563	N	563
		RML	109263
	<u>Dermacentor rhinocerotis</u> 10 ♂'s		7 ♂ <u>Dermacentor rhinocerinus</u>
	Rhinoceros		Rhinoceros
			Malawi
			1907
	[R 266]		Data on locality and date from
	1 ♂ to Dr. J. G. Parham,		Nuttall's notebook on ticks sent
	Portuguese East Africa 18.IV.1913		to various institutions and
	1 ♂ to N.Y. National Museum,		individuals.
	18.IV.1913		
N	564	N	564
		RML	109264
	<u>Amblyomma sublaeve</u>		6 ♂ <u>Amblyomma compressum</u>
	White-bellied Pangolin		<u>Manis tricuspis</u>
	[R 218]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 565

N 565

RML 109265

Amblyomma quasicyprium 1 ♀ TYPE1 ♀ Amblyomma cypriumAteles melanochirAteles g. geoffroyi

Frontera, Tabasco, Mexico

Frontera (18.32 N, 92.38 W),
Tabasco, Mexico

[R 243]

Robinson (1926: 237, 238)
incorrectly gave the Nuttall
number 564 for this collection.
Taylor (1946: 116) repeated
Robinson's error. Cited: Keirans
& Brewster (1981: 175).Both the locality and host are
incorrect for Amblyomma cyprium
although this ♀ appears to be
true A. cyprium.

N 566

N 566

RML 109266

Amblyomma ovale 1 ♀1 ♀ Amblyomma ovaleSpeothos venaticusSpeothos venaticus

Charuplaya, Bolivia

Charapaya (17.22 S, 66.45 W),
Bolivia

[R 270]

Robinson (1926: 29) gave the date
as 1900 and indicated the collection
contained only males.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	567	N	567
		RML	109267
	<u>Amblyomma albolimbatum</u>		2 ♂, 1 ♀ <u>Amblyomma albolimbatum</u>
	<u>Morelia variegata</u>		<u>Morelia spilotes variegata</u>
	Perth, W. Australia		Perth (31.56 S, 115.50 E), Australia
	Woodward		Woodward
	[R 282]		The specimens have a very slight second spur on coxae II.
N	568	N	568
		RML	109268
	<u>Amblyomma dissimile</u>		7 ♂, 2 ♀, 7 N <u>Amblyomma dissimile</u>
	Large snake		Large snake
	Small label seems to read thus - "Frontera Massacula" ? Tabasco		Probably Frontera (18.32 N, 92.38 W), Tabasco, Mexico
	May 1		1.V.1901
	[R 231]		Full date on vial label. Robinson (1926: 167) indicated the date as V.1900 and that only one female was present with the males.
N	569	N	569
		RML	109269
	<u>Amblyomma albolimbatum</u>		1 ♀ <u>Amblyomma albolimbatum</u>
	<u>Diemenia superciliosa</u>		<u>Diemenia textilis</u>
	Herdman's Lake, W. Australia		Herdman's Lake near Perth (31.56 S, 115.15 E), Australia
	[R 267]		Robinson (1926: 226) figured this ♀; on p. 227 he incorrectly gave the collection number as N 1569.

ORIGINAL DETERMINATIONCURRENT STATUS

N 570

N 570

Amblyomma marmoreum

RML 109270

2 ♂ Amblyomma marmoreum

Leopard tortoise

Leopard tortoise

Africa

[R 182]

Note to 570 from Mr. Robinson
17.XI.1922: "They originally
showed the characteristic
ornamentation, sufficient of
which is still visible, especially
if examined under alcohol, to
leave no doubt. The coarse
punctations are larger than
those seen in specimens off
Rhinoceros in East Africa, and
the dark ornamentation is more
salient, but I do not consider
these differences to be of
specific importance. The
other morphological characters
are typical."

N 571

N 571 MISSING

AponommaDiemenia superciliosa

Herdman's Lake, Perth, W. Australia

[R 279]

ORIGINAL DETERMINATIONCURRENT STATUS

N	572	N	572
		RML	109001
	<u>Haemaphysalis hystriasis</u>		3 ♀ <u>Haemaphysalis hystriasis</u>
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Lhassia, Assam, India		Lhassia, Assam (26.00 N, 92.00 E) India
	1907		1907
	R. A. Lorrain		R. A. Lorrain
	[R 288]		The specimens sent to L. O. Howard are now in the RML collection.
	1 ♂, 1 ♀ to L. O. Howard		Cited: Nuttall & Warburton (1915: 425); Hoogstraal et al.
	U.S.D.A. 21.V.1909.		(1965a: 476) gave combined collection data for N 572 & 573.
	1 ♀ to C. Strickland, Malaya		
N	573	N	573
		RML	109271
	<u>Haemaphysalis hystriasis</u>		2 ♀ <u>Haemaphysalis hystriasis</u>
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Lhassia, Assam, India		Lhassia, Assam (26.00 N, 92.00 E), India
	1907		1907
	R. A. Lorrain		R. A. Lorrain
	[R 293]		Hoogstraal et al (1965a) gave combined collection data for N 572 & 573.

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 574</p> <p><u>Haemaphysalis bispinosa</u></p> <p>No other data</p> <p>[R 294c]</p>	<p>N 574</p> <p>RML 109272</p> <p>10 ♂, 6 ♀, 1 N <u>Haemaphysalis bispinosa</u></p> <p>No other data</p>
<p>N 575</p> <p><u>Haemaphysalis hystricis</u> ♀</p> <p>No other data</p> <p>[R 243]</p>	<p>N 575</p> <p>RML 109273</p> <p>2 ♀ <u>Haemaphysalis hystricis</u></p> <p>No other data</p> <p>Nuttall 565 & 3330 also bear Rothschild No. R 243</p>
<p>N 575x</p> <p><u>Haemaphysalis leachi</u></p> <p><u>Hyaena crocuta</u></p> <p>Darje</p> <p>(Exp. Erlanger Hilgert)</p> <p>[R 163]</p>	<p>N 575x</p> <p>RML 109274</p> <p>1 ♂ <u>Haemaphysalis indica</u></p> <p><u>Hyaena hyaena</u></p> <p>Darje (Locality not verified) There is a Darhi in India and several localities spelled Dari in Pakistan where <u>H. indica</u> could be found.</p> <p>(Exp. Erlanger Hilgert)</p> <p>The catalogue number is N 575x but the number on the vial label is N 575a. Nuttall 1395 also bears Rothschild No. R 163.</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	576	N	576
		RML	109275
	<u>Haemaphysalis hystricis</u>		1 ♀, 1 N <u>Haemaphysalis hystricis</u>
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Lushai Mountains, Assam, India		Lushai Hills (23.10 N, 92.50 E), Assam, India
	1907		1907
	R. A. Lorrain		R. A. Lorrain
	[R 294a]		Nuttall & Warburton (1915: 425) indicated that this collection was composed of 1 ♂, 3 ♀. Hoogstraal et al. (1965a: 476) saw the ♀ labelled N 576ii. The nymph, in a separate vial bears the label N 576i.
N	577	N	577
		RML	109276
	<u>Haemaphysalis leachi</u>		1 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	<u>Ictonyx capensis</u>		<u>Ictonyx striatus</u>
	Bulawayo, S. Rhodesia, S. Africa		Bulawayo (20.09 S, 28.35 E), Zimbabwe
	3.IV.1907		3.IV.1907
	E. C. Chubb		E. C. Chubb
	[R 297]		Nuttall 595 also bears Rothschild No. R 294. Cited: Nuttall & Warburton (1915: 471).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	578	N	578
		RML	109277
	<u>Haemaphysalis leachi</u> (?) (not long enough)		2 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	<u>Luricata tetradactyla</u>		<u>Suricata suricata</u> subsp.
	Deelfontein, S. Africa		Deelfontein (20.12 S, 32.28 E), Zimbabwe
	1.IV.1902		1.IV.1902
	C. J. B. Grant		C. J. B. Grant
	[R 154]		Nuttall & Warburton (1915: 472) indicated the host genus as <u>Suricata</u> . However, the collection <u>Locality</u> appears to be out of the known range of the mierkat.
N	579	N	579
		RML	109278
	<u>Haemaphysalis campanulata</u>		2 ♂, 1 ♀ <u>Haemaphysalis campanulata</u>
	<u>Canis</u>		<u>Canis familiaris</u>
	Yokohama, Japan		Yokohama (35.26 N, 139.37 E), Japan
	24.IV.1902		24.IV.1902
	Allan Owston		Allan Owston
	[R 212]		Nuttall & Warburton (1915: 492) indicated the collection contained 2 ♂, 2 ♀ from a dog. Nuttall 609 also bears Rothschild No. R 212 but the data do not correspond to N 579.

ORIGINAL DETERMINATIONCURRENT STATUS

N	580	N	580
		RML	109279
	<u>Haemaphysalis punctata</u> ♂ ♀		1 ♂, 1 ♀ <u>Haemaphysalis punctata</u>
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	A. E. Shipley		A. E. Shipley
	[R 160] (Nuttall determined)		
N	581	N	581
		RML	109280
	<u>Haemaphysalis</u> sp. N (bad condition, very queer. C.W.)		1 N <u>Haemaphysalis</u> sp.
	Flying squirrel		Flying squirrel
	Bunguran, India		Possibly Bungura (26.20 N, 84.05 E), India
	[R 183]		
N	582	N	582
		RML	109281
	<u>Haemaphysalis bispinosa</u>		2 ♀ <u>Haemaphysalis bispinosa</u>
	<u>Equus</u>		<u>Equus caballus</u>
	Lushai Mts., Assam, India		Lushai Hills (23.10 N, 92.50 E), Assam, India
	26.VI.1907		26.VI.1907
	R. A. Lorrain		R. A. Lorrain
	[R 284]		Cited: Nuttall & Warburton (1915: 431).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	583	N	583
		RML	109282
	<u>Haemaphysalis bispinosa</u>		1 ♂, 1 ♀ <u>Haemaphysalis bispinosa</u>
	<u>Talpa</u>		<u>Talpa</u> sp.
	Lushai Mts., Assam, India		Lushai Hills (23.10 N, 92.50 E), Assam, India
	1907		1907
	R. A. Lorrain		R. A. Lorrain
	[R 291]		Cited: Nuttall & Warburton (1915: 431).
N	584	N	584
		RML	109283
	<u>Rhipicephalus haemaphysaloides</u>		3 ♂, 1 ♀ <u>Rhipicephalus</u> <u>haemaphysaloides</u>
	No other data		No other data
	[R 294b]		
N	585	N	585
		RML	109284
	<u>Rhipicephalus appendiculatus</u>		2 ♂ <u>Rhipicephalus muelhensi</u>
	No other data		No other data
	[R 242]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	586	N	586
		RML	109285
	<u>Rhipicephalus sanguineus</u> ♂		1 ♂ <u>Haemaphysalis</u> sp.
	Camel		Bear
	Unknown		Surnabad Transcaucasia
			VIII.1909
			Dr. E. Dschunkowsky
	[R 193]		Vial label reads N 586 but this collection has nothing to do with catalogue No. N 586. The Rothschild collection [R 193] is missing.
N	587	N	587 MISSING
	<u>Rhipicephalus sanguineus</u> 2 ♂		
	Zaghig		
	25.II.1908		
	N. C. Rothschild		
	[R 151]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	588	N	588
	<u>Boophilus</u> sp. <u>incert.</u>	RML	109286
	Entre-Rios, Argentina		10 ♀ <u>Boophilus</u> <u>microplus</u>
	IV.1897		Probably Provincia de Entra Rios (32.00 S, 59.00 W) although there are two small populated areas with the name Entra Rios at 23.18 S, 64.11 W and 28.50 S, 64.11 W which could have been the collection locality.
	Dr. C. Berg		IV.1897
	[R 255] [C. W. det 1918]		Dr. C. Berg
			This collection also contained 1 ♂ of the human sucking louse, <u>Pediculus</u> <u>humanus</u> .
N	589	N	589
	<u>Argas</u> <u>persicus</u>	RML	109287
	No other data		9 ♂, 6 ♀ <u>Argas</u> <u>persicus</u>
	[R 290]		No other data
N	590	N	590
	<u>Argas</u> <u>persicus</u>	RML	109288
	No other data		11 ♂, 4 ♀, 11 N <u>Argas</u> <u>persicus</u>
	[R 292]		No other data
	1 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916		

ORIGINAL DETERMINATIONCURRENT STATUS

N	591	N	591
		RML	109289
	<u>Argas vespertilionis</u> larvae		16 L <u>Argas vespertilionis</u>
	Bat		Bat
	[R 214]		
N	592	N	592
		RML	109290
	<u>Argas vespertilionis</u> larvae		3 L <u>Argas vespertilionis</u>
	<u>Scot'us wroughtoni</u>		<u>Scotophilus temmincki wroughtoni</u>
	Helwak near Satara, Western Ghâts, India		Helwak (17.22 N, 73.44 E), Maharashtra, India
	[R 195]		
N	593	N	593
		RML	109291
	<u>Argas vespertilionis</u>		3 L <u>Argas vespertilionis</u>
	<u>Vesperugo pipistrellus</u>		<u>Pipistrellus pipistrellus</u>
	Puttenham		Puttenham (51.49 N, 00.44 W), Hertfordshire, England
	28.VII.1899		28.VII.1899
	[R 224]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	594	N	594
	<u>Ornithodoros talaje</u>	RML	109292
	Nestlings		14 N <u>Ornithodoros capensis</u> group
	Arrows sand? Puhekiox, Hawaii		Nestlings
	30.VI.1900		Arrows sand? Puhekiox, Hawaii (locality not verified)
	H. W. Henshaw		30.VI.1900
	[R 240]		H. W. Henshaw
N	595	N	595 MISSING
	<u>Ornithodoros moubata</u>		
	No other data		
	[R 294]		
N	596	N	596 MISSING
	<u>Ornithodoros megnini</u> N's		
	Okanagen, British Columbia		
	12.XII.1902		
	Allan Brooks		
	[R 157]		
	1 ♂ to Col. A. Alcock, FRD, London School Tropical Medicine 26.I.1910		

597-613. Ticks received from Hon. N. C. Rothschild, M.A., during 1908.
The numbers in brackets thus [R 153] are in accordance with his list:

ORIGINAL DETERMINATIONCURRENT STATUS

N	597	N	597
		RML	109293
	<u>Ixodes hexagonus</u>		8 N, 1 L <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Belgium		Belgium
	E. A. Boulanger		E. A. Boulanger
	[R 153]		Cited: Nuttall & Warburton (1911: 183).
N	598	N	598
		RML	109294
	<u>Ixodes hexagonus</u>		1 ♀, 6 N <u>Ixodes hexagonus</u>
	Otter (<u>Lutra vulgaris</u>)		<u>Lutra lutra</u>
			England
	[R 206]		Nuttall & Warburton (1911: 182) indicated that collection was made in England.
N	599	N	599
		RML	109295
	<u>Ixodes hexagonus</u>		3 ♀, 4 N <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	[R 209]		Cited: Nuttall & Warburton (1911: 182).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	600	N	600
	<u>Ixodes hexagonus</u>	RML	109296
	Polecat		3 ♀, 1 L <u>Ixodes hexagonus</u>
	Boxworth		<u>Mustela putorius</u>
	30.IV.1901		Boxworth (52.16 N, 00.02 W), England
	[R 221]		30.IV.1901
			Cited: Nuttall & Warburton (1911: 182).
N	601	N	601
	<u>Ixodes hexagonus</u>	RML	16476
	Otter (<u>Lutra vulgaris</u>)		1 ♀, 41 L <u>Ixodes hexagonus</u>
	[R 208]		<u>Lutra lutra</u>
			England
			Nuttall & Warburton (1911: 182) indicated that the locality was England. One larva of this collection was donated to the Rocky Mountain Laboratory collection by P. A. Buxton, London School of Hygiene and Tropical Medicine in 1940 (See also N 1159). One addi- tional nymph was presented to Dr. F.C. Bishopp and is now in the RML collection (Bishopp 3232).
N	602	N	602
	<u>Ixodes hexagonus</u> ♀	RML	109297
	<u>Mustela erminea</u>		1 ♀ <u>Ixodes hexagonus</u>
	Tring, Herts		<u>Mustela erminea</u>
	19.V.1903		Tring (51.48 N, 00.40 W), Herts., England
	[R 222]		19.V.1903
			Cited: Nuttall & Warburton (1911: 182).

ORIGINAL DETERMINATION

CURRENT STATUS

N	603	N	603
		RML	109298
	<u>Ixodes hexagonus</u>		2 ♀, 1 N <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Wigginton		Wigginton (51.47 N, 00.38 W), Herts., England
	4.V.1903		4.V.1903
	Barrett		Barrett
	[R 179a]		Cited: Nuttall & Warburton (1911: 182).
N	604	N	604
		RML	109299
	<u>Ixodes hexagonus</u>		4 N <u>Ixodes hexagonus</u>
	<u>Mustela vulgaris</u>		<u>Mustela putorius</u>
	Tring, Herts		Tring (51.48 N, 00.40 W), Herts., England
	20.III.1902		20.III.1902
	[R 143]		Cited: Nuttall & Warburton (1911: 182).
N	605	N	605
		RML	109300
	<u>Ixodes hexagonus</u>		3 ♀ <u>Ixodes lividus</u>
	<u>Cotile riparia</u>		<u>Riparia riparia</u>
	Warsborough Bridge, Barnsley		Worsbrough Bridge (53.32 N, 01.28 W), Barnsley, England
	6.VII.1906		6.VII.1906
	A. Whitaker		A. Whitaker
	[R 164]		Cited: Arthur (1963: 92); Thompson (1967: 106).

ORIGINAL DETERMINATION

N 606
Ixodes hexagonus ♂'s, ♀'s & L
Polecat
Aberystwyth, Wales
26.XI.1902
[R 225]

CURRENT STATUS

N 606
RML 109301
3 ♀, 6 N, 8 L Ixodes hexagonus
Mustela putorius
Aberystwyth (52.25 N, 04.05 W),
Wales
26.XI.1902
Cited: Nuttall & Warburton
(1911: 183).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	607	N	607
		RML	109302
	<u>Ixodes hexagonus</u>		1 N, 7 L <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Tring, Herts		Tring (51.47N, 00.39 W) Herts, England
	3.IX.1902		3.IX.1902
	[R201]		Nuttall and Warburton (1911: 182) indicated that the collection contained only nymphs.
N	608	N	608
		RML	109303
	<u>Ixodes hexagonus</u>		4 N <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Dermburg		Durnberg (48.13 N, 11.55 E), Federal Republic of Germany
	3.IX.1898		3.IX.1898
	[R215]		Nuttall and Warburton (1911: 183) gave the spelling as Dernburg rather than the catalogue spelling of Dermburg.

ORIGINAL DETERMINATIONCURRENT STATUS

N	609	N	609
		RML	109304
	<u>Ixodes hexagonus</u> N		1 N <u>Ixodes hexagonus</u>
	Polecat		<u>Mustela putorius</u>
	Aberystwyth, Wales		Aberystwyth (52.25 N, 04.05 W), Wales
	23.XII.1902		23.XII.1902
	[R212]		Cited: Nuttall and Warburton (1911: 183) indicated that more than one nymph was in this collection.
N	610	N	610
		RML	109305
	<u>Ixodes hexagonus</u> N's, larvae		1 N, 15 L <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Tring, Herts.		Tring (51.48 N, 00.40 W) Herts., England
	7.V.1902		7.V.1902
	[R219]		Cited: Nuttall and Warburton (1911: 182).
N	611	N	611
		RML	109306
	<u>Ixodes hexagonus</u> N, larva		1 N, 1 L <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Lyndhurst		Lyndhurst (50.52 N, 01.34 W) Hants., England
	20.III.1901		20.III.1901
	G. Tate		G. Tate
	[R145]		Nuttall and Warburton (1911: 182) indicated that multiple nymphs and larvae were in this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	612	N	612
		RML	109307
	<u>Ixodes hexagonus</u> ♀'s, N's		1 ♀, 7 N <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Inismore		Inismore (54.18 N, 07.34 W), Ireland
	23.III.1902		23.III.1902
	[R180]		Cited: Nuttall and Warburton (1911: 183).
N	613	N	613
		RML	109308
	<u>Ixodes hexagonus</u> ♀'s, N's		5 N <u>Ixodes hexagonus</u>
	Stoat		<u>Mustela erminea</u>
	No other data		No other data
	[R202]		
N	614	N	614 MISSING
	<u>Ornithodoros moubata</u>		
	Nyasaland		
	Received 23.X.1908		
	Sent by Colonel W. B. Leishman		
	Fed 12.XI.1908 on a monkey with many <u>Spirochaeta duttoni</u> in its blood. Kept alive for study; adults, nymphs and eggs [1 ♀ mounted on slide in balsam]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 615

N 615

RML 109309

Rhipicephalus simus larvae9 N, 79 L Rhipicephalus simus
99 L Rhipicephalus simusParent ♀ from Transvaal,
S. Africa

Transvaal, S. Africa

Rec'd from A. Theiler

Rec'd from A. Theiler

Larvae raised in Cambridge.
Larvae hatched 11.VI.1908 lived
unfed in bottle 11.XII.1908, all
found dead 2.XII.1909
a) ditto (gorged) and some N's
fed on rabbit in Cambridge found
dead and shrivelled 2.XII.1909.
(see "biological notes")

Collection in two vials

N 616

N 616 MISSING

Haemaphysalis leachi unfed N's

Larvae from Cape Colony, S. Africa

Sent by Mr. C. P. Lounsbury

Unfed N's raised in Cambridge
from larvae (supposedly infected
strain). Found dead and shrivelled;
bottled 2.II.1909.

ORIGINAL DETERMINATIONCURRENT STATUS

N	617	N	617
		RML	109310
	<u>Ceratixodes putus</u> 1 ♀ (gorged) dilapidated		1 ♀ <u>Ixodes uriae</u>
	Wild duck		Wild duck
	No other data		No other data
	[R177]		Cited: Nuttall and Warburton (1911: 261).
N	618	N	618
		RML	109311
	<u>Ceratixodes putus</u> 1 ♂, 1 ♀, 2 N's		1 ♂, 1 ♀, 2 N <u>Ixodes uriae</u>
	British		British
	E. G. Wheler		E. G. Wheler
	[R220]		
N	619	N	619
		RML	109312
	<u>Ixodes tenuirostris</u> 1 ♂, 2 ♀		2 ♂, 2 ♀ <u>Ixodes trianguliceps</u>
	<u>Hypudaeus glareolus</u>		<u>Clethrionomys glareolus</u>
	Campfer		Campfer (46.28 N, 09.48 E), Switzerland
			7.VII.1904
	K. Jordan		K. Jordan
	[R147]		Date taken from vial label. Cited: Nuttall and Warburton (1911: 248).

ORIGINAL DETERMINATIONCURRENT STATUS

N	620	N	620 MISSING
	<u>Ixodes tenuirostris</u> 1 ♀		
	<u>Mus minutus</u> (Harvest mouse)		
	[R942] mounted on a slide		
N	621	N	621
	<u>Ixodes tenuirostris</u> N's	RML	109313
	<u>Sorex vulgaris</u>		1 N <u>Ixodes trianguliceps</u>
	Bevendean, Sussex		<u>Sorex araneus</u>
	VI.1899		Bevendean (50.51 N, 00.05 E), Sussex, England
	[R204]		VI.1899
			Nuttall and Warburton (1911: 248) indicated that more than one nymph was in the collection. Cited: Thompson (1968: 146).
			The capitulum is missing on the nymph.
N	622	N	622
	<u>Ixodes tenuirostris</u> ♀	RML	109314
	<u>Arvicola amphibius</u>		1 ♀ <u>Ixodes trianguliceps</u>
	Reservoir ...		<u>Arvicola terrestris</u>
	6.IV.1892		Reservoir ... England
	[R166]		6.IV.1892
			Nuttall & Warburton (1911: 248) indicated that the collection was from England. Cited: Thompson (1968: 146).

ORIGINAL DETERMINATIONCURRENT STATUS

N	623	N	623
		RML	109315
	<u>Ixodes tenuirostris</u> 2 ♀'s		2 ♀ <u>Ixodes trianguliceps</u>
	<u>Arvicola agrestis</u>		<u>Microtus agrestis</u>
	Tring, Herts.		Tring (51.48 N, 00.40 W), Herts., England
	[R197]		Cited: Nuttall and Warburton (1911: 248); Thompson (1968: 146).
N	624	N	624
		RML	109316
	<u>Ixodes tenuirostris</u> 1 ♀		1 ♀ <u>Ixodes trianguliceps</u>
	<u>Arvicola arvalis</u>		<u>Microtus arvalis</u>
	Campfer		Campfer (46.28 N, 09.48 E), Switzerland
	20.VII.1904		20.VII.1904
	K. Jordan		K. Jordan
	[R149]		Cited: Nuttall and Warburton (1911: 248).
N	625	N	625
		RML	109317
	<u>Ixodes tenuirostris</u> 3 ♀'s		3 ♀ <u>Ixodes trianguliceps</u>
	<u>Arvicola arvalis</u>		<u>Microtus arvalis</u>
	Campfer		Campfer (46.28 N, 09.48 E), Switzerland
	5.VII.1904		5.VII.1904
	K. Jordan		K. Jordan
	[R148]		Cited: Nuttall and Warburton (1911: 248).

ORIGINAL DETERMINATIONCURRENT STATUS

N 626

Ixodes scapularis ♂'s, ♀'sCariacus virginianusCraven Co., N. Carolina,
U.S. America

13.XI.1907

[R226] [det. C. Warburton 1909.
Found with N666].

N 626

RML 109318

4 ♂, 4 ♀ Ixodes scapularisOdocoileus virginianusCraven Co. (35.07 N, 77.03 W),
North Carolina, USA

13.XI.1897

Nuttall and Warburton (1911: 158)
gave the date of collection as
XI.1897. The date on the vial
label is 13.XI.1897.

N 627

Ixodes tenuirostris 1 ♀

British

From Mr. E. G. Wheeler

N 627

RML 109319

1 ♀ Ixodes trianguliceps

British

From Mr. E. G. Wheeler

ORIGINAL DETERMINATIONCURRENT STATUS

N	628	N	628	MISSING
	<u>Ixodes ricinus</u> ♀ and N			
	No other data			
	[R165]			
N	629	N	629	MISSING
	<u>Ixodes ricinus</u> 4 ♀'s			
	Stag			
	No other data			
	[R233]			
N	630	N	630	MISSING
	<u>Ixodes ricinus</u> 3 N's			
	<u>Sciurus vulgaris</u>			
	Timmer, Ireland			
	17.IV.1901			
	[R217]			
N	631	N	631	MISSING
	<u>Ixodes ricinus</u> 4 ♀'s			
	<u>Erinaceus europaeus</u>			
	Belgium			
	E. A. Boulanger			
	[R223]			

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	632	N	632 MISSING
	<u>Ixodes ricinus</u> 2 ♀'s		
	Fox		
	No other data		
	[R173]		
N	633	N	633
	<u>Amblyomma</u> sp. N's	RML	109320
	<u>Macropus</u>		8 N <u>Amblyomma</u> sp.
	No other data		<u>Macropus</u> sp.
			W. Australia
			28.VII.1900
	[R169]		Nuttall 644 also bears Rothschild no. R169 and gives the locality and date for this collection.

Note on distribution of certain species of ticks in Africa from information given by Mr. Harold H. King who brought in the specimens to examine. He stated that:

Rhipicephalus evertsi occurs on elephant at Taufikia
(Upper White Nile Province and at Tonga (U.W. Nile).
Haemaphysalis leachi occurs on hedgehogs and dogs at Taufikia.
(v. supra) Roseires (Blue Nile Province) and at Khartoum,
Aponomma laeve occurs on lizards at Taufikia (v. supra)
Prob? Amblyomma variegatum N's on lizard, Taufikia.

ORIGINAL DETERMINATIONCURRENT STATUS

N	634	N	634
	<u>Ixodes percavatus</u>		2 ♀, 2 N <u>Ixodes rothschildi</u> Lectotype and paralectotypes of <u>I. percavatus rothschildi</u>
	Puffin Wrongly labelled. <u>Ix putus</u> "(Pocock)" on back of label; no particulars. (Sent to Neumann who confirmed the identification II.1909).		<u>Fratercula arctica</u>
	[R159]		Nuttall & Warburton (1911: 221), original description of <u>Ixodes</u> <u>percavatus rothschildi</u> . Zumpt (1952: 17) gave specific rank to <u>Ixodes rothschildi</u> . Arthur (1953: 222-226) independently gave specif- ic rank to <u>I. rothschildi</u> . Arthur (1963: 134) referred to 2 ♀, 3 N in the type lot. There are now (IX.1977) only 2 ♀, 2 N present. Lectotype designated: Keirans & Brewster (1981: 167, 168).
N	635	N	635
	<u>Haemaphysalis doenitzi</u> ♂'s, ♀'s, N's TYPES	RML	88419 (LECTOTYPE) 88420 (PARALECTOTYPES)
	Water hen		1 ♀ <u>Haemaphysalis doenitzi</u> Lectotype 2 ♀ <u>Haemaphysalis doenitzi</u> Paralecto- types
	St. Johns Island, Singapore		Water hen
	Rec'd 8. II. 1909		Sakijang Bendera, Pulau (01.13 N, 103.51 E), Singapore
	Rec'd from Dr. A. R. Wellington		Rec'd 8. II. 1909
			Rec'd from Dr. A. R. Wellington
			Vulva of one ♀ is on a slide. War- burton & Nuttall (1909: 64) original description, stated 4 ♂, 3 ♀ in the type series. This total again stated by Nuttall & Warburton (1915: 483); Hoogstraal & Wassef (1973: 1102) selected the lectotype.

ORIGINAL DETERMINATIONCURRENT STATUS

N	636	N	636
		RML	109322
	<u>Aponomma exornatum</u>		6 ♂, 5 N <u>Aponomma exornatum</u>
	Water lizard		Water lizard
	Entebbe, Uganda, B. E. Africa		Entebbe (00.04 N, 32.28 E), Uganda
	Received 8.II.1909		Received 8.II.1909
	Dr. H. Bayon		Dr. H. Bayon
N	637	N	637
		RML	109323
	<u>Ixodes bicornis</u>		11 ♀ <u>Ixodes boliviensis</u>
	<u>Felis concolor</u>		<u>Felis concolor</u>
	[America]		[America]
	[R213]		Nuttall and Warburton (1911: 187) indicated only one ♀ in the collection.
N	638	N	638
		RML	109324
	<u>Ixodes loricatus</u> ♂ and ♀		1 ♂, 1 ♀ <u>Ixodes loricatus</u>
	<u>Didelphia</u>		<u>Didelphis</u> sp.
	Sapucay		Probably Sapucay (25.19 S, 56.55 W), Paraguay [see also Nuttall 1391].
	Foster		Foster
	[R276]		Cited: Nuttall and Warburton (1911: 269); Cooley and Kohls (1945: 190).

ORIGINAL DETERMINATIONCURRENT STATUS

N	639	N	639
		RML	109326
	<u>Ixodes loricatus</u>		1 ♂ <u>Ixodes loricatus</u>
	"Piquoti"		"Piquoti"
	No other data		No other data
	[R256]		[R256]
N	640	N	640
		RML	109327
	<u>Ixodes loricatus</u>		2 ♂, 2 ♀ <u>Ixodes loricatus</u>
	<u>Ateles melanochir</u>		<u>Ateles g. geoffroyi</u>
	Frontera, Tabasco, Mexico		Frontera (18.32 N, 92.38 W), Tabasco, Mexico
	[R241]		
	Compared with Neumann's types at Toulouse, 1910; agrees fully but Nu's type larger.		Cited: Nuttall and Warburton (1911: 269); Cooley and Kohls (1945: 190).
N	641	N	641
		RML	109328
	<u>Ixodes loricatus</u>		2 ♂, 1 L <u>Ixodes loricatus</u>
	<u>Didelphis aurita</u>		<u>Didelphis marsupialis</u>
	Brazil		Brazil
	24.XI.1901		24.XI.1901
	[R161]		Cited: Nuttall and Warburton (1911: 269); Cooley and Kohls (1945: 190).

ORIGINAL DETERMINATIONCURRENT STATUS

N	642	N	642
		RML	109329
	<u>Ixodes vestitus</u> 1 ♀, 1 N, 6 L		1 ♀, 5 N <u>Ixodes vestitus</u>
	<u>Diemenia superciliosa</u>		<u>Dimenia textilis</u>
	Herdman's Lake, near Perth, W. Australia		Herdman's Lake near Perth (31.56 S, 115.15 E), Australia
	B. H. Woodward		B. H. Woodward
	[R165]		Nuttall 628 also bears Rothschild no. R165; Nuttall & Warburton (1911: 255) indicated larvae as did the catalogue entry; Taylor (1946: 59, 60) repeated Nuttall & Warburton's description and figures. See also Roberts (1960: 451, 452).
N	643	N	643
		RML	109330
	<u>Ixodes holocyclus</u> 2 N's		2 N <u>Ixodes holocyclus</u>
	Perth, W. Australia		Perth (31.56 S, 115.15 E), Australia
	Woodward		B. H. Woodward
	[R265]		Cited: Nuttall & Warburton (1911: 238).

	<u>ORIGINAL DESCRIPTION</u>		<u>CURRENT STATUS</u>
N	644	N	644 MISSING
	<u>Ixodes holocyclus</u> 2 ♀		
	<u>Macropus</u> sp.		
	W. Australia		
	28.VII.1900		
	[R169]		
N	645	N	645
	<u>Ixodes australiensis</u> 3 ♀	RML	22284
	Tame dog		3 ♀ <u>Ixodes australiensis</u>
	Cranbrook, West Australia		<u>Canis familiaris</u>
	1.IV.1900		Cranbrook (34.18 S, 117.32 E), Australia
	J. T. Young		1.IV.1900
	[R275]		J. T. Young
			Cited Nuttall and Warburton (1911: 252); Taylor (1946: 57, 58) repeated Nuttall and Warburton's descriptions and figures.
			This collection was seen by Dr. R. A. Cooley in 1946.

ORIGINAL DETERMINATIONCURRENT STATUS

N 646

Ixodes australiensisBettongia lescuri

Kogonup (?), W. Australia

4.XI.1900

[R210]

N 646

RML 109331

8 ♀ Ixodes australiensisBettongia lesueuriKojonup (33.50 S, 117.09 E),
Australia

4.XI.1900

Cited: Nuttall and Warburton (1911: 252); Taylor (1946: 57, 58) repeated Nuttall and Warburton's description and figures. Roberts (1960: 440); Roberts (1970: 40) gave the correct spelling of the collecting locality.

N 647

Ixodes loricatus var spinosus
n. var., Nuttall, 1910 3 ♀

Large opossum

Frontera, Tabasco, Mexico

May

[R248] Found with 648
(Note long spine on coxa I)

N 647

RML 109332

2 ♀ Ixodes luciae
Lectotype and paralectotype of
Ixodes loricatus spinosus

Didelphis sp.Frontera (18.32 N, 92.38 W),
Tabasco, Mexico

May

Nuttall (1910: 411), original description; Nuttall and Warburton (1911: 269) repeated original description and figures. Lectotype designated: Keirans and Brewster (1981: 167).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	648	N	648
		RML	109333
	<u>Amblyomma</u> ? <u>cajennense</u> N's and Tarvae		16 N <u>Amblyomma</u> <u>cajennense</u>
	Large opossum		<u>Didelphis</u> sp.
	Frontera, Tabasco, Mexico		Frontera (18.32 N, 92.38 W), Tabasco, Mexico
	May		V.1901
	[R248] Found with Nuttall 647		Cited: Robinson (1926: 53). Date on vial label is May, 1901
N	649	N	649
		RML	109334
	<u>Ixodes</u> <u>vespertilionis</u> N		1 N <u>Ixodes</u> <u>vespertilionis</u>
	<u>Vespertilio</u> <u>tricolor</u>		<u>Myotis</u> <u>tricolor</u>
	Kei Road, Kingwilliamstown, S. Australia (The S. Australia crossed out and S. Africa inserted)		Kei Road, King William's Town (32.51 S, 27.22 E) South Africa
	Purchased of Capt. H. Trevelyan		Purchased of Capt. H. Trevelyan
	[R185]		Cited: Nuttall and Warburton (1911: 277; Taylor (1946: 41) considered <u>I. vespertilionis</u> , "very doubtfully Australian" and "original specimen is unfortunately lost". Hoogstraal (1956a: 569, 570) considered this collection to be of South African origin.

ORIGINAL DETERMINATIONCURRENT STATUS

N 650

Ixodes fecialis n. sp.
W & N, 1909 1 ♂ TYPE

Dasyurus geoffroyi

Cranbook, West Australia

5.III.1900

[R203]

N 650

RML 109335

1 ♀ Ixodes fecialis Holotype

Dasyurus geoffroyi

Cranbrook (34.18 S, 117.32 E),
Australia

5.III.1900

Warburton and Nuttall (1909: 58),
original description. Nuttall and
Warburton (1911: 248) repeated the
original description and figures as
did Taylor (1946: 56); Roberts (1960:
445) incorrectly gave the collection
date as March 1910.

N 651

Rhipicephalus evertsi ♂'s, ♀'s

Sent from Cape Colony, S. Africa

Lot a) sent 9.XII.1908

Lot b) sent 20.I.1909

Sent by Mr. C. P. Lounsbury
for our experiments

(infected adults; East Coast
Fever)

[5 slides ♂'s dissected, in
balsam]

N 651 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	652	N	652
		RML	109336
	<u>Ixodes unicavatus</u> 2 ♀		1 ♀, 1 N <u>Ixodes unicavatus</u>
	Shag		<u>Phalacrocorax aristotelis</u>
	Plymouth, England		Plymouth (50.23 N, 04.10 W), England
	IX.1897		IX.1897
	[R168]		Nuttall and Warburton (1911: 266) indicated that the collection consisted of only one nymph. Arthur (1963: 126) repeated this error.
N	653	N	653
		RML	109337
	<u>Amblyomma diminutivum</u> ?1 ♀ (died, now in spirit) [L.E.R. det. X.1914]		1 ♀ <u>Amblyomma dissimile</u>
	<u>Boa constrictor</u>		<u>Boa constrictor</u>
	Probably Brazil		Probably Brazil
	Bought on 11.II.1909		Bought on 11.II.1909
	A pet snake belonging to Mr. W. A. Harding, of Histon, Cambs., who bought it on 11.II.1909. The snake is probably from Brazil. It has been at least one year in England & since it was received from the dealer, Mr. Harding has kept it in a box in which other snakes had previously been kept, or in which other snakes were kept in companion- ship with the boa. These other snakes were from N. America, Africa & Australia. The tick was only noticed in January, & Harding thinks it could not have been there before because the snake is often handled, & it would have been seen.		Robinson (1926: 191) figured this specimen.

ORIGINAL DETERMINATIONCURRENT STATUS

N	654	N	654 MISSING
	<u>Rhipicephalus sanguineus</u>		
	Dog		
	Accra, W. Africa		
	VI.1908		
	Dr. W. M. Graham		
	Curious malformation: 2 anuses, 3 spiracles, etc. (See "Parasitology" 1909, II, p. 75) illustrated.		The reference is to Warburton & Nuttall (1909: 75).
N	655	N	655
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s, N's	RHL	109338
	Camels		20 ♂, 5 ♀ <u>Hyalomma anaticum</u> <u>excavatum</u>
	Biskra, S. Algeria		<u>Camelus dromedarius</u>
	Sent 12.II.1909		Biskra (34.51 N, 05.44 E), Algeria
	Sent by Mr. Ernest Hartert from Zoological Museum Tring, Herts.		Sent 12.II.1909
	1 ♂, 1 ♀ to Royal College of Surgeons, London 20.XII.1909		Sent by Mr. Ernst Hartert from Zoological Museum, Tring, Herts.

ORIGINAL DETERMINATIONCURRENT STATUS

N	656	N	656 MISSING
	<u>Ixodes ricinus</u> 2 larvae		
	<u>Mustela erminea</u>		
	Lyndhurst		
	25.VII.1900		
	G. Tate		
	[R205]		
N	657	N	657
		RML	109339
	<u>Ornithodoros savignyi</u>		4 ♂, 12 ♀, 40 N <u>Ornithodoros savignyi</u>
	"Camel ticks"		<u>Camelus dromedarius</u>
	Aden, India		Peoples Democratic Republic of Yemen
	Received 15.II.1909		Received 15.II.1909
	Dr. Alex MacRae		Dr. Alex MacRae
	Presented by Dr. J. H. Ashworth of Zoological Dept., The University, Edinburgh		In Nuttall's notebook on ticks sent to various individuals and institutions the date is given as "sent 15.IX.1909"
	Specimens sent to Col. A. Alcock FRS London School Tropical Medicine, Albert Dock 26.I.1910 and to W. F. Cooper 22.I.1910.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 658

N 658 MISSING

Argas persicus

Ivory Coast, Africa

Sent XII.1908 alive

Dr. Bouet

Sent by Dr. Marchoux (Paris)

N 659

N 659 MISSING

Argas persicus

Tunis, Africa

Sent XII.1908, alive

Dr. Nicolle

Sent by Dr. Marchoux (Paris)

660-665. Ticks collected by Dr. J. M. Dalziel at Katagum, N. Nigeria 1907.

N 660

N 660

RML 109340

Rhipicephalus sanguineus2 ♂, 2 ♀ Rhipicephalus sanguineus

Dogs, hares, etc.

Dogs, hares, etc.

Katagum, N. Nigeria

Katagum (12.50 N, 10.51 E),
Nigeria

9.IX.1907

9.IX.1907

Dr. J. M. Dalziel

Dr. J. M. Dalziel

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	661	N	661
		RML	109341
	<u>Aponomma exornatum</u> 2 ♂, 2 ♀		2 ♂, 1 ♀ <u>Aponomma flavomaculatum</u>
	<u>Varanus exanthematicus</u>		<u>Varanus exanthematicus</u>
	Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria
	23.VIII.1907		23.VIII.1907
	Dr. J. M. Dalziel		Dr. J. M. Dalziel
N	662	N	662
		RML	109342
	<u>Rhipicephalus sanguineus</u> N's		5 N, 2 L <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria
	20.VIII.1907		20.VIII.1907
	Dr. J. M. Dalziel		Dr. J. M. Dalziel

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	663	N	663
		RML	109343
	<u>Rhipicephalus simus</u> 1♂		1♂ <u>Rhipicephalus muhsamae</u>
	Dog		Dog
	Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria
	30.VI.1907		30.VI.1907
	Dr. J. M. Dalziel		Dr. J. M. Dalziel
N	664	N	664
		RML	109344
	<u>Amblyomma variegatum</u> 3♂ , 1 ♀		3♂ , 1♀ <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria
	8.VI.1907		8.VI.1907
	Dr. J. M. Dalziel		Dr. J. M. Dalziel
N	665	N	665
		RML	109345
	<u>Hyalomma aegyptium</u> 2♀		2♀ <u>Hyalomma truncatum</u>
	Cattle - goats - sheep		Cattle - goats - sheep
	Katagum, N. Nigeria		Katagum (12.50 N, 10.51 E), Nigeria
	6.VI.1907		6.VI.1907
	Dr. J. M. Dalziel		Dr. J. M. Dalziel

Note: Nos. 660-665 all collected by Dr. J. M. Dalziel were sent for determination, with other specimens, by J. H. Ashworth, Zoological Dept., The University, Edinburgh, 17.II.1909.

Note on distribution of ticks (none kept, returned to Dr. Ashworth)
Hyalomma aegyptium 1 ♂, 4 ♀'s off camel, Sheikh Othman, Aden, collected
 1906, by Dr. Alex MacRae.

ORIGINAL DETERMINATIONCURRENT STATUS

N 666

Dermacentor nigrolineatus ♀

Cariacus virginianus

Found with N 626 q.v. for
 details

13.X.1897

[R226] C.W. det. 1917

N 666

RML 109346

1 ♀ Dermacentor albipictus

Odocoileus virginianus

Craven Co. (35.07 N, 77.03 W),
 North Carolina, U.S.A.

13.X.1897

N 667

Ixodes unicavatus ♀'s, N's

Phalacrocorax graculus

Cromarty

10.III.1898

W. Roy

N 667

RML 109347

3 ♀, 10 N, 3 L Ixodes unicavatus

Phalacrocorax aristotelis

Cromarty (57.40 N, 04.02 W),
 Scotland

10.III.1898

W. Roy

Cited: Nuttall & Warburton (1911:
 266); Arthur (1963: 126); Thompson
 (1957: 215).

Note in vial "3 ♀ removed".

The 3 larvae are mounted on slides.

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	668	N	668
		RML	109348
	<u>Ixodes hexagonus</u> ♀'s, N's		2 ♀, 9 N <u>Ixodes hexagonus</u>
	<u>Mustela vulgaris</u>		<u>Mustela nivalis</u>
	Tring, Herts.		Tring (51.47 N, 00.39 W), Herts., England
	Received 10.III.1909		Received 10.III.1909
	F. J. Cox		F. J. Cox
			Cited: Nuttall & Warburton (1911: 182).
N	669	N	669
		RML	109349
	<u>Haemaphysalis humerosa</u> (n. sp. Warb. & Nutt., 1909)		2 ♂, 1 ♀, 1 N <u>Haemaphysalis humerosa</u> Lectotype and paralectotypes
	<u>Permeles macrura</u>		<u>Isoodon macrourus</u>
	Barrow Island, N.W. Australia		Barrow Island (20.48 S, 115.23 E). Australia
	[R178] 1 ♂ to Dr. L.O. Howard U.S.D.A. Washington D.C. 21.V.1909		Warburton and Nuttall (1909: 60), original description. Nuttall and Warburton (1915: 496) and Taylor (1946: 82) repeated original de- scription and figures. Roberts (1963: 39) discussed the type series and the note by Nuttall that one specimen was missing 20.X.1934. Vulva of ♀ is mounted on a slide. Lectotype designated: Keirans & Brewster (1981: 161).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	670	N	670
		RML	71004
	<u>Haemaphysalis elongata</u>		1♂ <u>Haemaphysalis elongata</u> 4♂ , 2 ♀ <u>Haemaphysalis tiptoni</u>
	<u>Centetes ecaudatus</u>		<u>Tenerec ecaudatus</u>
	Madagascar		Democratic Republic of Madagascar
	[R172]		Cited: Nuttall and Warburton (1915: 500); Hoogstraal (1953: 59) for <u>H. elongata</u> and p. 64 discussed the two species present in Nuttall and Warburton's (1915) figures and descriptions; Hoogstraal et al. (1974:481)
			Vulva of both ♀ <u>H. tiptoni</u> are mounted on slides.
671-677. Ticks received from Dr. H. Hearsey, Principal Medical Officer, Nyasaland, Africa 28.III.1909.			
N	671	N	671
		RML	109350
	<u>Rhipicephalus appendiculatus</u>		1♂ , 1♀ <u>Rhipicephalus appendiculatus</u>
	Nyala antelope		<u>Tragelaphus angasi</u>
	Chiromo, Ruo District, Africa		Chiromo (16.33 S, 35.08 E), Ruo District, Malawi
	20.II.1909		20.II.1909
	Received from Dr. H. Hearsey		Received from Dr. H. Hearsey

ORIGINAL DETERMINATIONCURRENT STATUS

N	672 a, b	N	672b
		RML	109351
	(a) <u>Amblyomma variegatum</u>		(a) MISSING
	(b) <u>Boophilus decoloratus</u>		(b) 1 ♂, 7 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Zomba, Nyasaland, Africa		Zomba (15.23 S, 35.20 E), Malawi
	1908		1908
	Received from Dr. H. Hearsey		Received from Dr. H. Hearsey
N	673a	N	673a MISSING
	<u>Amblyomma variegatum</u> 2 ♀		
	Sable antelope		
	Zomba, Nyasaland, Africa		
	1908		
	Received from Dr. H. Hearsey		
N	674	N	674 MISSING
	<u>Ixodes hexagonus</u> 3 ♀'s		
	<u>Myopotamus coypu</u>		
	? locality, host a rodent from S. America		
	Presented by Hon. N. C. Rothschild (R922-924)		
	(see record of 2 other ♀'s in Ticks Part II, p. 183) G.H.F.N. det. II.1915		

ORIGINAL DETERMINATION		CURRENT STATUS	
N	675 a, b	N	675a, b MISSING
	(a) <u>Rhipicephalus appendiculatus</u>		
	(b) <u>Melophagi</u>		
	Bush buck		
	Near Runyinya River, Nyasaland, Africa		
	1.XI.1908		
	Received from D. H. Hearsey		
N	676	N	676
		RML	109352
	<u>Boophilus decoloratus</u>		11♀ <u>Boophilus decoloratus</u> 1 vial of eggs in separate jar
	Cattle		Cattle
	Chintechi, West Nyasa District, Nyasaland, Africa		Chintechi (11.50 S, 34.10 E), Malawi
	X.1908		X.1908
N	677a, b	N	677a
		RML	109353
	(a) <u>Boophilus decoloratus</u>		(a) 5 ♀ <u>Boophilus decoloratus</u>
	(b) <u>Rhipicephalus appendiculatus</u>		(b) MISSING
	Zebra		<u>Equus burchelli</u>
	Near Dwangwa River, Marimba District, Nyasaland, Africa		Near Dwangwa River (12.31 S, 34.12 E), Malawi
	1908		1908
	Received from Dr. H. Hearsey		Received from Dr. H. Hearsey

ORIGINAL DETERMINATIONCURRENT STATUS

N	678	N	678
		RML	109354
	<u>Ixodes angustus</u> 1♀ (fide Banks)		1♀ <u>Ixodes angustus</u>
	<u>Tamus townsendi</u>		<u>Eutamias townsendi</u>
	Chilliwack, B.C.		Chilliwack (49.10 N, 121.57 W), British Columbia, Canada
	22.IV.1900		24.IV.1900
	Allan Brooks		Allan Brooks
			Cited: Nuttall and Warburton (1911: 198).
N	679	N	679
		RML	109355
	<u>Haemaphysalis hystrix</u>		2 ♂ <u>Haemaphysalis semermis</u>
	Federated Malay States		Malaysia
	Received 29.III.1909		Received 29.III.1909
	H. C. Pratt		H. C. Pratt
	2 ♂ to C. Strickland, Malaya		Hoogstraal et al. (1965b) gave the collection date as 29.III.1903.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
680-682. Ticks received from Dr. H. Bayon, Medical Superintendent, Bussu, Uganda, Africa; posted 6.III.1909.			
N	680a-d	N	680a, b
		RML	109356
	(a) <u>Boophilus</u> sp. N's		(a) 18 N <u>Boophilus</u> sp.
	(b) <u>Amblyomma variegatum</u>		(b) 14♂, 11♀ <u>Rhipicephalus pravus</u>
	(c) <u>Rhipicephalus appendiculatus</u>		(c) MISSING
	♂, ♀, N		(d) MISSING
	(d) <u>Amblyomma variegatum</u> N's		
	Cattle		Cattle
	Bussu		Probably Bussi Island (00.02 N, 32.20 E) Uganda
	1909		1909
	Received from Dr. H. Bayon		Received from Dr. H. Bayon
N	681, a	N	681
		RML	109357
	<u>Amblyomma nuttalli</u> ♂'s, 1♀.		7♂, 1♀ <u>Amblyomma nuttalli</u>
	(a) <u>Aponomma laeve</u>		(a) 1♂ <u>Aponomma latum</u>
	Tortoise		Tortoise
	Bussu, Uganda Protectorate		Probably Bussi Island (00.02 N, 32.20 E), Uganda
	Sent 6.III.1909		Sent 6.III.1909
	Sent by Dr. H. Bayon		Sent by Dr. H. Bayon
			Robinson (1926: 91, 93) figured a ♂ and ♀ from this collection. Cited: Theiler and Salisbury (1959: 115).

ORIGINAL DETERMINATIONCURRENT STATUS

N	682	N	682	MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s			
	Dog			
	Bussu - Busoga, Uganda Protectorate			
	Sent 6.III.1909			
	Sent by Dr. H. Bayon			
	Collection of the London School of Tropical Medicine (683-693)			
N	683	N	683	MISSING
	<u>Haemaphysalis bispinosa</u>			
	Dog			
	Calcutta, India			
	C.R.M. Green			
N	684	N	684	MISSING
	<u>Haemaphysalis spiniceps</u> n. sp.			
	Malay Peninsula			
	H. C. Pratt			
N	685	N	685	MISSING
	<u>Haemaphysalis hystericis</u> n. sp.			
	Malay Peninsula			
	H. C. Pratt			

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	686	N	686 MISSING
	<u>Haemaphysalis koningsbergeri</u>		
	<u>Paradoxurus</u>		
	Malay States		
	A. T. Stanton		
	Also contained two specimens (4a)		
	<u>H. dentipalpis</u> n. sp. and one (4b)		
	<u>H. vidua</u> n. sp.		
N	687	N	687 MISSING
	<u>Haemaphysalis hystricis</u> ♀		
	Wild boar		
	Malay States		
	A. T. Stanton		
N	688	N	688 MISSING
	<u>Haemaphysalis koningsbergeri</u>		
	<u>Viverra</u> sp.		
	Malay States		
	A. T. Stanton		
N	689	N	689 MISSING
	<u>Haemaphysalis papuana</u>		
	Sarawak, Borneo		
	A. R. Wellington		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	690	N	690 MISSING
	<u>Haemaphysalis leachi</u>		
	Uganda, Africa		
	H. Bayon		
N	691	N	691 MISSING
	<u>Haemaphysalis leachi</u>		
	Dog		
	Uganda, Africa		
	H. Bayon		
N	692	N	692 MISSING
	<u>Haemaphysalis leachi</u>		
	Ferret		
	Uganda, Africa		
	H. Bayon		

ORIGINAL DETERMINATIONCURRENT STATUS

N	693, a	N	693a
		RML	22234
	(693) <u>Haemaphysalis koningsbergeri</u> (a) <u>Haemaphysalis dentipalpis</u> n. sp. (which we have kept)		(693) MISSING (a) 2 ♂ <u>Haemaphysalis asiaticus</u> Lectotype and syntype of <u>H. dentipalpis</u>
	<u>Felis chaus</u>		<u>Felis chaus</u> (This cat does not occur in Malaysia)
	Malay States		Malaysia
	A. T. Stanton		A. T. Stanton
			Warburton & Nuttall (1909: 67), original description. Nuttall & Warburton (1915: 505) repeated original description and figures. Hoogstraal and Trapido (1966: 1176) selected lectotype.
N	694	N	694
		RML	109358
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		143 ♂, 41 ♀, 1 N <u>Amblyomma variegatum</u>
	Mpumu, Chagwe, Uganda		Mpumu (00.12 N, 32.50 E), Uganda
	Rec'd 30.IV.1909		Rec'd 30.IV.1909
	Sent by Sir David Bruce FRS		Sent by Sir David Bruce FRS
	Received in formalin, washed in water and placed in spirit (70%), large bottle. The original label read: " <u>Amblyomma variegatum</u> 394"		
	12		
	1 ♂, 1 ♀ to Dr. H. de B. Aragão 23.I.1910; 1 ♂, 1 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin 9.I.1910; 1 ♂, 1 ♀ to Dr. G. S. Graham-Smith, Medical Schools, Cambridge 19.I.1910; 1 ♂, 1 ♀ to E. E. Green, Government Entomologist, Ceylon 19.I.1910; 1 ♂, 1 ♀ to Dschunkowsky, Transcaucasus 19.I.1910; 1 ♂, 1 ♀ to Dr. Edmund Sergent, Algeria, N. Africa 19.IV.1910; 1 ♂, 1 ♀ to Dr. S. Hadwen, British Columbia, Canada 10.X.1913; 1 ♂, 1 ♀ to Dr. de Blicck, Java 22.I.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 695

N 695 MISSING

Haemaphysalis leachi 2♂'s, 1♀

Mpumu, Chagwe, Uganda

Received 30.IV.1909

Sent by Sir David Bruce

In a tube bearing number "10",
returned to Bruce. Two♂'s show
great contrast in size.

696-723. Collection of American ticks (696-723): received 6.V.1909,
having been sent by Dr. L. O. Howard (26.IV.1909), Chief of
the Division of Entomology, Dept. of Agriculture, Washington,
D.C., U.S.A. Mr. N. Banks is responsible for the labels on
the 28 tubes. I (G.H.F.N.) have stated the numbers and sexes
of each species.

N 696

N 696

RML 109359

Dermacentor variabilis 2♂, 2♀2♀ Dermacentor variabilis

Enterprise, Florida, U.S.A.

Enterprise (28.30 N, 81.15 W)
Florida, U.S.A.

Sent 26.IV.1909

Sent 26.IV.1909

From Dr. L. O. Howard; gift of U.S.D.A.

From Dr. L. O. Howard; gift of U.S.D.A.

1♀ to Dr. E. Pavlovsky, Leningrad
9.X.1925

Leland Ossian Howard (1857-1950),
Chief, Division of Entomology, U.S.D.A.
1894-1927 and one of America's eminent
entomologists. His life and work have
recently been reviewed by Russell (1978).

ORIGINAL DETERMINATIONCURRENT STATUS

N	697	N	697
		RML	109360
	<u>Dermacentor occidentalis</u> 2♂, 2♀		3♂, 1♀ <u>Dermacentor occidentalis</u>
	Barr's Ranch, Humboldt Co., California, U.S.A.		Barr's Ranch, Humboldt Co. (40.19 N, 123.55 W), California, U.S.A.
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.
N	698	N	698
		RML	109361
	<u>Dermacentor modestus</u> 1♂		1♂ <u>Dermacentor andersoni</u>
	Prescott, Washington, U.S.A.		Prescott (46.16 N, 118.12 W), Washington, U.S.A.
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.
N	699	N	699
		RML	109362
	<u>Dermacentor parumapertus</u> 1♂, 1♀		1♂, 1♀ <u>Dermacentor parumapertus</u>
	Lakeside, California, U.S.A.		Lakeside (32.52 N, 116.55 W), California, U.S.A.
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.
			This collection is from the type locality of <u>D. parumapertus</u> .

ORIGINAL DETERMINATIONCURRENT STATUS

N	700	N	700
		RML	109363
	<u>Dermacentor venustus</u> 2 ♀		2 ♀ <u>Dermacentor andersoni</u>
	Kaslo, British Columbia		Kaslo (49.55 N, 116.55 W), British Columbia, Canada
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.
			Vial label date incorrectly reads 26.IV.1906.
N	701	N	701
		RML	109364
	<u>Dermacentor nitens</u> 1 ♂, 1 ♀		3 ♀ <u>Anocentor nitens</u> (ex Marx coll.)
	Crescent City, Florida, U.S.A.		Crescent City (26.26 N, 81.30 W), Florida, U.S.A.
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.
N	702	N	702
		RML	109365
	<u>Dermacentor albipictus</u> 1 ♂, 1 ♀ (ex coll. Banks)		1 ♂, 1 ♀ <u>Dermacentor albipictus</u> (ex coll. Banks)
	Pullman, Washington, U.S.A.		Pullman (46.44 N, 117.10 W), Washington, U.S.A.
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.

ORIGINAL DETERMINATIONCURRENT STATUS

N	703	N	703
		RML	109366
	<u>Dermacentor marginatus</u> 1♂, 1♀ (ex coll. Banks)		1♂, 1♀ <u>Dermacentor parumapertus</u>
	Albuquerque, New Mexico		Albuquerque (35.05 N, 106.40 W), New Mexico, U.S.A.
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.
N	704	N	704
		RML	109367
	<u>Dermacentor variabilis</u> 1♂, 3♀ (ex coll. Banks)		3♀ <u>Dermacentor variabilis</u> (ex coll. Banks)
	Falls Church, Virginia, U.S.A.		Falls Church (38.53 N, 77.11 W), Virginia, U.S.A.
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.
			I believe Nuttall 3505 is also a portion of this collection.
N	705	N	705
		RML	109368
	<u>Amblyomma americana</u> 1♂, 2♀		1♂, 2♀ <u>Amblyomma americanum</u>
	Willow Springs, Missouri, U.S.A.		Willow Springs (36.59 N, 91.58 W) Missouri, U.S.A.
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of U.S.D.A.		From Dr. L. O. Howard; gift of U.S.D.A.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	706 <u>Amblyomma cajennense</u> ♂ 's, ♀ 's Rocks Resaca, Texas, U.S.A. Sent 26.IV.1909 From Dr. L. O. Howard; gift of U.S.D.A.	N	706 MISSING
N	707 <u>Amblyomma cajennense</u> ♂ 's, ♀ 's Jamaica Sent 26.IV.1909 From Dr. L. O. Howard; gift of U.S.D.A.	N	707 RML 109369 9 ♂, 1 ♀ <u>Amblyomma cajennense</u> Jamaica Sent 26.IV.1909 From Dr. L. O. Howard; gift of U.S.D.A. Cited: Robinson (1926: 53).
N	708 <u>Amblyomma tuberculatum</u> 1 ♂, 1 ♀ (ex coll. Marx) Crescent City, Florida, U.S.A. Sent 26.IV.1909. Collected 1893- 1894. From Dr. L. O. Howard; gift of U.S.D.A. L. E. Robinson det. 1926	N	708 RML 109370 1 ♂, 1 ♀ <u>Amblyomma tuberculatum</u> (ex coll. Marx) Crescent City (29.26 N, 81.30 W), Florida, U.S.A. Sent 26.IV.1909. Collected 1893-1894. From Dr. L. O. Howard; gift of U.S.D.A. Cited: Robinson (1926: 177).

ORIGINAL DETERMINATIONCURRENT STATUS

N 709

Amblyomma dissimile 1 ♂, 1 ♀

Guatemala

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.

N 709

RML 109371

1 ♂, 1 ♀ Amblyomma dissimile

Guatemala

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.

Cited: Robinson (1926: 167).

N 710

Amblyomma maculatum 1 ♂, 2 ♀

Victoria, Texas, U.S.A.

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.

N 710

RML 109372

2 ♂, 2 ♀ Amblyomma maculatumVictoria (28.48 N, 97.00 W),
Texas, U.S.A.

Sent 26.IV.1909

From Dr. L. O. Howard; gift of
U.S.D.A.

Cited: Robinson (1926: 44).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	711	N	711
		RML	59724
	<u>Amblyomma pilosum</u> 1 ♀		1 ♀ <u>Amblyomma macfarlandi</u> Paratype
	Galapagos Islands		Galapagos Islands
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of USDA		From Dr. L. O. Howard; gift of USDA
			Robinson (1926: 159, fig. 74) determined and illustrated this specimen as <u>A. pilosum</u> . Santos Dias (1958: 505) thought this specimen was the holotype of <u>A. pilosum</u> . Keirans et al (1973: 677), original description of <u>A. macfarlandi</u> .
N	712	N	712
		RML	109373
	<u>Boophilus australis</u> 4 ♀		1 ♂, 3 ♀ <u>Boophilus microplus</u>
	New South Wales, Australia		New South Wales, Australia
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of USDA		From Dr. L. O. Howard; gift of USDA
	2 ♀ to C. Strickland, Malaya		
N	713	N	713 MISSING
	<u>Boophilus annulatus</u> 2 ♂, 5 ♀		
	Texas, USA		
	Sent 26.IV.1909		
	From Dr. L.O. Howard; gift of USDA		

ORIGINAL DETERMINATIONCURRENT STATUS

N	714	N	714
		RML	109374
	<u>Ceratixodes putus</u> 1 ♀		1 ♀ <u>Ixodes uriae</u>
	Behring Island		Beringa, Ostrov (55.00 N, 166.15 W), USSR
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of USDA		From Dr. L. O. Howard; gift of USDA
			Cited: Nuttall & Warburton (1911; 261)..
N	715	N	715
		RML	109375
	<u>Ixodes angustus</u> 2 ♀		2 ♀ <u>Ixodes angustus</u>
	Glacier Bay, Alaska		Glacier Bay (58.45 N, 136.30 W), Alaska, USA
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of USDA		From Dr. L. O. Howard; gift of USDA
			Cited: Nuttall & Warburton (1911: 198).
N	716	N	716
		RML	109376
	<u>Ixodes kingi</u> 1 ♀		1 ♀ <u>Ixodes kingi</u>
	Death Valley, California		Death Valley (36.30 N, 117.00 W), California, USA
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of USDA		From Dr. L. O. Howard; gift of USDA
			Determination changed from <u>I.</u> <u>pratti</u> to <u>I. kingi</u> by G.H.F.N. 26.VII.1915. Cited and figured as <u>I. pratti</u> by Nuttall & Warburton (1911: 174); Nuttall (1916: 335).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	717	N	717
	<u>Ixodes cookei</u> 2 ♀	RML	109377
	Iowa, USA		2 ♀ <u>Ixodes cookei</u>
	Sent 26.IV.1909		Iowa, USA
	From Dr. L. O. Howard; gift of USDA		Sent 26.IV.1909
			From Dr. L. O. Howard; gift of USDA
			Cited: Nuttall & Warburton (1911: 184) as a variety of <u>I. hexagonus</u> .
N	718	N	718
	<u>Ixodes scapularis</u> 4 ♀	RML	109378
	Miami, Florida, USA		4 ♀ <u>Ixodes scapularis</u>
	Sent 26.IV.1909		Miami (25.46 N, 80.12 W), Florida, USA
	From Dr. L. O. Howard; gift of USDA		Sent 26.IV.1909
			From Dr. L. O. Howard; gift of USDA
			Cited and figured by Nuttall & Warburton (1911: 157) as a variety of <u>I. ricinus</u> .
N	719	N	719
	<u>Haemaphysalis leporis-palustris</u> 1 ♂, 1 ♀	RML	109379
	Victoria, Texas, USA		1 ♂, 1 ♀ <u>Haemaphysalis leporispalustris</u>
	Sent 26.IV.1909		Victoria (28.48 N, 97.00 W), Texas, USA
	From Dr. L. O. Howard; gift of USDA		Sent 26.IV.1909
			From Dr. L. O. Howard; gift of USDA
			Figured by Nuttall & Warburton (1915: 389).

ORIGINAL DETERMINATIONCURRENT STATUS

N	720	N	720
		RML	109380
	<u>Rhipicephalus texanus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Victoria, Texas		Victoria (28.48 N, 97.00 W), Texas, USA
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of USDA		From Dr. L. O. Howard; gift of USDA
			The RML collection contains 1 ♂, 2 ♀ COTYPES of <u>Rhipicephalus</u> <u>texanus</u> (RML 56742) collected from a dog, Victoria, Texas, 16.X.1906 by J. D. Mitchell. Nuttall 720 may possibly be part of that type series. See Banks (1908: 35).
N	721	N	721 MISSING
	<u>Argas miniatus</u>		
	Miami, Florida, USA		
	Sent 26.IV.1909		
	From Dr. L. O. Howard; gift of USDA		
N	722	N	722 MISSING
	<u>Ornithodoros megnini</u> 4 specimens		
	Mineral Springs, New Mexico		
	Sent 26.IV.1909		
	From Dr. L. O. Howard; gift of USDA		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	723	N	723
		RML	109381
	<u>Ornithodoros turicata</u> 5 specimens		6 N <u>Ornithodoros turicata</u>
	Burnet, Texas, USA		Burnet (30.46 N, 98.14 W), Texas, USA
	Sent 26.IV.1909		Sent 26.IV.1909
	From Dr. L. O. Howard; gift of USDA		From Dr. L. O. Howard; gift of USDA
N	724	N	724
		RML	109382
	<u>Ornithodoros moubata</u>		6 ♂, 4 ♀, 20 N <u>Ornithodoros moubata</u>
	Dowa Prison		Dowa Prison (13.41 S, 33.59 E), Malawi
	20.III.1909		20.III.1909
	Dr. E. H. A. Pask		Dr. E. H. A. Pask
	Sent by Dr. H. Hearsey, Principal Medical Officer, Nyasaland, Africa. Rec'd. 9.V.1909.		Cited: Merriman (1911: 171).
	Dr. Hearsey writes (30.III.1909) stating that Dowa is in the Central Angoniland District. He encloses a letter from Dr. E.H.A. Pask, Medical Officer, Dowa who writes to him (24.III.1909):- "The ticks are all collected in the prison at Dowa, which is literally alive with them. Some were obtained from the roof, others from sweepings from the floor whilst others were secured by making small holes in the walls and examining the dust obtained by poking with a piece of stick. It is rather strange that no cases of tick fever have been discovered among the pri- soners during the month that I've been here - in fact no cases of fever at all. The natives round here suffer a good deal from it, in fact, I have		

ORIGINAL DETERMINATIONCURRENT STATUS

N 724 (Continued)

found it commoner than malaria in cases that have come "up" for treatment; new-comers to the district seem to suffer the worst. My cook developed it after being here 12 days. The number of parasites found in the blood do not seem to have much relation to the severity of the attack. My cook had two very sharp attacks - he was very ill. Temperature 103-104° and spleen down to the umbilicus but the parasites in the blood were scanty, one or two to a slide, whilst a little girl who came "up" feeling comparatively well (slight headache and temperature 102) had numerous parasites in the blood, two in some fields. The parasites seem to be a good deal in length and the number of curves, 14, 20th; some have few curves whilst others eight or nine; the latter probably being really two parasites "end to end". The ticks transmitted are all, I think, Ornithodoros moubata.

Dr. George Wallace (6.V.1909) sent ticks to be identified, and being all common species, they were returned to him. They were all collected in Mauritius, and comprised:-

Amblyomma variegatum ♂'s, ♀'s, N's off cattle 16-18.XI.1908

Rhipicephalus evertsi ♂'s, ♀'s off cattle, goats 18.XI-6.XII.1908

Rhipicephalus appendiculatus ♂, ♀ off cow 18.XI.1908

N 725

N 725

RML 109383

Ornithodoros talaje 1♂1♂ Ornithodoros talaje

Brazil

Brazil

Rec'd 19.V.1909

Rec'd 19.V.1909

Through Col. A. Alcock, FRS,
London School of Tropical Medicine,
Royal Albert Dock

Dr. H. Bayon, of Bussu, Uganda, B. East Africa sent ticks 21.V.1909 to be determined, also 3 worms from the lung of a grass snake. The ticks were determined as follows:-

Amblyomma variegatum ♂'s, ♀'s)
Haemaphysalis leachi ♂'s, ♀'s)
Boophilus decoloratus ♂'s, ♀'s, N's) collected at Bussu, Uganda
Rhipicephalus appendiculatus ♂'s, ♀'s)

A large gray tick (♀) off a land tortoise has been kept, together with worms for identification purposes.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	726	N	726
		RML	109384
	<u>Ixodes brunneus</u> N		1 N <u>Ixodes spinipalpis</u>
	Neck of a "varied thrush"		<u>Ixoreus naevius</u>
	Vancouver, British Columbia		Vancouver (49.15 N, 123.08 W), British Columbia, Canada
	28.V.1909		28.V.1909
	Thomas Bowhill, FRCVS		Thomas Bowhill, FRCVS

727-743. Ticks from N. & W. Nyasa Districts of Nyasaland, collected by Dr. J. B. Davey, Karonga, N. Nyasa, and sent by him 14.IV.1909 to Dr. Hearsey. Preserved in 90% alcohol; all ticks preserved since Jan'y 1909, were killed by dropping them into boiling fluid (abs alcohol & 1:500 Hg perchloride, equal parts); those killed earlier were dropped into boiling water etc. Sent by Dr. H. Hearsey, P.M.O., Zomba Nyasaland:-

N	727	N	727	MISSING
	<u>Haemaphysalis leachi</u>			
	Native dog			
	Chizizi V., near Hewe River, Nyasaland			
	16.II.1909			
	J. B. Davey			

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	728	N	728 MISSING
	<u>Rhipicephalus sanguineus</u>		
	Leopard		
	Kambwi near Karonga, N. Nyasa, Nyasaland		
	14.IV.1909		
	J. B. Davey		
N	729, a	N	729
	(729) <u>Boophilus australis</u>	RML	109385
	(a) <u>Haemaphysalis leachi</u>		15 ♀ <u>Boophilus microplus</u>
	Cattle		(a) MISSING
	Karonga, N. Nyasa, Nyasaland		Cattle
	7.II.1909		Karonga (09.56 S, 33.56 E), Malawi
	J. B. Davey		7.II.1909
			J. B. Davey
N	730, a	N	730, a
	(730) <u>Rhipicephalus simus</u>	RML	109386
	(a) <u>Rhipicephalus lunulatus</u> 1 ♂		(730) 3♂, 1 ♀ <u>Rhipicephalus simus</u>
	Cattle		(a) 1 ♂ <u>Rhipicephalus lunulatus</u>
	Ohilindi V., near Kanyezi Hill, N. Nyasa, Nyasaland		Cattle
	14.II.1909		Ohilindi V., near Kanyezi Hill (14.18 S, 33.59 E), Malawi
	J. B. Davey		14.II.1909
			J. B. Davey

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	731, a-d	N	731b, c
		RML	109387
	(731) <u>Rhipicephalus sanguineus</u>		(731) MISSING
	(a) <u>Rhipicentor bicornis</u>		(a) MISSING
	(b) <u>Rhipicephalus lunulatus</u>		(b) 3 ♂, 2 ♀ <u>Rhipicephalus lunulatus</u>
	(c) <u>Rhipicephalus simus</u>		(c) 10 ♂, 6 ♀ <u>Rhipicephalus simus</u>
	(d) <u>Haemaphysalis teachi</u>		(d) MISSING
	Dog (terrier)		Dog (terrier)
	Journey Karonga = Forthill = Nyimbo = Misuko = Nkana = Karonga		Journey Karonga (09.56 S, 33.56 E), Chitipa (09.43 S, 33.16 E), Nyimbo Hill (09.41 S, 33.02 E), Misuku (09.40 S, 33.31 E), Nkana (locality not verified), Karonga, Malawi
	March-April, 1909		March-April, 1909
	J. B. Davey		J. B. Davey
	(731) 1 ♂, 1 ♀ to Royal College of Surgeons, London 20.XII.1909		731a - 1 ♂, 6 ♀ <u>Rhipicentor</u> <u>bicornis</u> are in the RML collection. <u>They were previously in the USNM</u> collection before it was trans- ferred to RML in 1971.
N	732	N	732
		RMI	109388
	<u>Rhipicephalus appendiculatus</u>		12 ♂, 1 ♀ <u>Rhipicephalus appendicu-</u> <u>latus</u>
	Cattle		Cattle
	Karonga, N. Nyasa		Karonga (09.56 S, 33.56 E), Malawi
	13.IV.1909		13.IV.1909
	J. B. Davey		J. B. Davey

ORIGINAL DETERMINATIONCURRENT STATUS

N	733	N	733	MISSING
	<u>Haemaphysalis leachi</u>			
	Native dog			
	Nyika Plateau, N. Nyasa, Nyasaland			
	22.II.1909			
	J. B. Davey			
N	734, a, b	N	734, a, b	
		RML	109389	
	(734) <u>Amblyomma variegatum</u>		(734) MISSING	
	(a) <u>Boophilus australis</u>		(a) 2 ♀ <u>Boophilus decoloratus</u>	
	(b) <u>Rhipicephalus simus</u>		(b) 1 ♀ <u>Rhipicephalus appendiculatus</u>	
	Cattle		Cattle	
	Fort Hill, N. Nyasa		Chitipa (09.43 S, 33.16 E), Malawi	
	26.I.1909		26.I.1909	
	J. B. Davey		J. B. Davey	
N	735	N	735	MISSING
	<u>Ornithodoros moubata</u>			
	From boys' houses			
	Fort Hill, N. Nyasa, Nyasaland			
	5.IV.1909			
	J. B. Davey			

ORIGINAL DETERMINATIONCURRENT STATUS

N	736	N	736
		RML	109390
	<u>Aponomma exornatum</u>		6 ♂ <u>Aponomma exornatum</u>
	Nostrils of a monitor "Muganzi"		Nostrils of a monitor "Muganzi"
	Ntawira, N. Nyasa		Ntawira (15.44 S, 35.05 E), Malawi
	28.XII.1908		28.XII.1908
	J. B. Davey		J. B. Davey
			Vial label incorrectly states the country as N. Nigeria
N	737	N	737
		RML	109391
	<u>Boophilus australis</u>		3 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Mwinweynia V. Sekwa River, N. Nyasa		Mwinweynia V. Sekwa Stream (10.05 S, 33.35 E), Malawi
	13.II.1909		13.II.1909
	J. B. Davey		J. B. Davey
N	738	N	738
		RML	109392
	<u>Rhipicephalus simus</u>		10 ♂, 1 ♀ <u>Rhipicephalus lunulatus</u>
	Bush-pigs		<u>Potamochoerus porcus</u>
	Kaporo, near Songwe River, N. Nyasa		Kaporo (09.45 S, 33.55 E), near Songwe River, Malawi
	6.I.1909		6.I.1909
	J. B. Davey		J. B. Davey

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	739	N	739
		RML	109393
	<u>Boophilus australis</u>		7 ♀ <u>Boophilus decoloratus</u> 1 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Karonga, N. Nyasa		Karonga (09.56 S, 33.56 E), Malawi
	7.II.1909		7.II.1909
	J. B. Davey		J. B. Davey
N	740	N	740
		RML	105674
	<u>Rhipicephalus simus</u>		11 ♂, 10 ♀ <u>Rhipicephalus simus</u> 2 ♀, <u>Rhipicephalus supertritus</u> 1 ♀, <u>Rhipicephalus tricuspis</u>
	Wart-hog		<u>Phacochoerus aethiopicus</u>
	Near Kanyanzezi Hill, N. Nyasa		Near Kanyanzezi Hill (10.12 S, 33.35 E), Malawi
	14.II.1909		14.II.1909
	J. B. Davey		J. B. Davey
N	741	N	741
		RML	109394
	<u>Rhipicephalus neavei</u> 2 ♂'s (like small <u>nitens</u>)		2 ♂ <u>Rhipicephalus kochi</u>
	Bush-buck		<u>Tragelaphus scriptus</u>
	Near Runyinya River, N. Nyasa		Near Runyinya River (10.59 S, 33.44 E), Malawi
	1.XI.1908		1.XI.1908
	J. B. Davey		J. B. Davey
	(With <u>Hippobosca</u>)		There is a cotype label in the vial with these specimens. However the only collection cited by Warburton (1912: 9) as being cotypes of <u>Rhipicephalus neavei</u> was Nuttall 1414

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	742 <u>Haemaphysalis leachi</u> N Civet-cat Karonga, N. Nyasa, Nyasaland 13.I.1909 J. B. Davey	N	742 MISSING
N	743, a, b (743) <u>Amblyomma variegatum</u> (a) <u>Boophilus australis</u> (b) <u>Rhipicephalus</u> sp. Cattle Mwinipigi V. near Songwe River, N. Nyasa 11.III.1909 J. B. Davey	N	743a, b RML 109395 (743) MISSING (a) 2 ♀ <u>Boophilus decoloratus</u> (b) 3 ♂, 1 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u> Cattle Mwinipigi V., near Songwe River (09.43 S, 33.56 E), Malawi 11.III.1909 J. B. Davey
N	744 <u>Amblyomma marmoreum</u> ♀ (possibly the unknown ♀ of <u>A. clypeolatum</u>) Land tortoise Bussu, Uganda, B.E. Africa Sent 27.IV.1909 Sent by Dr. H. Bayon	N	744 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 745

Dermacentor albipictus 1 ♀

Coast deer

British Columbia, Canada

2.XII.1908

T. Bowhill

N 745

RML 109396

1 ♀ Dermacentor albipictusOdocoileus hemionus

British Columbia, Canada

2.XII.1908

T. Bowhill

N 746

Ixodes hexagonus larvae

Polecat

Aberystwyth, Wales

VIII.1900

[R 232]

N 746 MISSING

1 N, 3 L Ixodes hexagonus from
Nuttall 746 are in the general
tick collection of the BM(N.H.)

ORIGINAL DETERMINATIONCURRENT STATUS

N 747
Dermacentor ? albipictus larvae
 Cow (with redwater)
 Fraser Valley, British Columbia
 Rec'd. V.1909
 T. Bowhill
 Parent ♀ from a cow.
 Oviposition began 25.I.1909.
 Maintained at 29°C. the larvae
 appeared 12.V.1909. (They all
 arrived dead in Cambridge.)
 Note: ex Bowhills' letter of
 16.V.1909. [5 larvae mounted
 in balsam on 2 slides.]

748-750. Ticks collected by Dr. E.H.A. Pask, at Dow_a, Central Angoniland,
 April 7, 1909. Sent by Dr. H. Hearsey, Principal Medical Officer, Zomba,
 Nyasaland, May 17, 1909:-

N 748, a
 (748) Rhipicephalus sanguineus
 (a) Rhipicephalus simus
 Dogs and man
 Lilongwe, Central Angoniland
 7.IV.1909
 Dr. E.H.A. Pask

N 748, a
 RML 109397
 (748) 9 ♂, 9 ♀ Rhipicephalus
sanguineus
 (a) 1 ♂ Rhipicephalus simus
 Dogs and man
 Lilongwe (13.59 S, 33.47 E), Malawi
 7.IV.1909
 Dr. E.H.A. Pask

ORIGINAL DETERMINATIONCURRENT STATUS

N	749, a	N	749
		RML	109398
	(749) <u>Rhipicephalus simus</u>		(749) 5 ♂, 3 ♀ <u>Rhipicephalus simus</u>
	(a) <u>Haemaphysalis leachi</u>		(a) MISSING
	Native dog		Native dog
	Chirua River, Central Angoniland		Chirua River (13.25 S, 34.19 E), Malawi
	6.V.1909		6.V.1909
	Dr. Pask		Dr. Pask
N	750, a	N	750
		RML	109399
	(750) <u>Hyalomma aegyptium</u> 1 ♂, ♀'s		(750) 4 ♂ <u>Hyalomma truncatum</u>
	(a) <u>Amblyomma variegatum</u> 2 ♂'s		(a) MISSING
	Cattle		Cattle
	Dowa, Central Angoniland		Dowa (13.41 S, 33.59 E), Malawi
	14.IV.1909		14.IV.1909
	Dr. Pask		Dr. Pask
751-755. Ticks collected by Mr. S. A. Neave in Rhodesia. Sent to us by Mr. K. Wilkinson (Secretary, Manchester Museum. The Victoria University of Manchester) at the request of Dr. C. Gordon Hewitt on July 21st, 1909. They were determined by Mr. C. Warburton, as follows:-			
N	751	N	751 MISSING
	<u>Hyalomma aegyptium</u>		
	Giraffe (<u>Giraffa camelopardalis</u>)		
	Mid Luangwa Valley, N.E. Rhodesia		
	27.VII.1905		
	Mr. S. A. Neave		

ORIGINAL DETERMINATIONCURRENT STATUS

N	752	N	752
		RML	109400
	<u>Rhipicephalus capensis</u>		1 ♂, 2 ♀ <u>Rhipicephalus compositus</u>
	Buffalo (<u>Bubalus caffer</u>)		<u>Syncerus caffer</u>
	Msofu River, Alala Plateau, N.W. Rhodesia (about 75 miles NE of Broken Hill Rhodesia)		Msofu River, Alala Plateau about 121 km NE of Kabwe (14.27 S, 28.27 E), Zambia
	22.IV.1905		22.IV.1905
	S. A. Neave		S. A. Neave
			Sheffield Airey Neave (1879-1961) took part in expeditions to various parts of Africa from 1904-1914. Director of what is now the Commonwealth Institute of Entomology 1942-1946.
N	753	N	753 MISSING
	<u>Rhipicephalus evertsi</u>		
	Zebra (<u>Equus brischelli</u>)		
	Petauke Luangwa Valley, N.E. Rhodesia		
	30.XII.1905		
	S. A. Neave		

ORIGINAL DETERMINATIONCURRENT STATUS

N 754

N 754

RML 109401

Haemaphysalis leachi var. indica
1 ♀1 ♀ Haemaphysalis leachiMongoose (Helogale varia)Helogale parvula variaMsofu River, Alala Plateau,
N.W. Rhodesia (about 75 miles N.E.
of Broken Hill Railhead)Msofu River, (13.27 S, 29.03 E),
Alala Plateau about 121 km N.E.
of Kabwe, Zambia

7.XI.1905

7.XI.1905

Cited: Nuttall & Warburton (1915:
471). There is a blue TYPE label
in the vial and the genital aper-
ture has been removed and mounted
on a slide.

N 755

N 755

RML 109402

Amblyomma pomposum1 ♂ Amblyomma pomposumSable antelope, Egoceros nigerHippotragus nigerMsofu River, Alala Plateau,
N.W. Rhodesia (about 75 miles
N.E. of Broken Hill, Railhead)Msofu River, (13.37 S, 29.03 E),
Alala Plateau about 121 km N.E.
of Kabwe, Zambia

7.XI.1905

7.XI.1905

S. A. Neave

S. A. Neave

This specimen had been previously
described as A. variegatum with
the comment (n. var., received by
us before, but not described).Date on vial label is 8.XI.1905.
Cited: Robinson (1926: 100).
Figure 45 is of a ♀ from this
lot now pinned and in the BMNH
collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 756

Hyalomma syriacum 2 ♂'sTestudo

Grantchester, Cambs.

18.VI.1909

E. S. Hay

N 756

RML 109403

2 ♂ Hyalomma aegyptiumTestudo sp.Grantchester (52.10 N, 00.06 E),
Cambs., England

18.VI.1909

E. S. Hay

N 757

Ornithodoros moubata

Inhambane, Portuguese East Africa

Sent 4.VI.1909

Sent by C. W. Howard, Government
Entomologist, Lourenco Marques

N 757 MISSING

N 758

Ornithodoros savignyi

N. Transvaal, S. Africa

Sent 4.VI.1909

Sent by Mr. C. W. Howard

N 758

RML 109404

1 ♀ Ornithodoros savignyi

N. Transvaal, S. Africa

Sent 4.VI.1909

Sent by Mr. C. W. Howard

ORIGINAL DETERMINATIONCURRENT STATUS

N	759	N	759
		RML	71487
	<u>Hyalomma</u> n. sp.		10 ♂ <u>Hyalomma</u> <u>kumari</u>
	Goats		Goats
	Agra, India		Agra (27.11 N, 78.01 E), India
	Rec'd 27.VII.1909		Rec'd 27.VII.1909
	Rec'd from Dr. E. H. Hankin		Rec'd from Dr. E. H. Hankin
	(Like 766: Montgomery's "19" also from India)		An additional 5 ♂ are now in the NAMRU-3 collection (HH 2742). Cited: Kaiser & Hoogstraal (1964: 262).
	760-767. Ticks sent by Captain R. E. Montgomery, I.M.S. (from collection in the Liverpool School of Tropical Medicine, Liverpool), all collected in India, as follows:		
N	760	N	760
		RML	109405
	<u>Haemaphysalis</u> <u>montgomeryi</u> n. sp., ♂		1 ♂ lectotype <u>Haemaphysalis</u> <u>montgomeryi</u>
			4 ♂, 2 ♀ paralectotype <u>Haemaphysalis</u> <u>montgomeryi</u>
	Ear of pony		Ear of pony
	Muktesar, United Provinces India		Mukteswar (29.29 N, 79.39 E), India
	6-7.VI.1905		6-7.VI.1905
	R. E. Montgomery		R. E. Montgomery
	[♂ tarsus 4 mounted in balsam on slide]		Nuttall (1912: 57), original description; Hoogstraal et al. (1966: 180), redescription and selection of lectotype. Tarsal slide present. Vulva of one of the ♀ paralectotypes removed and mounted on a slide. Cited: Moritz & Fischer (1981: 355).

ORIGINAL DETERMINATIONCURRENT STATUS

N	761	N	761
		RML	109406
	<u>Haemaphysalis montgomeryi</u> n. sp., ♀		2 ♀ Paralectotypes <u>Haemaphysalis montgomeryi</u>
	Ear of bull		Ear of bull
	Berinag, India		Berinag (29.48 N, 80.04 E), India
	9.IX.1905		9.IX.1905
	R. E. Montgomery		R. E. Montgomery
			Nuttall (1912: 57), original description; Hoogstraal et al. (1966: 180) selection of paralectotypes.
N	762	N	762
		RML	109407
	<u>Haemaphysalis montgomeryi</u> ♂, 1 ♀		2 ♂, 1 ♀ Paralectotypes <u>Haemaphysalis montgomeryi</u>
	Back and ears of dog		Back and ears of dog
	Muktesar, U.P., India		Mukteswar (29.29 N, 79.39 E), India
	3.VIII.1905		3.VIII.1905
	R. E. Montgomery		R. E. Montgomery
			Nuttall (1912: 57), original description; Hoogstraal et al. (1966: 180) indicates 3 ♂ paralectotypes.

ORIGINAL DETERMINATIONCURRENT STATUS

N	763	N	763
		RML	109408
	<u>Haemaphysalis flava</u> ♂ & ♀		1 ♂, 1 ♀ <u>Haemaphysalis indoflava</u>
	Dog		Dog
	Madras, India		Madras (13.05 N, 80.17 E), India
	9.V.1906		9.V.1906
	V. J. Phadke		V. J. Phadke
	Also from <u>Sus cristatus</u> at Muktesar 5.V.1905 by R. E. Montgomery		
N	764	N	764
		RML	109409
	<u>Rhipicephalus haemaphysaloides</u>		2 ♂, 4 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Jackal		<u>Canis aureus</u>
	Muktesar, V.P., India		Mukteswar(29.29 N, 79.39 E), India
	14.VII.1905		14.VII.1905
	R. E. Montgomery		R. E. Montgomery
			Date on vial label is 14.VI.1905

ORIGINAL DETERMINATIONCURRENT STATUS

N	765	N	765
		RML	109410
	<u>Ornithodoros lahorensis</u> N's		7 N <u>Ornithodoros lahorensis</u>
	Sheep - suffering from "Chichere Ki bimari" = tick sickness		Sheep - suffering from "Chichere Ki bimari" = tick sickness
	Shadra, Lahore, India		Shahdara (31.38 N, 74.18 E), Pakistan
	IV.1906		IV.1906
	R. E. Montgomery		R. E. Montgomery
	Some to W. F. Cooper 22.I.1910. some to Dr. H. de B. Aragão, Brazil 23.I.1910. Some to Col. A. Alcock FRS, London School Tropical Medicine 26.I.1910.		One nymph of N 765 is now in the RML collection. It was found when the USNM collection was transferred to RML in 1971.
N	766	N	766 MISSING
	<u>Hyalomma</u> - n. sp. (like 759) off abdomen		
	Goat		
	Haldwani, U.P., India		
	2.VI.1905		
	Veterinary - Assistant Abdul Ghani coll ["19"]		
	(With <u>Haem. bispinosa</u>)		

ORIGINAL DETERMINATION

N 767

Dermacentor auratus var. compactusSus cristalus

R. E. Montgomery

(With Haemaphysalis) 1 ♂, 1 ♀ to
C. Strickland, MalayaCURRENT STATUS

N 767

RML 109411

1 ♂, 1 ♀ Dermacentor sp.Sus scrofa cristatus

India

18.X.1905

R. E. Montgomery

Data on locality and date from
vial label

The Montgomery collection also contained the following species (determined by C. Warburton) which were returned:-

- Argas persicus, from chicken houses, Kalat, Baluchistan 10.VI.1906.
R. E. Montgomery collection [No. no.]. (1 nymph alive 6.X.1909 unfed, in bottle since 15.I.1907 G.H.F.N.).
- Aponomma gervaisi, off Monitor, Kuala Lever, Siam 3.VII.1905
MacKenzie coll.
- Boophilus australis, off cattle, Muktesar, U.P. 15.VII.1905
R. E. Montgomery coll (No. no.); also off cattle., Muktesar, "just arrived from Haldwani," 6.VI.1905.
R. E. Montgomery coll.
- Haemaphysalis bispinosa (our 766) off goats abdomen, Haldwani U.P. India, 2.VI.1905, Abdul Ghani coll. (found with Hyalomma n. sp., 766)... (our 760c), off pony's ear, Haldwani, U.P. 6.VI.1905. R. E. Montgomery coll.
- Hyalomma aegyptium N's, off sheeps ear (tick disease ?), Shadra, no date, etc. - N's, off rabbit, Lahore, no date, etc. - "4", N's off pony's ear, Kathgodam, U.P., 26 V. 1905.
R. E. Montgomery coll.
- Rhipicephalus sanguineus, off dog. Haldwani, U.P., India 2.VI.1905.
Abdul Ghani coll.
- off pony's perinacum, same place and collection 2.VI.1905.
- off dog, Lahore 20.II.1906.
- off cattle coming from Berinag, Kumaun, Muktesar, 27.V.1905. R. E. Montgomery coll.
- off dog, Muktesar, U.P. 29.VII.1905. R. E. Montgomery coll.

768-771. Ticks collected at Kittendorf, near Stavenhagen, Mecklenburg, Germany, by G.H.F. Nuttall, VIII.1909:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	768	N	768
		RML	109412
	<u>Ixodes canisuga</u> 1 ♀		1 ♀ <u>Ixodes ricinus</u>
	Dog		Dog
	Kittendorf, near Stavenhagen, Mecklenburg, Germany		Kittendorf (53.38 N, 12.54 E), near Stavenhagen, Mecklenburg, German Democratic Republic.
	VIII.1909		VIII.1909
	G.H.F. Nuttall		G.H.F. Nuttall
			Nuttall & Warburton (1911: 214) indicate more than one ♀ present in this collection.
N	769	N	769 MISSING
	<u>Ixodes ricinus</u> ♂'s, ♀'s (one pair in copula)		
	Red Deer (<u>Cervus elephas</u>)		
	Kittendorf, near Stavenhagen, Mecklenburg, Germany		
	12.VIII.1909		
	G.H.F. Nuttall		
	1 ♂, 1 ♀ to Major J. E. M. Boyd, Cambridge 20.XII.1919.		
	1 ♂, 1 ♀ to Dr. J. Gordon Thompson London School Trop. Med. 8.I.1920.		
	1 ♂, 1 ♀ to Dr. R. W. Hegner, Johns Hopkins, Baltimore 8.III.1920.		
	1 ♂, 1 ♀ to Dr. R. J. Tillyard, Nelson, N.Z. VI.1920.		
	1 ♂, 1 ♀ to Prof. Jules Bordet, Bruxelles, Belgium 30.VI.1920.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 770

N 770 MISSING

Ixodes ricinus 2 ♂'s, 1 ♀
(in copula)

Cervus elephas

Kittendorf, near Stavenhagen,
Mecklenburg, Germany
17.VIII.1909

G.H.F. Nuttall

N 771

N 771 MISSING

Ixodes ricinus 1 ♀, 4 ♂'s, 1 N
(one in copula)

Roe-buck, (Capreolus capra)

Kittendorf, near Stavenhagen,
Mecklenburg, Germany

12.XIII.1909

G.H.F. Nuttall

Dublin National Museum Ticks

These Irish ticks were brought by Professor G. H. Carpenter in June, 1909. (Dr. Schaff, keeper of the Museum, lent them):-

Ixodes ricinus: - from Glengariff, V.1891. - from Clonbrock, IX.1897 [197] - off cattle (redwater) Lochrea 2.VI.1909.
 - off cattle, Wexford, off cattle (healthy), Dingle, 19.VI.1909, Mr. W. Dagg. - Limerick 1898 - Cappamore, Co. Limerick, 29.IX.1895. - off (?) mare, Stepside, Co. Dublin 16.VI.1909. - off cows, Cookstown - 16.VI.1909 - Kenmure, 1898 - off dog, Lugan, 14.V.1907. - Achill, 1898 - Glandore, 1895.
 - Trillick, Co. Tyrone - Crackhaven 1895 - Roundstone, J.H.H. - Ardagh, W.H.J. - Castletown 3.VI.1893 - Kenmore 15.VIII.1898 - Lough Carrib. 1905.

Eschatocephalus vespertilionis - 1 ♀ (gorged) Eden Vale Cave, Co. Clare, VII.1902 (Returned).

ORIGINAL DETERMINATIONCURRENT STATUS

N 771X

N 771X

RML 109413

Amblyomma albolimbatum2 ♂ Amblyomma albolimbatumEgernia stokesiiEgernia stokesii (name not verified)

No other data

No other data

772-779. Ticks received from Colonel Sir David Bruce, C.B., F.R.S., Mpumu, Chagwe, Uganda, Africa, May 21, 1909:-

N 772

N 772 MISSING

Amblyomma cohaerens ♂, ♀ dry

Probably Mpumu, Chagwe, Uganda

Rec'd 21.V.1909

Rec'd from Col. Sir David Bruce

L.E.R. det. 1926

1 ♂, 1 ♀ Amblyomma cohaerens (pinned) are in the BMNH collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	773	N	773
	<u>Amblyomma tholloni</u> ♂, ♀ dry	RML	109414
	Elephant		1 ♂, 1 ♀ <u>Amblyomma tholloni</u>
	Probably Mpumu, Chagwe, Uganda		<u>Loxodonta africana</u>
	Rec'd. 21.IV.1909		Probably Mpumu (00.12 N, 32.50 E), Uganda
	Rec'd. from Col. Sir David Bruce		Rec'd. 21.IV.1909
			Rec'd. from Col. Sir David Bruce
			Pinned specimens
			Cited: Robinson (1926: 252).
N	774	N	774
	<u>Rhipicephalus capensis</u> ♂, ♀	RML	109415
	Buffalo and warthog		1 ♂, 1 ♀ <u>Rhipicephalus</u> sp.
	Probably Mpumu, Chagwe, Uganda, Africa		<u>Syncerus caffer</u> & <u>Phacochoerus</u> <u>aethiopicus</u>
	Rec'd. 21.V.1909		Probably Mpumu (00.12 N, 32.50 E), Uganda
	Rec'd. from Col. Sir David Bruce		Rec'd. 21.V.1909
			Rec'd. from Col. Sir David Bruce
			Pinned specimens

ORIGINAL DETERMINATIONCURRENT STATUS

N	775, a-d	N	775
		RML	109416
	(775) <u>Boophilus decoloratus</u>		(775) 9 ♀ <u>Boophilus decoloratus</u>
	(a) <u>Rhipicephalus appendiculatus</u>		(a) MISSING
	(b) <u>Rhipicephalus evertsi</u>		(b) MISSING
	(c) <u>Haemaphysalis leachi</u>		(c) MISSING
	(d) <u>Amblyomma variegatum</u>		(d) MISSING
	Cattle		Cattle
	Masaka, in Buddu, Uganda		Masaka (00.20 S, 31.44 E), Uganda
	VI.1909		VI.1909
	Rec'd. from Col. Sir David Bruce		Rec'd. from Col. Sir David Bruce
			Nuttall 2717 was also mislabelled with this Nuttall number.
N	776	N	776
		RML	109417
	<u>Boophilus decoloratus</u>		1 ♂, 65 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Sesse Islands, Victoria Nyanza		Sese Islands (00.20 S, 32.20 E), Uganda
	18.VI.1909		18.VI.1909
	Rec'd. from Col. Sir David Bruce		Rec'd. from Col. Sir David Bruce
	1 ♂, 1 ♀ to Royal College of Surgeons, London 20.XII.1909		Nuttall 776 is also 1 ♀ <u>Aponomma flavomaculatum</u> ex large lizard Uganda 1913 Dr. H. B. Owen There is no mention of this collection under 776 in the catalogue nor is Dr. H. B. Owen listed in Nuttall's notebook of donors to this collection.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	777	N	777
		RML	109418
	<u>Boophilus decoloratus</u>		12 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Sesse Islands, Victoria Nyanza		Sese Islands (00.20 S, 32.20 E), Uganda
	Date ?		Date ?
	Rec'd. from Col. Sir David Bruce		Rec'd. from Col. Sir David Bruce
N	778	N	778
		RML	109419
	<u>Amblyomma variegatum</u>		39 ♂, 20 ♀ <u>Amblyomma variegatum</u>
	Maseno cattle		Maseno cattle
	Mpumu, Uganda		Mpumu (00.12 N, 32.50 E), Uganda
	VI.1909		VI.1909
	Rec'd. from Col. Sir David Bruce		Rec'd. from Col. Sir David Bruce
	1 ♂, 1 ♀ to Richard Hancock, England, 16.VI.1918		
N	779	N	779
		RML	109420
	<u>Amblyomma petersi</u> (2♂, 2 ♀)		1 ♂, 2 ♀ <u>Amblyomma rhinocerotis</u>
	Rhinoceros		<u>Diceros bicornis</u> or <u>ceratotherium</u> <u>simum</u>
	Uganda		Uganda
	Sent 2.VI.1909		Sent 2.VI.1909
	Rec'd. from Col. Sir David Bruce		Rec'd. from Col. Sir David Bruce

Dr. Eugen Dschunkowsky of Helmsendorf bei Elisabethpol, Transcaucasia, sent his collection of ticks during 1910. Their determination, together with full data are as follows:

N	780, a	N	780
		RML	109421
	(780) <u>Haemaphysalis inermis</u>		(780) 7 ♂ <u>Haemaphysalis parva</u>
	(a) <u>Haemaphysalis cinnabarina</u> 7 ♂		(a) MISSING
	Cattle		Cattle
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Sent 1910		Sent 1903
	Dr. E. Dschunkowsky		Dr. E. Dschunkowsky
	(a) (1♂ with long spine on coxa IV, 1 ♂ with medium spine, 5 ♂ without spine) showing variability of this character! See also Nos.		Collecting date on vial label
N	781	N	781
		RML	109422
	<u>Haemaphysalis inermis</u>		6 ♀ <u>Haemaphysalis inermis</u>
	Cattle		Cattle
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Sent 1910		Sent 1910
	Dr. E. Dschunkowsky "No. 2"		Dr. E. Dschunkowsky "No. 2"
			Cited: Nuttall & Warburton (1915: 366).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	782	N	782
		RML	109423
	<u>Haemaphysalis punctata</u>		5 ♀ <u>Haemaphysalis parva</u>
	Hare		Hare
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	1.X.1903		
	Dr. E. Dschunkowsky "No. 84"		Dr. E. Dschunkowsky "No. 84"
N	783	N	783
		RML	109424
	<u>Haemaphysalis punctata</u>		4 ♂ <u>Haemaphysalis parva</u>
	Hare		Hare
	Surnabad		Zurnabad (40.30 N, 46,15 E), Azerbaijan SSR, USSR
	Sent 1910		1903
	Dr. E. Dschunkowsky "No. 93"		Dr. E. Dschunkowsky "No. 93"
	4 ♂ without spines on Coxa IV		Date taken from vial label
N	784	N	784
		RML	109425
	<u>Haemaphysalis cinnabarina</u> , 4 ♂, 5 ♀		4 ♂, 8 ♀ <u>Haemaphysalis parva</u>
	Fox		<u>Vulpes vulpes</u>
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	1.X.1903		1.X.1903
	Dr. E. Dschunkowsky "No. 68"		Dr. E. Dschunkowsky "No. 68"
	♂'s without spine on Coxa IV		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	785 <u>Haemaphysalis</u> sp. Fox Surnabad 1.X.1903 Dr. E. Dschunkowsky "No. 66"	N	785 MISSING
N	786 <u>Haemaphysalis leachi</u> (very punctate) Bear Surnabad VIII.1903 Dr. E. Dschunkowsky "No. 58"	N	786 RML 109743 1 ♂ <u>Haemaphysalis</u> sp. <u>Ursus arctos</u> Zurnabad (40.30 N, 46,15 E), Azerbaijan SSR, USSR VIII.1903 Dr. E. Dschunkowsky "No. 58"
N	787 <u>Haemaphysalis cinnabarina</u> 6♂ Bear Surnabad VIII.1903 Dr. E. Dschunkowsky "No. 60" Without spines on Coxa IV	N	787 RML 109744 6 ♂ <u>Haemaphysalis parva</u> <u>Ursus arctos</u> Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR VIII.1903 Dr. E. Dschunkowsky "No. 60"

ORIGINAL DETERMINATIONCURRENT STATUS

N	788	N	788
		RML	109745
	<u>Haemaphysalis inermis</u> 1 ♀		1 ♀ <u>Haemaphysalis inermis</u>
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Sent 1910		Sent 1910
	Dr. E. Dschunkowsky "No. 74"		Dr. E. Dschunkowsky "No. 74"
			Nuttall & Warburton (1915: 364) figured this specimen
N	789	N	789, d, e
		RML	109746
	(789) <u>Haemaphysalis inermis</u>		(789) 2 ♂ <u>Haemaphysalis inermis</u>
	(a) <u>Haemaphysalis punctata</u>		(a) MISSING
	(b) <u>Boophilus annulatus</u>		(b) MISSING
	(c) <u>Boophilus annulatus</u>		(c) MISSING
	(d) <u>Haemaphysalis inermis</u>		(d) 1 ♂ <u>Haemaphysalis inermis</u>
	(e) <u>Haemaphysalis cinnabarina</u>		(e) 5 ♂ <u>Haemaphysalis parva</u>
	Fox		<u>Vulpes vulpes</u>
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	1903		1903
	Dr. E. Dschunkowsky "No. 64"		Dr. E. Dschunkowsky "No. 64"
	(e) without spines on Coxa IV		Nuttall & Warburton (1915: 363) figured the ♂ of 789d but it is incorrently labelled 739d.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	790, a (790) <u>Haemaphysalis leachi</u> (scutum very short) (a) <u>Amblyomma</u> sp. N's Hare Surnabad 4.IX.1904 Dr. E. Dschunkowsky "No. 86"	N	790, a MISSING
N	791 <u>Boophilus calcaratus</u> Surnabad Sent 1910 Dr. E. Dschunkowsky "No. 8"	N	791 RML 109747 12 ♂ <u>Boophilus annulatus</u> Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR Sent 1910 Dr. E. Dschunkowsky "No. 8" There is also one vial containing 2 ♂, 3 ♀ <u>Boophilus annulatus</u> with Nuttall No. 791-2
N	792 <u>Boophilus calcaratus</u> Surnabad Sent 1910 Dr. E. Dschunkowsky "No. 9"	N	792 RML 109748 17 ♀ <u>Boophilus annulatus</u> Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR Sent 1910 Dr. E. Dschunkowsky "No. 9" See note under N 791

ORIGINAL DETERMINATIONCURRENT STATUS

N 793

Haemaphysalis sp.

Cattle

Surnabad

Sent 1910

Dr. E. Dschunkowsky "No. 29"

(A freak, undeterminable as yet
GHFN 13.I.1915)

N 793

RML 109749

2 ♀ Rhipicephalus bursa

Cattle

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

Sent 1910

Dr. E. Dschunkowsky "No. 29"

N 794

Ornithodoros tholozani N

Cattle

Surnabad

Sent 1910

Dr. E. Dschunkowsky "No. 14"

C. W. det. 1917, he notes, "1st st
N, short legs, puzzling but we don't
know that 1st st N has not short legs.
Anyhow it is impossible to make a
n. sp. of a 1st st N"

N 794

RML 109750

1 N Ornithodoros sp.

Cattle

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR

Sent 1910


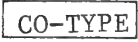


Dr. E. Dschunkowsky "No. 14"

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	795	N	795
		RML	73677
	<u>Hyalomma aegyptium</u> ♂'s "35", ♀'s "33"		2 ♂, 3 ♀ <u>Hyalomma marginatum</u> 1 ♂ <u>Hyalomma detritum</u> 1 ♂ <u>Hyalomma anatolicum excavatum</u>
	Camels		Camels
	Dschenvanschir "Reise"		Hills near Dnepropetrovsk (48.27 N, 34.59 E) Ukrainian SSR, USSR
	Sent 1910		Sent 1910
	Dr. E. Dschunkowsky		Dr. E. Dschunkowsky
			An additional 1 ♂, 1 ♀ <u>H. marginatum</u> are in the NAMRU-3 collection.
N	796	N	796
		RML	109751
	<u>Rhipicephalus sanguineus</u>		2 ♂ <u>Rhipicephalus turanicus</u> 1 ♂ <u>Rhipicephalus leporis</u>
	Hare		Hare
	Transcaucasia		Azerbaijan SSR, USSR
	13.VII.1907		13.VII.1907
	Dr. E. Dschunkowsky "No. 89"		Dr. E. Dschunkowsky "No. 89"
N	797	N	797 MISSING
	<u>Rhipicephalus sanguineus</u>		
	<u>Erinaceus colligenis</u>		
	Mugan-Steppe		
	IV.1902		
	Dr. E. Dschunkowsky "No. 69"		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	798	N	798
	<u>Haemaphysalis punctata</u>	RML	109752
	Bear		5 ♀ <u>Haemaphysalis parva</u>
	Surnabad		<u>Ursus arctos</u>
	VIII.1903		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Dr. E. Dschunkowsky "No. 59"		VIII.1903
			Dr. E. Dschunkowsky "No. 59"
N	799	N	799 MISSING
	<u>Ixodes ricinus</u> 2♀		
	Bear		
	Surnabad		
	VIII.1903		
	Dr. E. Dschunkowsky		
N	800	N	800
	<u>Dermacentor reticulatus</u> 3 ♂, 2 ♀	RML	109753
	Bear		2 ♂ <u>Dermacentor reticulatus</u>
	Surnabad		<u>Ursus arctos</u>
	VIII.1903		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Dr. E. Dschunkowsky "No. 56"		VIII.1903
			Dr. E. Dschunkowsky "No. 56"

The Nuttall Tick Catalogue
Volume II, Nos. 801-3500






These labels accompanying specimens indicate:

-  = Types from which a new species has been described.
-  = Co-types or specimens belonging to the same lot or lots from which the types are selected.
-  = O-type, specimens which have been compared with the types by N. & W.
-  = Specimens of special interest, as being deformed, figured for our book, etc.

G.H.F. Nuttall

18.VI.1914

Tops of corks

-  = marked thus for types
-  = thus for co-types
-  = thus for specimens compared with types and which serve as types (O-types).
-  = brass nail on top = pinned
-  = black topped nail on top of slides

Signs on labels: ♂ ♀ stands for male & female
 O " " nymph
 L " " larva

a,b,c,etc. after a number denotes the different species collected off the same host.

(i) (ii) (iii), etc. after a number denotes that the ticks of one species have been separated & put in different tubes, etc., according to the stages represented: ♂ ♀ are often together.
 Os, Ls & eggs, empty skins etc. separated.

Some Addresses of Persons

who have sent ticks

- | | | |
|----------------------------------|---|---|
| Fletcher, J. B. (Esq.) | Govt. Entomologist,
Agricultural College,
Coimbatore, Madras | Sent 2 bats (<u>Scotophilus heathi</u>
Horsfield) with <u>Argas vesper-</u>
<u>tilionis</u> larvae attached.
Bats presented to Brit. Mus. (Nat.
Hist.)XI.19. [See N. 1856 - JFK] |
| Fletcher, N. J. | M.R.C.V.S. Veterinary Estab-
lish.
51 Chester Street
North Wales, Wrexham | Sent ticks Nos. 1991, 2079 - <u>R.</u>
<u>sanguineus</u> off dog, Brymbo, near
Wrexham, N. Wales. II & III.1913 |
| Glover, H. J. | Labac J. E., Dewan, P. O.
Cachar, (Assam), India | Ear tick. |
| Harrison, J.R.V. (Esq.) | 11, Aurora Court
Ellice Avenue,
Winnipeg, Manitoba, Canada | Sent ticks (No. 2452) off cattle,
Manitoba, Canada. 13.X.1913. |
| Hooker, C. W. (Esq.) | Entomologist, Porto Rico
Agricultural Experiment
Station
Mayaguez, Porto Rico
West Indies | Sent ticks, 9.I.1913. |
| Hull, Munro (Esq.) | "Cudgoree"
Eumundi
Queensland, Australia | VIII:1913 |
| Kinnear, N. B. (Esq.) | Bombay Natural History
Society
8 Apollo Street
Bombay, India | Sent coll. of ticks to determine &
keep some of the specimens. Also
wants a short paper on them for
publication in his journal.
17.V.1912. |
| Koningsberger, J. C. (Professor) | Lands
Plantenuin
Buitenzorg,
Java, Dutch East Indies | Sent collection of ticks in 1909. |

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	801	N	801
		RML	109754
	<u>Rhipicephalus bursa</u> ♂'s ♀'s		5 ♂, 11 ♀ <u>Rhipicephalus bursa</u>
	Cattle		Cattle
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR.
	Nymphs 26.X.1903 emerged 5.VI.1904		Nymphs 26.X.1903 emerged 5.VI.1904
	Dr. E. Dschunkowsky "No 17"		Dr. E. Dschunkowsky "No 17"
	(1/2 of lot returned)		
N	802	N	802
		RML	109755
	<u>Rhipicephalus bursa</u> ♂'s		6 ♂ <u>Rhipicephalus bursa</u>
	Cattle		Cattle
	Kazjan, Kreis Geschtschai		Kazjan, USSR (locality not verified)
	1.VII.1904		1.VII.1904
	Dr. E. Dschunkowsky "No 24"		Dr. E. Dschunkowsky "No 24"
N	803	N	803
		RML	109756
	<u>Rhipicephalus bursa</u> N's		21 N <u>Rhipicephalus bursa</u>
	Sheep		Sheep
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR.
	29.X.1903		29.X.1903
	Dr. E. Dschunkowsky "No 55"		Dr. E. Dschunkowsky "No 55"
	(1/2 of lot returned)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	804	N	804
		RML	109757
	<u>Haemaphysalis cinnabarina</u> 2 ♂, 2 ♀		4 ♂ <u>Haemaphysalis parva</u>
	Sheep		Sheep
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	28.X.1903		28.X.1903
	Dr. E. Dschunkowsky "No 42"		Dr. E. Dschunkowsky "No 42"
N	805	N	805
		RML	109758
	<u>Haemaphysalis punctata</u>		5 ♂ <u>Haemaphysalis parva</u>
	Sheep		Sheep
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	26.X.1903		26.X.1903
	Dr. E. Dschunkowsky "No. 46" (1/2 of lot returned)		Dr. E. Dschunkowsky "No. 46"
N	806	N	806
		RML	109759
	<u>Hyalomma aegyptium</u>		2 ♂ <u>Hyalomma detritum</u>
	Sheep		Sheep
	Utsch-Tapa		Uchtepe (39.19 N, 48.26 E), USSR
	16.V.1909		16.V.1909
	Dr. E. Dschunkowsky "No. 47"		Dr. E. Dschunkowsky "No. 47"

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	807	N	807
		RML	109760
	<u>Dermacentor reticulatus</u> ♂'s		2 ♂ <u>Dermacentor niveus</u>
	Sheep		Sheep
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	25.III.1903		25.III.1903
	Dr. E. Dschunkowsky "No. 45"		Dr. E. Dschunkowsky "No. 45"
	(1/2 of lot returned)		
N	808	N	808
		RML	109761
	<u>Dermacentor reticulatus</u> 1 ♀		1 ♀ <u>Dermacentor niveus</u>
	Sheep		Sheep
	Utsch-Tapa		Uchtepe (39.19 N, 48.26 E), USSR
	16.V.1909		16.V.1909
	Dr. E. Dschunkowsky "No. 51"		Dr. E. Dschunkowsky "No. 51"
N	809	N	809
		RML	109762
	<u>Dermacentor reticulatus</u> 1 ♂, 1 ♀		1 ♀ <u>Dermacentor niveus</u>
	Cattle		Cattle
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
	Der. E. Dschunkowsky (ex tubes "4" and "5")		Dr. E. Dschunkowsky (ex tubes "4" and "5")

ORIGINAL DETERMINATIONCURRENT STATUS

N	810	N	810
		RML	109763
	<u>Haemaphysalis punctata</u> 3 ♀'s		2 ♀ <u>Haemaphysalis parva</u>
	Surnabad		Zurnabad (40.30 N, 46.15 E), Azerbaijan SSR, USSR
			1903
	Dr. E. Dschunkowsky "No. 3"		Dr. E. Dschunkowsky "No. 3"
	Labelled " <u>caucasica</u> "		
N	811	N	811
		RML	109764
	<u>Amblyomma integrum</u> 1 ♂ (dry)		1 ♂ <u>Amblyomma integrum</u>
	Iala, Ceylon		Iala, Sri Lanka (locality not verified)
	9.II.1909		9.II.1909
	T. Bainbrigge Fletcher, R. N.		T. Bainbrigge Fletcher, R. N.
	(gift of Mr. Scott, Cambridge 24.IV.1909) L.E.R. det.		Pinned specimen. Cited: Robinson (1926: 114). Thomas Bainbrigge Fletcher (1878-1950) educated at Dulwich College. In 1911 appointed Government Entomologist in Madras. In 1913 succeeded Maxwell Lefroy as Imperial Entomologist. Published extensively on Indian insects, especially Lepidoptera.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	812	N	812
		RML	109765
	<u>Dermacentor albopictus</u> (sic) 1 ♀ shrivilled		1 ♀ <u>Dermacentor albipictus</u>
	Cow		Cow
	Vancouver, B.C.		Vancouver (49.15 N, 123.08 W) British Columbia, Canada
	Rec'd 1909		Rec'd 1909
	Rec'd from T. Bowhill		Rec'd from T. Bowhill
N	813	N	813
		RML	109766
	<u>Haemaphysalis punctata</u> larvae		32 L <u>Haemaphysalis punctata</u>
	Parent ♀ from Lydd, Kent		Parent ♀ from Lydd (50.57 N, 00.55 E), Kent, England
	Rec'd 9.X.1909		Rec'd 9.X.1909
	Rec'd from L. E. Robinson		Rec'd from L. E. Robinson
	Raised in Watford		Cited: Edwards & Evans (1967: 596).
N	814	N	814
		RML	109767
	<u>Haemaphysalis punctata</u> N's		2 N <u>Haemaphysalis punctata</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	26.X.1905		26.X.1905
	Rec'd from L. E. Robinson		Rec'd from L. E. Robinson
	Laboratory reared		Catalogue indicates that although the ticks were reared in 1905 they were received in 1909.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	815	N	815
		RML	109768
	<u>Haemaphysalis punctata</u> ♂'s		1 ♂ <u>Haemaphysalis punctata</u>
	Lydd, Kent		Lydd (50.57 N, 00.55 E), Kent, England
	Rec'd 9.X.1909		Rec'd 9.X.1909
	Rec'd from L. E. Robinson		Rec'd from L. E. Robinson
	(2 pinned, dry)		An additional 1 ♂, 3 ♀ are pinned.
N	816	N	816
		RML	109769
	<u>Haemaphysalis punctata</u> ♀'s		11 ♀ <u>Haemaphysalis punctata</u>
	Lydd, Kent		Lydd (50.57 N, 00.55 E), Kent, England
	Rec'd 9.X.1909		Rec'd 9.X.1909
	Rec'd from L. E. Robinson		Rec'd from L. E. Robinson
N	817	N	817
		RML	109770
	<u>Dermacentor</u> ? <u>compactus</u> ♂'s ♀'s		1 ♂, 2 ♀ <u>Dermacentor auratus</u>
	<u>Felis tigris</u>		<u>Panthera tigris</u>
	Maldun, Naini Tal District, U.P. India		Maldun, Naini Tal District (29.12 N, 79.25 E) India
	14-19.II.1907		14-19.II.1907
	(c. w's)		

ORIGINAL DETERMINATIONCURRENT STATUS

N 818a-c

N 818c

RML 109771

Ornithodoros moubata

(a) ♂

(a) MISSING

(b) ♀

(b) MISSING

(c) N

(c) 47 N Ornithodoros moubataResidency of Officer in Charge
of DistrictResidency of Officer in Charge
of DistrictNgara. Marimba District
NyasalandNgara (10.14 S, 34.07 E),
Malawi

Rec'd 11.X.1909

Rec'd 11.X.1909

Rec'd from Dr. H. Hearsey

Rec'd from Dr. H. Hearsey

(818b) 1 ♀ to Prof. R. A. Cooley
V.1928

Cited: Merriman (1911: 171).

N 819

N 819 MISSING

Ornithodoros moubata

Mpumu, Uganda

Rec'd 29.VI.1909

Rec'd from Dr. P. H. Ross

Some to Prof. G. H. Carpenter, Royal
College of Sciences, Dublin 19.I.1910;
Some to G. S. Graham-Smith, Medical
Schools, Cambridge, 19.I.1910; Some
to E. E. Green, Government Entomologist,
Ceylon 19.I.1910; Some to Dr. Dschunkowsky,
Transcaucasia 19.I.1910; Some to Dr.
Edmond Sergent, N. Africa 19.IV.1910;
Some to Dr. H. de B. Aragão, Brazil
23.I.1910; Some to Dr. J. G. Parham,
Portuguese East Africa 18.IV.1913;
Some to N.Y. National Museum 18.IV.1913.

ORIGINAL DETERMINATIONCURRENT STATUS

N	820	N	820 MISSING
	<u>Amblyomma pseudoconcolor</u> ♂, ♀ ♂ ex Armadillo (<u>Dasypus</u> sp.) ♀ ex <u>Nothura maculosa</u> , taken as a nymph		These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection.
	Avere State of San Paulo, Brazil, S. America		
	26.VI.1908		
	Rec'd from Dr. H. de B. Aragão of the Instituto de Manquinhas Rio de Janeiro, Brazil		
	To be regarded as co-types		
N	821	N	821
	<u>Amblyomma cooperi</u> ♂♂, ♀ (dried & pinned)	RML	109772
	<u>Hydrochoerus capybara</u>		2 ♂, 1 ♀ <u>Amblyomma cooperi</u>
	State of Rio, Brazil, S. America		<u>Hydrochoerus hydrochaeris</u>
	20.X.1908		Estado do Rio de Janeiro (22.00 S, 42.30 W), Brazil
	A. <u>lutzi</u> Aragão, as noted by the Tatter on the original label		20.X.1908
			H. B. Aragão

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	822 <u>Amblyomma mantiquirens</u> 1 ♂, 1 ♀ (dried & pinned) Peccary (<u>Dicotyles torquatus</u>) Herem, State of Rio, Brazil S. America 24.VII.1907	N	822 MISSING These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection. They are <u>Amblyomma</u> <u>naponense</u> .
N	823 <u>Amblyomma braziliense</u> 1 ♂, 1 ♀ (dried & pinned) Peccary (<u>Dicotyles torquatus</u>) Itabira, State of Minas, Brazil, S. America 8.IV.1908	N	823 MISSING These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection.
N	824 <u>Amblyomma badium</u> ♂♂, ♀ = <u>sublaeve</u> <u>Manis</u> sp. Kuala Lumpur det. by Neumann ex A. E. Shipley's coll. TYPES of <u>badium</u> Nn	N	824 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	825	N	825
		RML	109773
	<u>Amblyomma integrum</u> 3 ♀		3 ♀ <u>Amblyomma integrum</u>
	Nettle hedge		Nettle hedge
	Gopkuda, S. Lake Chilka, India		Gopkuda, S. Lake Chilka (19.46 N, 85.20 E), India
	1907		1907
	Annandale		Nelson Annandale
	(Sent to C. W.)		Cited: Robinson (1926: 114).
N	826	N	826
		RML	109774
	<u>Ixodes hexagonus</u> 2 ♀'s		2 ♀ <u>Ixodes rubidus</u>
	Coypu, (<u>Myopotamus coypus</u>)		<u>Myocastor coypus</u>
	S. America		S. America
	Rothschild 189		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	827	N	827
		RML	109775
	<u>Argas brumpti</u> nymphs (2)		2 N <u>Argas brumpti</u>
	Sudan		Sudan
	Sent 27.VII.1909		Sent 27.VII.1909
	Sent by Harold H. King, Gov't Entomologist, Gordon Memorial College, Khartoum		Sent by Harold H. King, Gov't Entomologist, Gordon Memorial College, Khartoum
	Taken "at the foot of some Rocky Hills known as Gebelein. One bit me on the forearm and for several days I had a blue mark like a bruise just under 3 inches long and two inches wide. I don't know what they usually feed on but the hills harbour leopard, warthog, honey badgers, conies and hyaenas".		King (1911: 128) cited 9 immature specimens and discussed his reaction to the bite of this tick.
N	828	N	828
		RML	109776
	<u>Argas vespertilionis</u> larvae		2 L <u>Argas vespertilionis</u>
	Bat		Bat
	Khartoum		Khartoum (15.36 N, 32.32 E), Sudan
	VII.1909		VII.1909
	Sent by H. H. King 29.VII.1909		Sent by H. H. King 29.VII.1909
			King (1911: 128) cited 8 larvae in this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	829, a	N	829, a
		RML	109777
	<u>Dermacentor rhinocerotis</u> 1 ♂ (a) <u>Amblyomma hippopotamense</u> 1 ♀		1 ♂ <u>Dermacentor rhinocerinus</u> (a) 1 ♀ <u>Dermacentor rhinocerinus</u>
	Vegetation		Vegetation
	Azzar		Azzar, Sudan (locality not verified). There is a pond at 11.56 N, 32.49 E and a waterhole at 11.43 N, 23.57 E both spelled Azzaraf which are possible localities.
	29.VII.1909		29.VII.1909
	H. H. King		H. H. King
	"There is a quantity of game there including elephant and rhino, also hippos"		King (1911: 128) indicated a large number of both sexes were collected.
N	830	N	830
		RML	109778
	<u>Boophilus australis</u> ♂'s ♀'s (latter gorged)		1 ♂, 3 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Cape Colony		Cape Colony, Republic of South Africa
	III.1906		III.1906
	C. P. Lounsbury		C. P. Lounsbury

ORIGINAL DETERMINATIONCURRENT STATUS

N	831	N	831
		RML	109779
	<u>Boophilus australis</u> larvae unfed		71 L <u>Boophilus microplus</u>
	Cape Colony		Cape Colony, Republic of South Africa
	III.1906		III.1906
	C. P. Lounsbury		C. P. Lounsbury
			Probably progeny of N 830
N	832	N	832
		RML	109780
	<u>Boophilus australis</u> ♀'s		7 ♂ <u>Boophilus microplus</u>
	N. S. Wales		N. S. Wales, Australia
	1906		1906
	From Mr. Pound		From Mr. Pound
	ex E. G. Wheeler's collection		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	833	N	833
		RML	109781
	<u>Boophilus caudatus</u> ♂, ♀		1 ♂, 1 ♀ <u>Boophilus microplus</u>
	Buffalo		Buffalo
	Penang		Penang (05.24 N, 100.19 E), Malaysia
	Rec'd 16.VII.1906		Rec'd 16.VII.1906
	Rec'd from E. A. Shipley		Rec'd from E. A. Shipley
N	834	N	834 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀		
	Cape Colony		
	III.1906		
	C. P. Lounsbury		
N	835	N	835
		RML	109782
	<u>Amblyomma integrum</u> 2 ♂'s		2 ♂ <u>Amblyomma integrum</u>
	Calves		Calves
	Guindy, Saidapet, South India		Guindy, Saidapet (13.02 N, 80.13 E), India
	IX.1909		IX.1909
	From Capt. W. S. Patton, I.M.S.		From Capt. W. S. Patton, I.M.S.
			Walter Scott Patton (1876-1960), born in India, Medical Degree, Univ. of Edinburgh. Entered Indian Medical Service 1902, spent 20 years in that country. In WW I was entomologist to the Mesopotamia Expeditionary Force. 1927-1937 Dutton Memorial Professor of Entomology, Univ. of Liverpool & Liverpool School of Tropical Medicine. He wrote 2 volumes on insects, ticks, mites and venomous animals of medical & veterinary importance. Cited: Robinson (1926: 114).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	836	N	836
		RML	109783
	<u>Rhipicephalus appendiculatus</u> Tarvae		277 L <u>Rhipicephalus appendiculatus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	1906		1906
	Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, South Africa		Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, South Africa
N	837	N	837
		RML	109784
	<u>Rhipicephalus appendiculatus</u> N's		5 N <u>Rhipicephalus appendiculatus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	1906		1906
	Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, South Africa		Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, South Africa
N	838	N	838
		RML	109785
	<u>Rhipicephalus appendiculatus</u> young ♀'s		3 ♀ <u>Rhipicephalus appendiculatus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	1906		1906
	From C. P. Lounsbury, Gov't Entomologist, Cape Town, S. Africa		From C. P. Lounsbury, Gov't Entomologist, Cape Town, S. Africa

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	839	N	839
		RML	109786
	<u>Rhipicephalus appendiculatus</u> gorged ♀'s		2 ♀ <u>Rhipicephalus appendiculatus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	1906		1906
	Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, S. Africa		Rec'd from Mr. C. P. Lounsbury, Gov't Entomologist, Cape Town, S. Africa
N	840	N	840
		RML	109787
	<u>Rhipicephalus capensis</u> larvae, unfed		132 L <u>Rhipicephalus capensis</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
N	841	N	841
		RML	109788
	<u>Rhipicephalus capensis</u> larvae gorged. Placed on rabbit 8.X.1906 found gorged 15.X.1906		3 L <u>Rhipicephalus capensis</u>
	Rabbit		Rabbit
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	842	N	842
		RML	109789
	<u>Rhipicephalus capensis</u> nymphs unfed		28 N <u>Rhipicephalus capensis</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
N	843	N	843
		RML	109790
	<u>Rhipicephalus capensis</u> ♂'s ♀'s		2 ♂, 2 ♀ <u>Rhipicephalus capensis</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
N	844	N	844
		RML	109791
	<u>Rhipicephalus evertsi</u> N's gorged		9 N <u>Rhipicephalus evertsi</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	845	N	845
		RML	109792
	<u>Rhipicephalus evertsi</u> larvae, unfed		162 L <u>Rhipicephalus evertsi</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury
N	846	N	846
		RML	109793
	<u>Rhipicephalus evertsi</u> adults ♂ ♀		1 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury
N	847	N	847
		RML	109794
	<u>Rhipicephalus evertsi</u> ♂, ♀		3 ♂, 5 ♀ <u>Rhipicephalus evertsi</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	5.VI.1906		5.VI.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	848	N	848 MISSING
	<u>Rhipicephalus evertsi</u> ♂, ♀		
	From Mr. E. G. Wheeler 1906		
N	849	N	849
		RML	109795
	<u>Rhipicephalus nitens</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	1906		1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury
N	850	N	850
		RML	109796
	<u>Rhipicephalus oculatus</u> 1 ♂, 1 ♀		1 ♀ <u>Rhipicephalus oculatus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	1906		1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury

There is a blue COTYPE label in this vial; however, I do not believe this ♀ is a type specimen. The vulva has been removed and mounted on a slide.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	851	N	851
		RML	109797
	<u>Rhipicephalus pulchellus</u> ♂		1 ♂ <u>Rhipicephalus pulchellus</u>
	Received 1906		Received 1906
	Received from Mr. E. G. Wheeler		Received from Mr. E. G. Wheeler
N	852	N	852
		RML	109798
	<u>Rhipicephalus sanguineus</u> ♀		1 ♀ <u>Rhipicephalus sanguineus</u>
	Campagna Romana		Campagna di Roma (41.50 N, 12.35 E), Italy
	1906		1906
	Given by Pocock ex E. G. Wheeler		Given by Pocock
N	853	N	853
		RML	109799
	<u>Rhipicephalus sanguineus</u> larvae		11 L <u>Rhipicephalus sanguineus</u>
	Rabbit		Rabbit
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C. W.		Harold Maxwell-Lefroy (1877-1925). From 1899-1903, Entomologist, Imperial Department of Agriculture for the West Indies, chiefly in Barbados; 1903-1910 Imperial Entomologist for India; 1912- 1925 Professor of Entomology, Imperial College of Science, South Kensington; died of exposure to insecticide gasses in his London laboratory.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	854	N	854
		RML	109800
	<u>Rhipicephalus sanguineus</u> nymphs		11 N <u>Rhipicephalus sanguineus</u>
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C. W.		
N	855	N	855
		RML	109801
	<u>Rhipicephalus sanguineus</u> ♂'s		3 ♂ <u>Rhipicephalus sanguineus</u>
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C. W.		
N	856	N	856
		RML	109802
	<u>Rhipicephalus sanguineus</u> ♀'s (young)		1 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C. W.		
N	857	N	857
		RML	109803
	<u>Rhipicephalus sanguineus</u> ♀'s (gorged)		4 ♀ <u>Rhipicephalus sanguineus</u>
	India		India
	From Mr. Lefroy		From Mr. Lefroy
	Sent to C.W.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	858	N	858
		RML	109804
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus senegalensis</u>
	West Africa		West Africa
	1908		1908
	From Dr. W. M. Graham		From Dr. W. M. Graham
N	859	N	859
		RML	109805
	<u>Rhipicephalus simus</u> larvae		26 L plus 138 L (in 2 vials) <u>Rhipicephalus simus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury
N	860	N	860
		RML	109806
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		1 ♂, 3 ♀ <u>Rhipicephalus simus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From Mr. C. P. Lounsbury		From Mr. C. P. Lounsbury

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	861	N	861
		RML	109807
	<u>Boophilus australis</u> (ii) N's		2 ♂ <u>Boophilus microplus</u> (ii) 4 N <u>Boophilus microplus</u> (in separate vial)
	Calves		Calves
	Belgaum, Bombay Presidency India		Belgaum (15.52 N, 74.30 E), India
	Rec'd 2.X.1909		Rec'd 2.X.1909
	From Capt. F.H.C. Hutchinson I.M.S., (D.T.M.H. Cambridge)		From Capt. F.H.C. Hutchinson I.M.S., (D.T.M.H. Cambridge)
N	862	N	862
		RML	109808
	<u>Rhipicephalus sanguineus</u>		3 ♀ <u>Rhipicephalus sanguineus</u>
	Calves		Calves
	Belgaum, Bombay Presidency, India		Belgaum (15.52 N, 74.30 E), India
	Rec'd 2.X.1909		Rec'd 2.X.1909
	From Capt. F.H.C. Hutchinson I.M.S. (D.T.M.H. Cambridge)		From Capt. F.H.C. Hutchinson I.M.S. (D.T.M.H. Cambridge)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	863	N	863
		RML	109809
	<u>Haemaphysalis bispinosa</u>		8 ♂, 17 ♀ <u>Haemaphysalis bispinosa</u>
	Calves		Calves
	Belgaum, Bombay Presidency, India		Belgaum (15.52 N, 74.30 E), India
	Rec'd 2.X.1909		Rec'd 2.X.1909
	From Capt. F.H.C. Hutchinson I.M.S. (D.T.M.H. Cambridge)		From Capt. F.H.C. Hutchinson I.M.S. (D.T.M.H. Cambridge)
	1 ♂, 1 ♀ to Dr. H. de B. Aragão, Brazil, 23.I.1910		Cited: Nuttall & Warburton (1915: 432).
N	864	N	864
		RML	109810
	<u>Hyalomma aegyptium</u>		9 ♂, 3 ♀, 1 N <u>Hyalomma anatolicum</u> <u>anatolicum</u>
	Calves		Calves
	Belgaum, Bombay Presidency, India		Belgaum (15.52 N, 74.30 E), India
	Rec'd 2.X.1909		Rec'd 2.X.1909
	From Capt. F.H.C. Hutchinson I.M.S. (D.T.M.H. Cambridge)		From Capt. F.H.C. Hutchinson I.M.S. (D.T.M.H. Cambridge)

ORIGINAL DETERMINATIONCURRENT STATUS

N 865

N 865 MISSING

Rhipicephalus sanguineus

Foxhound

Belgaum, Bombay Presidency,
India

Rec'd 2.X.1909

From Capt. F.H.C. Hutchinson

N 866

N 866 MISSING

Rhipicephalus haemaphysaloides

Foxhound

Belgaum, Bombay Presidency,
India

Rec'd 2.X.1909

From Capt. F.H.C. Hutchinson

1 ♂, 1 ♀ to Capt. W. S. Patton
14.I.1910; 1 ♂, 1 ♀ to Col. A.
Alcock FRS, London School of
Tropical Medicine 26.I.1910; 1 ♂,
1 ♀ to Dr. S. Hadwen, British
Columbia, Canada 10.X.1913; 1 ♂,
1 ♀ in general collection British
Museum (N.H.)

1 ♂, 1 ♀ of this collection are
now in the RML collection
(RML 110162) and the general collection
of the British Museum (Nat. Hist.).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	867	N	867
		RML	109811
	<u>Rhipicephalus haemaphysaloides</u>		2 ♂, 9 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Foxhound		Foxhound
	Belgaum, Bombay Presidency, India		Belgaum (15.52 N, 74.30 E), India
	Rec'd 2.X.1909		Rec'd 2.X.1909
	Capt. F.H.C. Hutchinson		Capt. F.H.C. Hutchinson
	1 ♂, 1 ♀ to C. Strickland, Malaya		
N	868	N	868
		RML	109812
	<u>Rhipicephalus haemaphysaloides</u>		7 ♂, 1 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Foxhound		Foxhound
	Belgaum, Bombay Presidency, India		Belgaum (15.52 N, 74.30 E), India
	Rec'd 2.X.1909		Rec'd 2.X.1909
	Capt. F.H.C. Hutchinson		Capt. F.H.C. Hutchinson
N	869	N	869
		RML	71477
	<u>Haemaphysalis bispinosa</u>		1 ♀ <u>Haemaphysalis bispinosa</u> 2 ♀ <u>Haemaphysalis intermedia</u>
	Foxhound		Foxhound
	Belgaum, Bombay Presidency, India		Belgaum (15.52 N, 74.30 E), India
	Rec'd 2.X.1909		Rec'd 2.X.1909
	Capt. F.H.C. Hutchinson		Capt. F.H.C. Hutchinson
			Cited: Nuttall & Warburton (1915: 432).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	870	N	870 MISSING
	<u>Haemaphysalis leachi</u>		
	Foxhound		
	Belgaum, Bombay Presidency, India		
	Rec'd 2.X.1909		
	Capt. F.H.C. Hutchinson		
	871-886. Ticks rec'd 19.X.1909 from Col. Sir David Bruce, C.B., F.R.S., Sleeping Sickness Commission, Uganda, Africa.		
N	871, a, b	N	871b
		RML	109813
	(871) <u>Amblyomma variegatum</u> ♂'s ♀'s N	(871)	MISSING
	(a) <u>Rhipicephalus appendiculatus</u> ♂, ♀'s	(a)	MISSING
	(b) <u>Boophilus decoloratus</u>	(b)	3 ♀ <u>Boophilus decoloratus</u>
	Healthy country cattle		Healthy country cattle
	Nagongera in Budama (Lat. 0° 4, Long. 33°55'32" E)		Nagongera (00.46 N, 34.01 E), Uganda
	26.VII.1909		26.VII.1909
N	872, a, b	N	872, b
		RML	109814
	(872) <u>Amblyomma variegatum</u> ♂'s, ♀'s, N's	(872)	3 N <u>Amblyomma variegatum</u>
	(a) <u>Boophilus decoloratus</u>	(a)	MISSING
	(b) <u>Rhipicephalus appendiculatus</u> ♂'s	(b)	4 ♂, 3 ♀ <u>Rhipicephalus appendicu- latus</u>
	Cattle		Cattle
	Kome Island, Uganda		Kome Island (00.06 S, 32.45 E), Uganda
	30.VIII.1909		30.VIII.1909

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	873, a, a', b, c	N	873b
		RML	109815
	(873) <u>Amblyomma variegatum</u> ♂'s		(873) MISSING
	(a) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		(a) MISSING
	(a') <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(a') MISSING
	(b) <u>Boophilus decoloratus</u>		(b) 2 ♀ <u>Boophilus decoloratus</u>
	(c) <u>Haemaphysalis leachi</u> ♂'s, ♀'s		(c) MISSING
	Buyago District, in S. Buddu, Lake Shore		Buyaga (00.30 S, 31.48 E), Uganda
	6.VIII.1909		6.VIII.1909
N	874a - f + f2	N	874a, c, f2
		RML	109816
	(a) <u>Boophilus decoloratus</u>		(a) 9 ♀ <u>Boophilus decoloratus</u>
	(b) <u>Haemaphysalis leachi</u> 2 ♀'s		(b) MISSING
	(c) <u>Amblyomma eburneum</u> 2 ♂'s		(c) 1 ♂ <u>Amblyomma lepidum</u>
	(d) <u>Rhipicephalus appendiculatus</u>		(d) MISSING
	(e) <u>Rhipicephalus evertsi</u>		(e) MISSING
	f + f2 <u>Rhipicephalus simus</u>		(f2) 16 ♀ <u>Rhipicephalus appendiculatus</u>
	"Villages marked on map"		"Villages marked on map", Uganda
	12.VIII.1909		12.VIII.1909
	From E. G. Morris, Kumi, Bukedi		From E. G. Morris, Kumi, Bukedi
			Robinson (1926: 119) stated the locality of 874c as Kumi Bukedi.

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	875, a-c	N	875a, b
		RML	109817
	(875) <u>Amblyomma variegatum</u> ♂'s		(875) MISSING
	(a) <u>Boophilus decoloratus</u>		(a) 5 ♀ <u>Boophilus decoloratus</u>
	(b) <u>Rhipicephalus appendiculatus</u>		(b) 24 ♂, 38 ♀ <u>Rhipicephalus appendiculatus</u>
	(c) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(c) MISSING
	Cattle		Cattle
	Kiango, Buddu, Uganda		Kiango, Buddu County (00.25 S, 31.40 E), Uganda
	1.VIII.1909		1.VIII.1909
	D. Bruce		D. Bruce
	875b 1♂, 1 ♀ to Richard Hancock, England 16.VI.1918; 875b some (sex/stage not stated) to Prof. O. Dubsacq, Montpellier, France, 10.II.1914.		
N	876	N	876 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Dog		
	Mpumu, Chagwe, Uganda		
	23.VI.1909		
	D. Bruce		
	1 ♂, 1 ♀ to Royal College of Surgeons, London, 20.XII.1909; 1 ♂, 1 ♀ to Prof. G. H. Carpenter, Royal College of Sciences, Dublin 19.I.1910; 1 ♂, 1 ♀ to Dr. G. S. Graham-Smith, Medical Schools, Cambridge, 19.I.1910; 1 ♂, 1 ♀ to E. E. Green (F.E.S.) Government Entomologist, Ceylon 19.I.1910; 1 ♂, 1 ♀ to Dschunkowsky, Transcaucasus 19.I.1910; 1 ♂, 1 ♀ to Dr. Edmond Sergent, Algeria, N. Africa 19.V.1910; 1 ♂, 1 ♀ to Dr. H. de B. Aragão, Brazil 23.I.1910; 1 ♂, 1 ♀ to Dr. J. H. Ashworth, Edinburgh 22.VI.1910; some (sex/stage not stated) to Dr. Longin Navas, Zaragoza, Spain 28.V.1913.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	877, a-e	N	877, b-e
		RML	88411
	(877) <u>Haemaphysalis</u> <u>parmata</u>		(877) 1 ♀ <u>Haemaphysalis</u> <u>parmata</u>
	(a) <u>Rhipicephalus</u> <u>appendiculatus</u>		(a) MISSING
	(b) <u>Boophilus</u> <u>decoloratus</u>		(b) 7 ♀ <u>Boophilus</u> <u>decoloratus</u>
	(c) <u>Amblyomma</u> <u>variegatum</u> ♂'s, ♀'s, N's		(c) 5 N, 6 L <u>Amblyomma</u> <u>variegatum</u>
	(d) <u>Ixodes</u> <u>rasmus</u>		(d) 1 ♀ <u>Ixodes</u> <u>cumulatimpunctatus</u>
	(e) <u>Rhipicephalus</u> <u>evertsi</u>		(e) 2 ♂, 1 ♀ <u>Rhipicephalus</u> <u>evertsi</u>
	Cattle		Cattle
	Bukedi to Mpumu, Uganda		Bukedi District (00.50 N, 34.00 E), to Mpumu (00.12 N, 32.50 E), Uganda
	10.IX.1909		10.IX.1909
	D. Bruce		D. Bruce
			(877e) pinned specimens. The labels for this collection read only 877. Cited (877): Nuttall & Warburton (1915: 421).
			Cited (877d): Nuttall & Warburton (1911: 230); Arthur & Burrow (1957: 505). Arthur (1965: 159) erroneously cited this collection as 877a.
N	878a, b	N	878a
		RML	109818
	(a) <u>Rhipicephalus</u> <u>appendiculatus</u>		(a) 2 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	(b) <u>Rhipicephalus</u> <u>appendiculatus</u> ♂'s, ♀'s, N's		(b) MISSING
	Cow		Cow
	Mpumu, Chagwe, Uganda		Mpumu (00.12 N, 32.50 E), Uganda
	30.VII.1909		30.VII.1909
	D. Bruce		D. Bruce
	878b 1 ♂, 1 ♀ to Royal College of Surgeons, London 20.XII.1909; 1 ♂, 1 ♀ to Col. A. Alcock FRS London School Tropical Medicine, Royal Albert Dock, 26.I.1910.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	879, a-c	N	879b, c
		RML	109819
	(879) <u>Amblyomma variegatum</u> ♂'s		(879) MISSING
	(a) <u>Amblyomma variegatum</u> ? 1 N		(a) MISSING
	(b) <u>Boophilus decoloratus</u>		(b) 1 ♀ <u>Boophilus decoloratus</u>
	(c) <u>Rhipicephalus appendiculatus</u>		(c) 2 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
	Zebra		<u>Equus burchelli</u>
	Kamakeken, Uganda		Kamakekera, Uganda (locality not verified)
	11.VIII.1909		11.VIII.1909
	879c 1♂ 1 ♀ to Prof. B. Galli-Valerio, Lausanne, Switzerland, 14.III.1912; 1 ♂, 1 ♀ to Prof. Dr. M. Miyajima, Tokio, Japan 7.III.1912; 1 ♂, 1 ♀ to Dr. G. L. Tuck, Tientsien, China 17.II.1912; 1 ♂, 1 ♀ to A. H. Cockayne, Wellington, N.Z.; some (sex/stage not stated) to Dr. Longin Navas, Zaragoza, Spain 28.V.1913.		879c Pinned specimens.
N	880	N	880
		RML	109820
	<u>Amblyomma</u> sp. gorged larvae, rotten		28 L <u>Amblyomma</u> sp.
	Oribi antelope		<u>Ourebia ourebi</u>
	Uganda		Uganda
	VI.1909		VI.1909
	D. Bruce		D. Bruce

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	881, a-d	N	881, a-d
		RML	109821
	(881) <u>Rhipicephalus appendiculatus</u>		(881) 52 ♂, 9 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Boophilus decoloratus</u>		(a) 4 ♀, 1 N <u>Boophilus decoloratus</u>
	(b) <u>Rhipicephalus appendiculatus</u> ? N's		(b) 8 N <u>Rhipicephalus appendiculatus</u>
	(c) <u>Amblyomma</u> sp. N's		(c) 6 N <u>Amblyomma variegatum</u>
	(d) <u>Haemaphysalis</u> sp. larvae		(d) 6 L <u>Haemaphysalis</u> sp.
	Calves		Calves
	Mpumu, Chagwe, Uganda		Mpumu (00.12 N, 32.50 E), Uganda
	VIII.1909		VIII.1909
	D. Bruce		D. Bruce
N	882	N	882
		RML	109822
	<u>Amblyomma</u> sp. N's		6 N <u>Amblyomma</u> sp.
	Scaly anteater		<u>Manis</u> sp.
	Uganda		Uganda
	2.IX.1909		2.IX.1909
	D. Bruce		D. Bruce
N	883, a	N	883, a MISSING
	(883) <u>Amblyomma variegatum</u> 2 ♂'s & N's		
	(a) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s & N's		
	Waterbuck		
	Kamakeken, Uganda		
	11.VIII.1909		
	D. Bruce		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	884, b, c	N	884 b, c
	(884) <u>Amblyomma variegatum</u> 2 ♂'s		(884) MISSING
	(b) <u>Rhipicephalus appendiculatus</u> ♀'s, N's		(b) 3 ♀, 16N <u>Rhipicephalus</u> sp.
	(c) <u>Haemaphysalis pammata</u>		(c) 2 ♀ <u>Haemaphysalis pammata</u>
	Bushbuck		<u>Tragelaphus scriptus</u>
	Uganda		Uganda
	30.III.1909		30.III.1909
	D. Bruce		D. Bruce
	N884a <u>Boophilus</u> was crossed out		Cited: Nuttall & Warburton (1915: 421).
N	885a-d	N	885c
	(a) <u>Amblyomma</u> sp. N's		(a) MISSING
	(b) <u>Haemaphysalis leachi</u>		(b) MISSING
	(c) <u>Rhipicephalus appendiculatus</u>		(c) 1 ♂, 1 ♀, 3 N <u>Rhipicephalus appendiculatus</u>
	(d) <u>Rhipicephalus evertsi</u>		(d) MISSING
	Goat		Goat
	Mpumu, Chagwe, Uganda		Mpumu (00.12 N, 32.50 E), Uganda
	22.VI.1909		22.VI.1909
	D. Bruce		D. Bruce

ORIGINAL DETERMINATIONCURRENT STATUS

N	886, a-c	N	886a, b
		RML	109824
	(886) <u>Amblyomma variegatum</u> 1 ♂		(886) MISSING
	(a) <u>Amblyomma</u> sp. N's		(a) 2 N <u>Amblyomma variegatum</u>
	(b) <u>Boophilus decoloratus</u>		(b) 8 ♀ <u>Boophilus decoloratus</u>
	(c) <u>Rhipicephalus appendiculatus</u> ♂'s ♀'s, N's		(c) MISSING
	Cattle		Cattle
	... alabulema, Buddu, Uganda		...alabulema, District of Buddu (00.25 S, 31.40 E), Uganda
	VIII.1909		VIII.1909
	D. Bruce		D. Bruce
N	887	N	887
		RML	109825
	<u>Ornithodoros moubata</u> ♂'s, ♀'s, N		56 ♂, 6 ♀, 20 N <u>Ornithodoros moubata</u>
	Uganda		Uganda
	Rec'd 19.X.1909		Rec'd 19.X.1909
	From P. H. Ross, M.D.		From P. H. Ross, M. D.
	Received dead		1 ♂, 1 ♀, 2 N <u>O. moubata</u> were presented to Dr. F. C. Bishop and are now in the RML collection (Bishopp 3238)
	Some (number not stated) to W. F. Cooper 22.I.1910; 2 ♂, 3 N, eggs to Prof. R. A. Cooley V.1928.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	888	N	888
		RML	109826
	<u>Hyalomma aegyptium</u> 2 ♂'s, 1 ♀		2 ♂, 1 ♀ <u>Hyalomma rufipes</u>
	Giraffe		<u>Giraffa camelopardalis</u>
	Ogo, Senegal		Ogo, Senegal (locality not verified) There are two populated places and one campsite with the name Ogo in Senegal PPL 14.35 N, 15.50 W PPL 15.33 N, 13.17 W CMP 14.45 N, 15.03 W
	ex. Riegenbach coll.		ex. Riegenbach coll.
	Given by Hon. Walter Rothschild by African Entomol Cttee (rec'd 19.X.1909 from Guy A. K. Marshall)		
N	889	N	889 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s, N's ex lots 871, 872, 873, 875, 877, 879, 883, 884, 886 q.v.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	890	N	890
		RML	86306
	<u>Haemaphysalis bispinosa</u> ♂'s, ♀'s		20 ♂, 30 ♀ <u>Haemaphysalis bispinosa</u>
	Horse		Horse
	Chin Hills, India		Chin Hills (22.30 N, 93.30 E), Burma
	1909		1909
	From H. Lefroy		From H. Lefroy
	(C.W.) 1 ♂, 1 ♀ to Capt. W. S. Patton 14.I.1910; 1 ♂, 1 ♀ to N.Y. National Museum 18.IV.1913; 1 ♂, 1 ♀ to Dr. S. Hadwen, British Columbia, Canada 10.X.1913.		Cited: Nuttall & Warburton (1915: 431).
N	891	N	891
		RML	109827
	<u>Haemaphysalis bispinosa</u> 1 ♀		1 ♀ <u>Haemaphysalis bispinosa</u>
	Cow		Cow
	Ceylon		Sri Lanka
	1906		1906
	ex Wheler collection		ex Wheler collection
			Cited: Nuttall & Warburton (1915: 432).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	892	N	892
		RML	109828
	<u>Haemaphysalis bispinosa</u>		7 ♂, 7 ♀ <u>Haemaphysalis bispinosa</u>
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Luthaia Mts., Assam		Probably Lushai Hills (23.10 N, 92.50 E), Assam, India
	[R295]		Spelling is Luthaia in catalogue and Southaia in Nuttall & Warburton (1915: 431). I believe it should be spelled as in N576 & N582.
N	893	N	893
		RML	109829
	<u>Haemaphysalis flava</u> ♂, ♀♀		1 ♂, 2 ♀ <u>Haemaphysalis flava</u> (tentative ID)
	♂ off dog		off dog
	♀ (small) off cattle		(small) off cattle
	♀ (large) off horse		(large) off horse
	♂ Ise and ♀♀ Hiroshima, Japan		Ise Province (34.30 N, 136.25 E), and Hiroshima (34.24 N, 132.27 E) Japan
	Rec'd 1908		Rec'd 1908
	Rec'd from W. Dönitz		Rec'd from W. Dönitz
			Cited: Nuttall & Warburton (1915: 410).

ORIGINAL DETERMINATIONCURRENT STATUS

N	894	N	894
		RML	109830
	<u>Haemaphysalis leachi</u> N's		5 N <u>Haemaphysalis leachi</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from C. P. Lounsbury		Rec'd from C. P. Lounsbury
			Nuttall & Warburton (1915: 472) indicated a dog as host
N	895	N	895
		RML	109831
	<u>Haemaphysalis leachi</u> ♂, ♀		4 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
			Cape Colony, Republic of South Africa
	1902		1902
	G.H.F.N.		C. P. Lounsbury
			From fed nymphs (above information on vial label). Nuttall & Warburton (1915: 472) indicated a dog as host.
N	896	N	896 MISSING
	<u>Haemaphysalis leachi</u> larvae		
	Raised in Cambridge		
	IV.1904		
	G.H.F.N.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	897	N	897
		RML	109832
	<u>Haemaphysalis campanulata</u> ♂'s, ♀'s TYPES		91 ♂, 4 ♀ <u>Haemaphysalis campanulata</u> Lectotype and paralectotype
	Chinese dogs		Chinese dogs
	Mongolia		Mongolia
	Rec'd 14.X.1906		Rec'd 14.X.1906
	Major M. L. Hearn		Major M. L. Hearn
	Rec'd from Col. Skinner, R.A.M.C.		Warburton (1908: 513), original description
	1 ♂, 1 ♀ to L. O. Howard, USDA, 21.V.1909; 1 ♂, 1 ♀ to Prof. Dönitz, Berlin; 1 ♂, 1 ♀ to Col. A. Alcock FRS, London School of Tropical Medicine, Royal Albert Dock. 26.I.1910.		There is an additional 1 ♂, 1 ♀ mounted on a slide that are not included in the above totals. The RML collection contains 2 ♂, 1 ♀ of this collection, probably from specimens sent to L. O. Howard.
			Cited: Nuttall & Warburton (1915: 492); Mortiz & Fischer (1981: 344). Lectotype designated: Keirans & Brewster (1981: 160).
N	898	N	898
		RML	109833
	<u>Haemaphysalis punctata</u> ♂'s, ♀'s		2 ♀ <u>Haemaphysalis punctata</u>
			Warwick (52.17 N, 01.35 W), England
	Rec'd 1902		Rec'd 1902
	Rec'd from E. G. Wheeler		Rec'd from E. G. Wheeler
			Locality information from vial label.

<u>ORIGINAL DESCRIPTION</u>		<u>CURRENT STATUS</u>	
N	899	N	899
		RML	109834
	<u>Haemaphysalis punctata</u>		3 ♂ <u>Haemaphysalis punctata</u>
	Lydd, Kent		Sheep
	23.III.1905		Lydd (50.57 N, 00.55 E), Kent, England
	Via W. F. Cooper		23.III.1905
			Via W. F. Cooper
			Nuttall & Warburton (1915: 384) cited the host as sheep.
N	900	N	900
		RML	109835
	<u>Haemaphysalis punctata</u> ♂'s, ♀'s		8 ♂, 12 ♀, 3 N <u>Haemaphysalis punctata</u>
	Cow with English redwater		Cow with English redwater
	XI.1906		Cambridge (52.13 N, 00.08 E), England
			XI.1906
N	901	N	901
		RML	109836
	<u>Haemaphysalis punctata</u> larvae (gorged)		+ 200 N, + 50 L <u>Haemaphysalis punctata</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Raised out in Cambridge		Cambridge (52.13 N, 00.08 E), England
	X-XI.1905		X-XI.1905
	G.H.F.N.		G.H.F. Nuttall

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	902	N	902
		RML	109837
	<u>Haemaphysalis punctata</u> Larvae		183 L <u>Haemaphysalis punctata</u>
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	25.X.1905		25.X.1905
	G.H.F.N.		G.H.F. Nuttall
	Raised in laboratory.		
N	903	N	903
		RML	109838
	<u>Hyalomma syriacum</u> ♂'s		4 ♂ <u>Hyalomma aegyptium</u>
	1906		1906
	ex E. G. Wheeler collection		ex E. G. Wheeler collection

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	904	N	904
		RML	109839
	<u>Hyalomma aegyptium</u> 2 ♂'s, 1 ♀		1 ♂, 1 ♀ <u>Hyalomma dromedarii</u>
	Northern Baluchistan		Northern Baluchistan, Pakistan
	Dr. Maynard & Capt. McMahon		Dr. Maynard & Capt. McMahon
N	905	N	905
		RML	109840
	<u>Hyalomma aegyptium</u> larvae		± 250 L. <u>Hyalomma</u> sp.
	Cape Colony		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
	[2 slides]		Slide missing
N	906, a, b	N	906, a, b
		RML	71484
	(906) <u>Haemaphysalis bispinosa</u>		(906) 2 ♀ <u>Haemaphysalis bispinosa</u>
	(a) <u>Rhipicephalus haemaphysaloides</u>		(906) 4 ♀ <u>Haemaphysalis intermedia</u>
	(b) <u>Hyalomma aegyptium</u>		(a) 1 ♂, 1 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Madras, India		(b) 5 ♀ <u>Hyalomma brevipunctata</u>
	26.X.1909		Madras (13.05 N, 80.17 E), India
	From Capt. W. S. Patton, I.M.S.		26.X.1909
			From Capt. W. S. Patton, I.M.S.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	907	N	907
	<u>Hyalomma aegyptium</u> N	RML	109841
	India		1 ♂, 1 ♀ <u>Hyalomma rufipes</u>
	ex C. Warburton coll.		India
			ex C. Warburton coll.
			Cecil Warburton (1854-1958) Close associate of G.H.F. Nuttall and well known economic entomologist and tick authority.
N	908	N	908 MISSING
	<u>Ornithodoros megnini</u> N		
	1906		
	ex E. G. Wheeler collection		
N	909	N	909
	<u>Ornithodoros savignyi</u> N	RML	109842
	1906		6 N <u>Ornithodoros savignyi</u>
	ex E. G. Wheeler collection		1906
			ex E. G. Wheeler collection

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	910	N	910
		RML	109843
	<u>Ornithodoros savignyi</u> ♀		1 ♀ <u>Ornithodoros savignyi</u>
	Camels		Camels
	Aden		Aden, India (locality not verified)
	19.I.1906		19.I. 1906
	Rec'd. from Dr. C.W. Daniels (London)		Rec'd from Dr. C.W. Daniels (London)
	[mounted in balsam on a slide]		Specimen no longer on slide. Locality data from vial label.
N	911	N	911
		RML	109844
	<u>Ornithodoros savignyi</u> N		15 N <u>Ornithodoros savignyi</u>
	1906		1906
	ex E. G. Wheeler collection		ex E. G. Wheeler collection
N	912	N	912
		RML	109845
	<u>Ornithodoros savignyi</u> ♀'s, ♂'s, N		1 ♀, 1 N <u>Ornithodoros savignyi</u>
			Republic of South Africa
	V. 1906		V. 1906
	ex C.P. Lounsbury collection		ex C.P. Lounsbury collection
			Locality taken from vial label

ORIGINAL DETERMINATIONCURRENT STATUS

N	913	N	913
		RML	109846
	<u>Ornithodoros talaje</u> var. <u>capensis</u>		1 ♂ <u>Ornithodoros capensis</u>
	Penguin's nest on guano		Penguin's nest on guano
	Island off Cape Colony		Island off Cape Colony, Republic of South Africa
	V.1906		V.1906
	ex Lounsbury collection		ex Lounsbury collection
			Vial label indicates island is west of Cape Colony.
N	914	N	914
		RML	109847
	<u>Dermacentor reticulatus</u> ♂, ♀		1 ♂, 1 ♀ <u>Dermacentor reticulatus</u>
	1905		1905
	ex E. G. Wheeler collection		ex E. G. Wheeler collection
			Specimens mounted on a slide.
N	915	N	915
		RML	109848
	<u>Ixodes bicornis</u>		1 ♀ <u>Ixodes boliviensis</u>
	America		America
	No particulars		No particulars

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	916	N	916
		RML	109849
	<u>Ixodes hexagonus</u> N		1 N <u>Ixodes hexagonus</u>
	13.I.1901		13.I.1901
	ex E.G. Wheler collection		ex E.G. Wheler collection
	Rec'd 1906		
N	917	N	917
		RML	109850
	<u>Ixodes hexagonus</u> ♀'s		2 ♀ <u>Ixodes hexagonus</u>
	Stoat		<u>Mustela erminea</u>
	22.XI.1901		22.XI.1901
	ex E.G. Wheler collection		ex E.G. Wheler collection
	Rec'd 1906		
N	918	N	918
		RML	105904
	<u>Ixodes hexagonus</u> ♀		1 ♀ <u>Ixodes hexagonus</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Grantchester, Cambs.		Grantchester (52.10 N, 00.06 E) Cambs., England
	15.VIII.1906		15.VIII.1906
	From N.D.F. Pearce		From N.D.F. Pearce
	♀ with curious scutum from 125a		This specimen is in a jar marked "Tick abnormalities" with two notes: (1) "Not worth describing" (2) "Not worth figuring"

ORIGINAL DETERMINATIONCURRENT STATUS

N	919	N	919
		RML	109851
	<u>Ixodes pilosus</u> unfed larvae		49 L <u>Ixodes pilosus</u> (tentative ID)
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
	[larvae mounted on 2 slides in balsam]		Slides missing Cited: Nuttall & Warburton (1911: 225), fig. 221.
N	920	N	920
		RML	109852
	<u>Ixodes pilosus</u> fed larvae		2 L <u>Ixodes pilosus</u> (tentative ID)
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
			Cited: Nuttall & Warburton (1911: 225). 1 L of this collection was given to Dr. R. A. Cooley and is now in the RML Collection. Edwards & Evans (1967: 595).
N	921	N	921
		RML	109853
	<u>Ixodes pilosus</u> unfed nymphs		14 N <u>Ixodes pilosus</u> (tentative ID)
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
	[2 N's in balsam on slides]		Cited: Nuttall & Warburton (1911: 224, fig. 220). 1 N of this collec- tion was given to Dr. R. A. Cooley and is now in the RML Collection.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	922	N	922
		RML	109854
	<u>Ixodes pilosus</u> fed nymphs		3 N <u>Ixodes pilosus</u> (tentative ID)
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd III. 1906		Rec'd III. 1906
	Rec'd from Mr. C.P. Lounsbury		Rec'd from Mr. C.P. Lounsbury
			Cited: Nuttall & Warburton (1911: 225).
N	923	N	923 MISSING
	<u>Ixodes pilosus</u> ♂'s, ♀'s		
	Cape Colony		
	Rec'd III. 1906		
	Rec'd from Mr. C.P. Lounsbury		
N	924	N	924 MISSING
	<u>Ixodes pilosus</u> ♀'s		
	Rec'd 1906		
	ex Wheler collection		
	[a ♀ in balsam on slide]		
	1 ♀ to Dr. E. Pavlovsky,		
	Leningrad 9 X. 1925		
N	925	N	925 MISSING
	<u>Ixodes pilosus</u> ♀'s		
	Rec'd. 1906		
	ex Wheler collection		

ORIGINAL DETERMINATIONCURRENT STATUS

N	926	N	926
		RML	109855
	<u>Ixodes pilosus</u> ♀'s, ♂'s in copula		1 ♂, 1 ♀ <u>Ixodes lewisi</u>
	Rec'd. 1906		Rec'd 1906
	ex Wheler collection		ex Wheler collection
			Cited: Nuttall & Warburton (1911: 225) as <u>I. pilosus</u> .
N	927	N	927 MISSING
	<u>Ixodes pilosus</u> ♂'s		
	14 XI. 1904		
	From C.P. Lounsbury ex Wheler collection		
N	928	N	928 MISSING
	<u>Ixodes rarus</u> ♂'s, ♀'s		Arthur & Burrow (1957: 496) cite 1 ♂, 2 ♀ <u>I. rarus</u> and p. 505, 7 ♀ <u>I. pseudorarus</u> (sic). Both collections are now missing.
	Man & dog		
	Kumasi, Ashanti, Gold Coast		
	From Dr. Wm. Graham		
	1 ♀ to J. de Meza, Zomba Nyasaland		

ORIGINAL DETERMINATIONCURRENT STATUS

N	929	N	929
	<u>Ixodes ricinus</u>	RML	109856
	Dallyhaise, Co. Cavan		19 L <u>Ixodes ricinus</u>
	5.VII.1905		Dallyhaise, Co. Cavan (53.55 N, 07.15 W) Ireland
	From J. W. Steen		5.VII.1905
	[3 larvae, mounted in balsam on a slide, fig'd in <u>Ticks</u> , part II]		From J. W. Steen
			Slides missing. Cited and figured by Nuttall & Warburton (1911: 154, fig. 147, 148).
N	930	N	930
	<u>Ixodes ricinus</u> larvae, gorged	RML	109857
	Hedgehog		9 L <u>Ixodes ricinus</u>
	Cambridge		<u>Erinaceus europaeus</u>
	1906		Cambridge (52.13 N, 00.08 E) England
	G.H.F.N.		1906
			G.H.F. Nuttall
			Cited: Nuttall & Warburton (1911: 149, fig. 141).
N	931	N	931
	<u>Ixodes ricinus</u> nymphs (unfed)	RML	66942
	Hedgehog		3 N <u>Ixodes ricinus</u>
	Cambridge		<u>Erinaceus europaeus</u>
	1906		Cambridge (52.13 N, 00.08 E) England
	G.H.F.N.		1906
	[2 N mounted in balsam on a slide]		G.H.F. Nuttall
			An additional nymph of this collection was sent to the U.S. National Museum and is now in the RML collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	932	N	932
		RML	109858
	<u>Ixodes ricinus</u> nymphs (gorged)		14 N <u>Ixodes ricinus</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Cambridge		Cambridge (52.13 N, 00.08 E) England
	1906		1906
	G.H.F.N.		G.H.F. Nuttall
N	933	N	933
		RML	109859
	<u>Ixodes ricinus</u> ♂'s, ♀'s		3 ♂ <u>Ixodes ricinus</u>
	Coilesson, Scotland		Coilesson, Scotland (locality not verified). A possible locality is Collieston (57.21 N, 01.56 W)
	15.IV.1905		15.IV.1905
	From P. MacKenzie		From P. MacKenzie
	Det. by G.H.F.N. [7 slides, balsam-mounts, ♂'s, ♀'s and their mouthparts]		Slides missing. Cited: Nuttall & Warburton (1911: 148, fig. 139; 149, fig. 140; 150, fig. 144).
N	934	N	934 MISSING
	<u>Ixodes ricinus</u> ♀		
	Coilesson, Scotland		
	15.IV.1905		
	From P. MacKenzie		
	1 ♀ to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.VI.1914. 1 ♂ to Dr. A. Watkins Pitchford, Army Veterinary School, Thornhill, Aldershot 12.X.1922		

ORIGINAL DETERMINATIONCURRENT STATUS

1 ♂ to L.P.W. Renouf, Biol. Dept.,
University College, Cork, Ireland,
12.X. 1922
1 ♂ to W.A. Pool, Indian Civil
Veterinary Service, 12.X. 1922
1 ♂ to Dr. Wm. Parry Morgan,
Publ. Hlth. Lab. Cardiff, Wales
12 X. 1922
1 ♂ to J.E.M. Mellor, Malvern College,
Malvern 16.X. 1922
1 ♂ to Prof. A. Bettencourt, Just.
Camara Pestana, Lisbon, 7,XI. 1922

N 935

Ixodes putus N's, ♀'s gorged

1906

ex E.G. Wheler collection

N 935

RML 109860

1 ♀, 10 N Ixodes uriae

1906

ex E.G. Wheler collection

Cited: Nuttall & Warburton (1911; 260).

N 936

Ixodes putus N's, ♂'s

1903

ex E.G. Wheler collection

N 936

RML 109861

1 N Ixodes rothschildi

1903

ex E.G. Wheler collection

Cited: Nuttall & Warburton (1911; 260)
as Ixodes putus

N 937

Ixodes putus ♂'s, ♀'s

1906

ex E.G. Wheler collection

N 937

RML 109862

1 ♂, 2 ♀ Ixodes uriae

1906

ex E.G. Wheler collection

Cited: Nuttall & Warburton (1911; 260).

ORIGINAL DETERMINATIONCURRENT STATUS

N	938	N	938
		RML	109863
	<u>Amblyomma petersi</u> 1 ♀		1 ♀ <u>Amblyomma rhinocerotis</u>
	Rhinoceros		Rhinoceros
	Uganda, B.E. Africa		Uganda
	1909		1909
	H.G. Simpson		H.G. Simpson
	(ex "G.M." coll.)		
N	939a, b	N	939a, b
		RML	109864
	(939) <u>Ornithodoros moubata</u> ♂'s, ♀'s, Ns		(939) MISSING
	(a) <u>Amblyomma marmoreum</u>		(a) 1 ♀ <u>Amblyomma nuttalli</u>
	(b) <u>Aponomma laeve</u> 4 ♂'s, ♀'s		(b) 1 ♂, 3 ♀ <u>Aponomma latum</u>
	Uganda		Uganda
	Sent 8.X.1909		Sent 8.X.1909
	From Dr. H. Bayon		From Dr. H. Bayon
			Cited as <u>A. marmoreum</u> by Robinson (1926: 89, 90); Cited: Santos Dias (1958: 513).

<u>ORIGINAL DESCRIPTION</u>		<u>CURRENT STATUS</u>	
N	940	N	940
		RML	109865
	<u>Amblyomma marmoreum</u> 4♂'s, 2♀'s, 4N's		3♂, 2 ♀, 3 N <u>Amblyomma nuttalli</u>
	Viper, <u>Bitis gabonica</u>		<u>Bitis gabonica</u>
	Uganda		Uganda
	Sent 8.X.1909		Sent 8.X.1909
	From Dr. H. Bayon		From Dr. H. Bayon
	Snake det. by Col. A. Alcock, F.R.S.		Cited as <u>A. marmoreum</u> by Robinson (1926: 90).
N	941, a	N	941, a
		RML	109866
	(941) <u>Amblyomma petersi</u> ♂'s, ♀'s		(941) 3♀ <u>Amblyomma rhinocerotis</u>
	(a) <u>Dermacentor rhinocerotis</u>		(a) 2 ♂, 4 ♀ <u>Dermacentor rhinocer-</u> <u>inus</u>
	Off long grass		Off long grass
	2 days journey from Bussu Meros County, Uganda		2 days journey from Bussu Meros County, Uganda (locality not verified)
	Sent 8.X.1909		Sent 8.X.1909
	From Dr. H. Bayon		From Dr. H. Bayon
			Cited as <u>A. petersi</u> by Robinson (1926: 264).

ORIGINAL DETERMINATIONCURRENT STATUS

N	942 a-c	N	942 a-c
		RML	109867
	(a) <u>Hyalomma aegyptium</u>		(a) 1 ♀ <u>Hyalomma marginatum isaaci</u>
	(b) <u>Haemaphysalis leachi</u> var. <u>indica</u> ♀		(b) 1 ♀ <u>Haemaphysalis indica</u>
	(c) <u>Rhipicephalus haemaphysaloides</u>		(c) 1 ♀ <u>Rhipicephalus haemaphysaloides</u>
	<u>Herpestes mungo</u>		<u>Herpestes</u> sp.
	India		India
	Sent 14.X.1909		Sent 14.X.1909
	Sent by Capt. W.S. Patton		Sent by Capt. W.S. Patton
			(b) Cited: Hoogstraal (1970a: 1013).
N	943	N	943
		RML	109868
	<u>Haemaphysalis punctata</u> ♀		1 ♀ <u>Haemaphysalis chordeilis</u>
	Cattle		Cattle
	Winnipeg, Manitoba, Canada		Winnipeg (49.53 N, 97.10 W), Manitoba, Canada
	9.XI.1909		9.XI.1909
	S. Hadwen, D.V. Sci.		S. Hadwen, D.V. Sci.
	(also, 1 ♀ mounted on slide)		Slide missing
			Semour A. Hadwen (1877-1947) Born in England, received Veterinary degree from McGill University, Montreal; 1929-1942 Director, Department of Veterinary Science, Ontario Research Foundation. Conducted many studies of ticks and warble flies.
			Incorrectly cited as N 934 in Nuttall & Warburton (1915: 376).

ORIGINAL DESCRIPTIONCURRENT STATUS

N	944	N	944
		RML	109869
	<u>Amblyomma lepidum</u> 2 ♂'s		2 ♂ <u>Amblyomma lepidum</u> Syntypes
	Cattle		Cattle
	Zanzibar		Zanzibar, Tanzania
	Presented 20.XII.1909		Presented 20.XII.1909
	Presented by W. Dönitz (Berlin)		Presented by W. Dönitz (Berlin)
			There is a blue COTYPE label in the vial containing these two ♂ specimens. Dönitz (1909: 460), original description. Cited: Robinson (1926: 97).
N	945	N	945
		RML	109870
	<u>Amblyomma gemma</u> 2 ♂, 1 ♀, (1 ♂ dry)		2 ♂, 1 ♀ <u>Amblyomma gemma</u> plus 1 ♂ pinned possible Syntypes
	Giraffe		<u>Giraffa camelopardalis</u>
	Ngomberenga, Mkatta-Steppe		Ngomberenga, Mkata Plain (07.00 S, 37.15 E), Tanzania
	Presented 20.XII.1909		Presented 20.XII.1909
	Presented by W. Dönitz (Berlin)		Presented by W. Dönitz (Berlin)
			Dönitz (1906: 458) original description, p. 460 lists host as cattle and giraffe and Zanzibar and German East Africa as localities. Robinson (1926: 122) stated that Dönitz's original material was from a giraffe, Mkatta-Steppe but he doesn't list this collection (which he incorrectly numbered N 965) as being part of the type series.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	946	N	946
		RML	109871
	<u>Amblyomma furcula</u> 1 ♂, 2 ♀, 15 N		1 ♂, 2 ♀, 16 N <u>Amblyomma neumanni</u>
	Found free		Found free
	Salta, Argentina, S. America		Salta (24.47 S, 65.25 W), Argentina
	Presented 20.XII.1909		Presented 20.XII.1909
	Presented by W. Dönitz		Presented by W. Dönitz
			These are possible type specimens of <u>Amblyomma furcula</u> which was described by Dönitz (1909: 478) and listed as being found free in Argentina. Cited: Robinson (1926: 127), fig. 53.
N	947	N	947
		RML	109872
	<u>Amblyomma eburneum</u> ♂, ♀ 1 ♂ pinned		1 ♂, 1 ♀ <u>Amblyomma eburneum</u>
	Cattle		Cattle
	Muengembo, German East Africa		Muengembo, Tanzania (locality not verified)
	Presented 20.XII.1909		Presented 20.XII.1909
	Presented by W. Dönitz		Presented by W. Dönitz
			Cited: Robinson (1926: 119); Cited as <u>Amblyomma gemma</u> by Santos Dias (1958: 503). [The posterior accessory stripes of the ♂ do not reach the median stripe but the ♀ scutum is extensively dark (J.E.K.)]. The pinned ♂ is now in the BMNH collection.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	948	N	948
		RML	109873
	<u>Rhipicephalus appendiculatus</u> ♂ abnormal, 2 anal orifices		1 ♂ <u>Rhipicephalus appendiculatus</u>
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd. 20.XII. 1907		Rec'd 20.XII. 1907
	Rec'd. from C.P. Lounsbury		Rec'd from C.P. Lounsbury
			This specimen is in a jar marked "Tick Abnormalities" Cited and figured in Nuttall (1914a: 250, fig. 1)
N	949	N	949
		RML	109874
	<u>Ornithodoros savignyi</u>		15 N <u>Ornithodoros savignyi</u>
	Near Manmad, Deccan		Near Manmad (20.15 N, 74.27 E) Deccan upland, India
	X. 1909		X. 1909
	Sent by Capt. E.D.W. Greig, I.M.S.		Sent by Capt. E.D.W. Greig, I.M.S.
	Capt. Greig of the Bombay Bacteriological Laboratory, Paril, Bombay, India. Rec'd 29. XI. 1909		
	12.I. 1910 Captain Greig (4.XI. 1909) reports in his letter of these ticks: "The history is that the ticks were creeping about on the grass and bit men, both Europeans and natives freely. The ticks bit during the day & also at night. They were numerous on the ground under a chappar (shed) where people came to watch their crops at night."		

ORIGINAL DETERMINATIONCURRENT STATUS

N	950	N	950
		RML	109875
	<u>Haemaphysalis</u> sp. L & N		1 N, 2 L <u>Haemaphysalis</u> sp.
	Off grass		Off grass
	Hakgalla, Ceylon		Hakgalla (07.08 N, 80.08 E), Sri Lanka
	IX. 1909		IX. 1909
	E.E. Green		E.E. Green
	(E.E. Green of Royal Botanic Gardens, Perodeniya Ceylon. Rec'd. 22 XI. 1909)		
N	951, a, b	N	951, a, b
		RML	109876
	(951) <u>Hyalomma aegyptium</u>		(951) 5 ♂, 2 ♀ <u>Hyalomma truncatum</u>
	(a) <u>Rhipicephalus neavei</u>		(a) 7 ♂ <u>Rhipicephalus kochi</u>
	(b) <u>Rhipicephalus simus</u>		(b) 11 ♂, 4 ♀ <u>Rhipicephalus simus</u>
	Eland Antelope		<u>Taurotragus oryx</u>
	Bua River, Marimba District Nyasaland		Bua River, (12.45 S, 34.16 E), Malawi
	20.IX. 1909		20.IX. 1909
	Dr. E.H.A. Pask		Dr. E.H.A. Pask
	Sent by Dr. H. Hearsey, P.M.O. Nyasaland		

ORIGINAL DETERMINATIONCURRENT STATUS

N	952, a	N	952, a
		RML	105621
	(952) <u>Hyalomma aegyptium</u> N's (a) <u>Rhipicephalus sanguineus</u>		(952) 53 N <u>Hyalomma</u> sp. (a) 3 ♂ <u>Rhipicephalus sulcatus</u>
	Wild hare		Wild hare
	Bua River, Marimba District Nyasaland		Bua River (12.45 S, 34.16 E), Malawi
	27.IX. 1909		27.IX. 1909
	Dr. E.H.A. Pask		Dr. E.H.A. Pask
	Forwarded by Dr. H. Hearsey, P.M.O. Nyasaland		
N	953, a, b,	N	953, a, b
		RML	109877
	(953) <u>Rhipicephalus pulchellus</u> (a) <u>Rhipicephalus sanguineus</u> (b) <u>Rhipicephalus simus</u>		(953) 1 ♂, 1 ♀ <u>Rhipicephalus pulchellus</u> (a) 1 ♀, 1 N <u>Rhipicephalus sanguineus</u> (b) 1 ♂ <u>Rhipicephalus simus</u> 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Upper Sheikh (4500 Ft.) British Somaliland		Upper Sheikh (09.56 N, 45.13 E), Somali Democratic Republic
	6.XI. 1909		6.XI. 1909
	A.E. Drake-Brockman		A.E. Drake-Brockman
	From Guy A.K. Marshall Rec'd. 20 XII. 1909 (ex letter 13 I. 1910 from Mr. Marshall)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	954, a	N	954, a
		RML	109878
	(954) <u>Haemaphysalis hystericis</u> (a) <u>Haemaphysalis koningsbergeri</u>		(954) 2 ♀ <u>Haemaphysalis semermis</u> (a) 1 ♂, 1 ♀ <u>Haemaphysalis koningsbergeri</u>
	Dog		Dog
	Upper Sarawak, Borneo		Sarawak
	XI. 1909		XI. 1909
	Rec'd from J.C. Moulton of Sarawak Museum, Jan. 1910		Rec'd. from J.C. Moulton of Sarawak Museum, Jan. 1910
			(954) Cited Hoogstraal et al (1965b; 435).
N	955	N	955
		RML	109879
	<u>Boophilus australis</u>		8 ♂, 207 ♀, 5 N <u>Boophilus microplus</u>
	Cattle		Cattle
	Sarawak, Borneo		Sarawak
	Sent 4.X. 1909		Sent 4.X. 1909
	Sent by J.C. Moulton		Sent by J.C. Moulton
	N.B. 6♂'s, 5♀ in separate tube from many ♀'s.		Above collection in two vials; one vial containing 6 ♂, 5 ♀ and called, I believe "transparent"
N	956	N	956 MISSING
	<u>Amblyomma petersi</u>		
	Rhinoceros		
	White Nile		
	Sent 1.XII. 1909		
	Sent by Col. A. Alcock F.R.S., (London School Tropical Medicine)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	957	N	957 MISSING
	<u>Amblyomma petersi</u>		
	?Rhinoceros		
	Uganda		
	Sent I.XII.1909		
	Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)		
N	958	N	958
		RML	109880
	<u>Amblyomma marmoreum</u>		1 ♂ <u>Amblyomma nuttalli</u>
	Tortoise		Tortoise
	Uganda		Uganda
	Sent 1.XII.1909		Sent 1.XII.1909
	Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)		Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)
			Cited: SantosDias (1958: 513) as 1 ♀ X.1909. Theiler & Salisbury (1959: 115) mistakenly list the date as 1.XII.1900
N	959	N	959
		RML	109881
	<u>Amblyomma marmoreum</u>		1 ♂ <u>Amblyomma sparsum</u>
	Rhinoceros		<u>Diceros bicornis</u>
	British East Africa		Kenya
	Sent 1.XII.1909		Sent 1.XII.1909
	Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)		Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)
			Theiler & Salisbury (1959: 112) mistakenly list the date as 1900.

ORIGINAL DETERMINATIONCURRENT STATUS

N	960	N	960
		RML	109882
	<u>Amblyomma gemma</u>		1 ♂ <u>Amblyomma gemma</u>
	Giraffe		<u>Giraffa camelopardalis</u>
	British East Africa		Kenya
	Sent 1.XII.1909		Sent 1.XII.1909
	Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)		Sent by Col. A. Alcock, F.R.S. (London School Tropical Medicine)
			Cited: Robinson (1926: 122).
N	961	N	961
		RML	109883
	<u>Ixodes caledonicus</u> 1 ♀		1 ♀ <u>Ixodes caledonicus</u> Lectotype
	Off rocks below dove's nest		Off rocks below dove's nest
	Fast Castle, Scotland		Fast Castle (55.56 N, 02.14 W), Scotland
	6.IX.1909		6.IX.1909
	Dr. J.H. Ashworth		Dr. J.H. Ashworth
	To be returned to J.H. Ashworth who sent it with the following on 21.XII.1909 for identification (Senders "No. 5")		Nuttall (1910: 408), original descrip- tion with J.H. Ashworth as collector. Nuttall & Warburton (1911: 200) cited J.F. Cormack and J. Waterston as collect- ors with the specimen being sent to Nuttall by J.H. Ashworth. Lectotype designated: Keirans & Brewster (1981: 164)
	8.XI.1910 & 28.X.1910 Kindly presented by Messrs. J.F. Cormack and J. Waterston		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	962	N	962 MISSING
	(1) <u>Ixodes unicavatus</u> ♀, N, L		
	(2) <u>Ixodes hexagonus</u>		
	(1) Cormorant		
	(2) Polecat		
	(1) Firth of Forth, Scotland		
	(2) Rosshire		
	(1) 17.XI.1906		
	(2) 6.XII.1907		
	(1) from Mr. William Evans 38 Morningside Drive, Edinburgh		
	Identified and returned 23.I.1910		
N	963	N	963 MISSING
	<u>Ixodes ricinus</u> ♀		
	Heifer affected with redwater		
	Tavistock, C. Devon		
	14.I.1910		
	G.H. Gibbings, F.R.C.V.S.		
N	964	N	964
		RML	109884
	<u>Amblyomma hebraeum</u> N's and adults which emerged there from		1 ♂, 1 ♀, 4 N <u>Amblyomma hebraeum</u>
	Goat		Goat
	Cape Colony		Cape Colony, Republic of South Africa
	Rec'd 6.VII.1908		17.IV., rec'd 6.VII.1908
	Rec'd from C.P. Lounsbury		Rec'd from C.P. Lounsbury
	Engorged as nymphs on goat 365 on day of its death (Heartwater)		Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 965</p> <p><u>Amblyomma personatum</u> ♂</p> <p>Said to be off rhinoceros</p> <p>Nairobi, B. E. Africa</p> <p>Rec'd 11.XII.1909</p> <p>Rec'd from Col. Alcock, F.R.S.</p>	<p>N 965 MISSING</p>
<p>N 966</p> <p><u>Ornithodoros savignyi</u> ♀ (dry, pinned) ♂ ♀♀ N (bottled)</p> <p>Camel</p> <p>Near Aden</p> <p>Rec'd 29.X.1909</p> <p>Rec'd from Dr. J. H. Ashworth Zool. Dept., Edinburgh University</p> <p>2 adults to S. Hadwen, British Columbia, Canada, 10.X.1913</p>	<p>N 966</p> <p>RML 109885</p> <p>3 ♂, 10 ♀, 7 N <u>Ornithodoros savignyi</u></p> <p>Camel</p> <p>Peoples Democratic Republic of Yemen</p> <p>Rec'd 29.X.1909</p> <p>Rec'd from Dr. J. H. Ashworth, Zool. Dept., Edinburgh University</p>
<p>N 967</p> <p><u>Ornithodoros talaje</u> 8 specimens</p> <p>San Bernardino, Paraguay, South America</p> <p>22.III.1909</p> <p>From Dr. Karl Fiebrig</p> <p>ex W. F. Cooper collection Rec'd 26.I.1910 from W. F. Cooper</p>	<p>N 967</p> <p>RML 109886</p> <p>2 ♂, 1 ♀, 3 N <u>Ornithodoros</u> sp.</p> <p>San Bernardino (25.16 S, 57.19 W), Paraguay</p> <p>22.III.1909</p> <p>From Dr. Karl Fiebrig</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	968	N	968
		RML	109887
	<u>Ceratixodes putus</u>		1 ♂, 2 ♀, 2 N <u>Ixodes uriae</u>
	Cliffs, Rhosilly, Gower Glamorganshire 20 miles from Swansea		Cliffs, Rhossili (51.35 N, 04.18 W), Glamorganshire, Wales
	15-20.V.1909		15-20.V.1909
	Rec'd from Dr. J.W.W. Stephens (Liverpool School of Tropical Medicine)		Rec'd from Dr. J.W.W. Stephens (Liverpool School of Tropical Medicine)
	Dr. Stephens supplies the following history: Guillemots chiefly, razorbills less, and puffins (a few pairs only) breed on the cliffs. The birds were beginning to lay at this period which may account for the few ticks captured. The cliffs are said to be "crawling" with them at other times (later in the season). These found under stones and in cracks in the earth a few inches down. I found one copulating pair in a crack hen alive they are about the colour of a Belgian hare, rather greener not so yellow. No larvae were found.		Cited: Nuttall & Warburton (1911: 258, fig. 255; 259, fig. 260; 260).
N	969	N	969
		RML	105772
	<u>Argas persicus</u> ♂ ♀		1♂, 1 ♀ <u>Argas miniatus</u>
	1906		1906
	ex Wheler's collection		ex Wheler's collection
	No particulars		

ORIGINAL DETERMINATIONCURRENT STATUS

N	970	N	970
		RML	105652
	<u>Argas persicus</u> larvae		26 L <u>Argas persicus</u>
	1906		1906
	ex Wheler's collection		ex Wheler's collection
	No particulars		Three larvae mounted on slides
N	971	N	971
		RML	109888
	<u>Argas persicus</u> adults		3 ♂, 2 N <u>Argas miniatus</u>
	1906		1906
	ex Wheler's collection		ex Wheler's collection
	No particulars		
N	972	N	972
		RML	109889
	<u>Argas persicus</u> adults		3 ♂, 1 N <u>Argas miniatus</u>
	1906		1906
	ex Wheler's collection		ex Wheler's collection
	No particulars		
N	973	N	973
		RML	109890
	<u>Argas persicus</u> unfed larvae		44 L <u>Argas miniatus</u>
	1906		1906
	ex Wheler's collection		ex Wheler's collection
	No particulars		

ORIGINAL DETERMINATIONCURRENT STATUS

N	974	N	974
		RML	109891
	<u>Argas miniatus</u>		12 ♂, 4 ♀, 3 N <u>Argas miniatus</u> (tentative ID, poor specimens)
	1904		1904
	Rec'd from Dr. Borrel, Paris		Rec'd from Dr. Borrel, Paris
	No particulars		
N	975	N	975
		RML	109892
	<u>Argas vespertilionis</u>		1 ♀, 2 N <u>Argas confusus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	Rec'd from C.P. Lounsbury		Rec'd from C.P. Lounsbury
			Cited: Hoogstraal (1955b: 593)
N	976	N	976
		RML	109893
	<u>Argas miniatus</u>		4 cast skins <u>Argas</u> sp.
			1904
	No particulars		The date is from the vial label and may associate this collection with N 974

ORIGINAL DETERMINATIONCURRENT STATUS

N	977	N	977
		RML	109894
	<u>Argas persicus</u> adults		4 ♂, 8 ♀, 1 N <u>Argas persicus</u>
	Kasguli, Punjab, India		Kasauli (30.55 N, 76.57 E), India
	25.V.1907		25.V.1907
	Rec'd from Capt. E.D.W. Greig		Rec'd from Capt. E.D.W. Greig
	Some (sex stage not stated) were sent to the following:		
	Prof. Galli-Valerio, Lausanne, Switzerland, 14.III.1912		
	Prof. Dr. M. Miyajima, Tokio, Japan, 7.III.1912		
	Dr. G.L. Tuck, Director, Army Medical College, Tientsin, China 17.II.1910		
	Dr. J.H. Ashworth, Edinburgh 22.VI.1910		
	A.H. Cockayne, Wellington, N.2		
	Dr. Longin Navas, Zaragoza, Spain 28.V.1913		
	Richard Hancock, England, 16.VI.1918		
N	978	N	978
		RML	109895
	<u>Argas persicus</u> larvae		40 L <u>Argas persicus</u>
	Kasguli, Punjab, India		Kasauli (30.55 N, 76.57 E), India
	1.X.1907		1.X.1907
	Parents sent by Capt. E.D.W. Greig		Parents sent by Capt. E.D.W. Greig
N	979	N	979 MISSING
	<u>Argas persicus</u>		
	Kasguli, Punjab, India		
	20.XII.1907		
	Parents sent by Capt. E.D.W. Greig		

ORIGINAL DETERMINATIONCURRENT STATUS

N	980	N	980
		RML	109896
	<u>Argas persicus</u> gorged larvae		18 L <u>Argas persicus</u>
	Kasguli, Punjab, India		Kasauli (30.55 N, 76.57 E), India
	20.XII.1907		20.V.1907
	Parents sent by Capt. E.D.W. Greig		Parents sent by Capt. E.D.W. Greig
			Date from vial label
N	981	N	981
		RML	109897
	<u>Argas persicus</u> adults		1 ♂, 1 ♀ <u>Argas persicus</u>
	Cairo, Egypt		Cairo (30.03 N, 31.15 E), Egypt
	29.VIII.1906		29.VIII.1906
	Rec'd from Dr. Bitter		Rec'd from Dr. Bitter
			Parents of N 982 and 983
N	982	N	982
		RML	109898
	<u>Argas persicus</u> gorged larvae		2 L <u>Argas persicus</u>
	Cairo, Egypt		Cairo (30.03 N, 31.15 E), Egypt
	1907		1907
	Parents rec'd from Dr. Bitter		Parents rec'd from Dr. Bitter

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	983	N	983
	<u>Argas persicus</u> N	RML	109899
	Cairo, Egypt		2 N <u>Argas persicus</u>
	1907		Cairo (30.03 N, 31.15 E), Egypt
	Parents rec'd from Dr. Bitter		1907
			Parents rec'd from Dr. Bitter
N	984	N	984 MISSING
	<u>Argas miniatus</u> (<u>americanus</u>)		
	1904		
	Rec'd from E. Marchoux, Paris		
N	985	N	985
	<u>Argas persicus</u> adults	RML	109900
	Rec'd 6.II.1907		1 ♂, 6 ♀ <u>Argas miniatus</u>
	Rec'd from E. Marchoux, Paris		Rec'd 6.II.1907
			Rec'd from E. Marchoux, Paris
N	986	N	986 MISSING
	<u>Rhipicephalus sanguineus</u>		
	Dog's ear		
	Suva, Fiji		
	8.XI.1909		
	F.P. Jepson		
	Rec'd 28.II.1910		

ORIGINAL DETERMINATIONCURRENT STATUS

N	987	N	987
		RML	109901
	<u>Amblyomma cyprium</u>		1 ♂ <u>Amblyomma cyprium</u>
	Near Suva, Fiji		Near Suva (18.08 S, 178.25 E), Fiji
	12.XI.1909		12.XI.1909
	Sent to F.P. Jepson		Sent to F.P. Jepson
	Rec'd 28.II.1910		F.P. Jepson (d. 1950) Government Entomologist, Fiji 1909-1919. Deputy Director of Agriculture Ceylon 1919-1940
N	988	N	988
		RML	109902
	<u>Rhipicephalus sanguineus</u>		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Suva, Fiji		Suva (18.08 S, 178.25 E), Fiji
	1.XII.1909		1.XII.1909
	F.P. Jepson		F.P. Jepson
	Received 28.II.1910		
N	989	N	989
		RML	109903
	<u>Rhipicephalus sanguineus</u>		1 N <u>Rhipicephalus sanguineus</u>
	Dog's ear		Dog's ear
	Suva, Fiji		Suva (18.08 S, 178.25 E), Fiji
	4.I.1910		4.I.1910
	F.P. Jepson		F.P. Jepson
	Rec'd. 28.II.1910		

ORIGINAL DETERMINATIONCURRENT STATUS

N	990	N	990	MISSING
	<u>Hyalomma aegyptium</u>			
	Dog			
	India			
	Rec'd 11.II.1910			
	Sent by Col. A. Alcock			
N	991	N	991	
		RML	109904	
	<u>Ixodes angustus</u> 1 ♀		1 ♀ <u>Ixodes angustus</u>	
	Squirrel, <u>Sciurus douglasii</u>		<u>Tamiasciurus douglasii</u>	
	Mt. Lehman, B.C.		Mt. Lehman (49.07 N, 122.23 W) British Columbia, Canada	
	2.XII.1909		2.XII.1909	
	Rec'd from S. Hadwen		Rec'd. from S. Hadwen	
	Rec'd 15.III.1910		Cited: Nuttall & Warburton (1911: 197).	
N	992	N	992	
		RML	109905	
	<u>Ixodes texanus</u> 1 ♀		1 ♀ <u>Ixodes hearlei</u>	
	Coon		<u>Procyon lotor</u>	
	Mt. Lehman, B.C.		Mt. Lehman (49.07 N, 122.23 W), British Columbia, Canada	
	10.I.1910		10.I.1910	
	From S. Hadwen		From S. Hadwen	
	Rec'd 15.III.1910		Nuttall & Warburton (1911: 215) figure this specimen and N 270, <u>I. texanus</u> . The specimens are both correct but the captions are beneath the wrong illustrations.	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	993	N	993
		RML	109906
	<u>Boophilus australis</u>		23 ♀ <u>Boophilus microplus</u>
	Colombia, S. America		Colombia
			II.1910
			Dr. Gadow
	C.W. det.		Date & collection on vial label
N	994	N	994
		RML	109907
	<u>Amblyomma maculatum</u>		1 ♂, 6 ♀ <u>Amblyomma maculatum</u>
	Cattle		Cattle
	Ambalema, Rio Magdalena, Colombia, South America		Ambalema (04.47 N, 74.46 W), Rio Magdalena, Colombia
			Rec'd II.1910
	C.W. det.		An additional 1 ♀ of this collection is pinned Date on vial label Cited: Robinson (1926: 44).
N	995	N	995
		RML	109908
	<u>Amblyomma cajennense</u>		22 ♂, 13 ♀, 29 N, 68 L <u>Amblyomma cajennense</u>
	Colombia, S. America		Colombia
	Rec'd II.1910		Rec'd II.1910
	Dr. Gadow, F.R.S.		Dr. Gadow, F.R.S.

ORIGINAL DETERMINATIONCURRENT STATUS

N	996	N	996
		RML	109909
	<u>Amblyomma nuttalli</u> COTYPE		1 ♂ <u>Amblyomma nuttalli</u> SYNTYPE
	<u>Varanus</u> or <u>Emys</u>		<u>Varanus</u> or <u>Emys</u>
	German East Africa		Tanzania
	Rec'd 15.III.1910		Rec'd 15.III.1910
	Rec'd from Prof. Dönitz		Recd from Prof. Dönitz
	(Daressalam and Bagamojo etc. see Dönitz Über das Zeckengenus <u>Amblyomma</u> Sitzungeber. d. Gesellsch. f. Naturforsch. Freunde No. 8 Jahrg. 1909 p. 469-471, fig. 4 (♀)		Dönitz (1909: 469), original description. Cited: Robinson (1926: 93).
N	997	N	997
		RML	109910
	<u>Amblyomma nuttalli</u> ♀ COTYPE		1 ♀ <u>Amblyomma nuttalli</u> SYNTYPE
	<u>Varanus</u> or <u>Emys</u>		<u>Varanus</u> or <u>Emys</u>
	German East Africa		Tanzania
	Rec'd 15.III.1910		Rec'd 15.III.1910
	Rec'd from Prof. Dönitz		Rec'd from Prof. Dönitz
	Abstract of a letter from Prof. W. Dönitz, dated March ... 1910 regarding <u>Amblyomma nuttalli</u> . Prof. W. Dönitz (Berlin) in his letter (III.1910) states that the ♀ is typical but he is uncertain if the ♂ belongs to the ♀. He assumes that they belong to the same species, because the punctations and ornamentations in general agree and that both were found on cold-blooded animals, <u>Varanus</u> , <u>Emys</u> . As yet he has only succeeded in obtaining 3 ♂ and 3 ♀ of which he has given one pair to the Zoological Museum, Berlin. The ♀ which he sends me is not as clearly marked as his own, but it nevertheless shows the characteristic design very clearly. The ♀ given to the Zoological Museum, Berlin, is much darker		Dönitz (1909: 469), original description. Cited: Robinson (1926: 93).

ORIGINAL DETERMINATIONCURRENT STATUS

than the one sent to me. (He notes that he has tried various ways for bringing out the design in specimens of Amblyomma which have grown dark, but that he has had very irregular results. On the whole, simple immersion in water appears to be best. He asks if we have had better results)

signed G.H.F. Nuttall

N	998	N	998	MISSING
	<u>Ixodes ricinus</u> ♂ ♀ fed in copula			
	Pointer dog			
	Azazea, Algeria			
	13.III.1910			
	G.H.F. Nuttall			
N	999	N	999	
		RML	109911	
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		1 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>	
	Dog		Dog	
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria	
	22.III.1910		22.III.1910	
	Collected by schoolboys		Collected by schoolboys	
N	1000	N	1000	
		RML	109912	
	<u>Rhipicephalus sanguineus</u>		6 ♀ <u>Rhipicephalus sanguineus</u>	
	Dog (hunting)		Dog (hunting)	
	Biskra, Algeria		Biskra, (34.51 N, 05.44 E), Algeria	
	22.III.1910		22.III.1910	
	Collected by schoolboys		Collected by schoolboys	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1001	N	1001
		RML	109913
	<u>Rhipicephalus sanguineus</u>		4 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>
	Dog (hunting)		Dog (hunting)
	Biskra, Algeria		Biskra (43.51 N, 05.44 E), Algeria
	22.III.1910		22.III.1910
	Collected by schoolboys		Collected by schoolboys
N	1002	N	1002 MISSING
	<u>Rhipicephalus sanguineus</u> 1 ♂		
	In native mud hut		
	Old Biskra, Algeria		
	18.III.1910		
	G.H.F. Nuttall		
	Found with bed bugs		
N	1003	N	1003
		RML	109914
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		38 ♂, 15 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog (mongrel)		Dog (mongrel)
	Old Biskra		Biskra (34.51 N, 05.44 E), Algeria
	18.III.1910		18.III.1910
	G.H.F. Nuttall		G.H.F. Nuttall
	Mostly on neck and shoulders		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1004	N	1004 MISSING
	<u>Hyalomma aegyptium</u> 2 ♂'s		
	Camel		
	Biskra, Algeria		
	18.III.1910		
	G.H.F. Nuttall		
	About anus (all that could be found)		
N	1005	N	1005
		RML	109915
	<u>Hyalomma aegyptium</u> 2 ♀'s		2 ♀ <u>Hyalomma dromedarii</u>
	Camel		<u>Camelus dromedarius</u>
	Biskra		Biskra (34.51 N, 05.44 E), Algeria
	20.III.1910		20.III.1910
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)		Collected by schoolboys under direction of S. Muh'd Okbi (teacher)
N	1006	N	1006 MISSING
	<u>Hyalomma aegyptium</u> 1 ♀		
	Camel		
	Biskra, Algeria		
	20.III.1910		
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1007	N	1007	MISSING
	<u>Hyalomma aegyptium</u> ♂ ♀			
	Camel			
	Biskra, Algeria			
	20.III.1910			
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)			
N	1008	N	1008	
		RML	109916	
	<u>Argas persicus</u>		2 ♂, 5 N <u>Argas persicus</u>	
	Found on pine timber		Found on pine timber	
	Biskra, Algeria		Biskra, (34.15 N, 05.44 E) Algeria	
	21.III.1910		21.III.1910	
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)		Collected by schoolboys under direction of S. Muh'd Okbi (teacher)	
N	1009	N	1009	
		RML	109917	
	<u>Argas persicus</u>		2 ♂, 2 ♀, 2 N <u>Argas persicus</u>	
	Fowl		Fowl	
	Biskra, Algeria		Biskra (34.15 N, 05.44 E), Algeria	
	20.III.1910		20.III.1910	
	Collected by schoolboys under direction of S. Muh'd Okbi (teacher)		Collected by schoolboys under direction of S. Muh'd Okbi (teacher)	

Ticks received 16 February 1910 from Dr. A. T. Stanton, Institute for Medical Research, Kuala Lumpur, Federated Malay States:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1010	N	1010
		RML	109918
	<u>Boophilus australis</u> ♂'s, ♀'s		8 ♂, 33♀, 6 N <u>Boophilus microplus</u>
	Siamese & Indian bullocks		Siamese & Indian bullocks
	Various districts of Negri Sembilan		State of Negri Sembilan (02.45 N, 102.10 E), Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
			Ambrose Thomas Stanton (1865-1946) formerly Director of Government Laboratories in Malaya, then Chief Medical Advisor to the Colonial Office. He was in large part responsible for discovering the cause of Beri-Beri. As an entomologist he was interested in the morphology of Anopheline larvae.
N	1011	N	1011
		RML	109919
	<u>Boophilus australis</u> ♂'s, ♀'s (large lot)		28 ♀ <u>Boophilus microplus</u>
	Bullocks		Bullocks
	Just arrived from Siam quarantine station		Quarantine station, Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton

ORIGINAL DETERMINATIONCURRENT STATUS

N	1012	N	1012
		RML	109920
	<u>Boophilus australis</u> 1 ♂		1 ♂ <u>Boophilus microplus</u>
	Dog		Dog
	Negri Sembilan		State of Negri Sembilan (02.45 N, 102.10 E), Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton ex tube 1013		Rec'd from Dr. A. T. Stanton
N	1013	N	1013
		RML	109921
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		16 ♂, 20 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Negri Sembilan		State of Negri Sembilan (02.45 N, 102.10 E), Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
N	1014	N	1014
		RML	109922
	<u>Haemaphysalis wellingtoni</u> 1 ♀		1 ♀ <u>Haemaphysalis wellingtoni</u>
	Domestic fowl		Domestic fowl
	Federal Malay States		Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
			Cited: Nuttall & Warburton (1914: 481).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1015	N	1015
		RML	109923
	<u>Haemaphysalis proxima</u> ♀'s		2 ♀ <u>Haemaphysalis cornigera</u>
	Siamese bullock		Siamese bullock
	Mantin, Negri Sembilan		Mantin (02.49 N, 101.54 E), Negri Sembilan, Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
N	1016	N	1016
		RML	109924
	<u>Amblyomma helvolum</u> 1 ♀, 2 N (♀ mutilated)		1 ♀ <u>Amblyomma helvolum</u>
	Snake (<u>Zamenis korros</u>) according to Wilkinson's Dictionary		<u>Ptyas korros</u>
	Federated Malay States		Kuala Lumpur (03.10 N, 101.42 E), Malaysia
	Rec'd 16.II.1910		Rec'd 16.II.1910
	Rec'd from Dr. A. T. Stanton		Rec'd from Dr. A. T. Stanton
			Collecting locality from Robinson (1926: 219).

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 1017a, b</p> <p>(a) <u>Aponomma gervaisi</u> var. <u>lucasi</u> 2 ♂'s</p> <p>(b) <u>Amblyomma helvolum</u> 4 ♂'s</p> <p><u>Varanus salvator</u></p> <p>Singapore</p> <p>Rec'd 16.II.1910</p> <p>Rec'd from Dr. A. T. Stanton</p> <p>1 ♂ of 1017b sent to C. Strickland, Malaya</p>	<p>N 1017a, b</p> <p>RML 109925</p> <p>(a) 5 ♂ <u>Aponomma varanensis</u></p> <p>(b) 3 ♂ <u>Amblyomma helvolum</u></p> <p><u>Varanus salvator</u></p> <p>Republic of Singapore</p> <p>Rec'd 16.II.1910</p> <p>Rec'd from Dr. A. T. Stanton</p> <p>♂ total of 1017b includes 1 pinned specimen</p> <p>(b) Cited: Robinson (1926: 219).</p>
<p>N 1018</p> <p><u>Amblyomma</u> larvae</p> <p>Rec'd 16.II.1910</p> <p>Rec'd. from Dr. A. T. Stanton</p> <p>Known as "<u>chemperas</u>," common in jungle, said to inflict painful wounds</p>	<p>N 1018 MISSING</p>

Ticks sent 10.II.1910 by Prof. Harald Seidelin, Director de los Laboratorios del Hospital O'Horan, Mérida, Yucatán, Mexico

ORIGINAL DETERMINATION

CURRENT STATUS

N	1019	N	1019
		RML	109926
	<u>Boophilus australis</u> 1♀		1 ♀ <u>Boophilus microplus</u>
	Cow in herd affected with piroplasmosis		Cow in herd affected with piroplasmosis
	Mérida, Yucután, Mexico		Mérida (20.58 N, 89.37 W), Yucután, Mexico
	Sent 10.II.1910		Sent 10.II.1910
	Sent by Prof. H. Seidelin		Sent by Prof. H. Seidelin
			Harald Seidelin (1878-1932). Born in Denmark, went to Mexico in 1904 and worked on yellow fever. Liverpool School of Tropical Medicine 1911-1915. From 1915 until his death worked in the Belgian Congo.
N	1020	N	1020 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s		
	From field in which cattle were to go		
	Mérida, Yucután, Mexico		
	Sent 10.II.1910		
	Sent by Prof. H. Seidelin		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1021	N	1021
		RML	109927
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		2 ♀, 2 N <u>Rhipicephalus sanguineus</u>
	Healthy dog		Healthy dog
	Mérida, Yucután, Mexico		Mérida (20.58 N, 89.37 W), Yucután, Mexico
	Sent 10.II.1910		Sent 10.II.1910
	Sent by Prof. Harald Seidelin		Sent by Prof. Harald Seidelin
N	1022	N	1022
		RML	109928
	<u>Ornithodoros turicata</u>		11 ♂, 8 ♀, 10 N <u>Ornithodoros turicata</u>
	Aguascalientes, Mexico		Aguas Calientes (16.26 N, 95.28 W), Mexico
	Rec'd 8.III.1910		Rec'd 8.III.1910
	Rec'd from Dr. R. Findeisen		Rec'd from Dr. R. Findeisen
	<p>Gathered in a corral where pigs are kept, by a patient who claims that an ugly infiltrated ulcer on his hand was caused by their bites. This is a common story. "Roofs are often covered with earth from the corral back of the house. If this dirt contains the insect or its eggs, sooner or later (in the instance of a trustworthy neighbor, 7 years) the room becomes uninhabitable, the tick falling on the occupants while asleep." Fumigation with sulphur and steam are not able to kill the pest. ---they call it here "turicata" The ticks were rec'd. alive but were left until 22nd when all but 3 were found dead - the rest pickled.</p>		
	2 (sex/stage not stated) to Prof. E. Brumpt, Paris.		
	2 (sex/stage not stated) to Dr. E. Pavlovsky, Leningrad, 9.X.1925.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1023	N	1023
		RML	109929
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N's		7 ♂, 3 ♀, 45 N <u>Rhipicephalus sanguineus</u>
	Dog - ears, body, paws		Dog - ears, body, paws
	Lan or Eastern group of Fijian Islands		Lan or Eastern group of Fijian Islands
	23.II.1910		23.II.1910
	F. P. Jepson at Lomaloma		F. P. Jepson at Lomaloma
			Found in this tick collection were 2 ♀ <u>Ctenocephalides felis felis</u>
N	1024	N	1024
		RML	109930
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		21 ♂, 8 ♀ <u>Hyalomma marginatum</u> 3 ♂ <u>Hyalomma anatolicum excavatum</u>
	Sheep		Sheep
	Hammam-Meskoutine		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	25.IV.1910		25.IV.1910
	P. Deschabert		P. Deschabert
	On 8 of 10 sheep together with 1025 & 1026		
N	1025	N	1025 MISSING
	<u>Boophilus annulatus</u> ♂'s, ♀'s		
	Sheep		
	Hammam-Meskoutine, Algeria		
	25.IV.1910		
	P. Deschabert		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1026	N	1026
		RML	109931
	<u>Rhipicephalus bursa</u> 1 ♂		1 ♂ <u>Rhipicephalus bursa</u>
	Sheep		Sheep
	Hamram-Meskoutine, Algeria		Hamram Meskoutine (36.27 N, 07.16 E), Algeria
	25.IV.1910		25.IV.1910
	P. Deschabert		P. Deschabert
N	1027	N	1027
		RML	66680
	<u>Rhipicephalus coriaceus</u> 18 ♂'s		12 ♂, 5 ♀ <u>Rhipicephalus supertritus</u>
	Eland		<u>Taurotragus oryx</u>
	Mpelele River, Marimba District Nyasaland		Mpelele River (13.07 S, 33.47 E), Malawi
	20.II.1910		20.II.1910
	Dr. Pask		Dr. Pask

ORIGINAL DETERMINATIONCURRENT STATUS

N	1028, a, b	N	1028, a, b
		RML	109932
	(1028) <u>Rhipicephalus simus</u> ♂'s		(1028) 6 ♂ <u>Rhipicephalus simus</u>
	(a) <u>Rhipicephalus lunulatus</u> 5 ♂		(a) 5 ♂ <u>Rhipicephalus lunulatus</u>
	(b) <u>Rhipicephalus falcatus</u> 2 ♂		(b) 2 ♂ <u>Rhipicephalus senegalensis</u>
	Warthog		<u>Phacochoerus aethiopicus</u>
	Mpelele River, Marimba District, Nyasaland		Mpelele River (13.07 S, 33.47 E), Malawi
	20.II.1910		20.II.1910
	Dr. R. Pask		Dr. R. Pask
	(found together with <u>Hyalomma</u> <u>aegyptium</u> , these returned)		

Ticks received from Dr. H. Hearsey, Zomba Nyasaland, sent by him 10.VI.1909 (Numbered 772-776 by mistake in old catalogue, since renumbered).

N	1029	N	1029
		RML	109933
	<u>Dermacentor rhinocerotis</u> 3 ♂'s		2 ♂ <u>Dermacentor rhinocerinus</u>
	Grass and leaves		Grass and leaves
	Deep Bay, Vua Road, North Nyasa		Vua Road, Chĩlumba (10.27 S, 34.16 E), Malawi
	13.V.1909		13.V.1909
	J. B. Davey		J. B. Davey

ORIGINAL DETERMINATIONCURRENT STATUS

N	1030	N	1030 MISSING
	<u>Amblyomma hippopotamensis</u> or n. sp. 3 ♀'s		
	Grass and leaves Deep Bay, Vua Road, North Nyasa		
	13.V.1909		
	J. B. Davey		
N	1031	N	1031
	<u>Amblyomma petersi</u> (? the long lost ♂)	RML	109934
	Grass and leaves		2 ♂ <u>Amblyomma rhinocerotis</u>
	Deep Bay, Vua Road, North Nyasa		Grass and leaves
	13.V.1909		Vua Road, Chilumba (10.27 S, 34.16 E), Malawi
	J. B. Davey		13.V.1909
			J. B. Davey
			Cited: Robinson (1926: 264).
N	1032	N	1032
	<u>Amblyomma petersi</u> 3 ♀'s	RML	109935
	Grass and leaves		1 ♀ <u>Amblyomma rhinocerotis</u>
	Deep Bay, Vua Road, North Nyasa		Grass and leaves
	13.V.1909		Vua Road, Chilumba (10.27 S, 34.16 E), Malawi
	J. B. Davey		13.V.1909
	1 ♀ to Prof. R. Matheson, Cornell 27.V.1929		J. B. Davey
			Cited: Robinson (1926: 264).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1033	N	1033 MISSING
	<u>Boophilus australis</u> ♀'s		
	Sick calf which died 3 days later		
	Zomba, Nyasaland		
	13.V.1909		
	Sent by Dr. H. Hearsey		
N	1034	N	1034 MISSING
	<u>Ixodes ricinus</u> ♂'s, ♀'s		
	No particulars		
	Rec'd 16.X.1901		
	Rec'd from E. G. Wheler		
N	1035	N	1035 MISSING
	<u>Ixodes ricinus</u> 2 ♀'s		
	Collie dog		
	Sligo, Ireland		
	10.V.1905		
	Sent by A. E. F. Nuttall		
	Det. by G.H.F.N.		
N	1036	N	1036 MISSING
	<u>Ixodes ricinus</u> 1 ♀		
	Young rat		
	Longner Hall, Shrewsbury England		
	20.IV.1906		
	R. F. L. Burton		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1037	N	1037	MISSING
	<u>Ixodes ricinus</u> 1 ♀			
	Cat			
	Hants			
	27.III.1906			
	E. C. Burleigh			
	Det. by G.H.F.N.			
N	1038	N	1038	MISSING
	<u>Ixodes ricinus</u> ♀'s			
	Cattle with redwater			
	Ireland			
	Rec'd 26.V.1905			
	Rec'd from Prof. Mettam (Dublin coll.)			
	Det. by G.H.F.N.			
N	1039a-c	N	1039a-c	MISSING
	(a) <u>Ixodes ricinus</u> ♂'s			
	(b) <u>Ixodes ricinus</u> ♀'s			
	(c) <u>Ixodes ricinus</u> ♀'s, N's			
	Sheep (?)			
	Bewsbaugh, Kilder Station, Northumberland			
	Rec'd 3.V.1905			
	Rec'd from J. Kedley			
	2 ♀ to Launcelot Harrison, Australia 9.V.1919.			
	2 ♀ to Prof. M. Jesus Maynar Zaragoza Spain 10.V.1919.			
	2 ♀ to Prof. Poulton, Oxford 26.V.1919.			
	2 ♀ to Prof. E. Hindle, Cambridge 24.IX.1919.			
	2 ♀ to Major Lothian, School of Hygiene, Blackpool 25.IX.1919			

ORIGINAL DETERMINATIONCURRENT STATUS

N	1040	N	1040 MISSING
	<u>Ixodes ricinus</u> 2 ♂'s		
	British origin		
	Rec'd 25.XI.1905		
	Rec'd from S. Stockman		
	1 ♂ to Prof. E. Brumpt, École Médecine, Paris 12.X.1922.		
	1 ♂ to I. C. Ross, University of Sydney, Australia.		
N	1041	N	1041
		RML	109936
	<u>Ixodes ricinus</u> ♂'s, ♀'s		80 L <u>Ixodes ricinus</u>
	Cattle		Cattle
	Tavistock, Co. Devon		Tavistock (50.33 N, 04.09 W), Devon, England
	12.IV.1910		12.IV.1910
	G. H. Gibbings		G. H. Gibbings
	1 ♂, 2 N, L's to Prof. Dr. Dahl Berlin Museum VII.1914.		Cited: Nuttall & Warburton (1911; 154).
	1 ♂, 2 N, L's to Dr. S. Schenkling, Deutsches Entomol. Mus. VII.1914.		
	1 ♂, 2 N, L's to R. Gestro, Museu Civico di Storia Nat. Genova VII.1914.		
	1 ♂ to Dr. E. Rouband, Inst. Pasteur, Paris, 12.X.1922.		
	1 ♂ to Prof. J. Hjort, Univ. Christiana, Norway 12.X.1922.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1042	N	1042	MISSING
	<u>Ixodes ricinus</u> ♀'s			
	Scotland			
	Rec'd. 24.IV.1905			
N	1043	N	1043	MISSING
	<u>Ixodes ricinus</u> N's unfed			
	Rec'd 1903			
	Rec'd from E. G. Wheeler			
N	1044	N	1044	MISSING
	<u>Ixodes canisuga</u> larvae			
	1906			
	E. G. Wheeler			
	ex A. E. Shipley's coll.			
	[2 larvae mounted on balsam on slide]			
N	1045	N	1045	
		RML	109937	
	<u>Ixodes canisuga</u> ♀'s		3 ♀ <u>Ixodes canisuga</u>	
	Rec'd 1903		Rec'd 1903	
	Rec'd from E. G. Wheeler		Rec'd from E. G. Wheeler	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1046	N	1046
		RML	109938
	<u>Ixodes canisuga</u> ♀'s		4 ♀ <u>Ixodes canisuga</u>
	Pragg		Gowanburn, N. Tyne, England
	4.V.1901		4.V.1901
	ex E. G. Wheeler coll.		ex E. G. Wheeler coll.
			Locality information from Nuttall & Warburton (1911: 213).
N	1047	N	1047
		RML	109939
	<u>Ixodes canisuga</u> 1♀		1 ♀ <u>Ixodes canisuga</u>
	1906		1906
	ex Wheeler coll.		ex Wheeler coll.
N	1048	N	1048
		RML	109940
	<u>Haemaphysalis leachi</u> nymphs unfed		9 N <u>Haemaphysalis leachi</u>
	Cape Colony		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
	1 N to Prof. Dr. Dahl, Berlin Museum VII.1914.		
	1 N to Prof. Dr. Schenkling Deutsches Entomol. Mus. VII.1914.		
	1 N to Prof. Dr. Gestro, Museu Civico di Storia Nat. Genova VII.1914.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1049	N	1049
		RML	109941
	<u>Haemaphysalis leachi</u> larvae unfed	21 L	<u>Haemaphysalis leachi</u>
	Cape Colony		Cape Colony, Republic of South Africa
	III.1906		III.1906
	From C. P. Lounsbury		From C. P. Lounsbury
	L's to Prof. Dr. Dahl, Berlin Museum VII.1914.		
	L's to Prof. Dr. Schenkling, Deutsches Entomol. Mus. VII.1914.		
	L's to Prof. Dr. Gestro, Museo Civico de Storia Genova VII.1914.		
N	1050	N	1050 MISSING
	<u>Haemaphysalis leachi</u> ♂, ♀'s		
	Hedgehog		
	Cambridge		
	1906		
N	1051	N	1051
		RML	109942
	<u>Ixodes canisuga</u> 1 ♀ (gorged)	1 ♀	<u>Ixodes canisuga</u>
	Grass		Grass
	Downs, Lizard, England		Downs, Lizard (49.58 N, 05.13 W) England
	IX.1909		IX.1909
	Dr. L. Cobbett		Dr. L. Cobbett

ORIGINAL DETERMINATIONCURRENT STATUS

N	1052 a-c	N	1052 b, c
		RML	109943
	(a) <u>Hyalomma aegyptium</u> ♂, ♀'s		(a) MISSING
	(b) <u>Rhipicephalus bursa</u> 1♀		(b) 1 ♀ <u>Rhipicephalus bursa</u>
	(c) <u>Boophilus annulatus</u> ♀'s		(c) 33 ♀ <u>Boophilus annulatus</u>
	Sheep		Sheep
	Hamam-Meskoutine, Algeria		Hamam Meskoutine (36.27 N, 07.16 E), Algeria
	Rec'd 6.V.1910		Rec'd 6.V.1910
	From M. Paul Deschabert		From M. Paul Deschabert
	With <u>Melophagus ovinus</u> and 1 hippoboscid fly		
N	1053 a-d	N	1053 b, c
		RML	109944
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) MISSING
	(b) <u>Rhipicephalus bursa</u> 2 ♂, 1 ♀		(b) 2 ♂, 1 ♀ <u>Rhipicephalus bursa</u>
	(c) <u>Boophilus annulatus</u> ♀'s		(c) 8 ♀ <u>Boophilus annulatus</u>
	(d) <u>Ixodes ricinus</u> 2 ♀'s		(d) MISSING
	Sheep		Sheep
	Hamam-Meskoutine, Algeria		Hamam Meskoutine (36.27 N, 07.16 E), Algeria
	Rec'd 8.V.1910		Rec'd 8.V.1910
	Rec'd from M. Paul Deschabert		Rec'd from M. Paul Deschabert

ORIGINAL DETERMINATIONCURRENT STATUS

N	1054	N	1054 MISSING
	<u>Ixodes ricinus</u> 1♂		
	Sheep		
	Glenginert, Ardentinny Argyllshire, Scotland		
	Rec'd 5.V.1910		
	Rec'd from Capt. Leschallus through G. Merriman		
N	1055	N	1055
		RML	109945
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s N's and N's skins		102 ♂, 5 ♀ <u>Rhipicephalus evertsi</u>
	Cow with East Coast Fever		Cow with East Coast Fever
	Cape Colony		Cape Colony, Republic of South Africa
	18.XI.1908		18.XI.1908
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
	Died in laboratory unfed. Rest used for infecting cows I & II, see Parasitol. vols. II & III.		
	1 ♂, 1 ♀ to Dr. J. H. Ashworth 22.VI.1910.		

Ticks sent by Dr. A. T. Stanton of the Medical Research Institute, Kuala Lumpur, Federated Malay States 31.III.1910.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1056a, b	N	1056 b
		RML	109946
	(a) <u>Amblyomma testudinarium</u> 1♀		(a) MISSING
	(b) <u>Dermacentor auratus</u> var. <u>compactus</u> 1 ♂		(b) 1 ♀ <u>Dermacentor</u> sp.
	Vegetation in jungle		Vegetation in jungle
	Negeri Sembilan, Fed. Malay States		State of Negri Sembilan (02.45 N, 102.10 E), Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton
	Sent back 1056a		
N	1057a, b	N	1057a, b
		RML	109947
	(a) <u>Haemaphysalis wellingtoni</u> ♂'s		(a) 2 ♂ <u>Haemaphysalis wellingtoni</u>
	(b) <u>Haemaphysalis wellingtoni</u> 2 N, many L		(b) 2 N, 20 L <u>Haemaphysalis wellingtoni</u>
	Domestic fowl		Domestic fowl
	Selangor, F.M.S.		Kuala Selangor (03.21 N, 101.15 E), Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton
	Sent back 2 ♂ & some larvae 1057a & b [3 larvae mounted in balsam on a slide]		Slide missing Nuttall & Warburton (1915: 481), indicated 25 larvae in this collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1058	N	1058
		RML	109948
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, L's, eggs		8 ♀, many L & eggs <u>Rhipicephalus</u> <u>sanguineus</u>
	Dog		Dog
	Selangor, Fed. Malay States		Kuala Selangor (03.21 N, 101.15 E), Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton
	Sent back 1 ♂, 1 ♀, eggs & larvae of 1058		
N	1059	N	1059
		RML	109949
	<u>Boophilus australis</u> 3 ♀, L's, eggs		3 ♀, 27 L, many eggs <u>Boophilus</u> <u>microplus</u>
	Cattle		Cattle
	Selangor, Fed. Malay States		Kuala Selangor (03.21 N, 101.15 E), Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1060 a-c	N	1060 a-c
		RML	109950
	(a) <u>Rhipicephalus haemaphysaloides</u> ♂'s		(a) 2 ♂, 1 ♀ <u>Rhipicephalus haemaphysaloides</u>
	(b) <u>Haemaphysalis hystrixis</u> ♂'s		(b) 1 ♂ <u>Haemaphysalis bispinosa</u>
	(c) <u>Haemaphysalis koningsbergeri</u> 1♂		(b) 3 ♂ <u>Haemaphysalis semermis</u>
			(c) 1 ♂ <u>Haemaphysalis koningsbergeri</u>
	Tiger		<u>Panthera tigris</u>
	Pahang, Fed. Malay States		Kuala Pahang (03.32 N, 103.28 E), Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton
	Sent back 3 ♂ (1060a)		(b) Cited: Hoogstraal (1965b: 435).
	Sent back 2 ♂, 1 ♀ (1060b)		(c) Cited: Nuttall & Warburton (1915: 475).
N	1061	N	1061
		RML	109951
	<u>Boophilus australis</u> ♀'s, ♂'s		38 ♂, 36 ♀, 5 N <u>Boophilus microplus</u>
	Australian calf suffering from "piroplasmosis" (bacilliform)		Australian calf suffering from "piroplasmosis" (bacilliform)
	Federated Malay States		Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton
	v. Dr. Symonds letter Sent back 3 ♂, 3 ♀ (1061). Some (sex/stage not stated) to Dr. Longin Navas, Zaragoza, Spain 28.V.1913. 1 ♂, 1 ♀ to Richard Hancock, England 16.VI.1918. 1 ♂, 1 ♀ to Dr. Lajos Gozony University of Budapest, Hungary 23.VI.1914.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1062	N	1062
		RML	109952
	<u>Dermacentor auratus</u> var, <u>compactus</u> 1 ♂		2 ♂, 1 ♀ <u>Dermacentor</u> sp.
	Wild pig		Wild pig
	Pahang, F.M.S.		Kuala Pahang (03.32 N, 103.28 E), Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton
	(with 3 lice, <u>Haematopinus</u> sp.)		
N	1063	N	1063
		RML	109953
	<u>Amblyomma sublaeve</u> ♂'s		8 ♂ <u>Amblyomma javanense</u>
	Scaly anteater (<u>Manis javanica</u>)		<u>Manis javanica</u>
	Negui Sembilan, Fed. Malay St.		State of Negri Sembilan (02.45 N, 102.10 E), Malaysia
	Sent 31.III.1910		Sent 31.III.1910
	Sent by Dr. A. T. Stanton		Sent by Dr. A. T. Stanton
	Sent back 2 ♀'s (1063)		Cited: Robinson (1926: 247).

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1064	N	1064
	<u>Dermacentor venustus</u> 1 ♂		1 ♂ <u>Dermacentor andersoni</u>
	Kasle, British Columbia		Kaslo, (49.55 N, 116.55 W), British Columbia, Canada
	5. IV. 1908		5. IV. 1908
	J. W. Cockle		J. W. Cockle
	Sent 30. XI. 1909 by C. Gordon Hewitt, Dominion Entomologist, Central Experimental Farm, Ottawa, Canada, with another ♂ & ♀ (returned with the following specimens): <u>Ixodes ricinus</u> ♀ (1) off man, Vancouver, B.C., 1907, Dr. G. W. Boggs. <u>Ixodes scapularis</u> 1 ♀ off man, 14. VIII. 1906 ("caused great irritation and an ugly looking red spot for some weeks.") No. 62477. <u>Ixodes scapularis</u> 1 ♀ off ? Bracebridge, Ontario, 18. VI. 1904 M. Mahafy. <u>Ixodes cookei</u> 1 ♀ off dog Calabogie, Ontario, 22. V. 1908 Dr. R. M. Reid. <u>Ixodes angustus</u> 1 ♀ off mouse Jeffrey, N. B., 12. X. 1908 C. H. McNutt. <u>Dermacentori variabilis</u> 1 ♀ off man, Winnipeg, 10. VI. 1901 Rev. W. A. Burnan. <u>Dermacentor variabilis</u> 1 ♀ off man Winkler, 27. VII. Dr. L. B. Scott.		Charles Gordon Hewitt (1885-1920), Attended University of Manchester, did pioneer studies in the life history of houseflies in England the subject of his doctoral thesis before becoming Dominion Entomologist of Canada.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1065	N	1065
		RML	109955
	<u>Ixodes angustus</u> 1 ♂		1 ♂ <u>Ixodes angustus</u>
	<u>Sciurus hudsonicus douglasi</u>		<u>Tamiasciurus douglasi</u>
	Mt. Lehman, Brit. Columbia		Mt. Lehman, British Columbia, Canada (locality not verified).
	31.III.1910		31.III.1910
	S. Hadwen		S. Hadwen
			Cited: Nuttall & Warburton (1911: 197).
N	1066	N	1066
		RML	109956
	<u>Ixodes texanus</u> var. 5 ♀		5 ♀ <u>Ixodes</u> sp.
	Origin unknown		Origin unknown
	[R 245]		These ticks are not <u>Ixodes texanus</u> or <u>I. hearlei</u>
N	1067	N	1067
		RML	109957
	<u>Ixodes hexagonus</u> 1 ♀		1 ♀ <u>Ixodes hexagonus</u>
	Fox		<u>Vulpes vulpes</u>
	Boxworth, Hants		Boxworth (56.16 N, 00.02 W), England
	22.I.1898		22.I.1898
	[R 200] (very dark legs, etc., scutum corrugated in the lateral fields, G.H.F.N.)		Cited: Nuttall & Warburton (1911: 182).

ORIGINAL DETERMINATIONCURRENT STATUS

N	<p>1068</p> <p><u>Ixodes canisuga</u> 6 ♂, 6 ♀</p> <p>Nest of <u>Cotile riparia</u></p> <p>Lyndhurst</p> <p>11.VII.1900</p> <p>[R 190] G.H.F.N. det. V.1910 (♀'s unfed)</p>	N	<p>1068</p> <p>RML 109958</p> <p>4 ♂, 4 ♀ <u>Ixodes lividus</u></p> <p>Nest of <u>Riparia riparia</u></p> <p>Lyndhurst (50.52 N, 01.34 W), England</p> <p>11.VII.1900</p> <p>Cited: Nuttall & Warburton (1911: 214); Arthur (1963: 92) indicated 6 ♂, 6 ♀ were present; Thompson (1967: 106).</p>
N	<p>1069</p> <p><u>Ixodes tenuirostris</u></p> <p><u>Arvicola arvalis</u></p> <p>Campfer</p> <p>11.VII.1904</p> <p>Dr. K. Jordan</p> <p>♂ & ♀ in copula (aberrant, hypostome not in vulva), 1 ♀ gorged, 3 N gorged [R 146]</p>	N	<p>1069</p> <p>RML 109959</p> <p>1 ♂, 2 ♀, 3 N <u>Ixodes trianguliceps</u></p> <p><u>Microtus arvalis</u></p> <p>Campfer (46.28 N, 09.48 E), Switzerland</p> <p>11.VII.1904</p> <p>Dr. K. Jordan</p> <p>Cited: Nuttall & Warburton (1911: 248).</p> <p>Heinrich Ernst Karl Jordan (1861-1959) came to England in 1893. A world authority on fleas but also published extensively on <u>Lepidoptera</u> and <u>Coleoptera</u> especially <u>Anthribidae</u>.</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	1070a, b	N	1070a, b
		RML	109960
	(a) <u>Haemaphysalis hystricis</u> 2 ♀		1 ♀ <u>Haemaphysalis longicornis</u>
	(b) <u>Boophilus australis</u> 1 ♂, ♀'s		2 ♂, 1 ♀ <u>Boophilus microplus</u>
	Some taken from Sambhur <u>Cervus</u> probably <u>C. aristotelis</u> others from bullocks		Some taken from Sambhur, <u>Cervus</u> probably <u>C. unicolor</u> others from bullocks
	Kelantan, Federated Malay States		State of Kelantan (05.20 N, 102.00 E), Malaysia
	Rec'd 21.V.1910		Rec'd 21.V.1910
	Rec'd from J. H. Ashworth, Zool. Dept. Edinburgh		Rec'd from J. H. Ashworth, Zool. Dept. Edinburgh
			(a) Cited: Nuttall & Warburton (1915: 425).
	Ticks received 23.V.1910 from Dr. W. H. Marshall, Assistant M. O., Rangoon.		
N	1071 a-c	N	1071 a, b
		RML	109961
	(a) <u>Boophilus australis</u> ♀'s		(a) 5 ♀, 1 N <u>Boophilus microplus</u>
	(b) <u>Haemaphysalis bispinosa</u> 4 ♂, 1 ♀		(b) 4 ♂, 1 ♀ <u>Haemaphysalis bispinosa</u>
	(c) <u>Hyalomma aegyptium</u> 1 ♀		(c) MISSING
	Cow		Cow
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	6.I.1910		6.I.1910
	Rec'd from Dr. W. H. Marshall		Rec'd from Dr. W. H. Marshall
			Cited: Nuttall & Warburton (1915: 432).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1072	N	1072
		RML	109962
	<u>Rhipicephalus sanguineus</u> ♂, ♀'s		1 ♂, 7 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	Rec'd 23.V.1910		Rec'd 23.V.1910
	Rec'd from Dr. W. H. Marshall		Rec'd from Dr. W. H. Marshall
N	1073	N	1073
		RML	109963
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		8 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	5.I.1910		5.I.1910
	Rec'd from Dr. W. H. Marshall		Rec'd from Dr. W. H. Marshall
N	1074	N	1074
		RML	109964
	<u>Aponomma laeve</u> var <u>paradoxa</u> 8 ♂		7 ♂ <u>Aponomma pattoni</u>
	Cobra		<u>Naja naja</u> or <u>Ophiophagus hannah</u>
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	15.II.1910		15.II.1910
	Rec'd from Dr. W. H. Marshall		Rec'd from Dr. W. H. Marshall
			Note in vial, "No ♀♀ G.H.F.N. 2.III.33"

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1075	N	1075
		RML	109965
	<u>Haemaphysalis concinna</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Haemaphysalis concinna</u>
	France		France
	Presented V.1910		Presented V.1910
	Presented by Prof. L. G. Neumann (Toulouse)		Presented by Prof. L. G. Neumann (Toulouse)
	ex Neumann coll. (No. 993)		Cited & figured: Nuttall & Warburton (1915: 453).
N	1076	N	1076 MISSING
	<u>Ornithodoros moubata</u> 2		
	Rec'd 1905		
	Rec'd from Dr. G. C. Low Lond. Sch. Trop. Med.		
	No history except "native name "N kufu"		
N	1077	N	1077 MISSING
	<u>Ornithodoros moubata</u> eggs, nymphs, skin		
	Rec'd 1906		
	Rec'd from Dr. Breinl, Liverpool Sch. Trop. Med.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1078

N 1078

Dermacentor reticulatus 3 ♀'s

RML 109966

3 ♀ Dermacentor niveus

Sheep

Sheep

Surnabad, Transcaucasia

Zurnabad (40.30 N, 46.15 E),
Azerbaijan SSR, USSR.

25.III.1904 and 22.V.1907

25.III.1904

ex Dschunkowsky coll.
(No's. 44 and 39)

ex. Dschunkowsky coll. (No's. 44 & 39)

Only one date on vial label.

Ticks received 23.V.1910 from L. E. Robinson ex W. F. Cooper collection to be determined and returned. Notes thereon: (with his numbers bracketed).

Ixodes

Ixodes ricinus 2 ♀'s off Ferret, Canterbury, Kent (363)

" " ♀'s off sheep, Hawick, N.B. North Britain [Scotland]
22.VI.1906 C. Grieve coll. (246)

" " ♂, ♀'s off ? Roscommon, Ireland VIII.1906 coll. ? (244)

" " ♀ ox Maison Carree, Algeria 10.II.1908 coll. ? (364)

" " L ex E. G. Wheler coll., 1905 Alnwick, Northumberland,
England (248)

Ixodes hexagonus 1 ♀ off wild boar, Algeria, S. Williamson (365)

" " ♀'s off ferret, Canterbury IV.1908, Spanton Coll. (245)

Ixodes canisuga ♀'s off dogs, Stanhope, Durham, England 25.IX.1905
D. Robertson (Keeper) coll. (242)

" " 3 ♂, 2 ♀, Alnwick Northumberland, E. G. Wheler coll.
1905, no number but one by W.F.C. in 1909 and now
returned except for 1 ♂

Ixodes pilosus 2 ♀ off duiker bok, Gonubie Park, S. Africa, 11.XII.190?
(183)

Ixodes holocyclus 4 ♀ off ?, Lismore, Tweedline, Queensland, Australia
14.X.1907, S. R. Scott coll. (252)

" " 1 ♂, 1 ♂ & ♀, 5 ♀'s off ?, Dept. Agric., Brisbane
Queensland, Australia VI.1906, H. Tryon coll. (253)

Ixodes loricatus 1 ♂ off ?, Estancia Cooper, Paraguay VI.1906, Foster
coll. (249)

Ixodes rubicundus 2 ♂, 3 ♀ & ♀, 18 ♀ off goats, Albert District, S. Africa
1905, H.E.F. coll. ? (250)

ORIGINAL DETERMINATIONCURRENT STATUS

N	1079	N	1079
		RML	109967
	<u>Ixodes canisuga</u> 2 ♂		1 ♂ <u>Ixodes canisuga</u>
	Alnwick, Northumberland		Alnwick (55.24 N, 01.42 W), England
	ex E. G. Wheeler coll, 1905		ex E. G. Wheeler coll, 1905
	ex W. F. Cooper coll, 1910		ex W. F. Cooper coll, 1910
	(one mounted on two slides, figured by G.H.F.N.)		Slides missing
N	1080	N	1080
		RML	22287
	<u>Ixodes holocyclus</u> 1 ♀ heavily gorged		1 ♀ <u>Ixodes holocyclus</u>
	Lismore, Tweedline, Queensland, Australia		Lismore (28.48 S, 153.17 E), Tweedline, Queensland, Australia
	14.X.1907		14.X.1907
	S. R. Scott		S. R. Scott
	(ex Cooper coll 252 v. <u>supra</u>)		Cited: Nuttall & Warburton (1911: 238) but without Nuttall number.
N	1081	N	1081
		RML	109968
	<u>Ixodes holocyclus</u> 1 ♂, 1 ♀		1 ♂, -1 ♀ <u>Ixodes holocyclus</u>
	Dept. Agric., Brisbane, Queensland, Australia		Department of Agriculture, Brisbane (27.28 S, 153.02 E), Queensland, Australia
	VI.1906		VI.1906
	H. Tryon		H. Tryon
	(ex Cooper coll 253 v. <u>supra</u>)		Cited: Nuttall & Warburton (1911: 238) but without Nuttall number.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1082	N	1082
		RML	109969
	<u>Ixodes rubicundus</u>		2 ♂, 4 ♀ <u>Ixodes rubicundus</u>
	Goats		Goats
	Albert District, S. Africa		Albert District (30.55 S, 26.20 E), Republic of South Africa
	1905		1905
	H.E.F.		H.E.F.
	(ex Cooper coll (250 v <u>supra</u>))		Cited: Nuttall & Warburton (1911: 207) but without Nuttall number.
N	1083	N	1083 MISSING
	<u>Argas persicus</u> mostly N's		
	Cape Colony		
	1909		
	Died in laboratory		

Ticks received from the Indian Museum 1910, sent to E. A. Shipley and determined by C. Warburton IV-V.1910.

		5950
<u>Ambly. testudinarium</u>	1 ♂, Sikkim	10
	♂s ♀s, Sibsagar, Assam	8601-8602
		9
<u>Aponomma gervaisi</u>	adults, off <u>Varanus lunatus</u> (= <u>V. bengalensis</u>), Agra, U. Pr.	5953 10
" "	adults, off <u>Varanus bengalensis</u> , Karachi, Sind, ex No. 4667	5982 10
" "	adults, off <u>Varanus nebulosus</u> , Agra, U. Pr. ex. No. 2113	5984 10
" "	adults, off <u>Varanus bengalensis</u> , Agra, U. Pr. ex. No. 2110	5984 10
" "	1 ♂ (see <u>Ap. decorosum</u>), nymphs off <u>Naia tripundians</u> , Zool. Gardens, Calcutta	5967 10
<u>Aponomma decorosum</u>	adults off <u>Varanus salvator</u> , Brisbane, Queensland Australia as Nos. 11914 and 11916 with 1 ♂ <u>Apon. gervaisi</u>	5988 10
<u>Argas persicus</u>	found in a book, Ind. Mus. Library, Calcutta	5946 10
<u>Argas vespertilionis</u>	nymph, Belgaum, Bombay	416 1
<u>Dermacentor rhinocerotis</u>	2 ♂ off <u>Rhinoceros</u> , Ketloa, Anseba Valley, Abyssinia	5949 10
<u>Haemaphysalis bispinosa</u>	1 ♂ off dog, Berhampur, 5.I.1910	6001 10
" "	2 ♀ off <u>Felis tigris</u> , Burdwar, Nepal, Terai, (found with <u>H. leachi</u>)	6003-6001 10 8
" "	adults, off dog, Bhogaon, Purneah District, N. Bengal	6000 10
" "	♀ off <u>Macacus sinicus</u> , Maddathory, W. base of W. Ghats, Travancore	5947 10
<u>Haemaphysalis flava</u>	1 ♂ off sheep, Hillside below Phagu, (7000 feet) Simba hills, W. Himalayas	5998 10
" <u>hystricis</u>	5 ♀ off <u>Geomyda spinosa</u> ? Burma, India (with <u>Ambly. n.sp.</u>)	19 1
" "	1 ♀ off ? Sibsagar, Assam	5940 10

<u>Haemaphysalis leachi</u> var <u>australis</u> Nn (see No. 1110 our coll.)		
	1 ♀ off <u>Felis tigris</u> , Burdwar Nepal	6063
	Terai found with <u>H. bispinosa</u>	10
"	<u>wellingtoni</u> ♀ off ? Andamans	5951
		10
<u>Hyalomma aegyptium</u>	1 ♀ off <u>Cervus affinis</u> , Kota Nepal	5932
		10
	3 ♂ off <u>Erinaceus megalotis</u> , Afghanistan	5970
		10
	2 ♂ off <u>Euprepes</u> sp (= <u>Mabuia</u>), Karachi, Sind, W. India (found with <u>Ambly. sublaeve</u>)	5948
		10
	1 N off <u>Erinaceus jerdoni</u> , Rajanpur N.W. Punjab (found with <u>Rh. sanguineus</u>)	5977
		10
	N's off <u>Erinaceus pictus</u> , Karachi Sind, W. India	5968
		10
	1 N off <u>Erinaceus grayi</u> (= <u>E. collaris</u>), Rohri, Sind	5975
		10
<u>Hyalomma syriacum</u>	3 ♀s off land tortoise, Quetta, Baluchistan	5946
		10
<u>Rhipicephalus sanguineus</u>	♂, Ns, off <u>Erinaceus grayi</u> (= <u>E. collaris</u>) Kotri, Sind	5971
		10
	1 ♂ off <u>Erinaceus micropus</u> , Coimbatore S. India (ex No. 212c)	5969
		10
	♂s off <u>Erinaceus pictus</u> , Alwar, Karachi, Sind or Gunah Central India	5973
		10
	Adults & N's off <u>Erinaceus grayi</u> (= <u>E. collaris</u>), Karachi, Sind	5976
		10
	♂s ♀s Ns off <u>Erinaceus pictus</u> , Karachi, Sind	5972
		10
	♂ ♀ off <u>Canis aureus</u> (albino) Zool. Gardens, Calcutta	5965
		10
	1 ♀ off ?, Katmandu Nepal	8603
		9
	2 ♂ off <u>Erinaceus jerdoni</u> , Rajanpur, N.W. Punjab	5977
		10
	1 ♀ off dog, Berhampur, Murshidabad District, Bengal (fd. with <u>H. bispinosa</u>)	6001
		10

<u>Rhipicephalus sanguineus</u>	1 ♂ off dog, Bhogaon, Purnea District N. Bengal (fd. with <u>H. bispinosa</u>)	<u>6000</u> 10
<u>Rhipicephalus haemaphysaloides</u>	1 ♀ off <u>Felis marmorata</u> , Zool. Gardens, Calcutta 2.XII.1909	<u>5964</u> 10

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1084	N	1084
		RML	109970
	<u>Amblyomma testudinarium</u> 6 ♀		1 ♂, 1 ♀ <u>Amblyomma testudinarium</u>
	<u>Felis tigris</u>		<u>Panthera tigris</u>
	Sibsagar, Assam		Sibsagar (26.59 N, 94.38 E), India
	S. E. Peal		S. E. Peal
	2 ♀ kept by us		
	1 ♀ to Prof. R. Matheson, Cornell, 27.V.1929		
	1 ♂ to C. Strickland, Malaya		
	Indian Museum No. <u>5941</u> 10		
	<u>Amblyomma decoratum</u> 1 ♀ (hitherto unknown) off <u>Geomyda grandis</u> , Zool Gardens Calcutta <u>346</u> 1		
	<u>Argas reflexus indicus</u> 1 found in a book at Entomological Room, Indian Museum, Calcutta 15.111.1910 <u>6267</u> 10		
	" " " 1 found on wall of Museum Building, Calcutta 16.111.1910 <u>6269</u> 10		
	" " " I found in box sent from Indian Museum Calcutta to Kurseong, E. Himalayas (4700 ft) 25.111.1910 <u>6326</u> (birds building in roof of Museum. <u>Passer</u> 10 <u>domesticus</u> & <u>Cypelus affinis</u>)		
	<u>Haemaphysalis bispinosa</u> 1 ♀ off grass, Lake Chilka, N.E. Madras, III.1910, Annandale coll. <u>6227</u> 10		
	" " " adults off <u>Felis tigris</u> , Motilal, Garthual District, United Provinces of Rega and Udah, 5.111.1910, R. Hadgart coll. <u>6268</u> 10		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1085

N 1085

Haemaphysalis leachi

♂'s, ♀'s, N's, L's

RML 109971

1 ♂, 6 N, 3 L Haemaphysalis sp.Canis aureusCanis aureus

Museum Compound, Calcutta

Museum Compound, Calcutta
(26.32 N, 88.22 E), India

10 ♂, 5 ♀, 3 L kept by us

1 ♂, 1 ♀ to Dr. de Blicck, Java,
22.I.1915The ♂ is in a jar marked "Tick
Abnormalities." The ♂ is figured
in Nuttall (1914a: 252, fig. 3).Indian Museum No. $\frac{5994}{10}$ $\frac{5995}{10}$ Cited: Nuttall & Warburton
(1915: 475).

<u>Hyalomma aegyptium</u>	3 ♀ off ? Sestan, Persia	<u>5934</u> 10
<u>Rhipicephalus haemaphysaloides</u>	1 ♂ off ? Basanti Forest Station, 24 Pergumas Sunderbunds 16.XI.1909 T. Jenkins	<u>5952</u> 10
<u>Aponomma gervaisi</u> var. <u>lucasi</u>	♂, ♀s off <u>Varanus salvator</u> , Cantor, Assam, ex. 469	<u>5986</u> 10
	♂ ♀s off <u>Varanus salvator</u> , Rungpur E Bengal, ex. 2126	<u>5985</u> 10
	♂ ♀s off <u>Varanus salvator</u> , Narcondam, Bay of Bengal	<u>5990</u> 10
	1 ♀ off <u>Var. nebulosus</u> , Moulmein L. Burma, ex. 2114	<u>5983</u> 10
	♂ ♀s off <u>Bos. frontalis</u> (can't be GHFN) Z. Gardens, Calcutta 2.XII.1909	<u>5963</u> 10
	♂ ♀s off <u>Ovis nahura</u> (can't be GHFN) Z. Gardens, Calcutta 2.XII.1909	<u>5963</u> 10
	♂ ♀s off <u>Var. salvator</u> , locality ?	<u>5989</u> 10
	♂s ♀s off <u>Naia bungarus</u> , Zool. Gardens, Calcutta, 2.XII.1909	<u>5966</u> 10
	♂ ♀s off <u>Naia tripudians</u> , Zool. Gardens, Alipore, Calcutta 5.II.1910	<u>6223</u> 10
	♂ ♀s off <u>Naia bungarus</u> , Zool. Gardens, Alipore, Calcutta 5.II.1910	<u>6222</u> 10
	♂s ♀s off <u>Vipera russelli</u> , Zool. Gardens, Alipore, Calcutta	<u>6220</u> 10
	♂ ♀s off <u>Python</u> sp. Zool. Gardens Alipore, Calcutta 5.II.1910	<u>6221</u> 10
	♂ ♀s off <u>Varanus bengalensis</u> , Kachha, Naini Tal District, United Prov. of Agra & Oudh	<u>6224</u> 8

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1086a, b	N	1086a, b
		RML	109972
	(a) <u>Haemaphysalis bispinosa</u> ♂'s		(a) 1 ♂ <u>Haemaphysalis bispinosa</u>
	(b) <u>Haemaphysalis bispinosa</u> ♀'s		(b) 6 ♀ <u>Haemaphysalis bispinosa</u>
	Chosen as typical from various E. Indian lots in our collection by C. Warburton, 27.V.1910.		
	2 ♀, 2 N to C. Strickland Malaya		
	Ticks received back from the Entomol. Committee C.O. 1.VI.1910. All collected by Dr. J. B. Davey, N. Nyasaland (See Report 8, p. 107-108 Ent.Cttee.)		
N	1087	N	1087
		RML	109973
	<u>Dermacentor rhinocerotis</u> 2 ♂		2 ♂ <u>Dermacentor rhinocerinus</u>
	Rhinoceros		<u>Diceros</u> sp.
	Near Deer Bay (sic.) N.N.		Vua Road, Chilumba (10.27 S, 34.16 E), Malawi
	2.XI.1909		2.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
N	1088	N	1088
		RML	109974
	<u>Amblyomma marmoreum</u> 4 ♂, 1 ♀		2 ♂, 1 ♀ <u>Amblyomma sparsum</u>
	Rhinoceros		<u>Diceros</u> sp.
	Near Deer Bay (sic.) N.N.		Near Chilumba (10.27 S, 34.16 E), Malawi
	2.XI.1909		2.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
	1 ♂ to Dr. E. Pavlovsky, Leningrad 9.X.1925		Cited: Theiler & Salisbury (1959: 113).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1089	N	1089
	<u>Amblyomma petersi</u> 4 ♂, 1 ♀	RML	109975
	Rhinoceros		4 ♂, 1 ♀ <u>Amblyomma rhinocerotis</u>
	Near Deer Bay (sic.) N.N.		<u>Diceros</u> sp.
	2.XI.1909		Near Chilumba (10.27 S, 34.16 E), Malawi
	Dr. J. B. Davey		2.XI.1909
			Dr. J. B. Davey
			Cited: Robinson (1926: 264).
N	1090	N	1090
	<u>Boophilus australis</u> 5 ♂, 5 ♀	RML	109976
	Cattle		4 ♂, 5 ♀ <u>Boophilus microplus</u>
	Mwenetete Village, N. Rukuru River, N.N.		Cattle
	16.VI.1909		Mwenetete Village, North Rukuru River (09.53 S, 33.56 E), Malawi
	Dr. J. B. Davey		16.VI.1909
	(varietal forms, spines & no spines)		Dr. J. B. Davey
N	1091	N	1091
	<u>Rhipicephalus supertritus</u> 1 ♂	RML	109977
	Bull eland		1 ♂ <u>Rhipicephalus supertritus</u>
	Lufira River, N.N.		<u>Taurotragus oryx</u>
	22.VI.1909		Lufilya River (09.50 S, 33.35 E), Malawi
	Dr. J. B. Davey		22.VI.1909
			Dr. J. B. Davey

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1092	N	1092
		RML	109978
	<u>Rhipicephalus capensis</u> 4 ♂		3 ♀ <u>Rhipicephalus compositus</u>
	Buffalo		<u>Syncerus caffer</u>
	Henga Valley, N.N.		Henga Valley, Malawi (locality not verified)
	3.XII.1909		3.XII.1909
	Dr. J. B. Davey		Dr. J. B. Davey
N	1093	N	1093
		RML	109979
	<u>Haemaphysalis hoodi</u> 1 ♂ 2 ♀		1 ♂, 2 ♀ <u>Haemaphysalis hoodi</u>
	Partridges ears		Partridges ears
	Nyungwi Stream, N.N.		Nyungwi Stream (13.42 S, 34.35 E), Malawi
	26.XI.1909		26.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
			Cited: Nuttall & Warburton (1915: 486).
N	1094	N	1094
		RML	109980
	<u>Rhipicephalus supertritus</u> 1 ♂ (typical) 3 ♂ (typic.?)		3 ♂, 1 ♀ <u>Rhipicephalus supertritus</u>
	Eland		<u>Taurotragus oryx</u>
	Near Fort Hill, Nyami V., N.N.		Near Chitipa (09.43 S, 33.16 E), Malawi
	16.XI.1909		16.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1095	N	1095
		RML	109981
	<u>Amblyomma marmoreum</u> 1 ♂		1 ♂ <u>Amblyomma sparsum</u>
	Monitor		<u>Varanus</u> sp.
	Wovwi R., N.N.		Wovwe River (10.17 S, 34.10 E), Malawi
	5.XI.1909		5.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
			Cited: Theiler & Salisbury (1959: 113).
N	1096	N	1096
		RML	109982
	<u>Aponomma exornatum</u> 3 ♂, 3 ♀, 3 N		3 ♂, 1 ♀, 2 N <u>Aponomma exornatum</u>
	Monitor		<u>Varanus</u> sp.
	Wovwi R., N. N.		Wovwe River (10.17 S, 34.10 E), Malawi
	5.XI.1909		5.XI.1909
	Dr. J. B. Davey		Dr. J. B. Davey
N	1097	N	1097
		RML	109983
	<u>Dermacentor rhinocerotis</u> 3 ♂, 2 ♀		2 ♂, 1 ♀ <u>Dermacentor rhinocerinus</u>
	Off grass & leaves		Off grass & leaves
	Deep Bay, Vua Road, N.N.		Vua Road, Chilumba (10.27 S, 34.16 E), Malawi
	14.....1909		14.....1909
	Dr. J. B. Davey		Dr. J. B. Davey
	1 ♂ to Dr. J. H. Ashworth, Edinburgh, 22.VI.1910		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1098	N	1098
		RML	109984
	<u>Amblyomma petersi</u> 3 ♂, 4 ♀		2 ♂, 3 ♀ <u>Amblyomma rhinocerotis</u>
	Off grass & leaves		Off grass & leaves
	Deep Bay, Vua Road, N.N.		Vua Road, Chilumba (10.27 S, 34.16 E), Malawi
	14....1909		14....1909
	Dr. J. B. Davey		Dr. J. B. Davey
			Cited: Robinson (1926: 264) who indicated the collection month as May.
N	1099a, b	N	1099, a, b
		RML	109985
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(1099) 10 ♂ <u>Rhipicephalus</u> sp. (Pinned)
			(a) 14 ♂ <u>Rhipicephalus simus</u>
	(b) <u>Rhipicephalus simus</u> ♂'s, ♀'s		(a) 60 ♂, 44 ♀ <u>Rhipicephalus senegalensis</u>
			(b) 51 ♂, 21 ♀ <u>Rhipicephalus simus</u>
			(b) 4 ♂ <u>Rhipicephalus longus</u>
	Warthog		<u>Phacochaerus aethiopicus</u>
	Chitipa V., Dowa District, Lake Shore, N. Nyasaland		Chitipa Valley, Dowa District (13.35 S, 34.00 E), Lake Shore, Malawi
	25.I.1910		25.I.1910
	Dr. J. B. Davey		Dr. J. B. Davey
	Reexamined 28.IV.1919 by C. W. who states that 1099a are <u>R. falcatus</u> verging towards <u>R. supertritus</u> on the one hand & towards <u>R. simus</u> on the other. 1099b are <u>R. simus</u> verging towards <u>R. falcatus</u> & <u>R. lunulatus</u> in a similar manner.		Cited: Hoogstraal (1956a: 756).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1100	N	1100
		RML	109986
	<u>Rhipicephalus supertritus</u> ♂'s		9 ♂ <u>Rhipicephalus supertritus</u>
	Eland		<u>Taurotragus oryx</u>
	Mpelele River, Marimba District, Nyasaland		Mpelele River (13.07 S, 33.47 E), Malawi
	20.11.1910		20.11.1910
	Dr. Pask		Dr. Pask
	Ticks from the Indian Museum (1101-1104, 1106).		
N	1101	N	1101
		RML	109987
	<u>Amblyomma sublaeve</u> 19 ♂, 1 N		4 ♂, 1 N <u>Amblyomma javanense</u>
	<u>Euprepes</u> (=Mabuia)		Without knowing the species name of the skink, it is not possible to be sure of the present generic placement for Karachi specimens.
	Karachi, Sind		Karachi (24.52 N, 67.03 E), Pakistan
	J. A. W. Murray		J. A. W. Murray
	(taken 5 ♂, 1 N)		Cited: Robinson (1926:247).
	Indian Museum No. <u>5948</u> and 12013		

[There is an additional host and tick collection listed for N1101 but missing and the ticks probably returned to the Indian Museum - J.E.K.]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1102	N	1102
	<u>Amblyomma sublaeve</u> 7 ♂, 1 ♀	RML	109988
	<u>Manis pentadactyla</u>		2 ♂, 1 ♀ <u>Amblyomma javanense</u>
	Purchased 1871 Reg. No. 3223		<u>Manis pentadactyla</u>
	(Taken 2 ♂, 1 ♀)		Purchased 1871 Reg. No. 3223
	Indian Museum No. 3223		Cited: Robinson (1926: 247).
N	1103	N	1103
	<u>Rhipicephalus breviceps</u> 1 ♀	RML	109989
	TYPE		1 ♀ <u>Rhipicephalus sanguineus</u> (Holotype of <u>R. breviceps</u>)
	<u>Erinaceus collaris</u>		<u>Hemiechinus auritus collaris</u>
	Sind		Sind (25.30 N, 69.00 E), Pakistan
	Indian Museum No. $\frac{5954}{10}$		Warburton (1910: 398), original description. The vulva of this ♀ has been removed and is now mounted on a slide.
N	1104	N	1104
	<u>Ixodes gigas</u> 1 ♂ TYPE	RML	109990
	Punkabari, Darjiling District, E. Himalayas		1 ♂ <u>Ixodes acutitarsus</u> Lectotype of <u>I. gigas</u>
			Punkabari, Darjeeling District (27.02 N, 88.16 E), India
			Warburton (1910: 397), original description. In that publication and in Nuttall & Warburton (1911: 204) the locality is spelled Punkabani. Lectotype designated: Keirans & Brew- ster (1981: 166).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1105	N	1105
		RML	109991
	<u>Dermacentor albipictus</u> 3 ♂, 3 ♀, 6 N		2 ♂, 3 ♀, 6 N <u>Dermacentor albipictus</u>
	Blucher Hall, British Columbia		Blucher Hall (51.06 N, 120.01 W), British Columbia, Canada
	III.1910		III.1910
	From Hon. N. C. Rothschild (London)		From Hon. N. C. Rothschild (London)
	Rec'd 2.IV.1910		
	1 ♂ to Dr. E. Pavlovsky, Leningrad 9.X.1925		
N	1106	N	1106
		RML	109992
	<u>Amblyomma supinoi</u> 1 ♀		2 ♀ <u>Amblyomma supinoi</u>
	<u>Geoemyda spinosa</u>		<u>Heosemys spinosa</u>
	India (Burma ?)		India (Burma ?)
	Indian Museum No $\frac{19}{1}$		Warburton (1910: 403), original description of <u>A. annandalei</u> .
	This specimen had previously been determined as <u>Amblyomma</u> <u>geomydae</u> and <u>Amblyomma annandalei</u> TYPE		I do not know how the 2nd female came to be in this collection. The mutilated ♀ that conforms to fig. 8 of Warburton (1910: 403) is the holotype of <u>Amblyomma</u> <u>annandalei</u> [J.E.K.]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1107	N	1107
		RML	109993
	<u>Haemaphysalis longipalpis</u> 10 ♂, 1 ♀ TYPES (= <u>H. aculeata</u> Lavarra 1904)		8 ♂, 1 ♀ <u>Haemaphysalis aculeata</u> Lectotype and paralectotypes of <u>H. longipalpis</u>
	<u>Tragulus meminna</u> (Mouse Deer)		<u>Tragulus meminna</u> (Mouse Deer)
	Colombo, Ceylon		Colombo (06.56 N, 79.51 E), Sri Lanka
	3.VIII.1909		3.VIII, 1909
	C. C. Dobell		C. C. Dobell
			Warburton (1910: 399), original description of <u>H. longipalpis</u> .
			Cited: Nuttall & Warburton (1915: 442). Lectotype designated: Keirans & Brewster (1981: 163).
			The ♀ vulva is mounted on a slide.
N	1108	N	1108
		RML	88858
	<u>Haemaphysalis cuspidata</u> 30 ♂		24 ♂ <u>Haemaphysalis cuspidata</u>
	<u>Tragulus meminna</u>		<u>Tragulus meminna</u>
	Colombo, Ceylon		Colombo (06.56 N, 79.51 E), Sri Lanka
	3.VIII.1909		3.VIII.1909
	C. C. Dobell		C. C. Dobell
			Warburton (1910: 401), original description. Trápido (1965: 158) selection of a lectotype. Cited: Nuttall & Warburton (1915: 440).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1109	N	1109
	<u>Aponomma laeve</u> 4 ♂, N, larvae		4 ♂, 2 N, 20 L <u>Aponomma pattoni</u>
	<u>Zamenis mucosus</u>		<u>Ptyas mucosus</u>
	Peradeniya, Ceylon		Peradeniya (07.15 N, 80.36 E), Sri Lanka
	25.VIII.1909		25.VIII.1909
	R.B.G. (brought by C. C. Dobell)		R.B.G. (brought by C. C. Dobell)
			Host genus on vial label misspelled <u>Zamensis</u>
N	1110	N	1110 MISSING
	<u>Haemaphysalis leachi</u> var. <u>australis</u> 1 ♀		
	<u>Felis tigris</u>		
	Burdwar, Nepal Terai		
	Found with <u>Haem. bispinosa</u>		
	Indian Museum no. <u>6003</u>		
	10		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1111a-d

N 1111d

RML 109995

- (a) Rhipicephalus evertsi ♀'s
 (b) Ixodes pilosus ♂'s, ♀'s
 (c) Boophilus decoloratus
 (d) Hyalomma aegyptium ♀'s

- (a) MISSING
 (b) MISSING
 (c) MISSING
 (d) 3 ♀ Hyalomma rufipes

Cape Colony

Cape Colony, Republic of South Africa

Rec'd 7.VI.1910

Rec'd 7.VI.1910

Rec'd from A. W. Noel Pillers
 (Veterinary Dept. Great Central
 Railway, Sheffield, England)

Rec'd from A. W. Noel Pillers
 (Veterinary Dept. Great Central
 Railway, Sheffield, England)

- (b) 1 ♀ to J. de Mega, Zomba,
 Nyasaland 19.II.1916
 (c) Returned to Mr. Pillers

N 1112

N 1112 MISSING

Ornithodoros turicata

Aguascalientes, Mexico

Sent 9.VI.1910

Sent by Dr. Reinhold Findeisen

(Many alive being raised; raised
 the larvae but they were lost by
 Gordon Merriman but for 1 mounted
 on slide in balsam).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1113

N 1113 MISSING

Ornithodoros megnini

Aguascalientes, Mexico

Sent 9.VI.1910

Sent by Dr. Reinhold Findeisen

Ticks received 27.VI.1910 from Hugh S. Stannus, M. B. London, Medical Officer, Zomba, Nyasaland, having been forwarded by Dr. Hearsey.

N 1114

N 1114 MISSING

Amblyomma variegatum 2 ♂, 1 ♀

Cattle

N. Angoniland

VI.1909

Dr. H. S. Stannus

Forms with B. decoloratus,
Rhip. appendiculatus, Hyal.
aegyptium, on cattle with
"T. parva" in blood

Mostly returned

N 1115

N 1115 MISSING

Amblyomma variegatum 3 ♂

Antelope (probably all eland)

Sakwa

X.1909

Dr. H. S. Stannus

Found with Rhip. capensis & Hyal.
aegyptium

All retained

ORIGINAL DETERMINATIONCURRENT STATUS

N	1116	N	1116
		RML	109996
	<u>Boophilus australis</u> 5 ♀		5 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	Zomba		Zomba (15.23 S, 35.20 E), Malawi
	IV.1910		IV.1910
	Dr. H. S. Stannus		Dr. H. S. Stannus
	Found with <u>Ambly. variegatum</u>		
	Mostly returned		
N	1117	N	1117
		RML	109997
	<u>Boophilus decoloratus</u> 5 ♀		5 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Namadidi Estate, Zomba		Namadidi Estate (15.24 S, 35.15 E), Zomba, Malawi
	Rec'd 27.VI.1910		Rec'd 27.VI.1910
	Dr. H. S. Stannus		Dr. H. S. Stannus
	Animals infected with <u>I. dimorphon</u> . Found with <u>Ambly. variegatum</u> .		
	Mostly returned		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1118	N	1118 MISSING
	<u>Rhipicephalus appendiculatus</u> 2 ♂, 2 ♀, 1 N		
	Cattle		
	N. Angoniland, Nyasaland		
	VI.1909		
	Found with 1114 and other sp. listed above.		
	Mostly returned		
N	1119	N	1119
		RML	109998
	<u>Rhipicephalus simus</u> many		12 ♂, 8 ♀ <u>Rhipicephalus simus</u> 1 ♂ <u>Rhipicephalus jeanneli</u> 1 ♀ <u>Haemaphysalis leachi</u>
	Lion		<u>Panthera leo</u>
	Near Zomba		Near Zomba (15.23 S, 35.20 E), Malawi
	II.1910		II.1910
	Dr. H. S. Stannus		Dr. H. S. Stannus
	Found with 1 ♂ <u>Haemaphysalis leachi</u>		
	All retained		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1120	N	1120
		RML	109999
	<u>Rhipicephalus simus</u> 2 ♂, 2 ♀		2 ♂, 1 ♀ <u>Rhipicephalus simus</u>
	Dog		Dog
	Zomba		Zomba (15.23 S, 35.20 E), Malawi
	III.1910		III.1910
	Dr. H. S. Stannus		Dr. H. S. Stannus
	Mostly returned		
N	1121	N	1121
		RML	105561
	<u>Rhipicephalus capensis</u> 17 ♂		6 ♂, 1 ♀ <u>Rhipicephalus compositus</u> 5 ♂, 1 ♀ <u>Rhipicephalus punctatus</u> 1 ♂ <u>Rhipicephalus simus</u>
	Off antelope (probably all off eland)		Antelope probably <u>Taurotragus oryx</u>
	Sakwa Mt. N. Angoniland		Sakwa Mt. N. Angoniland, Malawi (locality not verified)
	X.1909		X.1909
	Dr. H. S. Stannus		Dr. H. S. Stannus
	A few returned		
	1 ♂, 1 ♀ to R. W. Mettam, Weybridge IV.1931; 1 ♂, 1 ♀ to H. S. Purchase IV.1931		

The following specimens were returned to the collector

- Amblyomma variegatum off cow, Zomba, IV.1910 (with 1116) - off cows London, N. Angoniland XI.1909 - off cattle Camp Boma, Zomba I.1910 - off cattle, Namadidi Estate, Zomba (with No. 1117).
- Boophilus decoloratus off cattle, N. Angoniland, VI.1909 with 1118 q.v. - off cattle, London, N. Angoniland XI.1909 with Amblyomma variegatum - off cattle, Camp Boma, Zomba, I.1910 with Amblyomma variegatum - off sheep, Mzimba, VI.1910
- Hyalomma aegyptium off cattle, N. Angoniland, VI.1909, with 1118 q.v. - off antelope, Sakwa Mt. N. Angoniland, X.1909 with No. 1121 q.v.
- Haemaphysalis leachi 1 ♂ off lion with No. 1119 q.v.
- Ornithodoros moubata 1, in rest house, Hora, N. Angoniland, VI.1909
- Rhipicephalus sanguineus off dog, Zomba, II.1910

ORIGINAL DETERMINATION

CURRENT STATUS

N 1122 N 1122 MISSING

Hyalomma aegyptium ♂'s, ♀'s

Camels

Biskra, Algeria

4-6.VI.1910

Schoolboys

Sent in 13 tubes by the Schoolmaster
S. Muh'd Okbi

Some (sex/stage not stated) to Prof. O.
Duboscq, Montpellier, France 10.II.1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1123

N 1123 MISSING

Ixodes canisuga 1 ♂
(mounted on a slide dry)

Gowanburn, N. Tyne

5.V.1901

Presented by Mr. E. G. Wheeler

Mr. Wheeler writes 25.VI.1910 it is "the only specimen I have ever seen"... "I feel sure that the males of this species are not to be found (unless accidentally) on a host at all & that if wanted the way to get them would be to keep dogs or ferrets in old kennels or boxes where the ticks would find harbourage and seek for them between the boards etc. I referred to this in my account of "British Ticks". This specimen may have come from a dog kennel.

This specimen was probably the ♂ cited by Wheeler (1906: 414) as Ixodes hexagonus var. inchoatus.

N 1124

N 1124 MISSING

Ixodes ricinus 2 ♀'s

Dog

Godesberg on the Rhine

22.VI.1910

F. v. Rigal's gamekeeper

G.H.F.N. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1125	N	1125
		RML	110000
	<u>Rhipicephalus sanguineus</u> 2 ♀, 2 N		2 ♀, 2 N <u>Rhipicephalus sanguineus</u>
	Fowl		Fowl
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	6.VI.1910		6.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
	Collected with <u>A. persicus</u> larvae		
N	1126	N	1126
		RML	110001
	<u>Rhipicephalus sanguineus</u> ♀'s, N's		1 ♀, 17 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	3.VI.1910		3.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
N	1127	N	1127 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Biskra, Algeria		
	3-7.VI.1910		
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1128	N	1128
		RML	110002
	<u>Rhipicephalus sanguineus</u> N's		34 N <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	6-8.VI.1910		6-8.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
N	1129	N	1129
		RML	110003
	<u>Hyalomma aegyptium</u> N's		2 N <u>Hyalomma</u> sp.
	Rabbit		Rabbit
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	6.VI.1910		6.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
N	1130	N	1130
		RML	110004
	<u>Argas persicus</u>		3 ♂, 1 ♀ <u>Argas persicus</u>
	Fowl		Fowl
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	3.VI.1910		3.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1131	N	1131
		RML	110005
	<u>Argas persicus</u> 3 larvae (gorged)		3 L <u>Argas persicus</u>
	Fowl		Fowl
	Biskra, Algeria		Biskra (34.51 N, 05.44 E), Algeria
	6.VI.1910		6.VI.1910
	Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)		Schoolboys and sent by S. Muhamed Okbi (Schoolmaster)
	Found with 1025		
N	1132	N	1132 MISSING
	<u>Ixodes unicavatus</u> 1 larva		
	Cormorant		
	Fidra Point, Firth of Forth, Scotland		
	17.XI.1906		
	W. Evans		
	Found with ♀, N, & L. Rec'd 25.VI.1910. The N of this lot figured by G.H.F.N.		
	also		
	<u>Ixodes putus</u> 1 N off gannet, Bass Scotland ca. 15.VI.1910 W. Evans coll. determined by G.H.F.N. and returned 4.VII.1910.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1133

Aponomma laeve 2 ♂Say's snake (Pituophis sayi)
(Schlegel)

Zool. Soc. Gardens, London

Presented 2.VII.1910

W. H. Harding (Histon)

The snake had been at the
Zoological Gardens since
18.V.1909.

N 1133

RML 110006

2 ♂ Aponomma latumPituophis sayiZoological Society Gardens,
London (51.30 N, 00.07 W), England

Presented 2.VII.1910

W. H. Harding (Histon)

N 1134

Ixodes angustus 9N, 5 L

Squirrels

Mt. Lehman, British Columbia,
Canada

Sent 7.VI.1910

Sent by S. Hadwen

[1 N mounted in balsam on slide
VI.1915 G.H.F.N.]

N 1134

RML 110007

8 N, 5 L Ixodes angustus

Squirrels

Mt. Lehman (49.07 N, 122.23 W),
British Columbia, Canada

Sent 7.VI.1910

Sent by S. Hadwen

Cited: Nuttall et al. (1911:
197, figs. 189, 190).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1135	N	1135
	<u>Ixodes</u> sp. 4 N	RML	110008
	Skunk		4 N <u>Ixodes rugosus</u>
	Mt. Lehman, British Columbia, Canada		Probably <u>Mephitis mephitis</u>
	16.II.1910		Mt. Lehman (49.07 N, 122.23 W), British Columbia, Canada
	S. Hadwen		16.II.1910
	Hadwen believes them to be <u>I. texanus</u> but we find they differ considerably from the ♀ suggesting to Hadwen that he should raise some as the matter cannot be settled otherwise.		S. Hadwen
N	1136	N	1136 MISSING
	<u>Dermacentor albipictus</u> 1 ♂, 2 ♀		
	Rec'd 10.VII.1910		
	Rec'd from Mr. C. Gordon Hewitt, Central Experimental Farm, Ottawa, Ontario, Canada		
N	1137	N	1137
	<u>Ixodes canisuga</u> 7 ♀, 1 N	RML	110009
	Ferret		7 ♀, 1 N <u>Ixodes canisuga</u>
	(♀) Longner Hall, Shrewsbury (N) Oxon, Salop		<u>Mustela furo</u>
	(♀) 29.VI.1910 (N) 27.VI.1910		(♀) Longner Hall, Shrewsbury (52.43 N, 02.44 W) and (N) Oxon, Shropshire (52.40 N, 02.35 W), England
	Sent by R.F.L. Burton		(♀) 29.VI.1910 (N) 27.VI.1910
			Sent by R.F.L. Burton

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1138	N	1138
	<u>Ixodes canisuga</u> ♀'s	RML	110010
	Ferret		9 ♀ <u>Ixodes canisuga</u>
	Longner Hall, Shrewsbury		<u>Mustela furo</u>
	5.VII.1910		Longner Hall, Shrewsbury (52.43 N, 02.44 W), England
	Sent by R.F.L. Burton		5.VII.1910
			Sent by R.F.L. Burton
N	1139	N	1139
	<u>Hyalomma syriacum</u> ♂'s, ♀'s	RML	110011
	Tortoise		6 ♂, 4 ♀ <u>Hyalomma aegyptium</u>
	Longner Hall, Shrewsbury		Tortoise
	7.VII.1910		Longner Hall, Shrewsbury (52.43 N, 02.44 W), England
	Sent by R.F.L. Burton		7.VII.1910
			Sent by R.F.L. Burton
N	1140	N	1140 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Dogs, asses, bullocks & horses		
	Nowshera Cavalry Cantonment, N.W. Frontier Province, India		
	9.VI.1910		
	Capt. A. B. Fry, I.M.S.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1141, a	N	1141
	(1141) <u>Ixodes canisuga</u> 3 (out of 8) ♀'s	RML	110012
	(a) <u>Ixodes canisuga</u> larvae (progeny of ♀'s of lot 1141)		(1141) 1 ♀ <u>Ixodes lividus</u>
	Sand Martin's nest		(a) MISSING
	Banks of the Severn		<u>Riparia riparia</u> nest
	9.VII.1910		Banks of the River Severn (51.36 N, 02.38 W), England
	R.F.L. Burton		9.VII.1910
	"As many as four were fixed to the top of the head of one young bird"		R.F.L. Burton
			Cited: Nuttall et al. (1911: 214). Arthur (1963: 91, 92) indicated 3 ♀ and larvae present at that date; Thompson (1967: 106).
N	1142	N	1142
	<u>Ixodes caledonicus</u> 1 N, 2 L TYPES	RML	110013
	Young domestic pigeon		3 L <u>Ixodes caledonicus</u> Paralectotype
	Dunipace, Stirlingshire		<u>Columba livia</u>
	18.IV.1910		Dunipace (56.01 N, 03.55 W), Stirlingshire, Scotland
	W. Evans (Edinburgh)		18.IV.1910
	(2 N & 5 L returned to Mr. E.)		W. Evans (Edinburgh)
			Nuttall (1910: 408), original description. Cited: Nuttall & Warburton (1911: 200). Paralectotype designated: Keirans & Brewster (1981: 164).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1143a-c

N 1143a, c

RML 56922 & 66150

- (a) Ixodes canisuga 18 ♂'s
 (b) Ixodes canisuga ♀'s, N's (gorged)
 (c) Ixodes canisuga larvae (progeny
 from ♀'s of 1143b)

- (a) 1 ♂ Ixodes lividus
 (b) MISSING
 (c) 82 L Ixodes lividus

Sandmartin's nests
 (c) raised on hedgehogs, 1911

Riparia riparia nests
 (c) Erinaceus europaeus

Banks of the Severn River

Banks of Severn River
 (51.36 N, 02.38 W), England

11.VII.1910

11.VII.1910

Mr. Richard F. L. Burton

Mr. Richard F. L. Burton

Sent to me alive. Many ♂ & ♀'s in
 copula, ♂ repeatedly copulated with
 ♀'s in dishes in laboratory, they
 dropped off readily when disturbed.
 Some ♀'s put aside to oviposit.

The RML collection contains 1 ♂ from
 the Bishopp collection (B3230)
 (RML 56922) and 1 ♂ from the USNM
 collection (RML 66150).
 Cited: Nuttall & Warburton (1911:
 214); Arthur (1963: 91, 92);
 Thompson (1967: 106).

1 ♂ to Prof. Dr. Gestro, Museo
 Civico di Storia Nat. Genova, VII.1914;
 1 ♂ to Prof. Dr. Schenkling, Deutsches
 Entomol. Mus. VII. 1914; 1 ♂ to Prof.
 Dr. Dahl, Berlin Museum, VII.1914;
 1 ♀ to Prof. R. Matheson, Cornell,
 27.V.1929.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1144	N	1144
		RML	110014
	<u>Haemaphysalis leporispalustris</u> 3 ♂, 1 ♀		2 ♂, 2 ♀ <u>Haemaphysalis leporispalustris</u>
	<u>Lepus americanus</u>		<u>Lepus americanus</u>
	Aweme, Manitoba, Canada		Aweme (49.43 N, 99.36 W) Manitoba, Canada.
	13.V.1910		13.V.1910
	Sent by S. Hadwen		Sent by S. Hadwen
	(See 1196)		British Columbia is the province listed on vial label.
			Cited: Nuttall & Warburton (1915: 394).
N	1145	N	1145
		RML	110015
	<u>Dermacentor venustus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Dermacentor andersoni</u>
	Horse		Horse
	Osoyoos, B.C., Canada		Osoyoos (49.02 N, 119.28 W), British Columbia, Canada
	1.V.1910		1.V.1910
	S. Hadwen		S. Hadwen

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1146	N	1146
		RML	110016
	<u>Dermacentor venustus</u> 2♂, 1 ♀		2 ♂, 1 ♀ <u>Dermacentor andersoni</u>
	Horse		Horse
	Osoyoos, B.C., Canada		Osoyoos (49.02 N, 119.28 W), British Columbia, Canada
	11.V.1910		11.V.1910
	S. Hadwen		S. Hadwen
			1 ♂, 1 ♀ of the above total are pinned specimens.
N	1147	N	1147
		RML	110017
	<u>Dermacentor andersoni</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Dermacentor andersoni</u>
	<u>Lepus americanus</u>		<u>Lepus americanus</u>
	Tuesbank, Manitoba, Canada		Probably Treesbank (49.38 N, 99.36 W), Manitoba, Canada
	13.V.1910		13.V.1910
	S. Hadwen		S. Hadwen
	S. Hadwen det. as <u>D. occidentalis</u> . We consider <u>D. andersoni</u> a variety of <u>D. venustus</u> .		Above specimens are mounted on a slide.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1148	N	1148
	<u>Dermacentor variabilis</u> 2 ♂, 1 ♀	RML	110018
	Man		2 ♂, 1 ♀ <u>Dermacentor variabilis</u>
	Aweme, Manitoba, Canada		Man
	V.1910		Aweme (49.43 N, 99.36 W), Manitoba, Canada
	S. Hadwen (sender)		V.1910
	S. Hadwen det. as <u>D. occidentalis</u>		S. Hadwen (sender)
			I believe N 3504 is also part of this collection [J.E.K.].
N	1149	N	1149
	<u>Amblyomma geayi</u> 4 ♀	RML	110019
	Sloth, <u>Bradypus tridactylus</u>		3 ♀ <u>Amblyomma geayi</u>
	Manãos, Brazil		Lectotype and paralectotype of <u>A. v-notatum</u>
	1903		<u>Bradypus tridactylus</u>
	T. P. Beddoes		Manãos (03.08 S, 60.01 W), Brazil
	Rec'd from Mr. Beddoes 13.VII.1910.		1903
	Types of <u>Amblyomma v-notatum</u>		T. P. Beddoes
			Nuttall (1910: 412) original description. Cited: Robinson (1926: 61). Lectotype designated: Keirans & Brewster (1981: 157). See also N 3125.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1150	N	1150
		RML	110020
	<u>Dermacentor circumguttatus</u> 3 ♂, 2 ♀		3 ♂, 2 ♀ <u>Dermacentor circumguttatus</u>
	(♂) off ?		(♂) off ?
	(♀) off ? elephant		(♀) off ? <u>Loxodonta africana</u>
	Masindi, Uganda		Masindi (01.41 N, 31.43 E), Uganda
	8.V.1910		8.V.1910
N	1151	N	1151
		RML	110021
	<u>Argas vespertilionis</u> 10 L		10 L <u>Argas vespertilionis</u>
	<u>Pipistrellus pipistrellus</u>		<u>Pipistrellus pipistrellus</u>
	Oristano, Sardinia		Oristano (39.54 N, 08.35 E), Sardinia
	V.1907		V.1907
	Dr. Krausse		Dr. Krausse
	[R. 296]		
N	1152	N	1152
		RML	110022
	<u>Argas vespertilionis</u> 6 L		6 L <u>Argas vespertilionis</u>
	<u>Vesperugo pipistrellus</u>		<u>Pipistrellus pipistrellus</u>
	Tring, Herts., England		Tring (51.48 N, 00.40 W), Herts., England
	1.IX.1898		1.IX.1898
	[R. 244]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1153	N	1153
		RML	110023
	<u>Argas vespertilionis</u> 2 L		2 L <u>Argas vespertilionis</u>
	No particulars		No particulars
	[R 244]		
N	1154	N	1154
		RML	110024
	<u>Argas vespertilionis</u> 2 L		2 L <u>Argas</u> (<u>Carios</u>) sp.
	Perth, W. Australia		Perth (31.56 S, 115.50 E), Australia
	[R 271]		These specimens may represent a new species. It is not <u>Argas australiensis</u> , <u>A. dewae</u> or <u>A. daviesi</u> .
N	1155	N	1155
		RML	66882
	<u>Amblyomma marmoreum</u> 2 ♂, 2 ♀		1 ♀ <u>Amblyomma falsomarmoreum</u>
	Land tortoise		Land tortoise
			Guldessa, Somali Democratic Republic (locality not verified)
	30.VII.1910		30.VII.1910
	E. Brumpt collection		E. Brumpt collection
	1 ♀ to Prof. R. A. Cooley V.1928.		1 ♂ of this collection is in the RML collection.
			Cited (without N number): Robinson (1926: 89) , who spelled the locality Guldessa.
			Cited: Theiler & Salisbury (1959: 117).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1156	N	1156
		RML	110025
	<u>Rhipicephalus pulchellus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus pulchellus</u>
	Zebra		<u>Equus burchelli</u>
	Mt. Finke Moulon		Monte Fiche (07.34 N, 38.30 E), Ethiopia
	30.VII.1910		30.VII.1910
	H. Brumpt collection		H. Brumpt collection
N	1157	N	1157
		RML	110026
	<u>Amblyomma marmoreum</u> 2 ♂, 1 ♀		3 ♂ <u>Amblyomma marmoreum</u> Pinned specimens (one abnormal)
	Land tortoise		Land tortoise
	30.VII.1910		30.VII.1910
	H. Brumpt collection		H. Brumpt collection
N	1158	N	1158
		RML	110027
	<u>Amblyomma gemma</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Amblyomma gemma</u>
	Fed attached side by side, off		<u>Phacochoerus aethiopicus</u>
			Sagak, Somali Democratic Republic (locality not verified)
	30.VII.1910		11.VII.1901
	H. Brumpt collection		H. Brumpt collection
			Vial label gives partial information - host, Phocochoe, Sacak, Somailand; other information from Robinson (1926: 122).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1159	N	1159
		RML	115865
	<u>Ixodes hexagonus</u> N's		3 N <u>Ixodes hexagonus</u>
	<u>Mustela erminea</u>		<u>Mustela erminea</u>
	Tring, Herts.		Tring (51.48 N, 00.40 W), Herts., England
	10.IV.1902		10.IV.1902
	[R 142]		One nymph of this collection was donated to RML by P. A. Buxton, London School of Hygiene and Tropical Medicine in 1940.
			Cited: Nuttall & Warburton (1911: 182).
N	1160	N	1160
		RML	110028
	<u>Ixodes hexagonus</u> L's		17 L <u>Ixodes hexagonus</u>
	Fox cub		<u>Vulpes vulpes</u> (cub)
	Boxworth		Boxworth (52.16 N, 00.02 W), England
	30.III.1900		30.III.1900
	[R 194]		Cited: Nuttall & Warburton (1911: 182).
	2 L to Prof. R. Matheson, Cornell, 27.V.1929		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1161	N	1161
		RML	110029
	<u>Ixodes tenuirostris</u> ♀		1 ♀ <u>Ixodes trianguliceps</u>
	Tarasp, Switzerland		Tarasp (46.38 N, 10.25 E), Switzerland
	Summer 1901		Summer 1901
	[R 278]		Cited: Nuttall & Warburton (1911: 248).
N	1162	N	1162
		RML	110030
	<u>Ixodes</u> sp. 2 L		2 L <u>Ixodes</u> sp.
	<u>Dromicia concinna</u>		<u>Cercartetus concinnus</u>
			Australia
	[R 207]		The nocturnal marsupial <u>C. concinnus</u> inhabits the southern part of western and central Australia
N	1163	N	1163
		RML	110031
	<u>Argas vespertilionis</u> L's		13 L <u>Argas vespertilionis</u>
	<u>Vesperugo pipistrellus</u>		<u>Pipistrellus pipistrellus</u>
	Galding, Kent		Yalding (51.14 N, 00.26 E), Kent, England
	8.VIII.1897 (However, 1997 was written)		8.VIII.1897
	W.R.O.G.		W.R.O.G.
	[R 247]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1164	N	1164
		RML	110032
	<u>Argas</u> sp. L's		5 L <u>Argas boueti</u>
	Either <u>Phalacrocorax graculus</u> , Cromarty, or <u>Megaderma cor</u> , Salamana Havish, 4,500 ft. (Number on cork defaced)		<u>Megaderma cor</u> Salamana, Havish, (locality not verified)
	[R 250, 251]		<u>Megaderma cor</u> ranges in East Africa from Ethiopia to Tanzania
			The correct Rothschild number for this collection is R 251. For R 250 see Nuttall 667.
N	1165	N	1165
		RML	110033
	<u>Ixodes tenuirostris</u> 4 ♀		4 ♀ <u>Ixodes trianguliceps</u>
	Field vole		<u>Microtus agrestis</u>
	Longner Hall, Shrewsbury		Longner Hall, Shrewsbury (52.43 N, 02.44 W), England
	1.VIII.1910		1.VIII.1910
	R.F.L. Burton		R.F.L. Burton
			Cited: Nuttall & Warburton (1911: 248); Thompson (1968: 146).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1166	N	1166
		RML	110034
	10 nymphs (species not stated)		10 N <u>Amblyomma</u> sp.
	<u>Mus esularis</u>		<u>Mus esularis</u> (name not verified)
	St. Aignan		Possibly Misima Island (10.41 S, 152.42 E), Louisiade Archipelago, Papua New Guinea
	VIII-XI		VIII-XI
	(Meek)		(Meek)
	[R 230]		Misima Island was formerly known as St. Aignan.
N	1167, a	N	1167, a
		RML	110035
	(1167) <u>Ixodes</u> sp. 2 N		(1167) 2 N <u>Ixodes</u> sp.
	(a) <u>Hyalomma aegyptium</u> 1 ♂		(a) 1 ♂ <u>Hyalomma truncatum</u>
	A "Sasaby" a bastard hartebeest (<u>Damaliscus lunatus</u>)		<u>Damaliscus lunatus</u>
	S. Africa		Republic of South Africa
	[R 186]		
N	1168	N	1168
		RML	110036
	<u>Ixodes hexagonus</u> 1 ♀, 5 N		1 ♀, 5 N <u>Ixodes hexagonus</u>
	Ferrets		<u>Mustela furo</u>
	Kittendorf, Mecklenburg-Schwerin, Germany		Kittendorf (53.38 N, 12.54 E), German Democratic Republic
	26.VI.1910		26.VI.1910
	G. von Oertzen's gamekeeper		G. von Oertzen's gamekeeper
			Cited: Nuttall & Warburton (1911: 183).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1169	N	1169 MISSING
	<u>Ixodes ricinus</u> 7 ♀		
	Dogs		
	Kittendorf, Mecklenburg-Schwerin, Germany		
	26.VI., 10, 19, 21, 25, 26.VI.1910		
	G. von Oertzen's gamekeeper		
N	1170	N	1170 MISSING
	No determination		
	Fox		
	Kittendorf, Mecklenburg-Schwerin, Germany		
	16.IV.1910		
	G. von Oertzen's gamekeeper		
N	1171	N	1171
		RML	110037
	<u>Ixodes schillingsi</u> 1 ♀, 2 N		1 ♀ <u>Ixodes schillingsi</u> Syntype
	<u>Colobus caudatus</u>		<u>Colobus guereza caudatus</u>
	German East Africa		Tanzania
	Presented 9.VIII.1910		Presented 9.VIII.1910
	Presented by the Zoological Museum, Berlin		Presented by the Zoological Museum, Berlin
	Attached to the eyes		Neumann (1901: 288), original description.
	From among Neumann's Types		Cited: Nuttall & Warburton (1911: 241); Arthur (1957a: 544).
			The nymphs were lost in transit to Dr. D. E. Sonenshine, Old Dominion University, Norfolk, Virginia in 1969.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1172	N	1172 MISSING
	<u>Hyalomma aegyptium</u> ♂ ♀		
	Sheep		
	Slaughter house, Algiers		
	Summer 1910		
	M. Serge		
	Sent by Dr. Edmond Sergent 8.VIII.1910		
N	1173	N	1173
	<u>Rhipicephalus bursa</u> ♂, ♀	RML	110038
	Sheep		27 ♂, 13 ♀ <u>Rhipicephalus bursa</u>
	Slaughter house, Algiers		Sheep
	Summer 1910		Slaughter house, Algiers (36.42 N, 03.08 E), Algeria
	M. Serge		Summer 1910
	Sent by Dr. Edmond Sergent 8.VIII.1910		M. Serge

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1174	N	1174
	<u>Rhipicephalus bursa</u> ♂	RML	110039
	Horse		1 ♂ <u>Rhipicephalus bursa</u>
	Slaughter house, Algiers		Horse
	Summer 1910		Slaughter house, Algiers (36.42 N, 03.08 E), Algeria
	M. Serge		Summer 1910
	Sent by Dr. Edmond Sergent 8.VIII.1910		M. Serge
N	1175	N	1175 MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀		
	Horse		
	Slaughter house, Algiers		
	Summer 1910		
	M. Serge		
	Sent by Dr. Edmond Sergent 8.VIII.1910		
N	1176	N	1176
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N	RML	110040
	Dogs		7 ♂, 10 ♀ <u>Rhipicephalus sanguineus</u>
	Slaughter house, Algiers		Dogs
	Summer 1910		Slaughter house, Algiers (36.42 N, 03.08 E), Algeria
	M. Serge		Summer 1910
	Sent by Dr. Edmond Sergent 8.VIII.1910		M. Serge

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1177	N	1177
		RML	110041
	<u>Boophilus australis</u> ♀		8 ♀ <u>Boophilus annulatus</u>
	Cattle		Cattle
	Slaughter house, Algiers		Slaughter house, Algiers (36.42 N, 03.08 E), Algeria
	Summer 1910		Summer 1910
	M. Serge		M. Serge
	Sent by Dr. Edmond Sergent 8.VIII.1910		
N	1178	N	1178 MISSING
	<u>Ixodes ricinus</u> 2 ♀		
	Cattle		
	Slaughter house, Algiers		
	Summer 1910		
	M. Serge		
	Sent by Dr. Edmond Sergent 8.VIII.1910		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1179	N	1179
		RML	110042
	<u>Hyalomma aegyptium</u> ♂, ♀		16 ♂, 12 ♀ <u>Hyalomma marginatum</u>
	Cattle		Cattle
	Slaughter house, Algiers		Slaughter house, Algiers (36.42 N, 03.08 E), Algeria
	Summer 1910		Summer 1910
	M. Serge		M. Serge
	Sent by Dr. Edmond Sergent 8.VIII.1910		
	Some (sex/stage not stated) to Dr. Longin Navas, Zaragoza, Spain 28.V.1913		
N	1180 a-c	N	1180 b
		RML	110043
	(a) <u>Amblyomma cajennense</u> ♀'s		(a) MISSING
	(b) <u>Boophilus annulatus</u> ♀'s		(b) 84 ♀ <u>Boophilus microplus</u>
	(c) <u>Boophilus annulatus</u> 1 ♂		(c) MISSING
	Cows		Cows
	Mérida, Yucatán, Mexico		Mérida (20.58 N, 89.37 W), Yucatán, Mexico
	Presented 4.IX.1910		Presented 4.IX.1910
	Presented by Dr. Harald Seidelin		Presented by Dr. Harald Seidelin

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1181 <u>Ixodes ricinus</u> 2 ♀'s Dog Godesberg a Rh., Germany 8.IX.1910 G.H.F. Nuttall	N	1181 MISSING
N	1182 <u>Ixodes ricinus</u> 1 ♂, 3 ♀ Roebuck Schwandt bei Möhln, Mecklenburg-Schwerin 13.IX.1910 Count Schlieffen's gamekeeper	N	1182 MISSING
N	1183 <u>Ixodes ricinus</u> 1 ♀ Horse Vossfeld, bei Möhln, Mecklenburg-Schwerin 25.VII.1910 Rec'd from Count Schlieffen	N	1183 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1184 <u>Ixodes ricinus</u> 1 ♀, 1 N Dog Rosenow, near Möhln, Mecklenburg-Schwerin 11.VII.1910 Rec'd from Count Schlieffen	N	1184 MISSING
N	1185 <u>Ixodes ricinus</u> 1 ♂ Dog Near Maam Cross, Co. Galway 1.X.1910 G.H.F. Nuttall Said to infest wooded islands in lake.	N	1185 MISSING
N	1186 a, b (a) <u>Ixodes ricinus</u> 2 ♀ (b) <u>Ixodes hexagonus</u> 1 ♀ Dog Godesberg a. Rh., Germany 1.VII.1910 Baron von Rigal's gamekeeper	N	1186 b RML 110044 (a) MISSING (b) 1 ♀ <u>Ixodes hexagonus</u> Dog Bad Godesberg (50.41 N, 07.09 E) Federal Republic of Germany 1.VII.1910 Baron von Rigal's gamekeeper Cited: Nuttall & Warburton (1911: 183).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1187	N	1187
		RML	110045
	<u>Ornithodoros talaje</u> var. <u>capensis</u>		61 ♂, 39 ♀, 81 N, 68 L <u>Ornithodoros capensis</u>
	Penguin nests		Penguin nests
	"adjacent to this coast" South Africa		"adjacent to this coast" Republic of South Africa
	Sent 24.VIII.1910		Sent 24.VIII.1910
	Sent by Charles K. Brain		Sent by Charles K. Brain
	Received alive and dead		
N	1188	N	1188
		RML	110046
	<u>Amblyomma cyprium</u> 1 ♀		1 ♀ <u>Amblyomma cyprium</u>
	Cow		Cow
	Tavenni, Fiji		Tavenni, Fiji (locality not verified)
	13.VII.1910		13.VII.1910
	F. P. Jepson		F. P. Jepson
	Sent to Nn (Neumann - J.E.K.) for examination & returned 31.X.1910. He writes that we have determined it correctly, that it is exactly like his specimen, except for the size: the hairs are thick (not large) and white; the porose areas "which I described as 'large' are not so in reality (a fresh example of the inconvenience of term lacking in precision; I now compare them to the eyes and say 'twice as small as the eyes'); article 1 of the palps is slightly prominent & trenchant ventrally when seen in profile."		Cited: Robinson (1926: 238).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1189	N	1189
		RML	110047
	<u>Rhipicephalus sanguineus</u> 1 N		1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Fanning Island (3.8° N, 159.3 W between Hawaii and Fiji, Polynesia		Fanning Island (03.52 N, 159.20 W) Line Islands
			1910
			F. P. Jepson
			Date and collector from vial label
N	1190	N	1190 MISSING
	(Gamasid mites)		
	<u>Mus concolor</u>		
	Rangoon, India		
	7.VII.1910		
	Sent by Dr. H. H. Marshall (Royal Hotel, Rangoon)		
N	1191	N	1191 MISSING
	(Gamasid mites)		
	<u>Nesokia bengalensis</u>		
	Rangoon, India		
	19.VII.1910		
	Sent by Dr. H. H. Marshall		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1191 a	N	1191 a
		RML	110048
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		12 ♂, 10 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	26.VI.1910		26.VI.1910
	Sent by Dr. H. H. Marshall		Sent by Dr. H. H. Marshall
N	1192	N	1192
		RML	110049
	<u>Argas vespertilionis</u> L		1 L <u>Argas vespertilionis</u>
	Bat		Bat
	Longner Hall, Shrewsbury		Longner Hall, Shrewsbury (52.43 N, 02.44 W), England
	21.VIII.1910		21.VIII.1910
	R.F.L. Burton		R.F.L. Burton
			The bat's leg is also present but the larva is not attached.
N	1193	N	1193
		RML	110053
	<u>Ixodes hexagonus</u> N		1 N <u>Ixodes hexagonus</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Near Longner Hall, Leebotwood, Salop		Near Longner Hall, Leebotwood (52.35 N, 02.47 W) Shropshire, England
	22.IX.1910		22.IX.1910
	R.F.L. Burton		R.F.L. Burton
			Cited: Nuttall & Warburton (1911: 182); Longner is misspelled Longnor in that citation.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1194	N	1194
	<u>Ixodes hexagonus</u> 1 ♀, 2 N	RML	110054
	Weasel		1 ♀, 2 N <u>Ixodes hexagonus</u>
	Claverdon Leys, Warwick		<u>Mustela nivalis</u>
	21.IX.1910		Claverdon (52.16 N, 01.42 W), Warwickshire, England
	E. G. Wheler		21.IX.1910
			E. G. Wheler
			Cited: Nuttall & Warburton (1911: 182).
N	1195	N	1195
	<u>Ixodes angustus</u> ♂ & ♀ in copula	RML	110055
	(♂) <u>Lepus dalli</u>		1 ♂, 1 ♀ <u>Ixodes angustus</u>
	(♀) <u>Sciurus hudsonicus douglassi</u>		(♂) <u>Lepus americanus dalli</u>
	Mt. Lehman, British Columbia, Canada		(♀) <u>Tamiasciurus d. douglasi</u>
	24.VII.1910		Mt. Lehman (49.07 N, 122.23 W), British Columbia, Canada
	S. Hadwen		24.VII.1910
			S. Hadwen
			Cited: Nuttall & Warburton (1911: 197).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1196	N	1196
		RML	110056
	<u>Haemaphysalis leporispalustris</u> var.?		2 ♂, 1 ♀, 1 L <u>Haemaphysalis leporispalustris</u>
	<u>Lepus dalli</u>		<u>Lepus americanus dalli</u>
	Peardonville, British Columbia, Canada		Peardonville (49.01 N, 122.24 W), British Columbia, Canada
	17.VI.1910		17.VI.1910
	From S. Hadwen		From S. Hadwen
	Differ slightly in size from 1144 only a variety of <u>Haem. palustris</u> . C. W. notes only <u>H. palustris</u> var. at most characterized by more protuberant 2nd palpal articles (our Banks & Hunter specimens show this variation) & shorter ♀ scutum. All have a rather peculiar characteristic, slight auriculae.		Cited: Nuttall & Warburton (1915: 394).
N	1197	N	1197
		RML	110057
	<u>Dermacentor venustus</u> 2 ♂		2 ♂ <u>Dermacentor andersoni</u>
	Horse		Horse
	Osoyoos, British Columbia, Canada		Osoyoos (49.02 N, 119.28 W), British Columbia, Canada
	11.V.1910		11.V.1910
	From S. Hadwen		From S. Hadwen

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1198	N	1198
	<u>Amblyomma americanum</u> 1 ♂	RML	110058
	Off grass		1 ♂ <u>Amblyomma americanum</u>
	Awema, Montana		Off grass
	J. B. Wallis		This is undoubtedly Aweme, Manitoba (see N 1144 & N 1148). However, <u>A. americanum</u> does not naturally occur here. It must be an accidental introduction.
			J. B. Wallis
			Robinson (1926: 48) lists Montana as a locality for <u>A. americanum</u> . Although no Nuttall number is given, I believe he means this collection.
N	1199	N	1199
	<u>Dermacentor albipictus</u> larvae	RML	110059
	♀ taken at Okanagan Falls, British Columbia, Canada		11 L <u>Dermacentor albipictus</u>
	Sent 30.VIII.1910		♀ taken at Okanagan Falls (49.21 N, 119.34 W), British Columbia, Canada
	Raised and sent by C. Gordon Hewitt		Sent 30.VIII.1910
	Larvae raised in laboratory from ♀		Raised and sent by C. Gordon Hewitt

ORIGINAL DETERMINATIONCURRENT STATUS

N	1200	N	1200
		RML	110060
	<u>Ixodes caledonicus</u> 2 N TYPES		2 N <u>Ixodes caledonicus</u> Paralectotype
	Young domestic pigeon		<u>Columba livia</u>
	Dunipace, Stirlingshire		Dunipace (56.01 N, 03.55 W), Stirlingshire, Scotland
	9.VIII.1910		9.VIII.1910
	Mr. Wm. Evans		Mr. Wm. Evans
	(1 ♀, 2 N returned to W. Evans)		Nuttall (1910: 408), original description.
			Vial label date reads 18.IV.1910 but catalogue date of 9.VIII.1910 is given by Nuttall & Warburton (1911: 200). Paralectotype designated: Keirans & Brewster (1981: 164).
N	1201	N	1201
		RML	110061
	<u>Rhipicephalus neavei</u> var. <u>punctatus</u> ♂, ♀, 2 N		1 ♂, 1 ♀, 2 N <u>Rhipicephalus pravus</u>
	Abyssinia		Ethiopia
	1901		1901
	H. Brumpt		H. Brumpt

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1202	N	1202
		RML	110062
	<u>Rhipicephalus neavei</u> var. <u>punctatus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus pravus</u>
	Antelope		Antelope
	Harar, Abyssinia		Harar (09.19 N, 42.09 E), Ethiopia
	VI.1901		VI.1901
	H. Brumpt		H. Brumpt
	Our determination (as <u>R. oculatus</u>) confirmed by Nn (Neumann) 4.VIII.1910 but since wrong since we saw types of <u>oculatus</u> at Berlin, see N 850.		
N	1203	N	1203 MISSING
	<u>Haemaphysalis calcarata</u> 1 ♂		
	<u>Xerus rutilus</u>		
	Halte de Biacobaba, Somaliland		
	IV.1901		
	H. Brumpt		
N	1204	N	1204 MISSING
	No determination 1 N		1 N <u>Dermacentor</u> sp.
	Campagnol		Vole
	M. Bessin		M. Bessin
	1908		1908
	H. Brumpt		H. Brumpt
			This specimen was inadvertently lost after determination.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1205	N	1205
		RML	110063
	<u>Aponomma trimaculatum</u> 2 ♀		1 ♀ <u>Aponomma trimaculatum</u>
	Iguana (? <u>Varanus</u>)		Iguana (? <u>Varanus</u>)
	Port Darwin		Darwin (12.28 S, 130.50 E), Australia
	Sent 22.VI.1910		Sent 22.VI.1910
	Sent by Col. A. Alcock		Sent by Col. A. Alcock
	L.E.R. det. (1 ♂ mutilated & 1 ♀ returned)		
N	1206	N	1206
		RML	22307
	<u>Amblyomma australiense</u> 1 ♂		1 ♂ <u>Amblyomma australiense</u>
	Iguana (? <u>Varanus</u>)		Iguana (? <u>Varanus</u>)
	Port Darwin		Darwin (12.28 S, 130.50 E), Australia
	Sent 22.VI.1910		Sent 22.VI.1910
	Sent by Col. A. Alcock		Sent by Col. A. Alcock
	(1 ♂, 1 ♀ returned to Col. Alcock) L.E.R. det.		3 slides of dissections present (1) ♂ hypostome (2) ♂ spiracular plate (3) ♂ legs I & IV
			Cited: Robinson (1926: 137).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1207	N	1207
		RML	110064
	<u>Haemaphysalis punctata</u> ♀'s		6 ♀ <u>Haemaphysalis punctata</u>
	Sheep		Sheep
	Ashford, Kent		Ashford (51.08 N, 00.53 E), Kent, England
	V.1906		V.1906
	Spanton		Spanton
	Ex W. F. Cooper coll., No. 234		Cited: Nuttall & Warburton (1915: 384).
	1 ♀ to J. de Meza, Zomba, Nyasaland, 19.II.1916.		
N	1208	N	1208
		RML	110065
	<u>Amblyomma cyprium</u> 1 ♂		1 ♂ <u>Amblyomma cyprium</u>
	Man's clothing		Man's clothing
	Daria, Vanna Leon, Fiji		Daria, Vanna Leon, Fiji (locality not verified)
	8.VII.1910		8.VII.1910
	F. P. Jepson		F. P. Jepson
	Found on clothing after marching through bush		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1209	N	1209
		RML	110066
	<u>Amblyomma cyprium</u> 1 ♂		1 ♀ <u>Amblyomma cyprium</u>
	Wild bush pig		Wild bush pig
	Taveuni, Fiji		Taveuni Island (16.51 S, 179.58 W), Fiji
	29.V.1910		29.V.1910
	F. P. Jepson		F. P. Jepson
	G.H.F.N. det. X.1910		
N	1210	N	1210
		RML	110067
	<u>Rhipicephalus sanguineus</u> 1 ♂ abnormal		1 ♂ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Puri, Orissa Coast, India		Puri (19.48 N, 85.51 E), Orissa, India
	Ex Indian Museum coll. <u>819a</u> <u>17</u>		This specimen is in a jar marked "Tick Abnormalities" Cited and figured: Nuttall (1914a: 252), fig. 4, who gives the Indian Museum collection number as <u>810a</u> . <u>10</u> The vial label gives the number as <u>819</u> . <u>17</u>

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1211	N	1211
	<u>Ixodes</u> sp. 2 N	RML	110068
	<u>Tarsipes rostratus</u> or <u>Smiothopsis murinus</u>		2 N, 1 L <u>Ixodes fecialis</u>
	Albany, W. Australia		<u>Sminthopsis murina</u>
	21.XII.1900		Albany (35.02 S, 117.53 E), Australia
	B. H. Woodward		21.XII.1900-
	[R 237] Also a larva of ?		B. H. Woodward
			Vial label gives the host as <u>S. murinus</u> .
N	1212	N	1212
	<u>Ixodes</u> sp. 5 N	RML	110069
	Perth, W. Australia		5 N <u>Ixodes holocyclus</u>
	Woodward		Perth (31.56 S, 115.50 E), Australia
	[R 272]		B. H. Woodward
N	1213	N	1213
	<u>Ixodes fecialis</u> var. <u>aegrifossus</u> 1 ♀ (capitulum mutilated)	RML	110070
	<u>Perameles obesula</u>		1 ♀ <u>Ixodes fecialis</u>
	Bannister, W. Australia		<u>Isoodon obesulus</u>
	21.VIII.1900		Bannister (32.40 S, 116.33 E), Australia
	[R 216]		21.VIII.1900
			Cited: Nuttall & Warburton (1911: 250).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1214	N	1214
		RML	110071
	<u>Rhipicephalus simpsoni</u> 3 ♂, 3 ♀		2 ♂, 1 ♀ <u>Rhipicephalus simpsoni</u> Lectotype and paralectotypes
	Large rodent		Probably <u>Thryonomys</u> sp.
	Oshogbo, W. Africa		Oshogbo (07.46 N, 04.34 E), Nigeria
	28.II.1910		28.II.1910
	J. J. Simpson		J. J. Simpson
	(41b Entom. Res. Cttee)		<u>Rhipicephalus simpsoni</u> is almost restricted to cane rats.
			Nuttall (1910: 413), original de- scription; Santos Dias (1958: 477). Lectotype designated: Keirans & Brewster (1981: 171).
			The vulva of the ♀ has been removed and is now mounted on a slide.
N	1215	N	1215
		RML	110072
	<u>Ixodes ugandanus</u> 2 ♀		<u>Ixodes ugandanus</u> 2 ♀
	Large rodent		Probably <u>Thryonomys</u> sp.
	Oshogbo, W. Africa		Oshogbo (07.46 N, 04.34 E), Nigeria
	28.II.1910		28.II.1910
	J. J. Simpson		J. J. Simpson
	(41a Ent. Res. Cttee.)		Cited: Nuttall & Warburton (1911: 233).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1216	N	1216
		RML	110073
	<u>Ixodes ugandanus</u>		1 N <u>Ixodes</u> sp.
	Sheep		Sheep
	Ibesha, W. Africa		Ibese, Nigeria (there are four localities with this name)
	7.II.1910		7.II.1910
	J. J. Simpson		J. J. Simpson
	(40c Ent. Res. Cttee)		Cited: Nuttall & Warburton (1911: 233).
N	1217	N	1217
		RML	110074
	<u>Amblyomma tholloni</u> 3 ♂, 1 ♀		3 ♂, 1 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Portuguese Congo		Angola
	Dr. M. Gamble		Dr. Mercier Gamble
	(88 Ent. Res. Cttee. X.1910)		Cited: Robinson (1926: 253).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1218	N	1218
		RML	110075
	<u>Rhipicephalus neavei</u> 2 ♂, 2 ♀		1 ♂, 1 ♀ <u>Rhipicephalus kochi</u>
	Wart-hog		<u>Phacochoerus aethiopicus</u>
	S.W. shore of Lake Nyasa		S.W. shore of Lake Malawi, (13.35 S, 34.20 E), Malawi
	II.1910		II.1910
	(72a Ent. Res. Cttee.)		J. J. Simpson
			Collector's name on vial label. Along with a label stating that these specimens are cotypes of <u>R. neavei</u> .
N	1219	N	1219
		RML	110076
	<u>Hyalomma monstrosum</u> 1 ♂		1 ♂ <u>Nosomma monstrosum</u>
	TYPE		Holotype
	Horse		Horse
	Chin Hills, India		Chin Hills (22.30 N, 93.30 E), Burma
	1907		1907
	Sent by Mr. H. Maxwell-Lefroy (Imperial Entomologist of India)		Sent by Mr. H. Maxwell-Lefroy (Imperial Entomologist of India)
	Dissected and mounted on 4 slides Vide Nuttall & Warburton (I.1908) Proc. Camb. Phil. Soc. XIV, p. 414 figs. 41-45.		Nuttall & Warburton (1908: 414), original description. Schulze (1919: 191) placed this species in the genus <u>Nosomma</u> .
	Chin Hills are in the country between E. Bengal & Burma, just E. of Chittagong		This specimen on four slides: (1) body (2) portion of venter (3) capitulum & spiracle (4) tarsus IV

ORIGINAL DETERMINATIONCURRENT STATUS

N	1220	N	1220
		RML	110077
	<u>Hyalomma monstrosum</u> 1 ♂		1 ♂ <u>Nosomma monstrosum</u>
	Buffalo		Buffalo
	Angul		Angul (20.51 N, 85.06 E), India
	31.VII.1909		31.VII.1909
	Mr. J. L. Bose, Veterinary Assistant at Angul, Bengal		Mr. J. L. Bose, Veterinary Assistant at Angul, Bengal
	Sent by Mr. D. Quinlan to Mr. Howlett		Frank Milburn Howlett (1877-1920) Second Imperial Entomologist of India (1907) and at the time of his death Imperial Pathological Entomologist at Pusa; a Diptera specialist.
			Cited: Warburton (1918: 285); Santos Dias (1958: 493).
N	1221	N	1221
		RML	110078
	<u>Amblyomma integrum</u> 3 ♂, 3 ♀		3 ♂, 2 ♀ <u>Amblyomma integrum</u>
	Buffalo		Buffalo
	Angul		Angul (20.51 N, 85.06 E), India
	31.VII.1909		31.VII.1909
	J. L. Bose		J. L. Bose
	Same lot as 1220		Cited: Robinson (1926: 114).
	1 ♀ to C. Strickland, Malaya		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1222	N	1222
		RML	110079
	<u>Ixodes ugandanus</u> subsp. <u>djaronensis</u> 1 ♀		1 ♀ <u>Ixodes procaviae</u>
	<u>Procavia brucei</u>		<u>Heterohyrax brucei</u>
	Harar, Abyssinia		Harar (09.19 N, 42.09 E), Ethiopia
	V.1901		V.1901
	Dr. Brumpt		Dr. Emile Brumpt
	A second ♀ returned to collector		Cited: Nuttall & Warburton (1911: 233).
	Nuttall & Warburton det. 28.XI.1910		
N	1223	N	1223
		RML	110080
	<u>Haemaphysalis leachi</u> 2♂, 1♀		2 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	<u>Helogale parvula</u>		<u>Helogale parvula</u>
	Harar, Abyssinia		Harar (09.19 N, 42.09 E), Ethiopia
	10.V.1901		10.V.1901
	Dr. Brumpt		Dr. Emile Brumpt
	Returning 2 ♂, 1 ♀ to collector		Cited: Nuttall & Warburton (1915: 469); Hoogstraal (1956b: 169).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1224	N	1224
		RML	110081
	<u>Haemaphysalis calcarata</u> 3 ♂, 2 ♀, 1 N		2 ♂, 1 ♀, 1 N <u>Haemaphysalis calcarata</u>
	<u>Xerus rutilus</u>		<u>Xerus rutilus</u>
	Bio Caboba, Somaliland		Bio Caboba (10.23 N, 42.34 E), Ethiopia
	11.IV.1901		11.IV.1901
	Dr. Brumpt		Dr. Emile Brumpt
	Returning 4 ♂, 2 ♀, 1 N to collector		Cited: Nuttall & Warburton (1915: 444); Hoogstraal (1955a: 362).
N	1225	N	1225
		RML	110082
	<u>Rhipicephalus sanguineus</u> 1 ♀ deformed		1 ♂ <u>Rhipicephalus</u> sp.
	<u>Helogale parvula</u>		<u>Helogale parvula</u>
	Harar, Abyssinia		Harar (09.19 N, 42.09 E), Ethiopia
	10.V.1901		10.V.1901
	Dr. Brumpt		Dr. Emile Brumpt
			This specimen is in a jar marked "Tick Abnormalities". Both catalogue and vial label list this specimen as a ♀ but it is a ♂.
			Nuttall & Warburton (1915: 462) mistakenly listed Nuttall 1225 as <u>H. leachi</u> . The number should read N 1223.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1226

Haemaphysalis inermis 1 ♀

Caucasia

Rec'd 14.XI.1910

Rec'd from Prof. A. Birula
(St. Petersburg)

N 1226

RML 110083

1 ♀ Haemaphysalis inermisKavkaz Region (42.00 N, 45.00 E),
USSR

Rec'd 14.XI.1910

Rec'd from Prof. A. Birula
(St. Petersburg)

Alexi Andreevitsch Bialintzky
Birula (1864-1937). Director of
the Zoological Museum, Leningrad.
Knowledgeable in the systematics
of Hymenoptera, scorpions, and
Solpugida.

This ♀ may be the holotype of H.
inermis - see Birula (1895: 360),
original description. Nuttall &
Warburton (1915: 366).

N 1227

Ixodes signatus 1 ♀

Unalaska

Rec'd 14.XI.1910

Rec'd from Prof. A. Birula
(St. Petersburg)

N 1227

RML 110084

1 ♀ Ixodes signatusUnalaska Island (53.45 N, 166.45 W),
Aleutian Islands, Alaska, USA

Rec'd 14.XI.1910

Rec'd from Prof. A. Birula
(St. Petersburg)

This ♀ is probably one of the
type series - see Birula (1895:
357), original description. Cited:
Nuttall & Warburton (1911: 264);
Keirans & Clifford (1978: 143).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1228	N	1228
	<u>Amblyomma integrum</u> 2 ♂	RML	22311
	Domesticated buffalo		2 ♂ <u>Amblyomma integrum</u>
	Talawa, Ceylon		Domesticated buffalo
	XI.1910		Talawa, Sri Lanka (There are 5 possible localities in Sri Lanka with the name Talawa).
	E.E. Green		XI.1910
	(Sent by C. Warburton)		E.E. Green
			Cited: Robinson (1926: 114).
N	1229	N	1229
	<u>Amblyomma integrum</u> 2 ♀	RML	110085
	Wild buffalo		2 ♀ <u>Amblyomma integrum</u>
	Hambantota, Ceylon		Wild buffalo
	XI.1910		Hambantota, (06.07 N, 81.07 E), Sri Lanka
	E.E. Green		XI.1910
	(Sent to C. Warburton)		E.E. Green
			Cited: Robinson (1926: 114).

The collection of ticks sent by Mr. E.E. Green, F.E.S. (Government Entomologist, Peradiniya, Ceylon) also contained the following, which have been returned to him. They were determined by Mr. Warburton, VII, 1910: - 24, 37.) Haemaphysalis bispinosa (mostly immature), from horse, Peradiniya, VII.1909.----2525). Aponomma laeve var. paradoxum and Aponomma gervaisi, from body of cobra, Kandy, XI.1909---2620). Amblyomma sublaeve, from Pangolin (Manis pentadactyla), Peradiniya, III.1910--2716.) Aponomma gervaisi var. lucasi from Monitor (Varanus salvator), Peradiniya, V.1910---2730) Gamasid mites, from rat-snake (Zamenis mucosus) Kandy, VII.1910---No number) Aponomma laeve var. paradoxum from cobra, Peradeniya, Date ? 1910. No number). Amblyomma testudinarium, ♂ found at large, Haldamulla, ? 1910.

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
N 1230a-c	N 1230 b,c
	RML 110086
(a) <u>Boophilus annulatus</u> ♂'s, ♀'s	(a) MISSING
(b) <u>Boophilus annulatus</u> ♀ with eggs	(b) 1 ♀ <u>Boophilus annulatus</u>
(c) <u>Boophilus annulatus</u> larvae	(c) 142 L <u>Boophilus annulatus</u>
Cow	Cow
Experiment Station, Georgia, USA	Experiment Station, Georgia, USA
(a) 11.VII.1910	(a) 11.VII.1910
(b) eggs laid about 25.X.1910	(b) eggs laid about 25.X.1910
(c) larvae hatched about 10.IX.1910	(c) larvae hatched about 10.IX.1910
Rec'd. 20.XI.1910 from Mr. L.J. Herring, Animal Pathologist and Veterinarian.	Rec'd. 20.XI.1910 from Mr. L.J. Herring, Animal Pathologist and Veterinarian.
(det. confirmed G.H.F.N.)	
N 1231	N 1231
	RML 110087
<u>Dermacentor rhinocerotis</u> 2♂, 1♀	1 ♂, 1 ♀ <u>Dermacentor rhinocerinus</u>
Rhinoceros	<u>Diceros bicornis</u>
Mpele River, Marimba District, Nyasaland	Mpele River (13.07 S, 33.47 E), Malawi
2.VII.1910	2.VII.1910
Dr. E.H.A. Pask	Dr. E.H.A. Pask
(98 Ent. Res. Com.)	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1232	N	1232
	<u>Amblyomma tholloni</u> 2♂, 1♀, 1N	RML	110088
	Elephant		2 ♂, 1 ♀, 1 N <u>Amblyomma tholloni</u>
	Marimba District, Nyasaland		<u>Loxodonta africana</u>
	XII.1909		Marimba District (11.30 S, 33.30 E), Malawi
	Dr. H.S. Stannus		XII.1909
	(120 Ent. Res. Com.)		Dr. H.S. Stannus
			Cited: Robinson (1926: 253).
N	1233	N	1233
	<u>Aponomma gervaisi</u> ♂'s, ♀'s	RML	110089
	Dried skin of undetermined snake		4 ♂, 1 ♀ <u>Aponomma gervaisi</u>
	Matale, Ceylon		Dried skin of undetermined snake
	I.1911		Matale (07.28 N, 80.37 E), Sri Lanka
	E.E. Green		I.1911
			E.E. Green
N	1234	N	1234
	<u>Aponomma transversale</u> 2N COTYPES	RML	110090
	Patria ignota, Paris museum		2 N <u>Aponomma transversale</u>
	1904, G. Neumann det. 1906, Rec'd 1910		Country unknown, Paris museum
			1904, G. Neumann det. 1906, Rec'd 1910
			These are not type specimens although there is a blue COTYPE label in the vial, det. Neumann, 1906.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1235

N 1235

RML 110091

Rhipicephalus appendiculatus ♂'s, ♀'s3 ♂, 1 ♀ Rhipicephalus appendiculatus

Cape Colony, South Africa

Cape Colony, Republic of South Africa

Rec'd 10.VII.1910

Rec'd 10.VII.1910

Rec'd from Mr. C.P. Lounsbury

Rec'd from Mr. C.P. Lounsbury

Raised from nymphs, died unfed
 "Lot 1" used for infecting cow
 with East Coast Fever.

N 1236

N 1236

RML 110092

Ornithodoros savignyi1 ♂, 1 ♀, 2 N Ornithodoros savignyi

Found in sand (crawling up
 a horse's leg)

Found in sand (crawling up a horse's leg)

Near European Rest Camp at the
 village of Burgo, on the road
 from Geidam to Maidugari

Near European Rest Camp at the village of
 Burgo (12.39 N, 12.17 E), on the road from
 Geidam (12.53 N, 11.56 E), to Maidugari
 (10.54 N, 11.44 E), Nigeria

V.1910

V.1910

Sent by Dr. Pirie from North
 Borneo, Northern Nigeria, Africa

Sent by Dr. Pirie from North Borneo,
 Northern Nigeria, Africa

(Ent. Res. Com. 125)

ORIGINAL DETERMINATIONCURRENT STATUS

N 1237

N 1237 MISSING

Ixodes hexagonus ♂ on slideForêt de la Londe, Seine
Inférieure, France

Presented 17.II.1911

ex Simon collection

Presented by Prof. L.G. Neumann
out of his collection (lot 719,
the same as that containing the
♂ figured in Ticks Part II).
(N.B. no ♂ in London, Paris,
and Berlin Mus!).

Ticks received from the Indian Museum, Calcutta, July 6, 1910. Sent to Mr. Shipley and determined by Mr. Warburton. (Received unnumbered, but the letters A - O, were given by Mr. Warburton): -

- (A,B) Argas reflexus var. indicus, 2 ♂'s, from leaves of books in Museum, Hissar, Punjab, Calcutta.
- (C.) Argas persicus, 2 ♂, from leaves of books in Museum, Hissar, Punjab, Calcutta.
- (D.) Amblyomma sublaeve, off Manis aurita, Kakhylen Hills, Chinese Frontier, Upper Burma.
- (E.) Argas vespertilionis, larva, off Vespertilio muricata, Calcutta.
- (F.) Rhipicephalus sanguineus, off dog, Hissar, Punjab.
- (G.) Ixodes gigas, 1 ♂, off?, near Darjiling, E. Himalayas, 7-8,000 ft., India.
- (H.) Haemaphysalis sp. (mutilated), off Gallus sonneratii, Shevaroy Hills, S. India
- (I.) Boophilus sp.? larva. No data.
- (J.) Argas reflexus var. indicus, found in basin of water, Entomological room in Museum, Calcutta.
- (K.) Trombidium sp., nymphs, host?, Simla, W. Himalayas.
- (L.) Acari (Erythraeidae)
- (M.) Ornithodoros lahorensis, off sheep, Lahore, Punjab.
- (N.) Argas persicus off?, Punjab.
- (Na.) Rhipicephalus sanguineus
- (O.) Cephalothoras of Attid spider, Tonglu, Darjiling District, 10,000 ft.

Ticks received from the Indian Museum, Calcutta, 1.XII.1910.

- 915
17. Argas persicus, off domestic poultry, Cape Town. C. Fuller.
- 916
17. Argas persicus, larva, off?, Calcutta. C. Paiva.
- 917
17. Haemaphysalis bispinosa, off? Katihar, Purneah District, N. Bengal. C. Paiva
- 918
17. Hyalomma aegyptium ♀ } found in long
Rhip. haemaphysaloides } grass. Bangalore, S. India, 3,000 ft. Dr. N. Annandale
- 919
17. Argas persicus, off domestic poultry, Bombay, P. Phipson.
- 818
17. Boophilus australis, off? Darjiling, E. Himalayas.
819&819a Boophilus australis }
17.a) Rhip. sanguineus } off dog and cattle, Puri, Orissa Coast.
- 820
17. Hyalomma aegyptium, off?, Dumtaon, Bengal.
- 821
17. Rhipicephalus sanguineus, off dog, Monghyr, Bengal.
- 822
17. Hyalomma aegyptium ♀, off dog, Dumka, Bengal.
- 823
17. Hyalomma aegyptium, off bullock, Buxar, Bengal.
- 824
17. Hyalomma aegyptium, off?, Durbhunya, Bengal.
- 825 & 826
17 17. Rhipicephalus sanguineus, off dog, Bhagulpur, Bengal.
- 827
17. Hyalomma aegyptium, off dog, Gaya, Bengal.
- 828 Hyalomma aegyptium }
17.a) Rhip. sanguineus } off? North Bhagulpur, Bengal
- 829 Rhipicephalus sanguineus ♀ }
17.a) Boophilus australis ♀ } off? Gaya, Bengal
- 830
17. Hyalomma aegyptium, off? Gaya, Bengal.
- 831
17. Hyalomma aegyptium, off bullock, Gaya, Bengal.

- 832 Hyalomma aegyptium }
17.a) Boophilus australis } off goat, Angul, Bengal.
- 833
17. Rhipicephalus sanguineus, off cattle, Angul, Bengal.
- 834
17. Hyalomma aegyptium, off? Bhagulpur, Bengal.
- 835 Hyalomma aegyptium }
17.a) Rhipicephalus haemaphysaloides } off?, Larpur, Bengal.
- 836
17. Hyalomma aegyptium, off sheep and goat, Larpur, Bengal.
- 837 Hyalomma aegyptium }
17.a) Rhipicephalus haemaphysaloides } off?, Larpur, Bengal.
b) Boophilus australis
- 838
17. Rhipicephalus haemaphysaloides, ♀, off horse, Purulia, W. Bengal.
- 839
17. Rhipicephalus sanguineus, ♀, off dog, Purulia, W. Bengal.
- 840
17. Rhipicephalus sanguineus, ♀, off dog, Purulia, W. Bengal.
- 841
17. Rhipicephalus haemaphysaloides, off goat, Sahibganj, Bengal.
- 842
17. Boophilus australis, off bullock, Purulia, Bengal.
- 843
17. Boophilus australis, off? Sahibganj, Bengal.
- 844
17. Rhipicephalus sanguineus, off? Sahibganj, Bengal.
- 846
17. Aponomma gervaisi var. lucasi, off Varanus salvator, Peradeniya, Ceylon.
- 847
17. Haemaphysalis hystricis, ♀, off?, Kandy, Ceylon.
- 848
17. Amblyomma testudinarium, ♀, off?, Peradeniya, Ceylon
- 849
17. Haemaphysalis sp., nymph, off?, Peradeniya, Ceylon.

Report on a Collection of Ticks received from Dr. Brumpt, Paris, France, July 27, 1910. Their determinations, together with all the data obtainable, are as follows:

- 1a.) Haemaphysalis calcarata 1 ♂,
 - 1b.) Hyalomma aegyptium o
 - 1c.) Rhipicephalus oculatus ♀
- probably off Xerus rutilus, Biacobaba, Somaliland, IV.1901.
- 2a.) Haemaphysalis leachi ♂, ♀
 - 2b.) Rhipicephalus simus ♂
- off Canis mesomelas, Harar, Abyssinia
- 3.) Hyalomma aegyptium, 1♂, off ? , Biacobaba, Somaliland, 10.IV.1909
 - 4.) Amblyomma variegatum, 1 o, off man, Kankan, Guinea, 10.VI.1909 (Dr. Yoyeus coll.)
 - 5.) Rhipicephalus sanguineus, ♀'s, probably on dog in my room at Djibouti, (Miss du Bourg), II.1901
 - 6.) Boophilus australis, ♀'s, off cattle, Ivory Coast, (M. Fillassier coll.), II.1909
 - 7.) Rhipicephalus sanguineus, ♀'s, o's, Macroscelides roseti, Oran, Algeria
 - 8.) Boophilus australis, ♀'s, off cattle, Ivory Coast, II.1909 (M. Fillassier coll.)
(Nos. 9a, 9b & 9c. Not entered, owing to lack of data)
 - 10a.) Amblyomma variegatum, ♂♀
 - 10b.) Boophilus australis, ♀'s
- off cattle, Kankan, Guinea (Dr. Yoyeuse coll.)
- 11a.) Amblyomma variegatum ♀'s
 - 11b.) Rhipicephalus evertsi, ♀
- off cattle, Harar, Abyssinia, V.1901
- 12.) Rhipicephalus sanguineus, ♀, off ?, Gueldessa, Somaliland
 - 13.) Rhipicephalus sanguineus, ♂♀, off dog, Tunis. Sent by Dr. Blaizot
 - 14.) Rhipicephalus oculatus, ♂♀, off Strepsiceros imberbis, Herrer Valley, Abyssinia, VI.1901. (Mission du Bourg)
 - 15.) Rhipicephalus simus, ♂, off native dog, Abba-Quelle, Congo
 - 16.) o, off Arvicola arvalis, near Paris, (M. Bessin coll.)
 - 17.) Rhipicephalus sanguineus, ♀, off dog, Djibouti, Somaliland, I.1906
 - 18.) Ixodes ricinus, ♂ and o's, off hedgehog, Chantilly, France, winter of 1910
 - 19.) Ixodes hexagonus, ♀, off hedgehog, near Paris, Date?, (M. Bessin coll.)
 - 20a.) Amblyomma variegatum, ♂♀ (bad condition) off cattle, Djubouti, Somaliland,
 - 20b.) Hyalomma aegyptium, ♀'s (bad condition) II.1901 (Mission du Bourg)
 - 21.) Amblyomma variegatum, ♂♀, off cow, Grand Popo, Dahomey
 - 22.) Hyalomma syriacum, ♂♀, off Testudo graeca. No locality, etc.

(Dr. Brumpt's collection continued)

- 23.) Dermacentor reticulatus, ♂, off deer, Chantilly, France, X.1909.
- 24a.) Hyalomma aegyptium ♂♀,
24b.) Rhipicephalus sanguineus, ♂♀ } off dog, Djibouti, Somaliland, I.1901. (Dr. E. Brumpt coll.)
- 25a.) Rhipicephalus sanguineus, ♂♀ }
25b.) Hyalomma aegyptium, ♀, } off dog, Kankan, Guinea (Dr. Yoyeux coll.)
- 26.) Rhipicephalus pulchellus, ♂♀, off zebra (Equus grevyo), Mt. Finke, Moulou, Gallaland
- 27.) Amblyomma marmoreum, ♂♀, off land tortoise, sp.?, Artaud, Somaliland
- 28.) Amblyomma gemma (Dönitz), ♂, off Phacocherus aethiopicus africanus, Sagak, Somaliland, 11.VII.1901.
- 29.) Amblyomma marmoreum, ♂♀, off , Guedessa, Somaliland.
- 30.) Hyalomma aegyptium, ♂♀, probably off cattle, Oran, Algeria.
- 31.) Ixodes ricinus, 1♀, off roe-deer, Halles, Paris, X.1908.
- 32.) Ixodes ricinus, ♂♀, off deer, Chantilly, France, X.1909.
- 33.) Ixodes ricinus, ♂♀, off roe-deer, Halles, Paris, X.1908.
- 34.) Ixodes ricinus, ♂♀♂, off deer, Chantilly, France, XI.1909.
- 35.) Ixodes ricinus, off hedgehog, Chantilly, France, X.1909.

The following ticks were received from Dr. Brumpt, Paris on October 20th, 1910:

- A.) Haemaphysalis leachi, ♂'s, ♀*♂, off Hyaena crocuta, Harar, Abyssinia V.1901.
- A1.) Rhipicephalus simus, ♂'s, off Hyaena crocuta, Harar, Abyssinia, V.1901.
- B.) Ixodes ugandanus var. djaronensis, off Procavia brucei, Harar, Abyssinia, V.1901 (= N. 1222)
- C.) Haemaphysalis leachi (small variety), off Procavia brucei and Procavia abyssinica, Harar, Abyssinia, (= N. 1223)
- D.) Rhipicephalus sp., off Helogale parvula, Harar, Abyssinia (= N. 1225).
- E.) Haemaphysalis calcarata, probably off Xerus rutilus, Biacobaba, Somaliland, IV.1901.

Rhipicephalus sanguineus ♂'s, ♀'s off hounds, Simla, 16.XII.1907, Col. H.T. Pease.
The hounds suffering from piroplasmosis - also from Hissar, 1908 off wild boar.

Haemaphysalis bispinosa off lion, Gaur Forest Kathiawar, 11.III.1909.

Hyalomma aegyptium ♂'s, ♀'s off buffalo with Nos. 1220 & 1221.

All of these were brought to us for identification by Mr. Howlett,
2nd Imperial Entomologist to the Govt. of India X-XI.1910

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1238	N	1238
	<u>Aponomma exornatum</u> 1♂, 1♀	RML	110093
	Water lizard		1 ♂, 1 ♀ <u>Aponomma exornatum</u>
	Kibango Bay, Victoria, Nyanza		Water lizard
	Presented 21.II.1911		Kibanga Bay (00.07 N, 33.19 E), Uganda
	Dr. McConnell		Presented 21.II.1911
	Presented by Prof. R. Newstead G.H.F.N. det.		Dr. McConnell
N	1239	N	1239
	<u>Ixodes hexagonus</u> 1♀ 2/3 gorged	RML	110094
	Polecat		1 ♀ <u>Ixodes hexagonus</u>
	Somerset		<u>Mustela putorius</u>
	Sent alive 2.III.1911		Somerset (51.05 N, 03.00 W), England
	Mr. W. Farren (Naturalist, Cambridge)		Sent alive 2.III.1911
			Mr. W. Farren (Naturalist, Cambridge)
			Cited: Nuttall (1916 : 328).
N	1240	N	1240
	<u>Ixodes hexagonus</u> ♀'s, N's	RML	110095
	Ferret		2 ♀, 6 N <u>Ixodes hexagonus</u>
	Histon, Cambs.		<u>Mustela furo</u>
	13.III.1911		Histon (52.15 N, 00.06 E), Cambs. England
	C. Warburton		13.III.1911
			C. Warburton
			Cited: Nuttall (1916: 327).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1241	N	1241
		RML	110096
	<u>Ixodes hexagonus</u> ♂! gorged Ls, 1 N		1 ♂, 1 N, 5 L <u>Ixodes hexagonus</u>
	Hedgehog's nest		Nest of <u>Erinaceus europaeus</u>
	Histon, Cambs.		Histon (52.15 N, 00.06 E), Cambs., England
	6.III.1911		6.III.1911
	C. Warburton		C. Warburton
			The vial label incorrectly gives the Nuttall number as N 1141a; cited: Nuttall (1916: 327).
N	1242	N	1242
		RML	110097
	<u>Ornithodoros lahorensis</u> 1 N		1 N <u>Ornithodoros lahorensis</u>
	Sheep		Sheep
	Lahore, Punjab		Lahore (31.35 N, 74.18 E), Pakistan
	(Civil Veterinary Dept., Punjab)		Civil Veterinary Dept., Punjab
	Indian Museum coll., Calcutta, ex $\frac{810}{17}$		
N	1243	N	1243
		RML	110098
	<u>Argas reflexus</u> var. <u>indicus</u> 1 ♂, 1 ♀, 1 N TYPES		1 ♂, 1 ♀, 1 N <u>Argas reflexus indicus</u>
	Found in basin of water		Found in basin of water
	Entomological room, Indian Museum, Calcutta, India		Entomological room, Indian Museum, Calcutta (22.32 N, 88.22 E), India
	13.IV.1910		13.IV.1910
	F. H. Gravely		F. H. Gravely
			Warburton (1910: 396), original description. Keirans & Brewster (1981: 154) discussed the type status of these specimens.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1244	N	1244
	<u>Aponomma laeve</u> var. <u>paradoxum</u> Warb (in lit) 1 ♂, 2 ♀, 1 N TYPES	RML	110099
	Cobra		1 ♂, 2 ♀, 2 N <u>Aponomma pattoni</u>
	Peradeniya, Ceylon		<u>Naja</u> sp.
	14.VI.1910		Peradeniya (07.15 N, 80.36 E), Sri Lanka
	Sent by E.E. Green		14.VI.1910
			Sent by E.E. Green
			Wall (1921: 186) published the name <u>Aponomma laeve paradoxum</u> [nomen nudum] Based on information from Nuttall pertain- ing to these specimens.
N	1245	N	1245
	<u>Aponomma laeve</u> var. <u>paradoxum</u> Warb. (in lit) 2♂, 1N, 3L	RML	110100
	Cobra		2 ♂, 1 N <u>Aponomma pattoni</u>
	Kandy, Ceylon		<u>Naja</u> sp.
	XI.1909		Kandy (07.18 N, 80.38 E), Sri Lanka
	Sent by E.E. Green		XI.1909
			Sent by E.E. Green

The Indian Museum (Calcutta) also contains:-

$\frac{998}{17}$ Hyalomma aegyptium 1 ♀, from Mowai, Bara Banki, United Province of Agra and Oudh, 13.X.1910 M.M.Khan Determined by C. Warburton

$\frac{999}{17}$ Haemaphysalis bispinosa, 1 ♀, off buffalo, Kolassy Factory, Purneah District, N. Bengal, XI.1910, L.R. Paiva. Determined by C. Warburton

Ticks received from the Indian Museum, Calcutta (per Dr. N. Annandale). 1.April. 1910, and determined by Mr. C. Warburton:-

$\frac{1069}{17}$ Rhipicephalus sanguineus nymph, off?, Katihar, Purneah District, N. Bengal. C.A. Paiva.

$\frac{1070}{17}$ Amblyomma testudinarium, ♀, off?, Assam-Bhutan Frontier, Mangaldai District, NE

$\frac{1071}{17}$ Boophilus australis, ♀, off a cow, Bengal Veterinary College, Belgatchia, Calcutta

$\frac{1072}{17}$ Gamasid mites, sp.?, off?, near Darjiling, E. Himalayas, 7-8000 ft. R.B. Horsfall.

$\frac{1073}{17}$ Boophilus australis ♀, off cow, Berhampur Court, Murshidabad Dist., Bengal, Major Robertson-Milne.

$\frac{1074}{17}$ Rhipicephalus sanguineus, off dog, Berhampur Court, Murshidabad District, Bengal. Major Robertson-Milne.

Two tubes belonging to the Sarawak Museum, as follows:

$\frac{SM}{16}$ Amblyomma testudinarium, ♀, off?, from Matang, IV.1904, R.S. Coll.

$\frac{SM}{17}$ Amblyomma decoratum, ♀, No particulars in tube.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1246

N 1246

RML 110101

Rhipicephalus pravus
COTYPES3 ♂, 2 ♀ Rhipicephalus pravus Syntypes

Oryx - antelope

Oryx beisaSouthern borders of the Massai-
Steppe, German East AfricaSouthern borders of the Massai Steppe,
Tanzania

Presented IV.1911

Presented IV.1911

Presented by Prof. W. Dönitz

Presented by Prof. W. Dönitz

Dönitz (1910a: 479), original descrip-
tion. Yeoman & Walker (1967: 146).

N 1247

N 1247

RML 87012

Haemaphysalis japonica 2 ♂2 ♂ Haemaphysalis japonica
Lectotype and paralectotypeNemorrhaedus crispusCapricornis crispus

Hondo, Japan

Hondo (32.27 N, 130.12 E), Kyushu, Japan

Received IV.1911

Received IV.1911

Received from Mr. A. Hirst,
British Museum, London

The Duke of Bedford's collector

Warburton (1908: 512), original de-
scription; Nuttall & Warburton (1915:
403). gave the collector cited above.
Lectotype designated: Keirans & Brew-
ster (1981: 162).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1248	N	1248
		RML	110102
	<u>Haemaphysalis japonica</u> var. <u>douglasi</u> 2 ♂		1 ♂ <u>Haemaphysalis japonica douglasi</u> Lectotype
	Roe-deer		<u>Capreolus capreolus</u>
	Yen-an-fu, Shensi, North China		Yen-An (36.38 N, 109.27 E), Shensi, Peoples Republic of China
	Rec'd IV.1911		19.V.1909
	Captain H.E.M. Douglas		Captain H.E.M. Douglas
	Rec'd from Mr. A.S. Hirst British Museum, London		Nuttall & Warburton (1915: 403), original description. They gave the locality as Ten-an-fu, Shiensi and the date of collection as 19.V.1909. The BM(NH) general tick collection contains 7 ♂ specimens (paralectotypes) of <u>H. japonica douglasi</u> from N 1248. Lectotype designated: Keirans & Brewster (1981: 162).
N	1249	N	1249
		RML	110103
	<u>Rhipicephalus haemaphysaloides</u> ♀'s		4 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Domestic cattle		Domestic cattle
	Panniar, Tranvancore, Western Ghants, S. India (alt 4,400 ft)		Panniar (26.06 N, 78.02 E), Kerala, India (alt. 1341 m)
	20-30.XII.1910		20-30.XII.1910
	E. R. Howlett		E. R. Howlett
	("colour, when alive, lightish brown, underside dirty-silver") C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1250	N	1250
		RML	110104
	<u>Boophilus annulatus</u> ♀'s		17 ♀ <u>Boophilus microplus</u>
	Domestic cattle		Domestic cattle
	Panniar, Travancore, Western Ghats, S. India (alt 4,400 ft)		Panniar (26.06 N, 78.02 E), Kerala, India
	20.XII.1910-27.I.1911		20.XII.1910-27.I.1911
	E. R. Howlett		E. R. Howlett
	G.H.F.N. det.		
N	1251a-c	N	1251a-c
		RML	(a) 71501, (b) 87419, (c) 110105
	(a) <u>Haemaphysalis proxima</u> 1 ♀		(a) 1 ♀ <u>Haemaphysalis shimoga</u>
	(b) <u>Haemaphysalis campanulata</u> 3 ♂		(b) 1 ♂ <u>Haemaphysalis campanulata</u>
	(c) <u>Amblyomma</u> sp. L (gorged)		(b) 1 ♂ <u>Haemaphysalis sambar</u> HOLOTYPE
			(c) 1 L <u>Amblyomma</u> sp.
	Sambhur deer		<u>Cervus unicolor</u>
	Satharangapara, Travancore, S. India (alt. 3000 ft)		Probably Chathurangapara (09.53 N, 77.13 E), Kerala, India (±3,625 ft; ±1105 m)
	10.I.1911		10.I.1911
	E. R. Howlett		E. R. Howlett
	C.W. det		Hoogstraal (1971a: 173), original description of <u>H. sambar</u> . Trapido et al (1964b: 266) were unable to locate the <u>H. campanulata</u> collection at the BMNH.

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1252 a, b	N	1252 a, b
		RML	110106
	(a) <u>Boophilus annulatus</u> ♂'s, ♀'s		(a) 1 ♂, 7 ♀, 2 N <u>Boophilus microplus</u>
	(b) <u>Hyalomma aegyptium</u> ♂, ♀, N		(b) MISSING
	Cattle		Cattle
	Travancore		Kerala State (09.00 N, 77.00 E), India
	5.III.1911		5.III.1911
	T. Karunai, sent by E.R. Howlett		T. Karunai, sent by E.R. Howlett
	G.H.F.N. det.		
N	1253a, b	N	1253a, b
		RML	72831
	(a) <u>Haemaphysalis bispinosa</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Haemaphysalis bispinosa</u>
	(b) <u>Rhipicephalus sanguineus</u> ♀'s		(a) 1 ♂ <u>Haemaphysalis intermedia</u>
			(b) 5 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Travancore		Kerala State (09.00 N, 77.00 E), India
	7.III.1911		7.III.1911
	T. Karunai, sent by E.R. Howlett		T. Karunai, sent by E.R. Howlett
	C.W. det.		(a) Cited: Nuttall & Warburton (1915: 432).
N	1254	N	1254
		RML	110107
	<u>Boophilus annulatus</u> ♀'s		10 ♀ <u>Boophilus microplus</u>
	calf		Calf
	Rangoon		Rangoon (16.47 N, 96.10 E), Burma
	18.X.1910		18.X.1910
	Rec'd. from H.H. Marshall		Rec'd. from H.H. Marshall
	G.H.F.N. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1255	N	1255
	<u>Rhipicephalus sanguineus</u> ♂, ♀	RML	110108
	Native dog		12 ♂, 17 ♀ <u>Rhipicephalus sanguineus</u>
	Rangoon		Native dog
	1910		Rangoon (16.47 N, 96.10 E), Burma
	Rec'd from H.H. Marshall		1910
	C.W. det		Rec'd from H.H. Marshall
			Vial label gives the following collection data: Native..... Rangoon, India 1911
N	1256	N	1256
	<u>Rhipicephalus sanguineus</u> 3 ♂, many gorged ♀'s	RML	110109
	Sheep		3 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Hammam-Meskoutine, Algeria		Sheep
	V.1911		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	M. Paul Dechabert		V.1911
	(Rec'd 28.V.1911)		M. Paul Dechabert
N	1257	N	1257
	<u>Rhipicephalus bursa</u> 5♀, partly gorged	RML	110110
	Sheep		5 ♀ <u>Rhipicephalus bursa</u>
	Hammam-Meskoutine, Algeria		Sheep
	V.1911		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	M. Paul Dechabert		V.1911
	(very punctate) (Rec'd 28.V.1911)		M. Paul Dechabert

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1258	N	1258
	<u>Hyalomma aegyptium</u> ♀'s gorged	RML	110111
	Sheep		14 ♀ <u>Hyalomma marginatum</u>
	Hammam-Meskoutine, Algeria		Sheep
	V.1911		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	M. Paul Dechabert		V.1911
	(Rec'd 28.V.1911)		M. Paul Dechabert
N	1259	N	1259 MISSING
	<u>Argas reflexus</u> 1 ♂		
	Rec'd 28.V.1911		
	Gift of Mr. E. G. Wheeler, rec'd by him from Prof. L. G. Neumann (Toulouse) 1901		
	Mounted on slide		
	Ticks presented by Dr. Henrique de Beaurepaire Aragão of Rio de Janeiro, Brazil, May 1911; all det'd by Aragão.		
N	1260	N	1260
	<u>Argas persicus</u> ♂'s, ♀'s, N's	RML	110112
	Chicken coops		10 ♂, 7 ♀, 12 N <u>Argas miniatus</u>
	Rio de Janeiro		Chicken coops
	4.III.1911		Rio de Janeiro (22.54 S, 43.14 W), Brazil
	Presented by Dr. H. de B. Arãgao		4.III.1911
			Presented by Dr. H. de B. Arãgao
			Ten of the nymphs are in a separate vial.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1261	N	1261
		RML	110113
	<u>Amblyomma cooperi</u> ♂'s, ♀'s		3 ♂, 8 ♀ <u>Amblyomma cooperi</u>
	<u>Hydrochoerus capibara</u>		<u>Hydrochoerus hydrochaeris</u>
	Estado de S. Paulo, Brazil		Estado de São Paulo (22.00 S, 49.00 W), Brazil
	XII.1909		XII.1909
	Presented by Dr. H. deB. Aragão		Presented by Dr. H. deB. Aragão
	(Ref. Nos. 2040-50)		The above total includes 1 ♂, 1 ♀ pinned
N	1261x	N	1261x MISSING
	<u>Amblyomma humerale</u> ♂, ♀ (pinned)		These pinned specimens (2 ♂, 2 ♀) are now in the BMNH collection.
	Rio Xingu, State of Pará, Brazil		
	Presented by Dr. H. deB. Aragão		
	(Ref. Nos. 255-256)		
N	1262	N	1262 MISSING
	<u>Amblyomma braziliense</u> ♂, ♀ (pinned)		These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection.
	<u>Dicotyles torquatus</u>		
	Habira do Matto Dentro, Brazil		
	21.VII.1908		
	Presented by Dr. H. deB. Aragão		
	(Ref. Nos. 1359, 1363)		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1263	N	1263
			RML 110114
	<u>Amblyomma ovale</u> ♂, ♀ (pinned)		1 ♂, 1 ♀ <u>Amblyomma ovale</u> pinned
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Pirauba, State of Minas, Brazil		Pirauba (21.17 S, 43.02 W), Estado de Minas Gerais, Brazil
	21.VII.1907		21.VII.1907
	Presented by Dr. H. deB. Aragão (Ref. Nos. 313, 426)		Presented by Dr. H. deB. Aragão Cited: Robinson (1926: 29).
N	1264	N	1264 MISSING
	<u>Amblyomma concolor</u> ♂, ♀ (pinned)		These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection. They are <u>Amblyomma pseudoconcolor</u> .
	<u>Dasypus</u> sp.		
	Remanso, State of Bahia, Brazil		
	11.I.1908		
	Presented by Dr. H. deB. Aragão (Nos. 867, 868)		
N	1265	N	1265 MISSING
	<u>Amblyomma incisum</u> ♂ (pinned)		This pinned ♂ is now in the BMNH collection.
	<u>Tapirus americanus</u>		
	São Luiz do Parahytinga, State of S. Paulo, Brazil.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1266	N	1266
		RML	110115
	<u>Amblyomma cajennense</u> 1 ♂, 1 ♀ (pinned)		1 ♂, 1 ♀ <u>Amblyomma cajennense</u> (pinned)
	<u>Hydrochoerus capibara</u>		<u>Hydrochoerus hydrochaeris</u>
	State of Minas, Brazil		Estado de Minas Gerais (18.00 S, 44.00 W), Brazil
	21.VII.1908		21.VII.1908
	Presented by Dr. H. deB. Aragão (Nos. 1364, 1365)		Presented by Dr. H. deB. Aragão Cited: Robinson (1926: 53).
N	1267	N	1267 MISSING
	<u>Amblyomma mantiqueirense</u> ♂, ♀ (pinned)		These pinned specimens (1 ♂, 1 ♀) are now in the BMNH collection. They are <u>Amblyomma naponense</u> .
	<u>Dicotyles</u> sp.		
	State of Rio, Brazil		
	Presented by Dr. H. deB. Aragão (Nos. 1547, 1548)		
N	1268	N	1268
		RML	110116
	<u>Amblyomma dissimile</u> ♂, ♀ (pinned)		1 ♂, 1 ♀ <u>Amblyomma dissimile</u> (pinned)
	Iguana sp.		Iguana sp.
	State of Para, Brazil		Estado do Pará (04.00 S, 53.00 W), Brazil
	IV.1908		IV.1908
	Presented by Dr. H. deB. Aragão (Nos. 1611, 1611)		Presented by Dr. H. deB. Aragão Cited: Robinson (1926: 167).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1269	N	1269
	<u>Amblyomma nodosum</u> ♂ (pinned)	RML	110117
	<u>Myrmecophaga joubata</u>		1 ♂ <u>Amblyomma nodosum</u> (pinned)
	Lassance, State of Minas, Brazil		<u>Myrmecophaga tridactyla</u>
	1908		Lassance (17.54 S, 44.34 W), Estado de Minas Gerais, Brazil
	Presented by Dr. H. deB. Aragão (No. 1648)		1908
			Presented by Dr. H. deB. Aragão
			Cited: Robinson (1926: 199).
N	1270	N	1270 MISSING
	<u>Amblyomma maculatum</u> ♀ (pinned)		This pinned ♀ is now in the BMNH collection. It is <u>Amblyomma</u> <u>tigrinum</u> .
	<u>Canis familiaris</u>		
	Avare, State of S. Paulo, Brazil		
	28.IV.1908		
	Presented by Dr. H. deB. Aragão (No. 1249)		
N	1271	N	1271
	<u>Amblyomma ovale</u> ♂, ♀ (pinned)	RML	110118
	<u>Canis familiaris</u>		1 ♂, 1 ♀ <u>Amblyomma striatum</u>
	Cantagallo, State of Rio de Janeiro		<u>Canis familiaris</u>
	4.III.1908		Cantagalo (21.58 S, 42.22 W), Estado do Rio de Janeiro, Brazil
	Presented by Dr. H. deB. Aragão (Nos. 1115, 1116)		4.III.1908
			Presented by Dr. H. deB. Aragão
			These specimens are not pinned.
			Cited: Robinson (1926: 29).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1272	N	1272
		RML	110119
	<u>Rhipicephalus sanguineus</u> ♂, ♀ (pinned)	1 ♂, 1 ♀	<u>Rhipicephalus sanguineus</u> (pinned)
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	State of Bahia, Brazil		Estado da Bahia (12.00 S, 42.00 W), Brazil
	XII.1909		XII.1909
	Presented by Dr. H. deB. Aragão (Nos. 1098, 1099)		Presented by Dr. H. deB. Aragão
N	1273	N	1273 MISSING
	<u>Boophilus microplus</u> ♂, ♀ (pinned)		
	<u>Bos taurus</u>		
	Manguinhos, Brazil		
	Presented by Dr. H. deB. Aragão (Nos. 1316, 1317)		
N	1274	N	1274
		RML	110120
	<u>Haemaphysalis hystricis</u> 1 ♂ (pinned)	1 ♂	<u>Haemaphysalis hystricis</u> (pinned)
	Occurs on dog and tiger		Dog
	Sumatra		Sumatra, Indonesia
	Presented 30.V.1911		Presented 30.V.1911
	Presented by Prof. W. Dönitz		Presented by Prof. W. Dönitz
			Tentative ID
			Nuttall & Warburton (1915: 425) listed the host as dog.

ORIGINAL DETERMINATION

CURRENT STATUS

Ticks received from Dr. S. T. Darling, M.D., Chief of Board of Health Laboratory, (Isthmian Canal Commission) Ancon, Panama Canal Zone, (sent) 11.V.1911. + = collected by A. H. Jennings, 0 = collected by Dr. S. T. Darling.

N	1275	N	1275 MISSING
	<u>Argas persicus</u>		
	Hen coop		
	Ancon, Panama		
	3.V.1910		
	A. H. Jennings		
N	1276	N	1276
		RML	110121
	<u>Ornithodoros talaje</u> 2 N		2 N <u>Ornithodoros talaje</u>
	Native house		Native house
	Chame, R. P.		Chame (08.35 N, 79.53 W) Panama
	Sent 11.V.1911		Sent 11.V.1911
	Dr. S. T. Darling		Dr. S. T. Darling
	"Causes a vesicular-pustular eruption on skin of native children & may be host of <u>Spirochaeta movyi</u> : relapsing fever of Panama"		Samuel Taylor Darling (1872-1925) from 1906-1915, Chief of laboratories of the Isthmian Canal Commission, Panama Canal Zone. Tropical medicine specialist who worked on hookworm, malaria and trypanosomiasis.
N	1277	N	1277 MISSING
	<u>Ornithodoros talaje</u> 4 N		
	Rats		
	Panama, R. P.		
	Sent 11.V.1911		
	A. H. Jennings		
	Labelled larvae		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1278	N	1278 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s		
	Deer, (<u>Odocoileus</u> sp.)		
	Corozal, Canal Zone		
	14.VIII.1910		
	A.H. Jennings		
N	1279	N	1279
	<u>Boophilus australis</u> ♀'s	RML	110122
	Cattle		2 ♀ <u>Boophilus australis</u>
	Empire, Canal Zone		Cattle
	15-19.V.1910		Empire Known Distance Range (09.04 N, 79.40 W), Panama
	A.H. Jennings		15-19.V.1910
			A.H. Jennings
N	1280	N	1280
	<u>Dermacentor nitens</u> ♂'s, ♀'s	RML	110123
	Domestic cat		3 ♂, 2 ♀ <u>Anocentor nitens</u>
	Ancon, Canal Zone		Domestic cat
	III.1911		Ancon (08.58 N, 79.33 W), Panama
	A.H. Jennings		III.1911
	Labeled <u>R. sanguineus</u>		A.H. Jennings

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1281	N	1281
	<u>Dermacentor nitens</u> ♂, ♀, N	RML	110124
	Deer (<u>Odocoileus</u> sp.)		2 ♂, 2 ♀, 1 N <u>Anocentor nitens</u>
	Corozal, Canal Zone		<u>Odocoileus virginianus</u>
	14.VIII.1910		Corozal (08.59 N, 79.35 W), Panama
	A.H. Jennings		14.VIII.1910
			A.H. Jennings
N	1282	N	1282
	<u>Dermacentor nitens</u> ♂'s, ♀'s	RML	110125
	Horse		8 ♂, 16 ♀, 1 N <u>Anocentor nitens</u>
	Ancon, Canal Zone		Horse
	V.1910		Ancon (08.58 N, 79.33 W), Panama
	A.H. Jennings		V.1910
			A.H. Jennings
N	1283	N	1283
	<u>Amblyomma dissimile</u> 2♂, 1♀	RML	110126
	Iguana		2 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	Ancon, Canal Zone		Iguana
	17.I.1911		Ancon (08.58 N, 79.33 W), Panama
	A.H. Jennings		17.I.1911
			A.H. Jennings
			Cited: Robinson (1926: 167).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1284	N	1284 MISSING
	<u>Amblyomma cajennense</u> ♂'s, ♀'s		
	Horse		
	Las Cascadas, Canal Zone		
	5.IV.1910		
	A. H. Jennings		
N	1285	N	1285
	<u>Amblyomma oblongoguttatum</u>	RML	110127
	Types of <u>A. darlingi</u> n. sp.		2 ♂, 6 ♀ <u>Amblyomma oblongoguttatum</u>
	Nutt., 1912 4 ♂'s, 8 ♀'s		Lectotype and paralectotypes of
	Deer (<u>Odocoileus</u> sp.)		<u>A. darlingi</u>
	Corozal, Canal Zone		<u>Odocoileus virginianus</u>
	14.VIII.1910		Corozal (08.59 N, 79.35 W), Panama
	A. H. Jennings		14.VIII.1910
	(1 ♂ & 1 ♀ of this lot pinned)		A. H. Jennings
			The pinned specimens are in the BMNH collection
			Nuttall (1912: 50), original description of <u>A. darlingi</u> .
			Cited: Robinson (1925: 36). Lectotype designated: Keirans & Brewster (1981: 36).
N	1286	N	1286
	<u>Amblyomma oblongoguttatum</u>	RML	110128
	40 N, 26 L Types of <u>A. darlingi</u>		33 N, 20 L <u>Amblyomma oblongoguttatum</u>
	Deer (<u>Odocoileus</u> sp.)		Paralectotypes of <u>A. darlingi</u>
	Corozal, Canal Zone		<u>Odocoileus virginianus</u>
	14.VIII.1910		Corozal (08.59 N, 79.35 W), Panama
	A. H. Jennings		14.VIII.1910
			A. H. Jennings
			The nymphs and larvae are in separate vials. Tentative ID.
			Nuttall (1912: 50), original description of <u>A. darlingi</u>

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1287	N	1287
	<u>Amblyomma oblongoguttatum</u> 2N Types of <u>A. darlingi</u>	RML	110129
	<u>Catharista atratus</u> (Turkey buzzard, on nape-head)		<u>Coragyps atratus</u>
	Panama		Empire Known Distance Range (09.04 N, 79.40 W), Panama
	IV.1911		IV.1911
	Dr. S. T. Darling		Dr. S. T. Darling
			Locality of Empire on vial label and in Nuttall (1912: 54). Tentative ID
			Cited: Robinson (1926: 36).
N	1288	N	1288 MISSING
	<u>Argas reflexus</u> 2 larvae		
	Raised in laboratory, École de Méd., Paris		
	1907		
	Dr. E. Brumpt		
	Presented 7.VI.1911		
N	1289	N	1289 MISSING
	<u>Argas reflexus</u> 2 skins from moulted gorged larvae		
	Raised in laboratory, École de Méd., Paris		
	1907		
	Dr. E. Brumpt		
	Presented 7.VI.1911		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1290	N	1290
		RML	110130
	<u>Amblyomma cohaerens</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Amblyomma cohaerens</u>
	Found on earth where buffalo had been lying		Found on earth where buffalo had been lying
	Toro, Uganda		Probably Toro Game Preserve (01.05 N, 30.25 E), Uganda
	XII.1910		XII.1910
	Dr. R. van Someren		Dr. R. van Someren
	("159" Ent Ettee)		Cited: Robinson (1926: 110).
N	1291	N	1291
		RML	110131
	<u>Amblyomma cohaerens</u> 1♂, 2♀'s (unfed)		1 ♂, 2 ♀ <u>Amblyomma cohaerens</u>
	Bugoma Forest, Umgoro, Uganda		Bugoma Forest (01.15 N, 30.53 E), District of Bunyoro, Uganda
	VIII.-XI.1910		VIII.-XI.1910
	Dr. C.H. Marshall		Dr. C.H. Marshall
	Rec'd. 11.VI.1911 from Mr. Guy A.K. Marshall, Secretary to Ent. Res. Cttee (Tropical Africa) Memorandum: No. 1290 (♂♀) was to Gehimrate Dönitz for his opinion. He wrote from Berlin, 23.III.1911 that the ♂ agrees almost exactly with his two types; differs only in that its "Nebenstrahl" is more extensive where it joins the third "Seitenfleck" so that the light stripe which extends from the middle field and interposes itself is pointed thus: in our specimen (No. 1290) ♂ the light stripe is somewhat broad up to its end and penetrates deeper toward the "Randfurche": This is but a very slight difference, it may be individual or geographical (varietal); similiar slight differences noted in ♀. Failing more material regards it as <u>cohaerens</u> , possibly a geographical variety.		Although the remarks opposite refer to N 1290, I have retained them after N 1291 where they were entered by Nuttall.
			Cited: Robinson (1926: 110).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1292	N	1292
		RML	110132
	<u>Amblyomma sublaeve</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma javanense</u>
	<u>Manis</u> sp.		<u>Manis</u> sp.
	Kuala Lumpur, Federated Malay States		Kuala Lumpur (03.10 N, 101.42 E), Malaysia
	Ex A.E. Shipley's collection		Ex A.E. Shipley's collection
	L.E.R. det 1926		Cited: Robinson (1926: 247).
N	1293	N	1293
		RML	110133
	<u>Amblyomma sublaeve</u> 1 ♂ (pinned)		2 ♂ <u>Amblyomma javanense</u>
	<u>Manis</u> sp.		<u>Manis</u> sp.
	Kuala Lumpur, Federated Malay States		Kuala Lumpur (03.10 N, 101.42 E), Malaysia
	Ex E.A. Shipley's collection		Ex E.A. Shipley's collection
	L.E.R. det 1926		1 ♂ of this collection is pinned, the other ♂ lacking legs and capitulum is in alcohol.
			Cited: Robinson (1926: 247).
N	1294	N	1294
		RML	110134
	<u>Ixodes caledonicus</u> 1 N (fully gorged)		1 N <u>Ixodes caledonicus</u>
	Dead starling		<u>Sturnus vulgaris</u> (dead)
	Isle of May, Fife, Scotland		Isle of May (56.11 N, 02.34 W), Scotland
	V.1911		V.1911
	W. Evans		W. Evans
	(Found with 5 other gorged N's & 1 gorged ♀ which were returned to collector 14.VI.1911).		Nuttall (1911: 176) cited this collection as 1♀, 6N; Nuttall (1916: 325).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1295	N	1295
		RML	110135
	<u>Ixodes caledonicus</u> 1 ♂, 1 ♀ Male = Type!		1 ♂, 1 ♀ <u>Ixodes caledonicus</u>
	Found in rubbish & filth beneath pigeons' nests, sexes in copula.		Found in rubbish & filth beneath pigeons' nests, sexes in copula.
	Dunipace, Stirlingshire, Scotland		Dunipace (56.10 N, 03.55 W), Stirlingshire, Scotland
	25.V.1911		25.V.1911
	W. Evans		William Evans
			The male of this collection was described and figured by Nuttall (1911: 177). See also Nuttall catalogue number 1542.
N	1296	N	1296
		RML	110136
	<u>Hyalomma syriacum</u> 2 ♂, 1 ♀		1 ♂, 2 ♀ <u>Hyalomma aegyptium</u> pinned
	<u>Testudo graeca</u>		<u>Testudo graeca</u>
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	1.X.1909		1.X.1909
	G. Merriman		G. Merriman
N	1297	N	1297
		RML	110137
	<u>Rhipicephalus sanguineus</u> 2 ♂'s		2 ♂ <u>Rhipicephalus sanguineus</u> pinned
	Dog		Dog
	Cairo, Egypt		Cairo (30.03 N, 31.15 E), Egypt
	10.II.1906		10.II.1906
	Dr. H. Bitter		Dr. H. Bitter

ORIGINAL DETERMINATIONCURRENT STATUS

N	1298	N	1298
		RML	110138
	<u>Amblyomma hebraeum</u>		7 ♂, 2 ♀ <u>Amblyomma hebraeum</u> pinned
	From Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	1905-1906		1905-1906
	Raised in Cambridge		
N	1299	N	1299 MISSING
	<u>Ixodes canisuga</u> larvae		Cited: Arthur (1963: 91, 92) as <u>I. lividus</u>
	Sandmartin's nest		
	Banks of River Severn		
	Rec'd 5.IV.1911		
	Rec'd from Mr. R.F.L. Burton Longner Hall, Shrewsbury		
N	1300	N	1300
		RML	110139
	<u>Ixodes angustus</u> 1 ♂, 2 ♀'s		1 ♂, 2 ♀ <u>Ixodes angustus</u>
	Squirrel		Squirrel
	Duncan's, British Columbia		Duncan (48.47 N, 123.42 W), British Columbia, Canada
	IX.1910		IX.1910
	S. Hadwen		S. Hadwen

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1301	N	1301
		RML	110140
	<u>Ixodes angustus</u> ♀, N & nymphal skins		1 ♀, nymphal skins <u>Ixodes angustus</u>
	Duncan's British Columbia		Duncan (48.47 N, 123.42 W), British Columbia, Canada
	IX-XI.1910		IX-XI.1910
	Raised by S. Hadwen		Raised by S. Hadwen
N	1302	N	1302
		RML	110141
	<u>Ixodes canisuga</u> ♀'s, N's		5 ♀ <u>Ixodes lividus</u>
	Young sandmartins in 3 nests		<u>Riparia riparia</u> in 3 nests
	Cauldwell Hall Farm, Boyton, Suffolk		Cauldwell Hall Farm, Boyton (52.04 N, 01.28 E), England
	11.VII.1911		11.VII.1911
	G.H.F. Nuttall		G.H.F. Nuttall
	(also whole bird!)		Cited: Nuttall (1916: 326); Arthur (1963: 91); Thompson (1967: 106).
N	1303	N	1303
		RML	110142
	<u>Ixodes canisuga</u> ♂, ♀, N		1 ♂, 6 ♀, 230 L <u>Ixodes lividus</u>
	3 Sandmartins' nest		3 nests of <u>Riparia riparia</u>
	Boyton Hall Farm, Suffolk		Undoubtedly Cauldwell Hall Farm, Boyton (52.04 N, 01.28 E), England
	11.VII.1911		11.VII.1911
	G.H.F. Nuttall		G.H.F. Nuttall
	L's to Prof. Dr. Dahl, Berlin Museum VII.1914. L's to Prof. Dr. S. Schenkling, Deutsches Entomol. Museum VII.1914. L's to Prof. Dr. R. Gestro, Museo Civico di Storia Nat. Genova VII.1914. 1 ♂, 1 ♀, 1 N to Dr. E. Pavolovsky, Leningrad 9.X.1925).		Cited: Nuttall (1916: 326); Arthur (1963: 91,92); Thompson (1967: 106).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1304	N	1304
		RML	110143
	<u>Ixodes canisuga</u> ♂'s, ♀'s		14 ♂, 59 ♀, +400 L <u>Ixodes lividus</u>
	Sandmartins' nest		Nest of <u>Riparia riparia</u>
	Banks of River Severn, Longner Hall, Shrewsbury		Banks of River Severn (51.36 N, 02.38 W), Longner Hall, Shrewsbury, England
	29.VI.1911		29.VI.1911
	R.F.L. Burton		R.F.L. Burton
	[This nest had been flooded in the winter, it contained at least 100 ticks, the nests contained eggs of birds so the ticks must have fed on adults. Some of this lot preserved, the majority used for raising exp'ts.]		One vial of <u>I. lividus</u> eggs in a separate jar labeled "Eggs".
	[2 slides ♂'s teased spermatophore mounted in balsam.]		Slides missing.
	1 ♂ to Prof. R. Matheson, Cornell		Cited: Nuttall (1916: 326).
	27.V.1929		Cited twice by Arthur (1963) on p. 91 and a third time on p. 92; Thompson (1967: 106).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1305a, b

- (a) Hyalomma aegyptium 4 ♀ gorged
 (b) Rhipicephalus bursa ♀ gorged

Sheep

Haamam-Meskoutine, Algeria

Sent alive for raising expts
 11.VI.1911

Paul Dechabert

(Parents of Nos. 1556, 1557, 1558,
 & 1559 respectively)

(a) 1 ♂, 1 ♀ to Prof. Jules Bordet
 Bruxelles, Belgium 30.VI.1920.
 2 ♂, 2 ♀ to Prof. Sadeo Yoshida at
 Cambridge, 21.XII.1920.
 2 ♂, 2 ♀ to P. A. Buxton at
 Cambridge 10.II.1921.
 2 ♂, 2 ♀ to Prof. Dr. D. A. deYong
 at Cambridge, 8.IV.1921.
 2 ♂, 2 ♀ to Prof. G. Hedger-Wallace,
 U. of Wales Cardiff 1921.
 2 ♂, 2 ♀ to Dr. S. H. Daukes, Wellcome
 Bureau London 9.I.1924.
 All stages to Prof. R. A. Cooley,
 Montana V.1928.
 1 ♂, ♀'s to Prof. E. Malvoz, Liège
 30.V.1929.
 N's, L's to R. W. Mettam, Weybridge
 IV.1931.
 N's, L's to H. S. Purchase IV.1931.
 2 ♂, 2 ♀ to Prof. D'Arcy Thompson
 XI.1931.
 2 ♂, 2 ♀ to Prof. R. Matheson,
 Cornell 27.V.1929.
 1 ♂, 1 ♀ to Dr. S. Hadwen, British
 Columbia, Canada 10.X.1913.
 1 ♂ 1 ♀, N's, L's to Dr. Lajos Gozony,
 Univ. Budapest, Hungary 23.VI.1914.

N 1305a, b

RML 110144

- (a) 4 ♂, 22 ♀, 180 N, 90 L in alcohol
 plus 42 ♂, 178 ♀, cast N skins in vials
 of dry specimens, Hyalomma marginatum
 (b) 359 ♂, 355 ♀, 152 N, ± 500 L
 (unengorged), 179 L (engorged)
Rhipicephalus bursa

Sheep

Hammam Meskoutine (36.27 N, 07.16 E)
 Algeria

Sent alive for raising expts
 11.VI.1911

Paul Dechabert

The specimens listed above are in numerous
 vials. In addition there are the following
 specimens from 1305a glued on a card in
 the pinned specimen box - "Raised in
 Cambridge on ram. Gorged nymphs operated
 1.VI.1915 immediately after they dropped
 off. Parts amputated and cast nymphal
 skins mounted on slides correspondingly
 numbered. All show perfect regeneration of
 legs, parts of which were cut off in nymphs
 Ticks 11 (left 3 leg) 12 (4 1) 13 (2 & 3 1)
 14 (1 1) 15 (2 1) 16 (1 & 2 1) 17 (1234
 left side). G.H.F. Nuttall 1.VII.1915.

(a & b) cited: Nuttall (1915: 436, 438)

(a) Hoogstraal (1956a:515).

Most of the collections were raised on rams
 in Cambridge although some portions of the
 life-cycle studies were reared on hedgehogs
 and calves.

(b) also contains 2 vials of eggs in a
 separate jar marked Eggs.

(b) 1 N of this collection now in the RML
 collection.

See also Nuttall 1556-1559.

1 ♀, 6 N, 105 L given to Professor Cooley
 are now in the RML collection.

ORIGINAL DETERMINATIONCURRENT STATUS

- N 1305a (Cont.)
- N's & L to Prof. Dr. Dahl, Berlin
Museum VII.1914.
- N's & L to Prof. Dr. Schenkling,
Deutsches Entomol. Museum VII.1914.
- N's & L to Prof. Dr. Gestro, Museu
Civico di Storia Nat Genova VII.1914.
- 1 ♂, 1 ♀ to Launcelot Harrison,
Australia 9.V.1919.
- 1 ♂, 1 ♀ to Prof. M. Jesus Maynar
Zaragoza Spain 10.V.1919.
- 1 ♂, 1 ♀ to Prof. Poulton Oxford
26.V.1919.
- 1 ♂, 1 ♀ to Prof. E. Hindle, Cambridge
24.IX.1919.
- 1 ♂, 1 ♀ to Maj. Lothian, Sch. Hygiene
Blackpool 25.IX.1919.
- 1 ♂, 1 ♀ to Dr. J. Gordon Thompson
Long. Sch. Trop. Med. 8.I.1920.
- 1 ♂, 1 ♀ to Dr. R. W. Hegner, Johns
Hopkins, Baltimore 8.III.1920.
- 1 ♂, 1 ♀ to Dr. R. J. Tillyard Nelson,
N.Z. VI.1920.
- 1305b
- ♂'s, ♀'s to Prof. Wheeler, Boston,
Mass. 20.II.1915.
- ♂'s, ♀'s to Launcelot Harrison,
Australia 9.V.1919.
- ♂'s, ♀'s to Prof. Jesus Maynar
Zaragoza, Spain 10.V.1919.
- ♂'s, ♀'s to Prof. Poulton, Oxford 26.V.1919.
- ♂'s, ♀'s to Prof. E. Hindle, Cambridge
24.IX.1919.
- ♂'s, ♀'s to Maj. Lothian, Sch. Hygiene
Blackpool 25.IX.1919.
- 1 ♂, 1 ♀ to Maj. J. E. M. Boyd
Cambridge 20.XII.1919.
- 1 ♂, 1 ♀ to Dr. R. W. Hegner
Johns Hopkins, Baltimore 8.III.1920.
- 1 ♂, 1 ♀ to Dr. R. J. Tillyard
Nelson N.Z. VI.1920.
- 1 ♂, 1 ♀ to Prof. Jules Bordet
Bruxelles Belgium 30.VI.1920.
- 2 ♂, 2 ♀ to Prof. Sadeo Yoshida
at Cambridge 21.XII.1920.
- 2 ♂, 2 ♀ to P. A. Buxton at Cambridge
10.II.1921.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1305b (Cont.)

2 ♂, 2 ♀ to Prof. Dr. D. A. de Yong
at Cambridge 8.IV.1921.

2 ♂, 2 ♀ to Dr. G. Hedger-Wallace
Univ. Wales Cardiff 1921.

2 ♂, 2 ♀ to Dr. S. H. Daukes
Wellcome Bureau London 9.I.1924.

♂'s, ♀'s to Dr. E. Pavlovsky
Leningrad 9.X.1925.

1 ♂, 2 ♀ to Prof. E. Malvoz
Liege 30.V.1929.

2 ♂, 2 ♀ to Prof. D'Arcy Thompson
XI.1931.

2 ♂, 2 ♀ to Prof. R. Matheson
Cornell 27.V.1929.

1305a & b

1 ♂, 1 ♀ to Dr. E. Roubaud, Inst.
Pasteur Paris 12.X.1922.

1 ♂, 1 ♀ to Prof. J. Hjort, Univ.
Christiania Norway 12.X.1922.

1 ♂, 1 ♀ to Dr. A. Watkins
Pitchford Army Vet. Sch.

Thornhill, Aldershot 12.X.1922.

1 ♂, 1 ♀ to L. P. W. Renouf
Univ. College Cork Ireland 12.X.1922.

1 ♂, 1 ♀ to W. A. Pool, Indian Civil
Veterinary Dept. 12.X.1922.

1 ♂, 1 ♀ to Dr. Wm. Parry Morgan
Publ. Hlth. Lab. Cardiff, Wales 12.X.1922.

1 ♂, 1 ♀ to J. E. M. Mellor
Malvern College, Malvern 16.X.1922.

1 ♂, 1 ♀ to Prof. A. Bettencourt
Inst. Camara Pestana Lisbon 7.XI.1922.

1 ♂, 1 ♀ to Prof. E. Brumpt École Médecine
Paris 12.X.1922.

1 ♂, 1 ♀ to I. C. Ross, Univ. of
Sydney, Australia.

2 ♂, 2 ♀ to Prof. J. Drbohlav
Prague 30.V.1929.

2 ♂, 2 ♀ to Dr. A. C. Reed
San Francisco 30.V.1929.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1306a-d

N 1306a-d

RML 110145

- (a) Boophilus microplus ♂'s
 (b) Boophilus microplus ♀'s
 1/2 gorged and gorged
 (c) Boophilus microplus ♀'s unfed
 to replete
 (d) Boophilus microplus N's

- (a) 46 ♂, 2 ♀ Boophilus microplus
 (b) 38 ♀ Boophilus microplus
 (c) 17 ♀ Boophilus microplus
 (d) 12 N Boophilus microplus

Bos taurusBos taurus

Manguinhos, Rio de Janeiro

Manguinhos (21.24 S, 41.00 W),
Estado do Rio de Janeiro, Brazil

22.VI.1911

22.VI.1911

Sent by H. Aragão on 23.VI.1911

Sent by H. Aragão on 23.VI.1911

He writes he considers the tick a
 good species and not merely a
 variety of B. annulatus

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1307	N	1307
		RML	57221
	<u>Ixodes putus</u>		8 ♂, 63 ♀, 84 N, 71 L <u>Ixodes uriae</u>
	In and about guillemot's nests creeping about (unfed ♀'s) on rocks and upon our persons.		In and about guillemot's nests creeping about (unfed ♀'s) on rocks and upon our persons.
	Cliff ledges, Worms Head, Gower Glamorganshire, S. Wales		Cliff ledges, Worms Head (51.34 N, 04.20 W), Gower, Glamorganshire, Wales
	2.VII.1911		2.VII.1911
	G.H.F. Nuttall		G.H.F. Nuttall
	N.B. This lot is being used for raising expt's - most of the ticks being kept alive.		One vial of eggs is in a jar marked "Eggs". The specimens sent to F. C. Bishopp (Bishopp 3233) are now in the RML collection. The BMNH general collection also has 1 ♂, 1 ♀ from 1307 (acc no. 13.2.12.1-4)
	1 ♂, 1 ♀, 1 N, 1 L to F.C. Bishopp.		Cited: Nuttall (1912: 60) (1916: 330); Thompson (1957: 214).
	1 ♀ to N.Y. National Museum 18.IV.1913.		
	1 N to Prof. Dr. Dahl, Berlin Museum VII.1914.		
	1 N to Prof. Dr. Schenkling, Deutsches, Entomol. Mus. VII.1914.		
	1 N to Prof. Dr. R. Gestro Museo Civico di Storia Nat. Genova VII.1914.		
N	1308	N	1308
		RML	110146
	<u>Ixodes ricinus</u> ♀'s		8 ♀ <u>Ixodes ricinus</u>
	Cattle with redwater		Cattle with redwater
	Athlone, Ireland		Athlone (53.26 N, 07.57 W), Ireland
	Rec'd. 28.IV and 3.V.1911		Rec'd 28.IV and 3.V.1911
	H. W. Percy		H. W. Percy
	Ticks preserved after they had ceased ovipositing (Raising expt's & for infection of cattle; pickled 6.VII.1911 G.H.F.N.)		Cited: Nuttall (1916: 332).

Ticks received back from the Entomological Research Committee (Tropical Africa)
London S.W. 15 July 1911. (Report No. 18)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1309	N	1309
		RML	66881
	<u>Rhipicephalus capensis</u> ♂'s, ♀'s	1 ♂, 2 ♀	<u>Rhipicephalus compositus</u>
		1 ♂, 2 ♀	<u>Rhipicephalus hurti</u>
	Cattle		Cattle
	Uhehe District, German East Africa		Utete Forest Reserve (08.01 S, 38.44 E), Tanzania
	3.XII.1910		3.XII.1910
	S. A. Neave		S. A. Neave
	1 ♂, 1 ♀ to Prof. R. A. Cooley, Montana V.1928		The specimens sent to Prof. Cooley, 1 ♂, 2 ♀ <u>Rhipicephalus hurti</u> are now in the RML collection
N	1310	N	1310 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		
	Cattle		
	Utengub, German East Africa		
	23.XI.1910		
	S. A. Neave		
N	1311	N	1311 MISSING
	<u>Rhipicephalus neavei</u> 2 ♂, 1 ♀		
	Bush-pig (<u>Potamochoerus chaeropotamus</u>)		
	Niamidzi River, Luangwa Valley, N.E. Rhodesia		
	VIII.1910		
	S. A. Neave		

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 1312</p> <p><u>Ornithodoros moubata</u> ♂, N</p> <p>"In huts of Angoni workers on Thompson's Cotton Plantation"</p> <p>Near Cherteka's Luangwa River, N.E. Rhodesia</p> <p>10.IX.1910</p> <p>S. A. Neave</p>	<p>N 1312 MISSING</p>
<p>N 1313</p> <p><u>Rhipicephalus neavei</u> 3 ♂, 3 ♀</p> <p>Eland</p> <p>Near mouth of Lasangazi River, Luangwa Valley, N.E. Rhodesia</p> <p>1.IX.1910</p> <p>S. A. Neave</p>	<p>N 1313 MISSING</p>
<p>N 1314</p> <p><u>Rhipicephalus appendiculatus</u> 3 ♂, 3 ♀</p> <p>Roan antelope</p> <p>Upper Luangwa River, N.E. Rhodesia</p> <p>7.VIII.1910</p> <p>S. A. Neave</p>	<p>N 1314</p> <p>RML 110147</p> <p>3 ♂, 3 ♀ <u>Rhipicephalus</u> sp.</p> <p><u>Hippotragus equinus</u></p> <p>Upper Luangwa River (vicinity of 10.30 S, 33.00 E), Zambia</p> <p>7.VIII.1910</p> <p>S. A. Neave</p> <p>This is <u>Rhipicephalus</u> sp. II of Yeoman & Walter (1967).</p>

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1315	N	1315
	<u>Amblyomma petersi</u>	RML	110148
	Off grasses		1 ♀ <u>Amblyomma rhinocerotis</u>
	Upper Luangwa Valley, N.E. Rhodesia		Off grasses
	6.VIII.1910		Upper Luangwa Valley (11.55 S, 32.10 E), Zambia
	S. A. Neave		6.VIII.1910
			S. A. Neave
			Cited: Robinson (1926: 264).
N	1316	N	1316
	<u>Aponomma exornatum</u> 2 ♂, 1 N	RML	110149
	Iguana		2 ♂, 1 N <u>Aponomma flavomaculatum</u>
	Offa, S. Nigeria		Iguana
	2.XI.1910		Either Offa (07.58 N, 04.19 E), or Offa (08.09 N, 04.43 E), Nigeria
	R. C. Hiscock		2.XI.1910
			R. C. Hiscock
			The nymph is a teratological specimen with 4 legs on the right side and 3 legs on the left.
N	1317	N	1317
	<u>Aponomma exornatum</u> 2 ♂, 1 ♀, 1 N	RML	110150
	Iguana		2 ♂, 1 ♀, 1 N <u>Aponomma flavomaculatum</u>
	Offa, S. Nigeria		Iguana
	29.IX.1910		Offa (07.58 N, 04.19 E), Nigeria
	R. C. Hiscock		29.IX.1910
			R. C. Hiscock

ORIGINAL DETERMINATIONCURRENT STATUS

N	1318, a	N	1318, a
	(1318) <u>Amblyomma tholloni</u> 2 ♂, 2 ♀ (a) <u>Rhipicephalus maculatus</u> 2 ♀	RML	110151
	Elephant		(1318) 2 ♂ <u>Amblyomma tholloni</u> (a) 2 ♀ <u>Rhipicephalus maculatus</u>
	Chiromo, Nyasaland, B.E. Africa		<u>Loxodonta africana</u>
	XII.1910		Chiromo (16.33 S, 35.08 E), Malawi
	H. S. Stannus		XII.1910
			H. S. Stannus
			(1318) Cited: Robinson (1926: 253).
N	1319	N	1319 MISSING
	<u>Ornithodoros moubata</u> 3		
	Bua River, Marimba, B.E. Africa		
	1910		
	H. S. Stannus		
N	1320	N	1320
	<u>Dermacentor rhinocerotis</u> 2 ♂, 2 ♀	RML	110152
	? Nyasaland		1 ♂, 2 ♀ <u>Dermacentor rhinocerinus</u>
	1910		? Malawi
	J. E. S. Old		1910
	No data in tube		J. E. S. Old
N	1321	N	1321 MISSING
	<u>Hyalomma aegyptium</u> 3 ♂, 3 ♀		
	Roan antelope		
	Mpalali River, Marimba, Nyasaland, B.E. Africa		
	1.I.1911		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1322	N	1322
		RML	110153
	<u>Rhipicephalus falcatus</u> 2 ♂, 2 ♀		2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Roan antelope		<u>Hippotragus equinus</u>
	Mpalali River, Marimba, Nyasaland		Probably Mpala River, now known as Mipala River (15.55 S, 35.16 E), Malawi
	1.I.1911		1.I.1911
	J. E. S. 01d		J. E. S. 01d
N	1323	N	1323 MISSING
	<u>Ixodes pilosus</u> ♀		
	Roan antelope		
	Mpalali River, Marimba, Nyasaland		
	1.I.1911		
	J. E. S. 01d		
N	1324	N	1324
		RML	110154
	<u>Rhipicephalus coriaceus</u> 6 ♂, 2 ♀		5 ♂, 1 ♀ <u>Rhipicephalus supertritus</u>
	Roan antelope		<u>Hippotragus equinus</u>
	Mpalali River, Marimba, Nyasaland B.E. Africa		Probably Mpala River, now known as Mipala River, (15.55 S, 35. 16 E), Malawi
	I.1911		I.1911
	J. E. S. 01d		J. E. S. 01d

ORIGINAL DETERMINATIONCURRENT STATUS

N	1325	N	1325
		RML	110155
	<u>Amblyomma variegatum</u> gorged larvae		128 L <u>Amblyomma variegatum</u>
	Goat		Goat
	Blantyre, Nyasaland, B.E. Africa		Blantyre (15.47 S, 35.00 E), Blantyre District, Malawi
	18.V.1910		18.V.1910
	J. E. S. Old		J. E. S. Old
N	1326	N	1326
		RML	110156
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s, N's & 2 larvae (gorged)		2 ♂, 2 ♀, 3 N <u>Rhipicephalus pulchellus</u>
	Loke's (sic.) Hartebeeste		Coke's Hartebeest (<u>Alcelaphus</u> <u>buselaphus cokii</u>)
	Thikar, Fort Hall Rd., Nairobi, Brit. E. Africa		Thikar, Fort Hall Road, Nairobi (01.17 S, 36.49 E), Kenya
	29.I.1911		29.I.1911
	S. A. Neave		S. A. Neave
N	1327	N	1327
		RML	110157
	<u>Haemaphysalis leachi</u> 4 ♂'s		3 ♂ <u>Haemaphysalis leachi</u>
	Off tall grass		Off tall grass
	Zomba, Nyasaland, B.E. Africa		Zomba (15.23 S, 35.20 E), Zomba District, Malawi
	7.II.1911		7.II.1911
	A.M.D. Turnbull		A.M.D. Turnbull
			Cited: Nuttall & Warburton (1915: 471).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1328	N	1328
		RML	110158
	<u>Rhipicephalus pulchellus</u> ♂'s		10 ♂ <u>Rhipicephalus pulchellus</u> Pinned specimens
	"Wilde beeste"		<u>Connochaetes taurinus</u>
	Simba, Uganda Railway, B.E. Africa		Simba (02.10 S, 37.36 E), Kenya
	8.IV.1911		8.IV.1911
	S. A. Neave		S. A. Neave
			The railway mentioned is the Mombasa-Victoria (Uganda) Railway
N	1329	N	1329
		RML	110159
	<u>Rhipicephalus pulchellus</u> ♀'s		7 ♀ <u>Rhipicephalus pulchellus</u>
	"Wilde beeste"		<u>Connochaetes taurinus</u>
	Simba, Uganda Railway, B.E. Africa		Simba (02.10 S, 37.36 E), Kenya
	8.IV.1911		8.IV.1911
	S. A. Neave		S. A. Neave
N	1330	N	1330
		RML	110160
	<u>Rhipicephalus pulchellus</u> 6 ♂, 6 ♀		5 ♂, 5 ♀ <u>Rhipicephalus pulchellus</u>
	Off grasses		Off grasses
	Simba, Uganda Railway, B.E. Africa		Simba (02.10 S, 37.36 E), Kenya
	9.IV.1911		9.IV.1911
	S. A. Neave		S. A. Neave
	1 ♂, 1 ♀ to J. deMeza Zomba, Nyasaland, 19.II.1916		The above total includes 3 ♀ specimens pinned

ORIGINAL DETERMINATIONCURRENT STATUS

N	1331	N	1331
		RML	110161
	<u>Rhipicephalus pulchellus</u> 4 ♂, 4 ♀		2 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	Off grasses		Off grasses
	Makindu, Uganda Railway, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	5-7.IV.1911		5-7.IV.1911
	S. A. Neave		S. A. Neave
N	1332	N	1332
		RML	110163
	<u>Dermacentor rhinocerotis</u> 2 ♀		2 ♀ <u>Dermacentor rhinocerinus</u>
	Off grasses		Off grasses
	Makindu, Uganda Railway, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	5-7.IV.1911		5-7.IV.1911
	S. A. Neave		S. A. Neave
N	1333	N	1333
		RML	110164
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		4 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	Off grasses		Off grasses
	Simba, Uganda Railway, B.E. Africa		Simba (02.10 S, 37.36 E), Kenya
	8.IV.1911		8.IV.1911
	S. A. Neave		S. A. Neave

ORIGINAL DETERMINATIONCURRENT STATUS

N	1334	N	1334
		RML	110165
	<u>Rhipicephalus pulchellus</u> 5 ♂, 5 ♀		4 ♂, 4 ♀ <u>Rhipicephalus pulchellus</u>
	"Impala"		<u>Aepyceros melampus</u>
	Makindu, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	6.IV.1911		6.IV.1911
	S. A. Neave		S. A. Neave
	1 ♂, 1 ♀ to Dr. S. Hadwen, Brit. Columbia, Canada, 10.X.1913		Above total includes 3 ♀ specimens pinned
N	1335	N	1335
		RML	110166
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	"Cope's" (sic.) Hartebeeste		Coke's Hartebeest. (<u>Alcelaphus</u> <u>buselaphus cokii</u>)
	Makindu, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	5.IV.1911		5.IV.1911
	S. A. Neave		S. A. Neave
	1 ♂, 1 ♀ to Dr. J. G. Parham, Portuguese East Africa, 18.IV.1913. 1 ♂, 1 ♀ to N.Y. National Museum, 18.IV.1913		
N	1336	N	1336
		RML	110167
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		2 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	Off grasses		Off grasses
	Mtito Andei, Uganda Railway, B.E. Africa		Mtito Andei (02.41 S, 38.10 E), Kenya
	27.III.1911		27.III.1911
	S. A. Neave		S. A. Neave

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1337	N	1337
		RML	110168
	<u>Dermacentor rhinocerotis</u> ♂ ♀		1 ♂, 1 ♀ <u>Dermacentor rhinocerinus</u>
	Off grasses		Off grasses
	Mtito Andei, Uganda Railway B.E. Africa		Mtito Andei (02.41 S, 38.10 E), Kenya
	27.III.1911		27.III.1911
	S. A. Neave		S. A. Neave
N	1338	N	1338
		RML	110169
	<u>Amblyomma petersi</u> 1 ♀		1 ♀ <u>Amblyomma rhinocerotis</u>
	Off grasses		Off grasses
	Kibwezi, Uganda Railway, B.E. Africa		Kibwezi (02.25 S, 37.58 E), Kenya
	27.III.1911		2-4.IV.1911
	S. A. Neave		S. A. Neave
			Cited: Robinson (1926: 264) but without Nuttall number. Vial label date differs from date in catalogue.
N	1339	N	1339 MISSING
	<u>Ixodes</u> sp. 3 N		
	<u>Crosidura</u> sp. (skin No. 235)		
	E. of foot of Aberdare Mts. B.E. Africa		
	26.II.1911		
	S. A. Neave		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1340	N	1340	MISSING
	<u>Haemaphysalis</u> sp. 1 N			
	Mouse (skin No. 238)			
	W. foot of Aberdare Mts., B.E. Africa			
	1.III.1911			
	S. A. Neave			
N	1341	N	1341	MISSING
	<u>Ixodes</u> sp. 1 N			
	Mouse (skin No. 238)			
	W. foot of Aberdare Mts., B.E. Africa			
	1.III.1911			
	S. A. Neave			
N	1342	N	1342	
		RML	110170	
	<u>Dermacentor rhinocerotis</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Dermacentor rhinocerinus</u>	
	Off grasses		Off grasses	
	Ngara, Nyasaland, B.E. Africa		Ngara (10.14 S, 34.07 E), Koronga District, Malawi	
	4.I.1911		4.I.1911	
	J. E. S. 01d		J. E. S. 01d	
	1 ♂, 1 ♀ to Dr. Lajos Gazony, Univ. Budapest, Hungary, 23.VI.1914			

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1343	N	1343
		RML	110171
	<u>Dermacentor rhinocerotis</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Dermacentor rhinocerinus</u>
	Off grass (rhinoceros seen nearby)		Off grass (rhinoceros seen nearby)
	Mpalale, Nyasaland, B.E. Africa		Mpalale, Malawi (locality not verified)
	3.I.1911		3.I.1911
	J.E.S. Old		J. E. S. Old
			1 ♂, 1 ♀ of the above total mounted on a slide.
			The spelling of the locality on the vial label is Mpalali. A possible locality is Mpali Estate (13.24 S, 33.37 E).
N	1344	N	1344
		RML	110172
	<u>Amblyomma variegatum</u> 2♀		2 ♀ <u>Amblyomma variegatum</u>
	Buffalo		<u>Syncerus caffer</u>
	Tero Forest, B.E. Africa		Tero Forest (00.50 S, 31.40 E), District of Buganda, Uganda
	20.VIII.1909		20.VIII.1909
	C. C. Gowdey		C. C. Gowdey
N	1345	N	1345 MISSING
	<u>Amblyomma variegatum</u> 1 ♂'s		
	Elephant		
	Tero Forest, Uganda, B.E. Africa		
	20.VII.1909		
	C. C. Gowdey		

Ticks received from the Indian Museum, Calcutta, India (per Dr. N. Annandale), 4.VII.1911. Determined by Mr. C. Warburton, & being common species, they have all been returned:-

- 1114 Rhip. haemaphysaloides off Cervulus muntjæ, Malwa Tal
17. (3,600 ft), Kumaun, W. Himalayas, 7.V.1911. S. Kemp
- 1115 Boo. australis, ♂'s & N's, from cattle farm, Navy Bay, Andamans,
17. India, 6.IV.1911. O. Paiva
- 1116 Boo. australis, ♀'s from cattle farm, Navy Bay, Andamans, O. Paiva
17. India, 6.IV.1911.
- 1117 Haem. bispinosa. ♂, off ?, Caunter, Panvel, Bombay, India
17. 15.II.1911.
- 1118 R. sanguineus ♂
17. Haem. bispinosa ♂ off dog, Ross, Andamans, India, 23.III.1911. O. Paiva
- 1119 Rhip. sanguineus "probably from Pariah dog on wall of bungalow," Pusa,
17. Bengal, India, 31.III.-4.IV.1911. F.H.G.
- 1121 Rhip. sanguineus ♂ & ♀, off dog, Calcutta, India, 23.V.1911.
17.
- 1122 Argas persicus ? larvae, off common Indian crow (Corvus splendens),
Calcutta, India, 1911.

TM
1. Hyal. aegyptium ♀, off bullock, Nagercoil, India, XII.1910.

TM
1a. Hyal. aegyptium ♀, Ditto.

TM
2. Hyal. aegyptium ♀, " .

TM
3. Haem. bispinosa ♀, " .

TM
4. Haem. bispinosa ♀, " .

TM
5. Haem. bispinosa ♀ " .

TM
6. Haem. bispinosa ♀, " .

TM
7. Hyal. aegyptium ♂, " .

TM
9. Hyal. aegyptium ♂, " .

TM
10. Hyal. aegyptium ♂, " .

TM
11. Hyal. aegyptium ♂,

" .

TM
12. Hyal. aegyptium ♂,

" .

ORIGINAL DETERMINATIONCURRENT STATUS

N 1346

Argas persicus larvaeCommon Indian crow (Corvus splendens)

Calcutta, India

1911

(Ex Indian Mus. Coll. $\frac{1122}{17}$)

N 1346

RML 110173

6 L Argas sp.Common Indian crow (Corvus splendens)

Calcutta (22.32 N, 88.22 E), India

1911

N 1347

Ixodes hexagonus ♀ (gorged)

Rat

Killed in a hedge, Brampton, Norfolk

Hammond

Presented by C. Warburton, VI.1911

N 1347

RML 110174

1 ♀ Ixodes hexagonusRattus norvegicus

Brampton (52.46 N, 01.17 E), Norfolk, England

Hammond

Rattus norvegicus is undoubtedly the correct host for this tick. In England, the black rat, Rattus rattus, is confined to port areas.

Cited: Nuttall (1916: 327).

Ticks received from Mr. S. H. Gaiger of the Civil Veterinary Department, Punjab Veterinary College, Lahore, India, 23 July, 1911.

Hyal. aegyptium, ♂'s ♀'s, off camels, Lahore, Punjab, India. Date ?

Hyal. aegyptium, ♂'s ♀'s & N's, off horses, Kathgodown, India. Date ? 1910.

Hyal. aegyptium, N's, off horse, Lahore, India, 1908.

Hyal. aegyptium, ♂'s, & ♀'s, off camels, Lahore, India, 1908.

Hyal. aegyptium, larvae, off horse, India, 1908.

Hyal. aegyptium, N's, off horse, India, 1908.

Hyal. aegyptium, ♂ & ♀'s, off goat, Kathgodown, India, ? 1908.

Rhip. sanguineus, ♂'s ♀'s, off cattle, Lahore, Punjab, India, date ?

Rhip. sanguineus, ♂'s, ♀'s, & N's, off dogs, Kathgodown, India. ? 1908.

Rhip. sanguineus, ♂ ♀'s, off dog, Balaghat, Central Provinces, India, 1908.

Rhip. sanguineus, larvae, 1907. No data.

Hyalomma aegyptium, ♂'s & ♀'s, off cow, Kathgodown, India, ? 1908.

Bos. australis 2 ♀'s Ditto. (from same tube).

Bos. australis N's, off ? Muktesar, India, date ?.

Argas persicus, 1 gorged larva. No data in tube.

Argas persicus, eggs, 1908. No data. (India).

Bos. australis ♂'s, off hill bull, Muktesar, Naini Tal District, India, 1907.

Rhipicephalus sp. ? larvae. No data.

Rhipicephalus sp. ? eggs. Ditto.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1348	N	1348
		RML	110175
	<u>Boophilus australis</u> ♂'s, ♀'s		5 ♂, 7 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Muktesar, Naini Tal District, India		Mukteswar (29.29 N, 79.39 E), India
	1908		1908
	S. H. Gaiger		S. H. Gaiger
N	1349	N	1349
		RML	110176
	<u>Argas persicus</u>		1 ♂, 11 N <u>Argas persicus</u>
	The Zoo, Lahore, India		The Zoo, Lahore (31.35 N, 74.18 E), Pakistan
	1908		1908
	S. H. Gaiger		S. H. Gaiger
N	1350	N	1350
		RML	110177
	<u>Amblyomma hebraeum</u> adults & unfed larvae		116 L <u>Amblyomma hebraeum</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	Rec'd IV.1905 and again III.1906		Rec'd IV.1905 & again III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd. from Mr. C. P. Lounsbury
	[9 slides ♂'s, ♀'s, N's mounted in balsam]		Slides missing. The general tick collection of the BMNH contains six larvae from N 1350. Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1351	N	1351
		RML	110178
	<u>Amblyomma hebraeum</u> gorged larvae		7 L <u>Amblyomma hebraeum</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	Rec'd IV.1905 & again III.1906		Rec'd IV.1905 & again III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
	2 slides & 1 of ♀		Slides missing. The general tick collection of the BMNH contains two larvae from N 1351.
N	1352	N	1352
		RML	110179
	<u>Amblyomma hebraeum</u> gorged nymphs		1 N <u>Amblyomma hebraeum</u>
	Cape Colony, Africa		Cape Colony, Republic of South Africa
	Rec'd IV.1905 & III.1906		Rec'd IV.1905 & III.1906
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
			The general tick collection of the BMNH contains one nymph from N 1352
N	1353	N	1353
		RML	110180
	<u>Amblyomma hebraeum</u> unfed nymphs		16 N <u>Amblyomma hebraeum</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	Rec'd 23.XII.1907		Rec'd 23.XII.1907
	Rec'd from Mr. C. P. Lounsbury		Rec'd from Mr. C. P. Lounsbury
			The general tick collection of the BMNH contains three nymphs from N 1353

ORIGINAL DETERMINATIONCURRENT STATUS

N	1354	N	1354	MISSING
	<u>Amblyomma hebraeum</u> 1 ♂, 3 ♀			
	East London, S. Africa			
	Rec'd 3.IV.1905			
	Rec'd from Dr. Williamson			
	Rec'd dead			
N	1355	N	1355	
	<u>Amblyomma hebraeum</u> 4 ♀'s	RML	110181	
	East London, S. Africa		2 ♀ <u>Amblyomma hebraeum</u>	
	Rec'd 3.IV.1905		East London (33.02 S, 27.55 E), Republic of South Africa	
	Rec'd from Dr. Williamson		Rec'd 3.IV.1905	
	Rec'd dead		Rec'd from Dr. Williamson	
			Cited: Robinson (1926: 107).	
N	1356	N	1356	
	<u>Amblyomma hebraeum</u> ♂'s	RML	110182	
	East London, S. Africa		18 ♂ <u>Amblyomma hebraeum</u>	
	Rec'd 3.IV.1905		East London (33.02 S, 27.55 E), Republic of South Africa	
	Rec'd from Dr. Williamson		Rec'd 3.IV.1905	
	Rec'd dead		Rec'd from Dr. Williamson	
			Cited: Robinson (1926: 107).	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1357	N	1357
	<u>Amblyomma hebraeum</u> ♂	RML	113745
	East London, S. Africa		2 ♂ <u>Amblyomma hebraeum</u>
	Rec'd 1.V.1905		East London (30.02 S, 27.55 E), Republic of South Africa
	Rec'd from Dr. Williamson		Rec'd 1.V.1905
N	1358	N	1358
	<u>Ixodes tenuirostris</u> 2 ♀'s	RML	110183
	Rat (No. 6536)		2 ♀ <u>Ixodes trianguliceps</u>
	Bank, Prike's farm, Dedham, Essex		<u>Rattus norvegicus</u>
	16.X.1911		Prike's farm, Dedham (51.57 N, 00.59 E), Essex, England
	G. Merriman		16.X.1911
	G.H.F. Nuttall det.		G. Merriman
			See remark under N 1347. Cited: Nuttall (1916: 333); Thompson (1968: 148); Thompson & Knowles (1968: 193).
N	1359	N	1359
	<u>Ixodes tenuirostris</u> 1 ♀	RML	110184
	Rat (No. 3591)		1 ♀ <u>Ixodes trianguliceps</u>
	Hedgebank, Ashford farm, Rendham, Suffolk		<u>Rattus norvegicus</u>
	28.IX.1911		Ashford farm, Rendham (52.14 N, 01.26 E), Suffolk, England
	C. Strickland		28.IX.1911
	G.H.F.N. det.		C. Strickland
			See remarks under N 1347. The 3 ♀ <u>I. trianguliceps</u> (N 1358, 1359) are undoubtedly the specimens referred to by Strickland & Merriman (1913: 16). Both collections cited by Nuttall (1916: 333); Thompson (1968: 148).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1360	N	1360
	<u>Ixodes hexagonus</u> 1 ♀	RML	110185
	Dog		1 ♂ <u>Ixodes hexagonus</u>
	Whitehouse farm, Parham, Suffolk		Dog
	3.X.1911		Whitehouse farm, Parham (52.12 N, 01.22 E), Suffolk, England
	C. Strickland		3.X.1911
	G.H.F.N. det.		C. Strickland
			Cited: Nuttall (1916: 327).
N	1361	N	1361
	<u>Ixodes angustus</u> 2 ♂, & 2 nymphal cases	RML	110186
	Mt. Lehman, British Columbia		2 ♂, N skins <u>Ixodes angustus</u>
	Rec'd 17.X.1911		Mt. Lehman (49.07 N, 122.23 W), British Columbia, Canada
	Rec'd from S. Hadwen		Rec'd 17.X.1911
	Gorged 28.VI.1911; hatched 24.VII.1911		Rec'd from S. Hadwen
N	1362	N	1362
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s	RML	110187
	(Host not recorded but probably dogs)		4 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Baghdad, Turkey		(Host not recorded but probably dogs)
	? 1910		Baghdad (33.21 N, 44.25 E), Iraq
	Dr. C. M. Wenyon		? 1910
			Dr. C. M. Wenyon

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	None	N	None MISSING
	<u>Ixodes canisuga</u> 3 ♀'s		
	Young fox-hound		
	Gibside, Co. Durham		
	1911		
	R. S. Bagnall		
	Returned specimen		
N	1363	N	1363
		RML	110188
	<u>Ixodes caledonicus</u> 1 ♀		1 ♀ <u>Ixodes caledonicus</u>
	Starling's head		<u>Sturnus vulgaris</u>
	Sunderland, England		Sunderland, (54.54 N, 01.22 W) England
	4.VI.1908		4.VI.1908
	Mr. Duthrie		Mr. Duthrie
	Rec'd from Mr. R. S. Bagnall Penshaw Lodge, Penshaw, Co. Durham (G.H.F. Nuttall det.)		Cited:Nuttall (1916: 325). Richard Siddoway Bagnall (1889-1962). A trained chemist but published ex- tensively on the insect orders Collembola and Thysanoptera
N	None	N	None MISSING
	<u>Hyalomma syriacum</u> 1 ♂		
	Tortoise		
	Penshaw Lodge, Penshaw, Co. Durham		
	X.1911		
	R. S. Bagnall		
	(G.H.F.N. det.) Returned 25.X.1911		

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
N 1364	N 1364
	RML 110189
<u>Haemaphysalis hoodi</u> 1 N, 1 L	1 N, 1 L <u>Haemaphysalis hoodi</u> TYPES of <u>H. africana</u>
<u>Centropus burchelli</u> (bird, on neck)	<u>Centropus superciliosus burchellii</u>
Manhica, Lourenço Marques, Portuguese East Africa	Concelho de Manhica (25.15 S, 32.45 E), Lourenço Marques, now Maputo, Mozambique
3.VI.1908	3.VI.1908
C. W. Howard	C. W. Howard
(<u>Haemaphysalis africana</u> C. W. Howard VIII.1909; ex bottle of his types, containing also ♂'s, ♀, N, L)	Howard (1909) p. 219 original description of <u>Haemaphysalis africana</u> Cited and figured: Nuttall & Warburton (1915: 485, 486) Charles Walter Howard (1882-1928) Assistant Entomologist in Transvaal 1905, appointed Entomologist 1906. Returned to the USA in 1911, Entomologist Univ. Minnesota 1912-1917. Professor of Biology Canton China Christian College. Died of injuries when struck by an interurban train.

Ticks received from the Indian Museum, Calcutta India (per Dr. N. Annandale), September, 1911. Determined by Mr. C. Warburton, as follows:-

<u>Apon. gervaisi</u> var. <u>lucasi</u> , off <u>Varanus salyator</u> (on piece of skin), Byik Hwaaw Bay, Tavoy, Burma, India Capt. S. Sewell.	Indian Mus	<u>1129</u> 7.
" " " off <u>Naia tripudians</u> , Byikhwaaw Bay, Tavoy, Burma, India, Capt. S. Sewell.	Indian Mus.	<u>1126</u> 17
" " " off <u>Zamenis mucosus</u> , VII.1911, Almorah, W. Him- alayas (5,400 ft.), India. Major F. Wall	Indian Mus.	<u>1125</u> 17
<u>Apon. laeve</u> var. <u>paradoxum</u> , off <u>Cobra (Naia tripudians)</u> , Raniganj Lower Bengal, India, V.1910. A. Martin	Indian Mus.	<u>1127</u> 17
<u>Orn. lahorensis</u>) off ? , from Quetta, Baluchistan, India, <u>Argas persicus</u>) VII.1910. Capt. Davys, I.M.S.	Ind. Mus.	<u>1128</u> 7
<u>Argas persicus</u> (?) larvae, off <u>Corvus splendens</u> , Museum premises Calcutta, India, 30.V.1911.	Indian Mus.	<u>1122</u> 17.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1365

Aponomma gervaisi var. lucasi ♂'sZamenis mucosusAlmorah, W. Himalayas
(5,400 ft.), India

VII.1911

Maj. F. Wall

[Ex Indian Museum $\frac{1125}{17}$]

N 1365

RML 110190

3 ♂ Aponomma varanensisPtyas mucosusAlmora (29.37 N, 79.40 E), (1646 m),
India

VII.1911

Maj. F. Wall

Cited: Sharif (1928: 338).

N 1366

Aponomma laeve var. paradoxum
♂, ♀, N'sCobra (Naia tripudians)

Raniganj, Lower Bengal, India

V.1910

A. Martin

[Ex Indian Museum $\frac{1227}{17}$]

N 1366

RML 110191

4 N Aponomma pattoniNaja naja

Raniganj (23.37 N, 87.08 E), India

V.1910

A. Martin

Cited: Sharif (1928: 339).

N 1367

Argas persicus

(Host not stated)

Quetta, Baluchistan, India

VIII.1911

Captain Davys, I.M.S.

[Ex Indian Museum $\frac{1128}{7}$]

N 1367 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1368	N	1368
	<u>Ornithodoros lahorensis</u>	RML	110192
	? (found with 1367)		4 ♀ <u>Ornithodoros lahorensis</u>
	Quetta, Baluchistan, India		? (found with 1367)
	VIII.1911		Quetta (30.12 N, 67.00 E), Pakistan
	Captain Davys I.M.S.		VIII.1911
	[Ex Indian Museum $\frac{1128}{7}$]		Captain Davys I.M.S.
N	1369	N	1369
	<u>Amblyomma testudinarium</u> ♂	RML	22236
	<u>Sus jubatus</u>		1 ♂ <u>Amblyomma testudinarium</u>
	Perak, Malay Peninsula		<u>Sus scrofa jubatus</u>
	Rec'd 19.X.1911		State of Perak (05.00 N, 101.00 E), Malaysia
	Rec'd from Col. A. Alcock, F.R.S. London Sch. Trop. Med.		Rec'd. 19.X.1911
	(Det. by Nuttall & Robinson XI.1911) [Returned 1 ♂ & 1 ♀ to Alcock 3.XI.1911]		Rec'd from Col. A. Alcock, F.R.S. London Sch. Trop. Med.
			P. A. Buxton (London School of Hygiene and Tropical Medicine) donated 3 ♂, 3 ♀ from this collection to R. A. Cooley of RML. Cited: Robinson (1926: 257).
N	1370	N	1370
	<u>Rhipicephalus</u> sp. 1 N	RML	110193
	<u>Tarabagan</u>		1 N <u>Dermacentor</u> sp.
	Sharbada, Mongolia		"Tarabagan," <u>Marmota bobak</u>
	15.VIII.1911		Sharbada, Mongolia (locality not verified)
	Dr. G. L. Tuck		15.VIII.1911
	(Rec'd. mounted in balsam)		Dr. G. L. Tuck

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1371	N	1371
		RML	110194
	<u>Ixodes canisuga</u> ♀'s		6 ♀ <u>Ixodes arboricola</u>
	Starlings nest		<u>Sturnus vulgaris</u> nest
	Framlingham, near Norwich, Norfolk		Framlingham (52.13 N, 01.20 E), Norfolk, England
	VI.1911		VI.1911
	Piggott		Piggott Cited: Nuttall (1916: 326).
	Four tubes of ticks purchased from Mr. T. V. Sherrin, (Taxidermist), Richmond, Surrey, 13.V.1911. Determined as follows:-		
N	1372	N	1372
		RML	115867
	<u>Haemaphysalis neumanni</u> ♀		1 ♀ <u>Haemaphysalis goral</u> Holotype
	<u>Nemorhaedus cinereus</u>		<u>Naemorhedus goral</u> subsp.
	Jehang, China		Probably Jo-heng-chen (28.24 N, 121.31 E), Peoples Republic of China
			Cited: Nuttall & Warburton (1915: 432) as <u>H. bispinosa</u> . Hoogstraal (1970: 1235), original description of <u>H.</u> <u>goral</u> .
N	1373	N	1373
		RML	86211
	<u>Haemaphysalis neumanni</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Haemaphysalis mageshimaensis</u>
	<u>Cervulus</u> sp.		<u>Muntiacus reevesi</u>
	Feng Tuang Shan, An Wei, China		Feng Tuang Shan, Anhwei Province (32.00 N, 117.00 E), Peoples Republic of China
			Cited: Hoogstraal & Santana (1974: 866).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1374

N 1374

RML 22299

Haemaphysalis japonica ♂'s, ♀'s25 ♂ Haemaphysalis japonica

Roebuck

Capreolus capreolus10 miles south of Tan-Chow, Kansu,
China16 km. south of Tan-Chow, Kansu Province
(38.00 N, 102.00 E), Peoples Republic
of China

Cited: Nuttall & Warburton (1915: 403).

N 1375

N 1375

RML 47069

Dermacentor niveus 1 ♂, 1 ♀1 ♂, 1 ♀ Dermacentor sp.

Musk deer

Moschus moschiferusKagan Valley (Alt. 10,500 ft.)
N.W. Frontier, IndiaValley nr. Kayan (34.47 N, 73.32E),
Peshawar, Pakistan (3045 M)These specimens are not D. niveus,
D. everestianus, or D. raskemensis

Ticks received from Dr. J. H. Ashworth, Zoological Dep't., The University, Edinburgh, N. B., 4.XI.1911. Determined by Mr. Warburton, as follows:

Amb1. variegatum N's) off bush-buck Mohytea Plain.
Haem. parmata 1 ♀) Toro, Uganda, B.E. Africa, ? Date. Dr. R. van Someran coll.
Apon. gervaisi) & off cobra (Naia Haie) Sokoto, N. Nigeria. ? Date.
 Dr. J. M. Dalziel coll.

ORIGINAL DETERMINATION

CURRENT STATUS

N	1376	N	1376
		RML	110195
	<u>Ornithodoros coriaceus</u> (2)		1 ♀, 1 N <u>Ornithodoros coriaceus</u>
	Horse blanket		Horse blanket
	Coast Range, California, USA		Coast Range, California, USA
	Sent 31.X.1911		Sent 31.X.1911
	Sent by Dr. Rupert Blue		Sent by Dr. Rupert Blue

Dr. Blue's letter, dated 31.X.1911, states:

"These ticks are found in the Coast Ranges of California. The bite is very much feared by cattlemen in the Santa Clara and Monterey Hills, and it is stated that severe reactions follow at times, such as fever, prostration, sweating and headaches. There is the possibility of its conveying a Spirochaete of some kind."

Dr. Blue encloses a newspaper cutting which states that it occurs in the Mount Hamilton Range, that it attacks man, beasts and birds, and is nocturnal. The hill cattlemen call it the "bird bug."

G.H.F. Nuttall det.

Ticks received from Dr. Seymour Hadwen c/o Experimental Farm, Agassiz,
B. C., Canada III & XI.1911:- G.H.F. Nuttall det.

N	1377	N	1377
		RML	110196
	<u>Ixodes kingi</u> 1 ♀		1 ♀ <u>Ixodes kingi</u>
	Dog		Dog
	Milk River, Alberta, Canada		Milk River (49.08 N, 112.05 W), Alberta, Canada
	VII.1911		VII.1911
	A. Watson		A. Watson
	G.H.F.N. det. 25.VII.1915		Cited: Nuttall (1916: 336).
N	1378	N	1378
		RML	110197
	<u>Ixodes hexagonus</u> ♀		1 ♀ <u>Ixodes rugosus</u>
	Weasel		<u>Mustela</u> sp.
	Mt. Lehman Brit. Columbia		Mt. Lehman (49.43 N, 122.23 W), British Columbia, Canada
	27.I.1911		27.I.1911
	S. Hadwen		S. Hadwen
			Cited: Nuttall (1916: 328).
N	None	N	None MISSING
	<u>Ixodes ricinus</u> ♀		
	Dog		
	Duncan British Columbia		
	25.XII.1910		
	D. Ashby		
	Returned 15.XI.1911		

ORIGINAL DETERMINATIONCURRENT STATUS

N	None	N	None MISSING
	<u>Ixodes ricinus</u> N & L		
	Man's arm		
	Shawnigan Lake, Vancouver Island		
	15.XI.1910		
	E. M. Anderson		
	Returned 15.XI.1911		
	Ticks received from Dr. H. H. Marshall, 4 Voyle Road, Rangoon, Burma, India 14 November, 1911. Posted 9 October 1911:-		
N	1379	N	1379
		RML	110198
	<u>Boophilus australis</u> 4 ♀'s		4 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	1.X.1911		1.X.1911
	H. H. Marshall		H. H. Marshall
N	1380	N	1380
		RML	110199
	<u>Rhipicephalus sanguineus</u> 1 ♂, 2 ♀		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	5.X.1911		5.X.1911
	H. H. Marshall		H. H. Marshall

ORIGINAL DETERMINATIONCURRENT STATUS

N	1381	N	1381
		RML	110200
	<u>Rhipicephalus sanguineus</u> 1 ♀		1 ♀ <u>Rhipicephalus sanguineus</u>
	Off house wall		Off house wall
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	2.X.1911		2.X.1911
	H. H. Marshall		H. H. Marshall
N	1382	N	1382
		RML	110201
	<u>Rhipicephalus sanguineus</u> 2 ♀		2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	X.1911		X.1911
	H. H. Marshall		H. H. Marshall
N	1383	N	1383
		RML	110202
	<u>Boophilus australis</u> 1 ♀ (unfed)		1 ♀ <u>Boophilus microplus</u>
	Calf		Calf
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	30.IX.1911		30.IX.1911
	H. H. Marshall		H. H. Marshall

ORIGINAL DETERMINATIONCURRENT STATUS

N	1384, a	N	1384, a
		RML	86305
	(1384) <u>Boophilus australis</u> ♂ (a) <u>Haemaphysalis bispinosa</u> 1 ♀		(1384) 1 ♂ <u>Boophilus microplus</u> (a) 1 ♀ <u>Haemaphysalis bispinosa</u>
	Goat		Goat
	Rangoon, India		Rangoon (16.47 N, 96.10 E), Burma
	3.IX.1911		3.IX.1911
	H. H. Marshall		H. H. Marshall
			Cited: Nuttall & Warburton (1915: 432).
Received from Hon. N. C. Rothschild [1385-1399].			
N	1385	N	1385
		RML	110203
	<u>Ixodes hexagonus</u> 1 ♀, N's, L's		1 ♀, 8 N, 7 L <u>Ixodes hexagonus</u>
	Ferrets		<u>Mustela furo</u>
	Chatteris, Cambridgeshire		Chatteris (52.27 N, 00.03 E), Cambridgeshire, England
	18.XI.1911		18.XI.1911
	A. Parkinson		A. Parkinson
			The vial label for the larvae is mislabelled N 1835 Cited: Nuttall (1916: 328).
N	1386	N	1386
		RML	110204
	<u>Amblyomma</u> sp. N's, L's		14 N, 2 L <u>Amblyomma</u> sp.
	<u>Cariacus virginianus mexicanus</u>		<u>Odocoileus virginianus</u>
	San Rafael, Vera Cruz, Mexico		San Rafael (20.12 N, 96.51 W), Veracruz, Mexico
	27.III.1903		27.III.1903
	[R 249]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1387	N	1387
		RML	110205
	? Genus 1 N		1 N <u>Dermacentor andersoni</u>
	<u>Lagomys princeps</u>		<u>Ochotona princeps</u>
	Canadian National Park, ? Ottawa, Canada		Probably Banff National Park (51.38 N, 116.22 W), Alberta, Canada
	5.VIII.1899		5.VIII.1899
	J. F. Dippie		J. F. Dippie
	[R 264]		Ontario is far to the east of the ranges of <u>D. andersoni</u> and the pika. The Canadian National Park and the date 1899 indicate that this collection and N 1390 are related.
N	1388	N	1388 MISSING
	<u>Argas</u> sp. 1 L		
	<u>Putorius energermanis</u>		
	Sumas, B. C., Canada		
	III.1903		
	[R 162]		
N	1389	N	1389
		RML	110206
	<u>Ixodes</u> sp. larvae		3 N <u>Ixodes</u> sp.
	<u>Crysomys longicaudatus</u>		<u>Oryzomys longicaudatus</u>
	Valpariso, Chili (sic.)		Valpariso (33.02 S, 71.38 W), Chile
	? Date		? Date
	J. A. Wolffshon		J. A. Wolffshon
	[R 155]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1390	N	1390
		RML	110207
	? genus (has eyes) 2 N		2 N <u>Dermacentor andersoni</u>
	Banff, Alberta, Canada		Banff (51.38 N, 116.22 W), Alberta, Canada
	9.VII.1899		9.VII.1899
	[R 280]		
N	1391	N	1391
		RML	110208
	? genus 4 N		3 N <u>Amblyomma</u> sp.
	<u>Didelphys</u> sp.		<u>Didelphis</u> sp.
	Sapucay, Paraguay, S. America		Sapucay (25.19 S, 56.55 W), Paraguay
	? Date		? Date
	[R 269]		
N	1392	N	1392
		RML	110209
	<u>Amblyomma</u> sp. N's		10 N <u>Amblyomma</u> sp.
	Hare Wallaby (<u>C. conspicillatus</u>)		<u>Lagorchestes conspicillatus</u>
	Barrow Island, N.W. Australia		Barrow Island (30.48 S, 115.23 E), Australia
	[R 187]		
N	1393	N	1393
		RML	110210
	<u>Amblyomma</u> sp. larvae		64 L <u>Amblyomma</u> sp.
	<u>Bettongia penicillata</u>		<u>Bettongia penicillata</u>
	Bokerup, W. Australia		Possibly Bokerup Swamp (34.24 S, 116.50 E), Australia
	20.IV.1900		20.IV.1900
	[R 176]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1394	N	1394
		RML	110211
	<u>Amblyomma</u> sp. 2 N		2 N <u>Amblyomma</u> sp.
	<u>Ontalis vetula macalii</u>		<u>Neotoma alleni vetula</u>
	Frontera, Tabasco, Switzerland (sic.)		Frontera (18.32 N, 92.38 W), Tabasco, Mexico
	18.V		18.V
	[R 227]		
N	1395	N	1395
		RML	110212
	<u>Rhipicephalus</u> sp. N's		2 N <u>Rhipicephalus</u> sp.
	<u>Hyaena crocuta</u>		<u>Hyaena hyaena</u>
	Darie		Darie
	? Date		? Date
	Von Erlanger		Von Erlanger
			See Nuttall 575X for a discussion of possible locations for Darie
N	1396	N	1396
		RML	110213
	<u>Amblyomma</u> sp. 1 N		1 N <u>Amblyomma</u> sp.
	Black squirrel		<u>Sciurus</u> sp.
	Frontera, Tabasco		Frontera (18.32 N, 92.38 W), Tabasco, Mexico
	19.V		19.V
	[R 246]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1397	N	1397
		RML	110214
	<u>Amblyomma</u> sp. larvae		26 L <u>Amblyomma</u> sp.
	<u>Macropus eugenii</u>		<u>Macropus fuliginosus</u>
	Cranbrook, W. Australia		Cranbrook (34.18 S, 117.32 E), Australia
	6.III.1910		6.III.1910
	[R 171]		
N	1398	N	1398
	? genus 1 larva	RML	110215
	<u>Gerbillus gerbillus</u>		1 L <u>Hyalomma</u> sp.
	Zaghig		<u>Gerbillus gerbillus</u>
	1.III.1903		Probably Zagazig now Az Zagaziq (30.35 N, 31.31 E), Egypt
	Hon. N. C. Rothschild		1.III.1903
			Hon. N. C. Rothschild
			The Hon. N. C. Rothschild was in the Nile delta area of Egypt in the early months of 1903 - The Hon. Miriam Rothschild (in litt.)
N	1399	N	1399
		RML	110216
	<u>Ixodes</u> sp. N's		4 N, 4 L <u>Ixodes texanus</u>
	<u>Putorius energermanis</u>		<u>Mustela vison</u>
	Sumas, B.C., Canada		Sumas (49.00 N, 122.13 W), Washington, U.S.A.
	III.1903		III.1903
	[R 162b]		

Ticks purchased from Mr. T. V. Sherrin (taxidermist), The Limes, Nightingale Road, Hampton, 29.VII.1911:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1400	N	1400
		RML	97408
	<u>Haemaphysalis warburtoni</u> TYPES 4 ♂'s, 9 ♀'s		3 ♂, 8 ♀ <u>Haemaphysalis warburtoni</u> 1 ♂ Lectotype, 2 ♂, 8 ♀ paralectotypes
	Serow goat		Probably <u>Capricornis sumatraensis</u> <u>milneedwardsi</u>
	Wen-chwan-hsien, near Si-ho-hsien, China		Wen-Ch'uan (44.59 N, 81.04 E), Sinkiang Province, Peoples Republic of China
	1.VII.1911		1.VII.1911
			Nuttall (1912: 55) original description. Cited: Nuttall & Warburton (1915: 371). Both of the above citations listed 5 ♂, 9 ♀ in the collection. Hoogstraal (1966: 787) selected the ♂ lectotype and listed an additional 1 ♂, 9 ♀ paralectotypes.
N	1401	N	1401
		RML	110217
	<u>Ixodes ricinoides</u> 1 ♀ TYPE		1 ♀ <u>Ixodes nuttallianus</u> Lectotype
	Swamp deer		<u>Hydropotes inermis</u>
	Wen Chwan-hsien, near Si-ho-hsien, China		Wen-Ch'uan (44.59 N, 81.04 E) Sinkiang Province, Peoples Republic of China
	1.VII.1911		1.VII.1911
			Nuttall (1913b: 136), original description. Cited: Clifford et al (1971: 439). Lectotype designated. Keirans & Brewster (1981: 168).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1402	N	1402
	<u>Ixodes ricinoides</u> 4 ♀ TYPES	RML	110218
	Musk deer		3 ♀ <u>Ixodes nuttallianus</u> Paralectotypes
	Wen-Chwan-hsien, near Si-ho-hsien, China		<u>Moschus moschiferus</u>
	1.VII.1911		Wen-Ch'uan (44.59 N, 81.04 E), Sinkiang Province, Peoples Republic of China
			1.VII.1911
			Nuttall (1913: 136), original description. Cited: Clifford et al (1971: 439). Paralectotypes designated: Keirans & Brewster (1981: 163).
N	1403	N	1403 MISSING
	<u>Aponomma</u> sp.		
	<u>Simocephalus butleri</u>		
	Bussu, Uganda, B.E. Africa		
	VII.1911		
N	1404	N	1404 MISSING
	<u>Aponomma</u> sp.		
	<u>Grusus resimus</u>		
	Bussu, Uganda, B.E. Africa		
	VII.1911		
N	1405	N	1405 MISSING
	<u>Aponomma</u> sp.		
	<u>Boodon lineatus</u>		
	Bussu, Uganda, B.E. Africa		
	VII.1911		

Ticks received from the Indian Museum, Calcutta, India (per Dr. N. Annandale), September, 1911. Determined by Mr. C. Warburton, as follows:

<u>Argas reflexus</u> var. <u>indicus</u> (1)	found between the <u>leaves of a book</u> in the Library of the Indian Museum, Calcutta, 18.XII.1907.	Ind. Mus. $\frac{953}{17}$
<u>AmbL. annandalei</u>	♀ Warb., 1910. Off <u>Geoemuda spinora</u> , from Burma, India.	Ind. Mus. $\frac{19}{1}$
<u>Rhip. sanguineus</u>	♂s ♀s. off <u>dog</u> , Shai-Kara-Naraya (---?), India, 29.XII.1907.	Ind. Mus. $\frac{TM}{3}$
Gamasid mites	taken from behind gills of <u>Catla buchmanani</u> , Siripur Savan, India, 23.I.1911. B. L. Chandhuri.	Ind. Mus. $\frac{1078}{17}$
<u>Rhip. sanguineus</u>	♀'s, off <u>dog</u> , recently brought from Nelore, to Calcutta, II-III.1911.	Ind. Mus. $\frac{1049}{19}$
<u>Argas persicus</u> ?	larvae, off <u>crow (Corvus splendens)</u> , Calcutta, 14.III.1911. F.H.G.	Ind. Mus. $\frac{1080}{17}$
<u>Apon. gervaisi</u> var. <u>lucasi</u>	2 ♂'s, off <u>Eryx conicus</u> , Zoological Gardens, Calcutta, 5.III.1911. F.H. Gravely.	Ind. Mus. $\frac{1081}{17}$
<u>Haem. bispinosa</u>	♂'s, off <u>Felis tigris</u> , Neapalgonj, Nepal Frontier, 22.II.1911.	Ind. Mus. $\frac{1082}{17}$
<u>Haem. bispinosa</u>	♂s ♀s N's, off <u>sheep</u> , Shai-Kara Nayara (?) India, Trev. Dux (?)	Ind. Mus. $\frac{TM}{2}$

ORIGINAL DETERMINATIONCURRENT STATUS

N	1406	N	1406
		RML	110219
	<u>Haemaphysalis bispinosa</u> ♂'s, ♀'s		3 ♂, 3 ♀ <u>Haemaphysalis bispinosa</u>
	Sheep		Sheep
	Shai-Kara Nayara, India		Shai-Kara Nayara, India (locality not verified)
	XII.1910		XII.1910
	(Ex Indian Museum Coll) $\frac{TM}{2}$		
N	1407	N	1407
		RML	110220
	<u>Haemaphysalis montgomeryi</u> 1 ♂		1 ♂ <u>Haemaphysalis montgomeryi</u>
	Dog		Dog
	Balaghat, Central Provinces, India		Balaghat (21.48 N, 80.11 E), India
	1908		1908
	S. H. Gaiger		S. H. Gaiger
	Rec'd 23.VII.1911		Cited: Nuttall & Warburton (1915: 397).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1408	N	1408
		RML	110221
	<u>Rhipicephalus neavei</u> 2 ♂, 2 ♀		1 ♂, 1 ♀ <u>Rhipicephalus kochi</u>
	Bush-buck		<u>Tragelaphus scriptus</u>
	Lower Shire Valley, Nyasaland		Nsanje District (16.45 S, 35.10 E), Malawi
	IV.1910		IV.1910
	S. A. Neave		S. A. Neave
	ERC No. 74		
N	1409	N	1409
		RML	110222
	<u>Rhipicephalus sculptus</u> (types) ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus sculptus</u> Lectotype and paralectotypes
	S. Rukuru Valley, N. Nyasaland		Possibly South Rukuru River (10.44 S, 34.14 E), Malawi
	VI.1910		VI.1910
	S. A. Neave		S. A. Neave
	ERC No. 115b		Warburton (1912: 13) original description; cited: Santos Dias (1958: 479). Lectotype designated: Keirans & Brewster (1981: 171).
N	1410	N	1410
		RML	110223
	<u>Rhipicephalus neavei</u> ♂'s		4 ♂ <u>Rhipicephalus kochi</u>
	<u>Lepus whytei</u>		<u>Lepus whytei</u>
	Zomba, Nyasaland		Zomba (15.23 S, 35.20 E), Malawi
	V.1910		V.1910
	S. A. Neave		S. A. Neave
	ERC No. 126a		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1411	N	1411
	<u>Rhipicephalus neavei</u> var <u>punctatus</u> ♂'s, ♀'s	RML	110224
	Kudu		2 ♂, 1 ♀ <u>Rhipicephalus punctatus</u> Lectotype and paralectotype of <u>R. neavei punctatus</u>
	Near Fort Mlangeni, Central Angoniland, B.E. Africa		<u>Tragelaphus strepsiceros</u>
	V.1910		Near Fort Mlangeni (14.41 S, 34.32 E), Ncheu District, Malawi
	S. A. Neave		V.1910
	ERC No. 132		S. A. Neave
			Warburton (1912: 10) original description of <u>R. neavei punctatus</u> . Cited: Walker (1956: 250). Lecto- type designated: Keirans & Brewster (1981: 170, 171).
N	1412	N	1412
	<u>Rhipicephalus neavei</u> ♂, ♀	RML	110225
	Momberas cattle		2 ♂, 1 ♀ <u>Rhipicephalus kochi</u>
	Mombera District, Nyasaland		Momberas cattle
	VI.1910		Mombera (11.41, 33.43 E), Mzimba District, Malawi
	S. A. Neave		VI.1910
	ERC No. 138c		S. A. Neave
N	1413	N	1413
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s	RML	110226
	Eland		2 ♂, 2 ♀ <u>Rhipicephalus kochi</u>
	Mid Luangwa Valley, N.E. Rhodesia		<u>Taurotragus oryx</u>
	31.VIII.1910		Mid Luangwa Valley (vicinity 13.20 S, 31.20 E), Zambia
	S. A. Neave		31.VIII.1910
			S. A. Neave

ORIGINAL DETERMINATIONCURRENT STATUS

N	1414	N	1414
		RML	110227
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus kochi</u> Lectotype and paralectotypes of <u>R. neavei</u>
	Eland		<u>Taurotragus oryx</u>
	Near mouth of Lasangazi River, Luangwa Valley, N.E. Rhodesia		Probably Lusangashi River (vicinity of 13.25 S, 31.34 E), Zambia
	1.IX.1910		1.IX.1910
	S. A. Neave		S. A. Neave
	ERC No. 168		Warburton (1912: 7) original description and on p. 9 spells the locality as Tasangazi River, Luangwe Valley. Walker (1956: 50) noted that on maps of the area the river is also spelled Lusangazi. Santos Dias (1958: 478) indicated that this collection contained 1 ♂, 1 ♀ <u>R.</u> <u>neavei</u> . An additional 14 ♂, 6 ♀ of this collection are in the general tick collection of the BMNH (Reg. No. 1911. 12.5.16-40). Lectotype designated: Keirans & Brewster (1981: 170).
N	1415	N	1415
		RML	110228
	<u>Rhipicephalus simus falcatus</u> ♂'s, ♀'s		5 ♂, 2 ♀ <u>Rhipicephalus longus</u>
	Off grass		Off grass
	Baro, Abyssinia, B.E. Africa		Wadi Baro (07.59 N, 33.22 E), Ethiopia
	16.X.1910		16.X.1910
	J. J. Simpson		J. J. Simpson
	ERC No. 186		
	Note: Transition forms. <u>falcatus</u> is probably nothing but = <u>simus</u> in consequence of finding this lot.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1416	N	1416
		RML	110229
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		2 ♂, 3 ♀ <u>Rhipicephalus simus</u>
	Horse		Horse
	Kontagora, B.E. Africa		Kontagora, Kenya (locality not verified)
	5.X.1910		5.X.1910
	J. J. Simpson		J. J. Simpson
	ERC No. 182		
N	1417	N	1417
		RML	110230
	<u>Amblyomma tholloni</u> ♂'s, ♀'s		3 ♂, 4 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Toro, W. Africa		Toro (00.19 N, 37.56 E), Kenya
	11.II.1910		11.II.1910
	Dr. R. van Someren		Dr. R. van Someren
	ERC No. 188		Vial label reads Toro, British East Africa, which is undoubtedly correct, the van Someren family being well known for Kenyan natural history.
	1 ♂, 1 ♀ to R. Matheson, Cornell, 27.V.1929.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1418	N	1418
		RML	110231
	<u>Rhipicephalus maculatus</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Rhipicephalus maculatus</u>
	Buffalo		<u>Syncerus caffer</u>
	Chiromo, B.C. Africa		Chiromo (16.33 S, 35.08 E), Malawi
	I.1911		I.1911
	D. H.S. Stannus		Dr. H.S. Stannus
	ERC No. 193		
N	1419	N	1419
		RML	110232
	<u>Rhipicephalus maculatus</u> ♂'s		3 ♂ <u>Rhipicephalus maculatus</u>
	Buffalo		<u>Syncerus caffer</u>
	Chiromo, B.C. Africa		Chiromo (16.33 S, 35.08 E), Malawi
	I.1911		I.1911
	Dr. H.S. Stannus		Dr. H.S. Stannus
	ERC No. 194		
N	1420	N	1420
		RML	110233
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		2 ♂, 4 ♀ <u>Rhipicephalus kochi</u>
	Buffalo		<u>Syncerus caffer</u>
	Chiromo, B.C. Africa		Chiromo (16.33 S, 35.08 E), Malawi
	I.1911		I.1911
	Dr. H.S. Stannus		Dr. H.S. Stannus
	ERC No. 194a		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1421	N	1421
		RML	110234
	<u>Amblyomma nuttalli</u> ♂		1 ♂ <u>Amblyomma nuttalli</u>
	Iguana		Iguana
	Offa, S. Nigeria		Either Offa (07.58 N, 04.19 E), or (08.09 N, 04.43 E) Nigeria
	29.IX.1910		29.IX.1910
	R. C. Hiscock		R. C. Hiscock
	ERC No. 210a		Cited: Robinson (1926: 93); Theiler and Salisbury (1959: 115).
N	1422	N	1422
		RML	110235
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		5 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Nairobi, B.E. Africa		Nairobi (01.17 S, 36.49 E), Kenya
	12.IV.1911		12.IV.1911
	T.J. Anderson		T.J. Anderson
	ERC No. 291		Cited: Nuttall & Warburton (1915: 469).
	2 ♂, 1 ♀ to C. Strickland, Malaya		
N	1423	N	1423
		RML	110236
	<u>Amblyomma variegatum</u> ♀'s		3 ♀ <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Near Karunga, E. Shore of Victoria, Nyanza, B.E. Africa		Near Karunga (00.51 S, 34.09 E), Nyanza Region, Kenya
	29.IV.1911		29.IV.1911
	S.A. Neave		S.A. Neave
	ERC No. 302		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1424	N	1424
		RML	110237
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		10 ♂, 6 ♀ <u>Rhipicephalus simus</u>
	Lion		<u>Panthera leo</u>
	Yatta Plains, Ukamba Province (50 miles SE of Nairobi) E. African Protectorate		Yatta Plateau (02.00 S, 38.00 E), Kenya
	20.VII.1911		20.VII.1911
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 317		
N	1425	N	1425
		RML	110238
	<u>Rhipicephalus capensis</u> ♂'s, ♀'s		3 ♂, 5 ♀ <u>Rhipicephalus compositus</u>
	Buffalo (<u>Bos caffer</u>)		<u>Syncerus caffer</u>
	Ruo District, Nyasaland		Perhaps Ruo Basin (15.54 S, 35.39 E), Malawi
	13.VII.1911		13.VII.1911
	J.E.S. 01d		J.E.S. 01d
	ERC No. 312		
N	1426	N	1426
		RML	66677
	<u>Rhipicephalus armatus</u> ♂'s, ♀'s		4 ♂, 2 ♀ <u>Rhipicephalus armatus</u>
	Wild dog		<u>Lycaon pictus</u>
	Mowa River (60 mi SE of Kitui) E. African Protectorate		Mowa River 96 km SE of Kitui (01.22 S, 38.01 E), Kenya
	V.1911		V.1911
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 320		Note in vial: 1 ♂, 1 ♀ taken by M. Sharif 16.VI.1936

ORIGINAL DETERMINATIONCURRENT STATUS

N	1427	N	1427
		RML	110239
	<u>Aponomma exornatum</u> 2 ♂, 1 ♀, 2 N		2 ♂, 1 ♀, 2 N <u>Aponomma flavomaculatum</u>
	Large lizard (Iguana?)		Large lizard (Iguana?)
	Caught in house at Nimule, Uganda B.E. Africa		Caught in house at Nimule, Uganda (locality not verified)
	VII.1911		VII.1911
	Dr. R.E. McConnell		Dr. R.E. McConnell
	ERC No. 301		
N	1428	N	1428 MISSING
	<u>Amblyomma marmoreum</u> 2 ♂, ♀		
	Rhinoceros		
	Yatta Plains, Kitui, E. African Protectorate		
	8.V.1911		
	S.W.J. Scholefield		
	ERC No. 324		
N	1429	N	1429 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		
	Cattle		
	Dokolo, B.E. Africa		
	2.IV.1911		
	C.C. Gowdey		
	ERC No. 294		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1430	N	1430
		RML	110240
	<u>Rhipicephalus maculatus</u> ♂		1 ♂ <u>Rhipicephalus maculatus</u>
	Off grasses		Off grasses
	On road to Kilossa, S. Usagara, German East Africa		On road to Kilosa (06.50 S, 36.59 E), Morogoro Region, Tanzania
	XII.1910		XII.1910
	S.A. Neave		S.A. Neave
	ERC No. 205a		
N	1431	N	1431
		RML	110241
	<u>Rhipicephalus sulcatus</u> 2 ♀'s		2 ♀ <u>Rhipicephalus sulcatus</u>
	Domestic cat		Domestic cat
	Zomba, Nyasaland		Zomba, (15.23 S, 35.20 E), Malawi
	14.XII.1910		14.XII.1910
	A.M.D. Turnbull		A.M.D. Turnbull
	ERC No. 251		
N	1432	N	1432
		RML	110242
	<u>Amblyomma gemma</u> 3 ♂, 1 ♀		3 ♂, 1 ♀ <u>Amblyomma gemma</u>
	<u>Oryx calotis</u>		<u>Oryx gazella</u>
	Mowa River (60 miles SE of Kitui), B.E. Africa		Mowa River, 96 km SE of Kitui (01.22 S, 38.01 E), Kenya
	V.1911		V.1911
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 321a		Cited: Robinson (1926: 122).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1433	N	1433
		RML	110243
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		3 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	<u>Rhinoceros</u>		<u>Diceros bicornis</u>
	Yatta Plains, Ukamba Province (50 miles SE of Nairobi), B.E. Africa		Yatta Plateau (02.00 S, 38.00 E), Kenya
	6.VIII.1910		6.VIII.1910
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 316a		
N	1434	N	1434
		RML	110244
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		1 ♂, 2 ♀ <u>Rhipicephalus simus</u>
	Dog		Dog
	Lango, Uganda, B.E. Africa		District of Lango (20.10 N, 33.00 E), Uganda
	VI.1911		VI.1911
	Dr. McConnell		Dr. McConnell
	ERC No. 300d		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1435	N	1435
		RML	110245
	<u>Amblyomma petersi</u> 4 ♂'s		3 ♂ <u>Amblyomma rhinocerotis</u>
	Rhinoceros		<u>Diceros bicornis</u>
	Yatta Plains, Ukamba Province (50 miles SE of Nairobi), B.E. Africa		Yatta Plateau (02.00 S, 38.00 E), Kenya
	6.VIII.1910		6.VIII.1910
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 315c		Cited: Robinson (1926: 264).
	1 ♂ to Prof. R. Matheson, Cornell, 27.V.1929		
N	1436	N	1436
		RML	110246
	<u>Ornithodoros savignyi</u> (6)		1 ♂, 2 ♀, 3 N <u>Ornithodoros savignyi</u>
	Found in dust (where hartebeeste and rhino roll)		Found in dust (where <u>Alcephus buselophus</u> and <u>Diceros bicornis</u> roll)
	Yatta Plains, Ukamba Province B.E. Africa		Yatta Plateau (02.00 S, 38.00 E), Kenya
	5.VIII.1910		5.VIII.1910
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 318		
N	1437	N	1437
		RML	110247
	<u>Amblyomma variegatum</u> ♂'s, 1 ♀		9 ♂, 1 ♀ <u>Amblyomma variegatum</u>
	Goats		Goats
	Teita Hills, near Voi, B.E. Africa		Teita Hills, near Voi (03.23 S, 38.34 E), Kenya
	11.IX.1911		11.IX.1911
	R. P. Thomas		R. P. Thomas
	ERC No. 330		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1438	N	1438
		RML	110248
	<u>Amblyomma marmoreum</u> ♂'s, ♀'s		2 ♂, 1 ♀ <u>Amblyomma sparsum</u>
	Rhinoceros		<u>Diceros bicornis</u>
	Yatta Plains, Ukamba Province, B.E. Africa		Yatta Plateau (02.00 S, 38.00 E), Kenya
	6.VIII.1910		6.VIII.1910
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 315a (1 ♀ mounted in cell on slide II.1915)		Slide missing Cited: Robinson (1926: 90).
N	1439	N	1439
		RML	110249
	<u>Rhipicephalus sulcatus</u> 3 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus sulcatus</u>
	Domestic cat		Domestic cat
	Zomba, Nyasaland, B.C. Africa		Zomba (15.23 S, 35.20 E), Malawi
	8.XII.1910		8.XII.1910
			A.M.D. Turnbull
			Collector's name on vial label
N	1440	N	1440
		RML	110250
	<u>Dermacentor rhinocerotis</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Dermacentor rhinocerinus</u>
	Rhinoceros		Either <u>Diceros bicornis</u> or <u>Ceratotherium simum</u>
	Lango, Uganda, B.E. Africa		District of Lango (02.10 N, 33.00 E), Uganda
	VII.1911		VII.1911
	Dr. McConnell		Dr. McConnell
	ERC No. 299a 1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, German East Africa 22.VII.1914		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1441	N	1441
		RML	110251
	<u>Rhipicephalus falcatus</u> ♂'s, ♀'s		13 ♂, 12 ♀ <u>Rhipicephalus senegalensis</u>
	Off grass		Off grass
	Zomba, Nyasaland		Zomba (15.23 S, 35.20 E), Malawi
	1910		1910
	Dr. J.E.S. Old		Dr. J.E.S. Old
N	1442	N	1442
		RML	110252
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		14 ♂, 4 ♀ <u>Rhipicephalus pravus</u>
	Lesser Kudu		<u>Tragelaphus imberbis</u>
	Makindu, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	6.IV.1911		6.IV.1911
	S.A. Neave		S.A. Neave
	ERC No. 262a		
	1 ♂, 1 ♀ to Dr. S. Hadwen, British Columbia, Canada 10.X.1913		
	1 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1443	N	1443
		RML	110299
	<u>Amblyomma nuttalli</u> 1 ♀ (gorged)		1 ♀ <u>Amblyomma nuttalli</u>
	Iguana (2 ft. long)		Iguana
	Offa, S. Nigeria		Either Offa (07.58 N, 04.19 E) or Offa (08.09 N, 04.43 E), Nigeria
	2.XI.1910		2.XI.1910
	R.C. Hiscock		R.C. Hiscock
	ERC No. 209a		Cited: Robinson (1926: 93); Theiler & Salisbury (1959: 115) incorrectly gave the collection date as 29.IX.1910.
N	1444	N	1444
		RML	110300
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		5 ♂, 5 ♀ <u>Rhipicephalus kochi</u>
	Old Roan Antelope		<u>Hippotragus equinus</u>
	Maplua, Marimba, Nyasaland		Maplua, Malawi (locality not verified)
	I.1911		I.1911
	Dr. J.E.S. Old		Dr. J.E.S. Old
	ERC No. 226		Vial label date reads I.1910
N	1445	N	1445 MISSING
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		
	Teita Hills, near Voi, B.E. Africa		
	11.IX.1911		
	R.P. Thomas		
	ERC No. 328		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1446	N	1446
		RML	110301
	<u>Rhipicephalus pulchellus</u>		1 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	Rhinoceros		<u>Diceros bicornis</u>
	Yatta Plains, Ukamba Province (50 miles SE of Nairobi), B.E. Africa		Yatta Plateau (02.00 S, 38.00 E) Kenya
	6.VIII.1910		6.VIII.1910
	S.W.J. Scholefield		S.W.J. Scholefield
	ERC No. 315		The 2 ♀ specimens are pinned. 1 ♂ specimen is in a jar marked "Tick abnormalities" and has been figured by Nuttall (1914a: 255)
N	1447	N	1447
		RML	110302
	<u>Rhipicephalus neavei</u>		8 ♂, 3 ♀ <u>Rhipicephalus pravus</u>
	Impala		<u>Aepyceros melampus</u>
	Makindu, Uganda, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	6.IV.1911		6.IV.1911
	S. A. Neave		S. A. Neave (see N 1442)
	ERC No. 260a		
N	1448	N	1448
		RML	110303
	<u>Rhipicephalus sculptus</u> 4 ♂, 3 ♀		3 ♂, 2 ♀ <u>Rhipicephalus sculptus</u> SYNTYPES
	Roan antelope		<u>Hippotragus equinus</u>
	Mpalali River, Marimba, Myasaland		Possibly Mpala River now known as Mipala River (15.55 S, 35.16 E), Malawi Dr J.E.S. Old
	Dr. J.E.S. Old 1.I.1911 ERC No. 227a		1.I.1911 Warburton (1912:13) original descrip- tion. The vulva of one ♀ is mounted on a slide. For a photograph of this genital aperture see Feldman-Muhsam (1956)

ORIGINAL DETERMINATIONCURRENT STATUS

N	1449	N	1449
		RML	110304
	<u>Rhipicephalus lunulatus</u> 2 ♂'s		1 ♂ <u>Rhipicephalus lunulatus</u> 1 ♂ <u>Rhipicephalus simus</u>
	Dog		Dog
	Lango, Uganda B.E. Africa		District of Lango (02.10 N, 33.00 E), Uganda
	VI.1911		VI.1911
	Dr. McConnell		Dr. McConnell
N	1450	N	1450
		RML	110305
	<u>Rhipicephalus masseyi</u> ♂'s		2 ♂ <u>Rhipicephalus muehlensi</u>
	Lesser Kudu		<u>Tragelaphus imberbis</u>
	Makindu, B.E. Africa		Makindu (02.17 S, 37.49 E), Kenya
	6.IV.1911		6.IV.1911
	S.A. Neave		S.A. Neave
	ERC No. 262c		Except for the suffix on ERC 262, this appears to be part of N 1442
N	1451	N	1451
		RML	110306
	<u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus lunulatus</u>
	Roan Antelope		<u>Hippotragus equinus</u>
	Mpalai River, Marimba, Nyasaland		Possibly Mpala River now known as Mipala River (15.55 S, 35. 16 E), Malawi
	1.I.1911		1.I.1911
	Dr. J.E.S. Old		Dr. J.E.S. Old
	ERC No. 227h		Except for the suffix on ERC 227, this appears to be part of N 1448.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1452	N	1452
		RML	110307
	<u>Haemaphysalis</u> sp. 1 N		1 N <u>Haemaphysalis</u> sp.
	Mouse		Mouse
	W. Foot of Aberdare Mountains, B.E. Africa		W. Foot of Aberdare Mountains (00.25 S, 36.38 E), Kenya
	1.III.1911		1.III.1911
	S.A. Neave		S.A. Neave
	ERC No. 270a		
N	1453	N	1453
		RML	110308
	<u>Ixodes</u> sp. 3 N		3 N <u>Ixodes</u> sp.
	<u>Crosidura</u> sp.		Probably <u>Crosidura</u> sp.
	E. Foot of Aberdare Mountains B.E. Africa		E. Foot of Aberdare Mountains (00.25 S, 36.38 E), Kenya
	26.III.1911		26.III.1911
	S.A. Neave		S.A. Neave
	ERC No. 268		
N	1454	N	1454
		RML	110309
	<u>Rhipicephalus</u> sp. N's		3 N <u>Rhipicephalus</u> sp.
	Guinea-fowl (<u>Numida mitratus</u>)		<u>Numida meleagris</u>
	Lower Lilongwe River, Central Angoniland Nyasaland, B.C. Africa		Lilongwe River (15.57 S, 35.07 E), District of Cholo, Malawi
	X.1910		X.1910
	S.A. Neave		S.A. Neave
	ERC No. 211		Two different species of <u>Rhipicephalus</u> are present in this collection.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1455	N	1455
		RML	110310
	<u>Ixodes</u> sp. 1 N		1 N <u>Ixodes</u> sp.
	Mouse		Mouse
	W. Foot of Aberdare Mountains, B.E. Africa		W. Foot of Aberdare Mountains (00.25 S, 36.38 E), Kenya
	1.III.1911		1.III.1911
	S.A. Neave		S.A. Neave
	ERC No. 270b		Except for the suffix on ERC 270, this appears to be part of N 1452
N	1456	N	1456
		RML	110311
	<u>Rhipicephalus</u> sp. 2 N's		2 N <u>Rhipicephalus</u> sp.
	"Self"		<u>Homo sapiens</u>
	Taveta Road, B.E. Africa		Taveta area (03.30 S, 37.42 E), Coast Region, Kenya
	1911		1911
	R.P. Thomas		R.P. Thomas
	ERC No. 327		
N	1457	N	1457
		RML	110312
	<u>Amblyomma</u> sp. 2 L's		2 L <u>Amblyomma</u> sp.
	Rhinoceros		Either <u>Diceros bicornis</u> or <u>Ceratotherium simum</u>
	Lango, Uganda, B.C. Africa		District of Lango (02.10 N, 33.00 E), Uganda
	VII.1911		VII.1911
	Dr. McConnell		Dr. McConnell
	ERC No. 299c		Except for the suffix on ERC 299, this appears to be part of N 1440

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1458	N	1458
		RML	110313
	Genus 4 N, 1 L		1 N <u>Amblyomma</u> sp.
	Water-buck		<u>Kobus ellipsiprymnus</u>
	Masengari, L. Shire, Nyasaland, B.C. Africa		Masengari, District of Nsanje (16.45 S, 35.10 E), Malawi
	VIII.1910		VIII.1910
	Dr. J.E.S. Old		Dr. J.E.S. Old
	ERC No. 274		
N	1459	N	1459
		RML	110314
	<u>Rhipicephalus neavei</u>		3 ♂, 1 ♀ <u>Rhipicephalus kochi</u>
	Eland		<u>Taurotragus oryx</u>
	Mid Luangwa Valley, N.E. Rhodesia		Mid Luangwa Valley (vicinity of 13.20 S, 31.20 E), Zambia
	10.IX.1910		10.IX.1910
	S. A. Neave		S. A. Neave
	ERC No. 167a		Except for the collection date this Nuttall collection is identical with N 1413.
N	1460	N	1460
		RML	110315
	<u>Rhipicephalus longus</u> 1 ♂ (Type!)		1 ♂ <u>Rhipicephalus longus</u> TYPE
	Cattle		Cattle
	Kasongo, Nyasaland, B.C. Africa		Kasonga (15.18 S, 35.17 E), District of Zomba, Malawi
	Rec'd IX.1911		Rec'd IX.1911
	Rec'd from Liverpool School of Trop- ical Medicine. (<u>Rhip. falcatus</u>) (Presented to our collection by Prof. R. Newstead 8.III.1912).		Neumann (1907:117) original description. Cited: Santos Dias (1958: 473,474).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	None	N	None MISSING
	<u>Ixodes ricinus</u> ♀		
	No data		
	In the Newcastle Museum. Sent by Mr. R.S. Bagnall, Penshaw Lodge, Penshaw, Co. Durham, 22.XII.1911 for identification. Returned 29.XII.1911		
N	1461	N	1461
		RML	110316
	<u>Rhipicephalus appendiculatus</u> larvae (gorged)		36 L <u>Rhipicephalus appendiculatus</u>
	Cape Colony, Africa		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C.P. Lounsbury, Dept. of Agriculture		Rec'd from Mr. C.P. Lounsbury, Dept. of Agriculture
N	1462	N	1462
		RML	110317
	<u>Rhipicephalus appendiculatus</u> N's (unfed)		8 N <u>Rhipicephalus appendiculatus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C.P. Lounsbury Dept. of Agriculture		Rec'd from Mr. C.P. Lounsbury, Dept. of Agriculture
	2 ♂, 2 ♀ to Prof Sadeo Yoshida at Cambridge. 21XII.1920; 2 ♂, 2 ♀ to P.A. Buxton at Cambridge 10.II.1921; 2 ♂, 2 ♀ to Dr. D.A. de Young at Cambridge, 8.IV.1921; 2 ♂, 2 ♀ to Prof. G. Hedger-Wallace Univ. of Wales, Cardiff, 1921; 2 ♀ to Dr. S.H. Daukes, Wellcome Bureau, London, 9.I.1924		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1463	N	1463
		RML	110318
	<u>Hyalomma aegyptium</u> 2♀		2 ♀ <u>Hyalomma</u> sp.
	No particulars		No particulars
	Rec'd 1906		Rec'd 1906
	Rec'd from Mr. E.G. Wheler, Warwick		Rec'd. from Mr. E.G. Wheler, Warwick
N	1464	N	1464
		RML	110319
	<u>Hyalomma aegyptium</u> ♂		1 ♂, 1 ♀ <u>Hyalomma aegyptium</u>
	No particulars		No particulars
	Rec'd 1906		Rec'd 1906
	Rec'd. from Mr. E.G. Wheler Warwick		Rec'd from Mr. E.G. Wheler, Warwick
N	1465	N	1465
		RML	110320
	<u>Boophilus australis</u> ♀'s		5 ♀ <u>Boophilus annulatus</u>
	Probably College Station, Texas		Probably College Station (30.37 N, 96.21 W), Texas, USA
	Rec'd 1906		Rec'd 1906
	From Mr. Francis		From Mr. Francis
	Rec'd. from Mr. Wheler, Warwick, 1906		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1466	N	1466
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s	RML	110321
	Cape Colony, S. Africa		2 ♂, 5 ♀ <u>Hyalomma rufipes</u>
	Rec'd 1906		Cape Colony, Republic of South Africa
	Rec'd from Mr. C.P. Lounsbury		Rec'd 1906
			Rec'd from Mr. C.P. Lounsbury
N	1467	N	1467 MISSING
	<u>Rhipicephalus appendiculatus</u> larvae		
	E. London, South Africa		
	Rec'd 18.IV.1905		
	Rec'd from Dr. Williamson		
N	1468	N	1468 MISSING
	<u>Rhipicephalus appendiculatus</u> gorged larvae		
	E. London, South Africa		
	Rec'd 18.IV.1905		
	Rec'd from Dr. Williamson		
N	1469	N	1469 MISSING
	<u>Rhipicephalus appendiculatus</u> nymphs		
	E. London, South Africa		
	Rec'd 18.IV.1905		
	Rec'd from Dr. Williamson		
N	1470	N	1470 MISSING
	<u>Rhipicephalus appendiculatus</u> 1 gorged nymph		
	E. London, South Africa		
	Rec'd 18.IV.1905		
	Rec'd from Dr. Williamson		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1471	N	1471 MISSING
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		
	E. London, South Africa		
	Rec'd 18.IV.1905		
	Rec'd from Dr. Williamson		
N	1472	N	1472
		RML	110322
	<u>Rhipicephalus appendiculatus</u> larvae (unfed)		+ 200 L <u>Rhipicephalus appendiculatus</u>
	Cape Colony, South Africa		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd. III.1906
	Rec'd from Mr. C.P. Lounsbury Gov't. Entomologist, Dept. of Agriculture		Rec'd from Mr. C.P. Lounsbury, Gov't. Entomologist, Dept. of Agriculture
N	1473	N	1473
		RML	110323
	<u>Rhipicephalus appendiculatus</u> ♀'s		1 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	Rec'd III.1906		Rec'd III.1906
	Rec'd from Mr. C.P. Lounsbury Gov't. Entomologist, Dept. of Agriculture		Rec'd from Mr. C.P. Lounsbury, Gov't. Entomologist, Dept. of Agriculture

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1474	N	1474
		RML	110324
	<u>Rhipicephalus appendiculatus</u> ♀'s (young)		4 ♀ <u>Rhipicephalus appendiculatus</u>
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	Rec'd. III.1906		Rec'd III.1906
	Rec'd. from Mr. C.P. Lounsbury Gov't. Entomologist, Dept. of Agriculture		Rec'd from Mr. C.P. Lounsbury, Gov't. Entomologist, Dept. of Agriculture
N	1475	N	1475 MISSING
	<u>Amblyomma hebraeum</u> larvae		
	East London, S. Africa		
	Rec'd 1906		
	Rec'd from Dr. Williamson		
N	1476	N	1476
		RML	110325
	<u>Amblyomma hebraeum</u> Larvae (gorged)		10 L <u>Amblyomma hebraeum</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Raised in laboratory, Cambridge		Raised in laboratory, Cambridge (52.13 N, 00.08 E), England
	21.II.1906		21.II.1906
			Cited: Robinson (1926: 107).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1477 <u>Amblyomma hebraeum</u> nymphs Hedgehog Raised in laboratory, Cambridge 21.II.1906	N	1477 MISSING
N	1478 <u>Amblyomma hebraeum</u> ♂ Hedgehog Raised in laboratory, Cambridge 21.II.1906	N RML	1478 110326 1 ♂ <u>Amblyomma hebraeum</u> <u>Erinaceus europaeus</u> Raised in laboratory, Cambridge (52.13 N, 00.08 E), England 21.II.1906
N	1479 <u>Amblyomma hebraeum</u> ♀'s Hedgehog Raised in laboratory, Cambridge 21.II.1906	N	1479 MISSING
N	1480 <u>Amblyomma hebraeum</u> ♀'s Hedgehog Raised in laboratory, Cambridge 21.II.1906	N	1480 MISSING
N	1481 <u>Amblyomma hebraeum</u> ♂, ♀ No particulars Rec'd. 1906 Rec'd, from Mr. E.G. Wheeler, Warwick	N	1481 MISSING

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1482	N	1482
	<u>Amblyomma hebraeum</u> ♂, ♀	RML	110327
	No particulars		1 ♂, 1 ♀ <u>Amblyomma hebraeum</u>
	Rec'd 1906		No particulars
	Rec'd from Mr. E.G. Wheler Warwick		Rec'd 1906
			Rec'd from Mr. E.G. Wheler, Warwick
N	1483	N	1483 MISSING
	<u>Amblyomma hebraeum</u> larval skins		
	Raised in Cambridge		
	1906		
	Parents received from Mr. Lounsbury, Cape Colony, S. Africa, III.1906.		
N	1484	N	1484
	<u>Amblyomma hebraeum</u> gorged larvae	RML	110328
	Raised in Cambridge		364 L <u>Amblyomma hebraeum</u>
	1906		Raised in Cambridge (52.13 N, 00.08 E), England
	Parents received from Mr. Lounsbury, Cape Colony, S. Africa, III.1906		1906
			Parents received from Mr. Lounsbury, Cape Colony, S. Africa, III.1906
N	1485	N	1485 MISSING
	<u>Amblyomma hebraeum</u> gorged larvae		
	Raised in Cambridge		
	1906		
	Parents rec'd from Mr. Lounsbury, Cape Colony, South Africa, III.1906		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1486	N	1486 MISSING
	<u>Amblyomma hebraeum</u> ♂, ♀		
	Raised in Cambridge		
	1906		
	Parents received from Mr. Lounsbury, Cape Colony, S. Africa, III.1906		
	1 ♀ to Dr.J.G. Parham, Portuguese East Africa, 18.IV.1913; 1 ♀ to N.Y. National Museum, 18.IV.1913; Some (sex/stage not stated) to Dr. Longin Navas, Zaragoza Spain, 28.V.1913		
N	1487	N	1487 MISSING
	<u>Amblyomma hebraeum</u> ♀'s gorged		
	East London, South Africa		
	Rec'd 1.V.1905		
	Rec'd from Dr. Williamson		
N	1488	N	1488
		RML	110329
	<u>Amblyomma hebraeum</u> (½ gorged)		3 ♀ <u>Amblyomma hebraeum</u>
	East London, South Africa		East London (33.02 S, 27.55 E), Republic of South Africa
	Rec'd 1.V.1905		Rec'd 1.V.1905
	Rec'd from Dr. Williamson		Rec'd from Dr. Williamson

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1489	N	1489 MISSING
	<u>Amblyomma hebraeum</u> ♀'s (gorged)		
	East London, South Africa		
	Rec'd 5.VI.1905		
	Rec'd from Dr. Williamson		
N	1490	N	1490 MISSING
	<u>Amblyomma hebraeum</u> nymphal skins		
	Raised in Cambridge		
	Rec'd 1.V.1905		
	Rec'd from Dr. Williamson, E. London, South Africa		
N	1491	N	1491 MISSING
	<u>Amblyomma hebraeum</u> ♂		
	Pretoria, Transvaal, S. Africa		
	Rec'd 1.VI.1908		
	Rec'd from Dr. A. Theiler, Dept. of Agriculture		
N	1492	N	1492
		RML	110330
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		7 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Reared on cattle		Reared on Cattle
	Rosebank, S. Africa		Rosebank (33.57 S, 18.28 E), Republic of South Africa
	8.III.1905		8.III.1905

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1493	N	1493 MISSING
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		
	Cattle		
	Kuysna, Cape Colony, S. Africa		
	1901-1903		
	Vet-Surgeon Robinson		
N	1494	N	1494
		RML	110331
	<u>Rhipicephalus capensis</u> ♂'s		8 ♂ <u>Rhipicephalus capensis</u>
	Horse		Horse
	Douglas, near Kimberley, S. Africa		Douglas (29.04 S, 23.46 E), near Kimberley, Republic of South Africa
	X.1904		X.1904
	S. Orpen		S. Orpen
N	1495	N	1495
		RML	110332
	<u>Rhipicephalus nitens</u> ♂, ♀		1 ♂, 4 ♀ <u>Rhipicephalus nitens</u>
	Goats		Goats
	Stellenbosch, S. Africa		Stellenbosch (33.56 S, 18.51 E), Republic of South Africa
	XII.1902		XII.1902
			Three of the above 4 ♀ look a good deal like <u>R. supertritus</u> .

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1496	N	1496 MISSING
	<u>Amblyomma cajennense</u> ♀'s, N's		
	Jamaica		
	1902		
	Rec'd from Mr. E. G. Wheeler, Warwick		
	Ticks received from Hon. N. C. Rothschild, M.A., Arundel House, Kensington Palace Gardens, London, W., 16 January 1912.		
N	1497	N	1497
		RML	110333
	<u>Dermacentor</u> sp. 1 N		1 N <u>Dermacentor albipictus</u>
	Moose		<u>Alces alces</u>
	New Brunswick, Canada		New Brunswick, Canada
	30.XI.1911		30.XI.1911
	J. Birrell		J. Birrell
N	1498	N	1498
		RML	110334
	<u>Dermacentor albipictus</u> 1 ♂		1 ♂ <u>Dermacentor albipictus</u>
	Man (Dr. Walker)		Man (Dr. Walker)
	New Brunswick, Canada		New Brunswick, Canada
	29.XI.1911		29.XI.1911
	J. Birrell		J. Birrell

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1499	N	1499
		RML	110335
	<u>Dermacentor albipictus</u> 2♂		2 ♂ <u>Dermacentor albipictus</u>
	Moose		<u>Alces alces</u>
	New Brunswick, Canada		New Brunswick, Canada
	30.XI.1911		30.XI.1911
	J. Birrell		J. Birrell
			Date on vial label is 30.XII.1911
N	1500	N	1500
		RML	110336
	<u>Dermacentor albipictus</u> 2 ♂, 2 ♀, 1 N		2 ♂, 1 ♀, 1 N <u>Dermacentor albipictus</u>
	Carabou		<u>Rangifer tarandus</u>
	New Brunswick, Canada		New Brunswick, Canada
	25.XI.1911		25.XI.1911
	J. Birrell		J. Birrell
N	1501	N	1501
		RML	110337
	<u>Dermacentor sp.</u> 1 N		1 N <u>Dermacentor albipictus</u>
	Carabou		<u>Rangifer tarandus</u>
	New Brunswick, Canada		New Brunswick, Canada
	25.XI.1911		25.XI.1911
	J. Birrell		J. Birrell

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1502	N	1502
	<u>Dermacentor</u> sp. 1 N	RML	110338
	Carabou		1 N <u>Dermacentor albipictus</u>
	New Brunswick, Canada		<u>Rangifer tarandus</u>
	25.XI.1911		New Brunswick, Canada
	J. Birrell		25.XI.1911
			J. Birrell
N	1503	N	1503
	<u>Dermacentor</u> sp. 1 ♂	RML	110339
	Carabou		5 N <u>Dermacentor albipictus</u>
	New Brunswick, Canada		<u>Rangifer tarandus</u>
	25.XI.1911		New Brunswick, Canada
	J. Birrell		25.XI.1911
	Lost?		J. Birrell
N	1504	N	1504
	<u>Ixodes hexagonus</u> 1 ♀	RML	110340
	Black cat		1 ♀ <u>Ixodes cookei</u>
	New Brunswick, Canada		Black cat
	19.XII.1911		New Brunswick, Canada
	J. Birrell		19.XII.1911
	[Not typical-bad condition; possibly <u>I. rubidus</u>]		J. Birrell
			Cited: Nuttall (1916: 328).

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received from Dr. S. T. Darling, Board of Health Laboratory, Ancon, Panama Canal Zone, 24 January 1912.

N	1505	N	1505 MISSING
	<u>Amblyomma cajennense</u> 1 ♀		
	Man		
	Ancon, Canal Zone		
	XI.1911		
	S. T. Darling ("130")		
N	1506	N	1506 MISSING
	<u>Argas persicus</u>		
	From cracks and joints in doors and trap nests of poultry house		
	Ancon, Canal Zone		
	XII.1911		
	S. T. Darling		
N	1507	N	1507
		RML	110341
	<u>Haemaphysalis leporis</u>		1 ♀, 63 L <u>Haemaphysalis leporis-palustris</u> (tentative ID)
	Conejo (<u>Dasyprocta</u> sp.)		<u>Dasyprocta punctata</u>
	Mataichin, Canal Zone		Mataichin, Canal Zone (locality not verified)
	29.IX.1911		29.IX.1911
	S. T. Darling		S. T. Darling The ♀ & larvae are in separate tubes. Nuttall & Warburton (1915: 394) incorrectly give the collection number as N 1907.

Ticks received from the Indian Museum Calcutta, India (per Dr. N. Annandale)
23 January 1912. Determined by Mr. C. Warburton, as follows:

Hyalomma syriacum ♂'s, 1 ♀ off Testudo ibera Pall, Banias. Mt. Hermon, Palestine
(No. $\frac{1171}{17}$) Dr. J. Anderson coll.

Hyalomma syriacum ♂'s, ♀'s, off Testudo ibera, Pall, Banias. Mt. Hermon, Palestine
(No. $\frac{1172}{17}$) Dr. J. Anderson coll.

Hyalomma syriacum 1 ♂, off Testudo horsfieldi Gray, Jugdulluk, Afghanistan, India
Major Kinloch coll. (No. $\frac{1173}{14}$)

Rhipicephalus sanguineus ♀'s, off jackal (Canis aureus), albino. Zoological Gardens
Calcutta (No. $\frac{1174}{17}$)

Rhipicephalus haemaphysaloides 1 ♂, off ?, W. Slopes of Pegu Yomas (1,300 ft.),
Thayetmyo District, L. Burma, 4-8.XI.1911, C.J. Rogers (No. $\frac{1175}{17}$)

Mites (Pteropus sp. & Gamasus sp.) off bats (Vesperugo tickelli Blyth), Balighai,
near Puri, Orissa. N. Annandale & F.H. Gravely coll. (No. $\frac{1176}{17}$)

Amblyomma atrogenatum ♂, 1 ♀ & o, off Testudo elegans, near Shore, West Coast
of Ceylon. T. Southwell coll. (No. $\frac{1177}{17}$)

Hyalomma syriacum 1 o, off "Man", Myawadi, Burmo-Siamese Frontier, Amherst District,
L. Burma. F.H. Gravely coll. (No. $\frac{1197}{17}$)

Mites (Uropoda sp.) off long-tailed bat (Rhinopoma microphyllum), Damathut,
Guaing R., Amherst District, L. Burma. F.H. Gravely coll. (No. $\frac{1198}{17}$)

Ornithodoros savignyi off?, Sheikh Othman, Aden, India. J.H. Ashworth coll.
(No. $\frac{981}{17}$)

ORIGINAL DETERMINATIONCURRENT STATUS

N	1508	N	1508
		RML	110343
	<u>Argas brumpti</u> (10 specimens)		1 ♂, 7 N <u>Argas brumpti</u>
	Found "in the dust of an ant-hill where game rolled"		Found "in the dust of an anthill where game rolled"
	Kitui, British East Africa		Kitui (01.22 S, 38.01 E), Kenya
	I.1912		I.1912
	Dr. S. W. J. Scholefield		Dr. S. W. J. Scholefield
	Rec'd from Dr. P. H. Ross, Nairobi, B.E. Africa 1.II.1912		Vial label lists locality as Nairobi Kenya
N	1509	N	1509
		RML	66675
	<u>Rhipicephalus rossicus</u> 3 ♂, 2 ♀ Yakimoff, 1911		3 ♂, 2 ♀ <u>Rhipicephalus rossicus</u>
	Dogs		Dogs
	Saratow Government, Russia		Saratov (51.34 N, 46.02 E), USSR
	Presented 24.I.1912		Presented 24.I.1912
	Presented by Dr. W. L. Yakimoff		Presented by Dr. W. L. Yakimoff
N	1510	N	1510
		RML	110342
	<u>Hyalomma syriacum</u> 2 ♂'s		2 ♂ <u>Hyalomma aegyptium</u>
	<u>Testudo ibera</u> Pall		<u>Testudo graeca ibera</u>
	Banias, Mt. Hermon, Palestine		Hermon, Nahal (33.13 N, 35.38 E), Israel
	Dr. J. Anderson		Dr. J. Anderson
	[ex Indian Museum $\frac{1171}{17}$]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1511	N	1511
		RML	110344
	<u>Rhipicephalus sanguineus</u> 2 ♀'s		2 ♀ <u>Rhipicephalus sanguineus</u>
	Albino jackal (<u>Canis aureus</u>)		<u>Canis aureus</u>
	Zoological Gardens, Calcutta		Zoological Gardens, Calcutta (22.32 N, 88.22 E), India
	[ex. Indian Museum $\frac{1174}{17}$]		
N	1512	N	1512
		RML	110345
	<u>Amblyomma clypeolatum</u> 5 ♂'s		3 ♂ <u>Amblyomma clypeolatum</u>
	<u>Testudo elegans</u>		<u>Geochelone elegans</u>
	West Coast of Ceylon (near shore)		West Coast of Sri Lanka (near shore)
	T. Southwell		T. Southwell
	[ex. Indian Museum $\frac{1177}{17}$]		Cited: Robinson (1926: 81). See also N 3608
N	1513	N	1513
		RML	110346
	<u>Ornithodoros savignyi</u> (2)		1 ♂, 1 ♀ <u>Ornithodoros savignyi</u>
	Sheikh Othman, Aden		Shaykh Uthman (12.52 N, 44.59 E), Peoples Democratic Republic of Yemen
	Dr. J. H. Ashworth		Dr. J. H. Ashworth
	[ex. Indian Museum $\frac{981}{17}$]		

Ticks received back from the Zoological Society's Gardens, London (per Dr. Chalmers Mitchell) being those wanted from Report I, 2 February 1912:-

N	1514	N	1514
		RML	110347
	<u>Aponomma pattoni</u> ♂, ♀, N		2♂, 1♀, 1N <u>Aponomma pattoni</u>
	<u>Zamenis mucosus</u>		<u>Ptyas mucosus</u>
	Purch, India		India [The word Purch means purchased]
	31.X.1911		31.X.1911
			Cited: Kaufmann (1972: 318)
N	1515	N	1515
		RML	110348
	<u>Amblyomma moreliae</u> 1♂		1♂ <u>Amblyomma</u> sp.
	<u>Zamenis mucosus</u>		<u>Ptyas mucosus</u>
	Purch, India		India [The word Purch means purchased]
	31.X.1911		31.X.1911
N	1516	N	1516
		RML	110349
	<u>Aponomma gervaisi</u> ♂'s, ♀'s		1♂, 2♀ <u>Aponomma gervaisi</u>
	<u>Lachesis lanceolatus</u>		<u>Bothrops lanceolatus</u>
	India		India
			1911
			Date found on vial label.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1517	N	1517
		RML	110350
	<u>Aponomma exornatum</u> ♂'s, ♀'s		1 ♂, 4 ♀ <u>Aponomma exornatum</u>
	Off ?		Off ?
	India		Locality unknown. The locality of India is incorrect.
	? Date		? Date
N	1518	N	1518
		RML	110351
	<u>Aponomma gervaisi</u> var <u>lucasi</u> ♂, ♀, n's		2 ♂, 3 ♀, 5 N <u>Aponomma varanensis</u>
	<u>Naja tripudians</u>		<u>Naja naja</u>
	India		India
	Rec'd 13.VI.1911		Rec'd 13.VI.1911
N	1519	N	1519
		RML	110352
	<u>Aponomma gervaisi</u> var <u>lucasi</u> ♂'s, ♀'s (very typical)		4 ♂, 1 ♀ <u>Aponomma varanensis</u>
	<u>Naja bungarus</u>		<u>Ophiophagus hannah</u>
	India		India
	14.IX.1911		14.IX.1911
			Cited: Santos Dias (1958: 518).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1520	N	1520
		RML	110353
	<u>Amblyomma moreliae</u> 1 ♀		1 ♀ <u>Amblyomma moreliae</u> (tentative ID)
	<u>Zamenis germonensis</u>		<u>Coluber genonensis</u>
	India		India
	15.VII.1911		15.VII.1911
			Because this is a zoo animal, there is a chance that exchange took place with an Australian species.
N	1521	N	1521
		RML	110354
	<u>Aponomma gervaisi</u> var <u>lucasi</u> ♂, ♀, N, L		4 ♂, 2 ♀, 2 N <u>Aponomma varanensis</u>
	<u>Naja tripudians</u>		<u>Naja naja</u>
	India		India
	11.VII.1911		11.VII.1911
N	1522	N	1522
		RML	110355
	<u>Amblyomma dissimile</u> ♂ & ♀		1 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	<u>Boa constrictor</u>		<u>Boa constrictor</u>
	India		India
			1911
			Date found on vial label. The ♂ of this collection is <u>A. dissimile</u> , the ♀ is questionably <u>A. dissimile</u> . Either the locality of India is in error or the snake picked up this neotropical tick species in the London Zoo. See N 3609 for a similar case [J.E.K.].

ORIGINAL DETERMINATIONCURRENT STATUS

N	1523	N	1523
		RML	110356
	<u>Amblyomma moreliae</u> ♂		1 ♂ <u>Amblyomma</u> sp.
	<u>Boa constrictor</u>		<u>Boa constrictor</u>
	India		India
N	1524	N	1524
		RML	110357
	<u>Amblyomma diminutivum</u> 1 ♀ (gorged)		1 ♀ <u>Amblyomma dissimile</u>
	<u>Lachesis (Trimerisurus)</u> <u>lanceolatus</u>		<u>Bothrops lanceolatus</u>
	S. America		S. America
	21.III.1909		21.III.1909
	Presented by Gordon Merriman, Esq.		Presented by Gordon Merriman, Esq.
	L. G. Neumann, det. 12.II.1912		Cited: Robinson (1926: 191) but without Nuttall number

Ticks received from Dr. E. Brumpt, Laboratoire de Parasitologie, Paris, France, 5 February 1912 (He sent his collection of Haemaphysalis for purpose of study and allowed us to keep the following):-

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1525	N	1525
		RML	110358
	<u>Haemaphysalis inermis</u> 2 ♀ (unfed)		2 ♀ <u>Haemaphysalis inermis</u>
	Stag		Stag
	Fontainsbleau, France		Fontainebleau (48.24 N, 02.42), France
	End of XI.1910		End of XI.1910
	Dr. E. Brumpt		Dr. E. Brumpt
	[Lot comprised of 9 specimens]		Emile Brumpt (1877-1951), distinguished French Parasitologist, author of 376 scientific articles and the famous "Précis de Parasitologie." Cited: Nuttall & Warburton (1915: 367).
N	1526	N	1526 MISSING
	<u>Haemaphysalis inermis</u> 2 ♂, 3 ♀		
	Stag		
	Fontainsbleau, France		
	3.XI.1910		
	Dr. E. Brumpt		
	[Lot comprised 14 specimens]		
	Note in vial - 1 ♂ 1 ♀ removed		
	16.III.1937 GHFN; 1 ♂, 2 ♀		
	sent to Dr. R. A. Cooley of RML		
	by Mr. E. Browning 9.X.1945		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1527	N	1527
		RML	110359
	<u>Haemaphysalis inermis</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Haemaphysalis inermis</u>
	Stag		Stag
	Fontainsbleau, France		Fontainebleau (48.24 N, 02.42 E), France
	16.XII.1911		16.XII.1911
	Dr. E. Brumpt		Dr. E. Brumpt
	[Lot comprised 6 specimens]		Cited: Nuttall & Warburton (1915: 367).
N	1528	N	1528
		RML	110360
	<u>Haemaphysalis inermis</u> 3 ♂		3 ♂ <u>Haemaphysalis inermis</u>
	Stag		Stag
	Fontainsbleau, France		Fontainebleau (48.24 N, 02.42 E), France
	7.XII.1911		7.XII.1911
	Dr. E. Brumpt		Dr. E. Brumpt
	[Lot comprised 52 specimens of which 10 preserved and 42 alive. Dr. Brumpt also captured 1 ♂ on stag at Fontainsbleau 24.I.1912 which we examined. His notes state that he did not find this tick on 4 deer skins from Chantilly, which he examined very carefully]		Cited: Nuttall & Warburton (1915: 367).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1529

N 1529

RML 110361

Haemaphysalis concinna 1 ♂1 ♂ Haemaphysalis concinna

Stag

Stag

Chantilly, France

Chantilly (49.12 N, 02.28 E), France

5.X.1910

5.X.1910

Dr. E. Brumpt

Dr. E. Brumpt

Found as one of four gorged nymphs, which moulted 15.XII.1910 (2 mos.), Dr. B. writes he found 64 gorged L & 15 gorged N on a hedgehog at Chantilly - they gave rise to 64 N & 15 adults (8 ♂, 7 ♀) respectively; but even after 2 months had elapsed he failed to make them feed on dog, hedgehog, mouse & cat. This partial raising experiment links up all the stages ♂, ♀, N, L as belonging to one species. He sent me specimens of each stage and in returning them (5.II.1912) I am asking him to describe the N & L.

Cited: Nuttall & Warburton (1915: 457).

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received for the collection here from Mr. F. C. Bishopp, Entomological Assistant, Dallas, Texas, 12 February 1912:

N	1530	N	1530
		RML	59112
	<u>Dermacentor albigictus</u>		9 ♂, 9 ♀ <u>Dermacentor albigictus</u>
	Horse		Horses
	Lakeside, Washington, D.C.		Lakeside (47.45 N, 120.00 W), Washington, U.S.A.
	12.IV.1910		12.IV.1910
	F. C. Bishopp det [B1228]		L. D. Higley
			Collector's name from Bishopp's accession card. 18 ♂, 1 ♀ of this collection deposited in RML. Fred Cory Bishopp (1884-1970). Worked with the U.S. Dept. of Agriculture from 1904-1953, pioneer researcher on ticks and other arthropods of medical- veterinary importance.
N	1531	N	1531
		RML	59853
	<u>Dermacentor nigrolineatus</u>		4 ♂, 3 ♀ <u>Dermacentor albigictus</u>
	♂'s, ♀'s Cow		Cow
	Lake, Tennessee		Lake, Fentress County (36.40 N, 85.00 W), Tennessee, U.S.A.
	14.XI.1911		14.XI.1911
	F. C. Bishopp det. [B2381]		Ben R. Stockton
			Collector's name from Bishopp's accession card. 2 ♂, 11 ♀ of this collection deposited in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1532	N	1532
		RML	60628
	<u>Dermacentor occidentalis</u> ♂'s, ♀'s		7 ♂, 9 ♀ <u>Dermacentor occidentalis</u>
	Cattle		Cattle
	Cayucos, California		Cayucos (35.27 N, 120.54 W), California, U.S.A.
	27.IV.1910		27.IV.1910
	F. A. Bishopp det [B 1447]		P. Solmina
			Above total includes 1 ♂, 1 ♀ mounted on a slide Collectors name from Bishopp's accession card. 11♂, 18 ♀, 1 N of this collection deposited in RML
N	1533	N	1533
		RML	60740
	<u>Dermacentor parumapertus</u> var. <u>marginatus</u> ♂'s, ♀'s		9 ♂, 5 ♀ <u>Dermacentor parumapertus</u>
	Jack rabbit		<u>Lepus californicus</u>
	Midland, Texas		Midland (32.00 N, 102.05 W), Texas, U.S.A.
	16.VI.1909		16.VI.1909
	F. C. Bishopp		F. C. Bishopp
	F. C. Bishop det [B593]		The total given above includes 1 ♂, 1 ♀ mounted on a slide.
			43♂, 15 ♀ of this collection deposited in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1534	N	1534
		RML	110362
	<u>Dermacentor venustus</u> ♂'s, ♀'s		7 ♂, 8 ♀ <u>Dermacentor andersoni</u>
	Horse		Horses
	Lo Lo, Montana		LoLo (46.45 N, 114.03 W), Montana, U.S.A.
	8.IV.1910		8-9.IV.1910
			Frank Williams
	F. C. Bishopp det. [B1214]		Collector's name and date taken from Bishopp's accession card. The above total includes 1 ♀ pinned.
N	1535	N	1535
		RML	58945
	<u>Dermacentor venustus</u> ♂'s, ♀'s		6 ♂, 4 ♀ <u>Dermacentor andersoni</u>
	Horse		Horses
	Riverside, Oregon		Riverside (43.32 N, 118.09 W), Oregon, U.S.A.
	12.V.1911		12-18.V.1911
			Duncan McRae
	F. C. Bishopp det. [B2256]		Collector's name and date taken from Bishopp's accession card. 8 ♂, 1 ♀ of this collection deposited in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1536	N	1536
		RML	57135
	<u>Dermacentor hunteri</u> 3 ♂, 2 ♀		3 ♂, 1 ♀ <u>Dermacentor hunteri</u>
	Mountain sheep		<u>Ovis canadensis</u>
	Quartzsite, Arizona		Quartzsite (33.40 N, 114.13 W), Arizona, U.S.A.
	20.VIII.1910		20.IX.1910
	G. Hutson		George S. Hutson
	F. C. Bishopp det [B2066]		Although <u>D. hunteri</u> was described by Bishopp from specimens collected on <u>Ovis canadensis</u> , Quartzsite, Arizona, George S. Hutson, the specimens listed above are not types. The types were collected 2.IX.1911 and were given Bishopp number 2352. 2 ♂ of this collection deposited in RML.
N	1537	N	1537
		RML	56789
	<u>Ixodes banksi</u> 1 ♀		1 ♀ <u>Ixodes banksi</u> Paratype
	Muskrat		<u>Ondatra zibethicus</u>
	Monmouth Springs, Arkansas		Mammoth Spring (36.30 N, 91.33 W) Arkansas, U.S.A.
	14.VI.1910		14.VI.1910
			A. H. Howell
	F. C. Bishopp det [B1833]		Collectors name taken from Bishopp's accession card. Bishopp (1911: 200) original description; cited: Keirans & Clifford (1978: 142). 3 ♀ of this collection deposited in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1538	N	1538
		RML	49377
	<u>Ixodes cookei</u> var. <u>rugosus</u> 2 ♀		2 ♀ <u>Ixodes rugosus</u>
	Dog		Dog
	Rjsht (?) Washington, D.C.		Pysht (48.12 N, 124.07 W), Washington, U.S.A.
			17.III.1910
			Guy Decker
	F. C. Bishopp det [B2225]		1 ♀ of this collection deposited in RML. Bishopp's accession cards show that he considered B2225 to be part of B1071. The ticks listed under B1071 were collected on 17.III.1910 by Guy Decker. See also Cooley & Kohls (1945: 123). Nuttall's vial label lists the date as 1911.
N	1539	N	1539
		RML	110363
	<u>Ixodes kingi</u> 1 ♂, 2 ♀		1 ♂, 2 ♀ <u>Ixodes kingi</u>
	Badger		<u>Taxidea taxus</u>
	Fairview, New Mexico		Fairview, New Mexico, U.S.A. (locality not verified)
	? 1909		2.X.1909
			E. A. Goldman
	F. C. Bishopp det [B707] (see lot listed by Bishopp, 1911).		Date and collector taken from Bishopp's accession card. Cited: Bishopp (1911:203); Cooley & Kohls (1945: 135).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1540

Rhipicephalus sanguineus ♂'s, ♀'s

Dog

Chateau - Neuf, S. France

1.IX.1911

Miss E. Barthès

(C. W. & G.H.F.N. det.)

N 1540

RML 110364

5 ♂ Rhipicephalus sanguineus

Dog

Chateaneuf (43.40 N, 06.59 E),
France

1.IX.1911

Miss E. Barthès

N 1541

Rhipicephalus sanguineus 1 ♀

Rabbit

Begude de Mazenc, Drôme,
S. France

31.VIII.1911

Miss E. Barthès

(C.W. & G.N. det.)

N 1541

RML 110365

1 ♀ Rhipicephalus sanguineus

Rabbit

La Bégude-de-Mazenc, (44.32 N,
04.56 E), France.

31.VIII.1911

Miss E. Barthès

ORIGINAL DETERMINATIONCURRENT STATUS

N 1542, a, b

N 1542, a, b

RML 110135

(1542) Ixodes caledonicus(1542) 3 ♀ 6 N Ixodes caledonicus

3 ♀, 7 N

(a) Ixodes caledonicus 2 larvae
(gorged)(a) 2 L Ixodes caledonicus(b) Ixodes caledonicus 1 ♀
deformed(b) 1 ♀ Ixodes caledonicus

Dovecote

Dovecote

Dunipace, Stirlingshire,
ScotlandDunipace (56.01 N, 03.55 W),
Stirlingshire, Scotland

25.V.1911

25.V.1911

Mr. Wm. Evans

Mr. William Evans

Out of the same lot as 1295
Presented 28.II.1912 (b) deformed
showing anal groove closed as a
ring: should serve as a prime
warning not to found new species
on a deformed specimen [figured
& described] Note: Mr. Evans,
20.II.1912 writes that he has
given specimens of this lot of I.
caledonicus to Dr. Ashworth &
Reltie, and is sending others to
Prof. L. G. Neumann, the Brit. Mus.,
and Edinburgh Mus. G.H.F.N.
1.III.1912.

N 1542(b) is in a jar marked "Tick
Abnormalities" and has been described
and figured by Nuttall (1914a: 251).

William Evans (1851-1922) died 23.X.1922
aged 70, Editor of the Scottish
Naturalist, Fellow Royal Society
Edinburgh.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1543	N	1543 MISSING
	<u>Ixodes ricinus</u> 1 ♂		
	Man		
	Killarney, S. Ireland		
	9.IX.1911		
	G. Patrick		
	G.H.F.N. det.		
	Ticks received back from the Entomological Research Committee (ex Report No. 20), London, S.W., 3 March, 1911 per Mr. G.A.K. Marshall.		
N	1544	N	1544
		RML	110367
	<u>Amblyomma gemma</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Amblyomma gemma</u> 2 ♂ <u>Amblyomma lepidum</u>
	British East Africa		Kenya
	R. J. Stordy		R. J. Stordy
	ERC 416		
N	1545	N	1545
		RML	110368
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		3 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	Desert country, B.E. Africa		Desert country, Kenya
	? 1911		? 1911
	R. J. Stordy		R. J. Stordy
	ERC 419		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1546	N	1546
		RML	110369
	<u>Haemaphysalis hoodi</u> ♂, ♀		5 ♂, 4 ♀ <u>Haemaphysalis hoodi</u>
	Guinea-fowl		<u>Numida meleagris</u>
	Addah, Gold Coast		Ada (05.47 N, 00.38 E), Ghana
	15.X.1911		15.X.1911
	Dr. H. T. Palmer		Dr. H. T. Palmer
	ERC 422		Cited: Nuttall & Warburton (1915; 486).
N	1547	N	1547
		RML	110370
	<u>Aponomma exornatum</u> ♂, ♀, N		4 ♂, 4 N <u>Aponomma flavomaculatum</u>
	Monitor		Monitor
	Maiduguri, N. Nigeria		Maiduguri (11.51 N, 13.09 E), Nigeria
	3.IX.1911		3.IX.1911
	Dr. W. D. Inness		Dr. W. D. Inness
	ERC 407		
	1 ♂, 1 ♀ to I.C. Ross, University of Sydney, Australia		
N	1548	N	1548
		RML	110371
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s		5 ♂, 1 ♀ <u>Amblyomma cohaerens</u>
	Uganda, Brit. East Africa		Uganda
	? 1911		? 1911
	Dr. C. H. Marshall		Dr. C. H. Marshall
	ERC 333		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1549	N	1549
		RML	110372
	<u>Amblyomma cohaerens</u> 1 ♂		1 ♂ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Uganda, B.E. Africa		Uganda
	1911		1911
	Dr. G. D. H. Carpenter		Dr. G. D. H. Carpenter
	ERC 420		Cited: Robinson (1926: 110).
N	1550	N	1550
		RML	66664
	<u>Ornithodoros savignyi</u>		1 ♂, 3 ♀, 16 N <u>Ornithodoros savignyi</u>
	Desert Country, B.E. Africa		Desert Country, Kenya
	1911		1911
	R. J. Stordy		R. J. Stordy
	ERC 419d		On the reverse of the vial label is "Nuttall 2011" which were raised in 1913 and evidently are progeny from this collection of ticks.
N	1551	N	1551
		RML	110373
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		6 ♂, 3 ♀ <u>Amblyomma cohaerens</u>
	British East Africa		Kenya
	? 1911		? 1911
	R. J. Stordy		R. J. Stordy
	ERC 417		Cited: Robinson (1926: 108)

ORIGINAL DETERMINATIONCURRENT STATUS

N	1552	N	1552
		RML	110374
	<u>Amblyomma gemma</u> ♂'s, ♀'s		2 ♂, 1 ♀ <u>Amblyomma gemma</u>
	British East Africa		Kenya
	? 1911		? 1911
	R. J. Stordy		R. J. Stordy
	ERC 418		
N	1553	N	1553
		RML	66679
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		7 ♂, 5 ♀ <u>Rhipicephalus evertsi</u>
	Ponies		Ponies
	Maiduguri, N. Nigeria		Maiduguri (11.51 N, 13.09 E), Nigeria
	IX.1911		IX.1911
	Dr. W. D. Inness		Dr. W. D. Inness
	ERC 402a		
N	1554	N	1554 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		
	Donkey		
	Maiduguri, N. Nigeria		
	IX.1911		
	Dr. W. D. Inness		
	ERC 406C		
	1 ♂, 1 ♀ to Dr. K. F. Meyer,		
	U. of California, Berkeley,		
	15.XI.1913.		
	Some (sex/stage not stated) to		
	Prof. O. Duboscq, Montpellier,		
	France 10.II.1914		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1555 - This number was omitted
from the Nuttall catalogue

N 1556

N 1556

RML 110144

Hyalomma aegyptium ♂'s

9 ♂, 2 ♀ Hyalomma marginatum

Hedgehog in laboratory,
Cambridge

Erinaceus europaeus in laboratory,
Cambridge

Hammam - Meskoutine, Algeria

Hammam Meskoutine (36.27 N, 07.16 E),
Algeria

11.VI.1911

11.VI.1911

M. P. Dechabert

M. P. Dechabert

(Progeny of No. 1305a)

N 1557

N 1557

RML 110144

Hyalomma aegyptium ♀'s

4 ♀ Hyalomma marginatum

Hedgehog in laboratory,
Cambridge

Erinaceus europaeus in laboratory,
Cambridge

Hammam - Meskoutine, Algeria

Hammam Meskoutine (36.27 N, 07.16 E),
Algeria

11.VI.1911

11.VI.1911

M. P. Dechabert

M. P. Dechabert

(Progeny of 1305a)

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1558	N	1558
		RML	110144
	<u>Rhipicephalus bursa</u> ♂'s		93 ♂ <u>Rhipicephalus bursa</u>
	Ram at Field Laboratory Cambridge, 1912		Ram at Field Laboratory, Cambridge, 1912
	Hammam - Meskoutine, Algeria		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	11.VI.1911		11.VI.1911
	M. P. Dechabert		M. P. Dechabert
	(Progeny of 1305b)		An additional ♂ is in the BMNH collection (1913.2.12.22-24).
N	1559	N	1559
		RML	110144
	<u>Rhipicephalus bursa</u> ♀'s		157 ♀ <u>Rhipicephalus bursa</u>
	Ram at Field Laboratory, Cambridge, 1912		Ram at Field Laboratory, Cambridge, 1912
	Hammam - Meskoutine, Algeria		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	11.VI.1911		11.VI.1911
	M. P. Dechabert		M. P. Dechabert
	(Progeny of 1305b)		
N	1560	N	1560
		RML	110366
	<u>Ixodes ricinus</u> ♂, ♀, N, L		10 ♀, 67 N <u>Ixodes ricinus</u>
	Deer (dying)		Deer (dying)
	Lord Falmouth's Estate, Falmouth, Cornwall		Lord Falmouth's Estate, Falmouth (50.09 N, 05.05 W), Cornwall, England
	6.III.1912		6.III.1912
	Skin received 4.III.1912		Label in vial "N & L removed." Cited: Nuttall (1916: 331).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1561

N 1561

RML 110375

Argas persicus gorged L's &
1st stage N's226 L & 1st stage N Argas persicusRaised in the Quick Laboratory,
Cambridge, 1912 by Dr. E. Hindle.
Parents received from Beni-Ounif,
AlgeriaRaised in the Quick Laboratory,
Cambridge, 1912 by Dr. E. Hindle.
Parents received from Beni Ounif
(32.03 N, 01.15 W), Algeria1 N, L's to Prof. Dr. Dahl,
Berlin Museum VII.1914;
1 N, L's to Prof. Dr. Schenkling,
Deutsches Entomol. Mus. VII.1914;
1 N, L's to Prof. Dr. Gestro, Museo
Civico di Storia Nat. di Genova
VII.1914.

See also Nuttall 1574

Edward Hindle (1886-1973) Sc. D.,
F.R.S. died III.1973 at 86.
Eminent Parasitologist and Zoologist,
Nuttall influenced Hindle's scientific
development, worked on spirochaetes
and piroplasms causing human relapsing
fever and East Coast Fever. After
WWI, Hindle worked as Professor of
Biology, School of Medicine, Cairo,
later was on the Kala-Azar Commission
to China.

N 1562

N 1562

RML 110376

Rhipicephalus shipleyi ♀1 ♀ Rhipicephalus simus
SYNTYPES of R. shipleyiHyaena sp.Hyaena sp.

Sudan

Sudan

=R. simus shipleyi (Nn)Neumann (1902: 112, 113) original
description.♀ vulva removed and mounted on a
slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1563, a

N 1563, a

Haemaphysalis papuana many
♂'s, 2 ♀, 2 N (gorged) &
2 L (gorged)
(a) 1 N Haemaphysalis konings-
bergeri

RML 22300

23 ♂, 2 ♀, 1 L Haemaphysalis papuana(a) 1 N Haemaphysalis papuana
(tentative ID)Malayan Honey-Bear (Ursus
malayanusHelarctos malayanus

Kuching, Sarawak, Borneo

Kuching (01.33 N, 110.20 E), Sarawak

8.II.1912

8.II.1912

J. C. Moulton (Curator of
the Museum)

J. C. Moulton (Curator of the Museum)

13.III.1912 (Sent Mr. Moulton
3 ♂, 1 ♀, & 1 N of this
species, at his request, on
11 May, 1912).Cited and larva figured: Nuttall &
Warburton (1915: 407);
Trapido et al (1964: 178) list
24 ♂ in this collection.Three slides of dissections present:
♂ Hypostome, ♂ spiracular plate,
♂ legs I & IV.John Coney Moulton (1886-1926) O.B.E.,
Curator of Sarawak Museum 1909-1914,
served in WWI, then Director of
Raffles Museum and Library, Singapore
1919-1923; from 1923 till his death
Secretary to the Rajah of Sarawak;
worked extensively on Malaysian
Cicadidae.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1564	N	1564
		RML	110377
	<u>Haemaphysalis punctata</u> ♂'s, ♀'s		153 ♂, 21 ♀ <u>Haemaphysalis punctata</u>
	Sheep		Sheep
	Lydd, Kent		Lydd (50.57 N, 00.55 E), Kent, England
	4.IV.1905		4.IV.1905
	Received dead 1 ♂, 1 ♀ to Prof. E. Brumpt, Ecole Medicine, Paris, 12.X.1922		Cited: Nuttall & Warburton (1915: 384).
N	1565, a	N	1565, a
		RML	110378
	<u>Haemaphysalis punctata</u> ♀'s (a) <u>Haemaphysalis punctata</u> ♀'s		2 ♀ <u>Haemaphysalis punctata</u> (a) 7 ♀ <u>Haemaphysalis punctata</u>
	Sheep		Sheep
	Herne, Kent		Herne (51.20 N, 01.08 E), Kent, England
	4.IV.1905 (a) 15.IV.1905		4.IV.1905 (a) 15.IV.1905
	Messrs. Cooper & Nephews, Berkhamsted (a) Mr. Collard per Messrs. Cooper & Nephew, Berkhamsted		Messrs. Cooper & Nephews, Berkhamsted (a) Mr. Collard per Messrs. Cooper & Nephew, Berkhamsted
			Cited: Nuttall & Warburton (1915: 384).
	Ticks received for identification from Mr. L. Armstrong (per Mr. G. Merriman), British Museum (Nat. Hist.), Cromwell Road, London, S.H., 11. March, 1912:-		
	<u>Apon. laeve</u> ♀'s, off <u>snake</u> , Aburi, 5.IV.1911 [snake had large adult female bat inside.].		
	<u>Ixodes rarus</u> ♀, 2 N & L's, off (♂) <u>ground pig</u> , Aburi, 1.III.1911.		
	<u>Ixodes pilosus</u> ♀, off top of <u>cat's head</u> , Aburi, I.1911.		
	<u>Haem. leachi</u> ♀ off top of <u>cat's head</u> , Aburi, I.1911.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1566	N	1566
		RML	110379
	<u>Haemaphysalis inermis</u> var. <u>aponommoides</u> n.sp. ♀'s		20 ♀ <u>Haemaphysalis aponommoides</u> Lectotype and paralectotypes
	Himalayan zebus		Himalayan zebus
	Belgachia, Calcutta, India		Belgachia, Calcutta (22.32 N, 88.22 E), India
	Rec'd 13.III.1912		Rec'd 13.III. 1912
	Rec'd from Colonel F. Raymond F.R.C.V.S., Principal, Bengal Veterinary College		Rec'd from Colonel F. Raymond, F.R.C.V.S., Principal, Bengal Veterinary College
			Warburton (1913: 128) original description; Nuttall & Warburton (1915: 549) listed 23 ♀ in the BMNH collection; Hoogstraal (1962a: 195) raised <u>H. aponommoides</u> to specific rank; Moritz & Fischer (1981: 343). Lectotype designated: Keirans & Brewster (1981: 162) but due to a typographical error the ♂ symbol was inserted after the word lectotype.
N	1567	N	1567 MISSING
	<u>Boophilus australis</u> ♀'s		
	Himalayan zebus		
	Belgachia, Calcutta, India		
	Rec'd 13.III.1912		
	Rec'd. from Colonel F. Raymond, F.R.C.V.S., Principal, Bengal Veterinary College		

Ticks received from the Indian Museum, Calcutta, India (per Dr. N. Annandale), March, 1912. Determined by Mr. C. Warburton, as follows:-

<u>Haemaphysalis</u> 1 N,	off large, bushy-tailed <u>tree-shrew</u>		
<u>Amblyomma</u>	(<u>Tupaia chinensis</u>), Kobo, (Alt. 400 ft.),		
2 N's of one sp.	9.XII.1911. S. W. Kemp.	Indian Mus.	<u>1200</u>
1 N of another	(Abor. Expedition)		<u>17</u>
<u>Ambi. testudinarium</u>	♂'s ♀'s off <u>wild pig (Sus cristatus)</u> ,		
	Kobo, 5.XII.1911. S. W. Kemp.	Indian Mus.	<u>1201</u>
	(Abor. Expedition)		<u>17</u>
<u>Haem. bispinosa</u>	♂, found " <u>by sweeping</u> ," Dibrugarh,	Indian Mus.	<u>1202</u>
	N. E. Assam, 17-21.XI.1911 S.W. Kemp		<u>17</u>
<u>Ambi. testudinarium</u>	2 ♂s, found " <u>by sweeping</u> ," Kobo,		
	3.XII.1911. (Abor. Expedition)	Indian Mus.	<u>1203</u>
	S. W. Kemp		<u>17</u>
Gamasid mites	off <u>Houbara macqueenii</u> killed in		
	desert, Bhawalnagar, Bhawalpore	Indian Mus.	<u>1204</u>
	State, Punjab, ?1911 Col. Phillot		<u>17</u>

ORIGINAL DETERMINATIONCURRENT STATUS

N 1568

N 1568

RML 110380

Amblyomma testudinarium 1 ♂,
6 ♀'s1 ♂, 5 ♀ Amblyomma testudinariumWild pig (Sus cristatus)Sus scrofa cristatus

Kobo, India

Kobo (27.47 N, 95.23 E), India

5.XII.1911

5.XII.1911

S. W. Kemp

S. W. Kemp

(Abor Expedition)

Cited: Robinson (1926: 257).

[Ex. Indian Mus. $\frac{1201}{17}$]

Two additional tubes of ticks received from the Indian Museum, Calcutta, India (per Dr. Annandale) March, 1912. Determined by Mr. Warburton, as follows:

Argas persicus (1), from Quetta, Baluchistan, India, 1912.
Major Stammers, R.A.M.C.

"A"

Orn. tholozani 1 nymph, from Quetta, Baluchistan, India, 1912.
Major Stammers, R.A.M.C.

"B"

Ticks received from Professor W. B. Herms, Entomological Dept. Univ. of California, Berkeley, Cal., U.S. America, 18 March 1912. Determinations etc., as follows:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1569	N	1569
		RML	110381
	<u>Ornithodoros megnini</u> (15 specimens)		9 N <u>Otobius megnini</u>
	Cattle		Cattle
	California, U.S.A.		California, U.S.A.
	I.1912		I.1912
	W. B. Herms		W. B. Herms
	["Ear ticks"]		Original vial label lists 15 specimens; a small second label lists "only 9 left 20.X.1934"
			William Brodbeck Herms (1876-1949) Professor of Parasitology, University of California, Berkeley, died 9.V.1949 at 72. Leader in the field of Medical Entomology and author of the foremost textbook on that subject during his lifetime.
N	1570, a	N	1570, a
		RML	110382
	(1570) <u>Dermacentor occidentalis</u> 1 ♂, 1 ♀		(1570) 1 ♂, 1 ♀ <u>Dermacentor occidentalis</u>
	(a) <u>Ixodes ricinus</u> ♂ & ♀ (in copula), ♀		(a) 1 ♂, 2 ♀ <u>Ixodes pacificus</u>
	<u>Odocoileus columbianus</u>		<u>Odocoileus hemionus</u>
	Berkeley, California, U.S. America		Berkeley (37.57 N, 122.18 W), California, U.S.A.
	1912		1912
	F. C. Clark		F. C. Clark
			Cited: Nuttall (1916: 333).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1571	N	1571
		RML	110383
	<u>Argas vespertilionis</u> 1 ♀, 2 N, 1 L		1 ♂, 1 ♀, 1 N, 1 L <u>Argas boueti</u>
	Bats (sp. ?)		Bats (sp. ?)
	French Soudan		Sudan
	1911		1911
	Dr. Bouet		Dr. Bouet
	(Presented by Prof. L. G. Neumann, III.1912)		The 1 L is in a separate vial.
N	1572	N	1572
		RML	66579
	<u>Rhipicephalus maculatus</u> ♂'s, ♀'s		5 ♂, 5 ♀ <u>Rhipicephalus maculatus</u>
	Grasses		Grasses
	Masongalini, Uganda Railway, B.E. Africa		Masongaleni (02.29 S, 38.03 E), Kenya
	29.III-1.IV.1911		29.III-1.IV.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 263)		There is a second collection bearing the catalogue number N 1572 with the following data and ticks: Indian Mus. TM 2
			1 ♂ 1 ♀ <u>Rhipicephalus haemaphysaloides</u> Shai Kara Nayara, India Sheep, XII.1910. This collection refers to N 1406 but the number is unmistakably N 1572.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1573	N	1573
		RML	110384
	<u>Rhipicephalus maculatus</u> ♂'s, ♀'s		8 ♂, 11 ♀ <u>Rhipicephalus maculatus</u>
	Grasses		Grasses
	Mtito Andei, Uganda Railway, B.E. Africa		Mtito Andei (02.41 S, 38.10 E), Kenya
	27.III.1911		27.III.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 264c)		
	1 ♂, 1 ♀ to J. De Meza, Zomba, Nyasaland 19.II.1916		
N	1574, a-c	N	1574, a, b
		RML	110375
	(1574) <u>Argas persicus</u> larvae (unfed)		(1574) 56 L <u>Argas persicus</u>
	(a) <u>Argas persicus</u> larvae (gorged)		(a) 6 L <u>Argas persicus</u>
	(b) <u>Argas persicus</u> 1st stage N's		(b) 13 N <u>Argas persicus</u>
	(c) <u>Argas persicus</u> N's & adults Raised in Cambridge		(c) MISSING
	Beni Ounif, Algeria		Beni Ounif (32.03 N, 01.15 W), Algeria
	Presented 27.III.1912		Presented 27.III.1912
	Presented by Dr. E. Hindle		Presented by Dr. E. Hindle
			See also Nuttall 1561

ORIGINAL DETERMINATIONCURRENT STATUS

N	1575	N	1575
		RML	110385
	<u>Ornithodoros savignyi</u> (alive)		23 ♂, 12 ♀, 532 N <u>Ornithodoros savignyi</u>
	Aden, India		Peoples Democratic Republic of Yemen
	Rec'd VII.1911		Rec'd VII.1911
	Rec'd from Dr. J. H. Ashworth, Edinburgh		Rec'd from Dr. J. H. Ashworth, Edinburgh
	[Used for raising experiments].		Collection in two vials.
	1 ♂, 1 ♀, N's to Prof. Dr. Dahl, Berlin Museum, VII.1914.		
	1 ♂, 1 ♀, N's to Prof. Dr. Schenkling, Deutsches Entomol. Museum, VII.1914.		
	1 ♂, 1 ♀, N's to Dr. R. Gestro, Museo Civico di Storia Nat. Genova, VII.1914.		
	All stages to Prof. R. Matheson, Cornell, 27.V.1929.		
	All stages to Dr. A. C. Reed, San Francisco, 30.V.1929.		
	All stages to Prof. J. Drbohlav, Prague, 30.V.1929.		
	Different stages to Prof. E. Malvoz, Liege, 30.V.1929.		
N	1576	N	1576
		RML	66622
	<u>Ixodes ricinus</u> ♂, ♀, N, L (unfed)		71 N, 1 L <u>Ixodes ricinus</u>
	Grass in deer park		Grass in deer park
	Tregothnan near Truro, Cornwall		Tregothnan, near Truro (50.16 N, 05.03 W), Cornwall, England
	17.IV.1912		17.IV.1912
	G.H.F. Nuttall coll. & det.		G.H.F. Nuttall coll. & det.
	1 ♂, 1 N to J. de Meza, Zomba, Nyasland 19.II.1916		Cited: Nuttall (1916: 332).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1577	N	1577
		RML	110386
	<u>Ixodes ricinus</u> N, L		39 N <u>Ixodes ricinus</u>
	Wild rabbit (ears and eyelids)		Wild rabbit (ears and eyelids)
	Tregothnan, near Truro, Cornwall		Tregothnan, near Truro (50.16 N, 05.03 W), Cornwall, England
	17.IV.1912		17.IV.1912
	G.H.F. Nuttall coll. & det.		G.H.F. Nuttall coll. & det.
			Vial label date is 7.IV.1912. Nuttall (1916: 332) incorrectly cited this collection as N 1677.
	Ticks received back from the Entomological Research Committee (Tropical Africa), London S.W. Ex. Report 21, April, 1912:-		
N	1578	N	1578
		RML	110387
	<u>Amblyomma splendidum</u> ♂'s, ♀'s		8 ♂, 3 ♀ <u>Amblyomma splendidum</u>
	Buffalo		<u>Syncerus caffer</u>
	Portuguese Congo, Africa		Angola
	1911		1911
	M. Gamble		M. Gamble
	E.R.C. 425		Cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1579	N	1579
		RML	110388
	<u>Argas brumpti</u>		1 ♀, 6 N <u>Argas brumpti</u>
	Found in ant-heaps		Found in ant-heaps
	Yatta Plains, Ukamba, B.E. Africa		Yatta Plains (01.11 S, 37.33 E), Kenya
	1911		1911
	S.W.J. Scholefield		S.W.J. Scholefield
	E.R.C. 429		
N	1580	N	1580
		RML	110389
	<u>Ornithodoros moubata</u>		2 ♂, 2 ♀, 2 N <u>Ornithodoros moubata</u>
	Nairobi, E. African Protectorate		Nairobi (01.17 S, 36.49 E), Kenya
	Rec'd 1912		Rec'd 1912
	Laboratory Staff		Laboratory Staff
	E.R.C. 430 Rec'd from Principal Medical Officer		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1581	N	1581
		RML	110390
	<u>Rhipicephalus appendiculatus</u> ♂ (abnormal)		1 ♂ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Nbarra, Ankole, Uganda, B.E. Africa		Nbarra, District of Ankole (00.30 S, 30.30 E), Uganda
	I.1911		I.1911
	Dr. C. H. Marshall		Dr. C. H. Marshall
	E.R.C. 433		This specimen is in a jar marked "Tick abnormalities". Two notes in the vial Not worth describing. Not worth figuring.
N	1582	N	1582
		RML	110391
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s, 1 N		16 ♂, 6 ♀ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Semliki Plains, near S. Shore of Lake Albert, Belgian Congo, B.E. Africa		Semliki Plains, near S. Shore of Lake Albert (01.40 N, 31.00 E), Zaire
	XI.1911		XI.1911
	S.A. Neave		S. A. Neave
	E.R.C. 434		Cited: Robinson (1926: 110).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1583	N	1583
		RML	110392
	<u>Amblyomma cohaerens</u> ♂'s		8 ♂ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Semliki Plains, near S. shore of Lake Albert, Belgian Congo, B.E. Africa		Semliki Plains, near S. shore of Lake Albert (01.40 N, 31.00 E), Zaire
	XI.1911		XI.1911
	S. A. Neave		S. A. Neave
	E.R.C. 435		Cited: Robinson (1926: 110).
N	1584	N	1584
		RML	110391
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s, 1 N		12 ♂, 5 ♀, 1 N <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Semliki Plains, near S. shore of Lake Albert, Belgian Congo, B.E. Africa		Semliki Plains, near S. shore of Lake Albert (01.40 N, 31.00 E), Zaire
	XI.1911		XI.1911
	S. A. Neave		S. A. Neave
	E.R.C. 434		The E.R.C. number of this collection is identical with that of Nuttall 1582. Cited: Robinson (1926: 110).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1585 <u>Ornithodoros moubata</u> From Senior Medical Officer's boys' house Entebbe, Uganda, B.E. Africa ? 1908 E.R.C. 437	N	1585 MISSING
N	1586 <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s Cattle Botanical Gardens, Entebbe, Uganda, B.E. Africa 16.IX.1911 Dr. G. C. Strathairn E.R.C. 438	N	1586 RML 110393 4 ♂, 6 ♀ <u>Rhipicephalus appendiculatus</u> Cattle Botanical Gardens, Entebbe (00.04 N, 32.28 E), Uganda 16.IX.1911 Dr. G. C. Strathairn
N	1587 <u>Rhipicephalus falcatus</u> 2 ♂, 2 ♀ No data Dr. J.E.S. Old E.R.C. 441a	N	1587 RML 110394 2 ♂, 2 ♀ <u>Rhipicephalus senegalensis</u> No data Dr. J.E.S. Old

ORIGINAL DETERMINATIONCURRENT STATUS

N	1588	N	1588
		RML	110395
	<u>Rhipicentor bicornis</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicentor bicornis</u>
	Bull eland		♂ <u>Taurotragus oryx</u>
	Ruo, Portuguese Nyasaland, B.C. Africa		Perhaps vicinity of Ruo Basin (15.54 S, 35.39 E), Malawi
	19.VIII.1911		19.VIII.1911
	Dr. J.E.S. 01d		Dr. J.E.S. 01d
	E.R.C. 449e		
N	1589	N	1589
		RML	110396
	<u>Amblyomma</u> sp. larvae		35 L <u>Amblyomma</u> sp.
	Goat		Goat
	Blantyre, Nyasaland, B.E. Africa		Blantyre (15.47 S, 35.00 E), Malawi
	19.V.1910		19.V.1910
	Dr. J.E.S. 01d		Dr. J.E.S. 01d
	E.R.C. 453		
N	1590	N	1590
		RML	110397
	<u>Rhipicephalus supertritus</u> 1 ♂		1 ♂ <u>Rhipicephalus supertritus</u>
	No data		No data
	Dr. J.E.S. 01d		Dr. J.E.S. 01d
	E.R.C. 449a		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1591	N	1591
		RML	110398
	<u>Ixodes hexagonus</u> 1 ♀		1 ♀ <u>Ixodes hexagonus</u>
	Portugal		Portugal
	Rec'd IV.1912		Rec'd IV.1912
	Dr. Carlos Franca		Dr. Carlos Franca Cited: Nuttall (1916: 328).
N	1592	N	1592
		RML	110399
	<u>Rhipicephalus bursa</u> 2 ♀		2 ♀ <u>Rhipicephalus bursa</u>
	Cattle		Cattle
	Portugal		Portugal
	Rec'd IV.1912		Rec'd IV.1912
	Rec'd from Dr. C. Franca		Rec'd from Dr. C. Franca
			There is a cotype label in the vial with these ticks. One ♀ vulva has been removed and mounted on a slide.
N	1593	N	1593
		RML	110400
	<u>Hyalomma aegyptium</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Hyalomma marginatum</u>
	Cattle		Cattle
	Portugal		Portugal
	Rec'd IV.1912		Rec'd IV.1912
	Rec'd from Dr. C. Franca		Rec'd from Dr. C. Franca

Ticks taken out of the collection of the School of Tropical Medicine,
The University, Liverpool. Received from Professor R. Newstead, 24 April 1912.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1594	N	1594
		RML	110401
	<u>Ixodes vespertilionis</u> 1 ♀		1 ♀ <u>Ixodes vespertilionis</u>
	Lesser horse-shoe bat (<u>R. hipposideros</u>)		<u>Rhinolophus hipposideros</u>
	In caves, Cefn, N. Wales		Cefn Caves, Cefn-y-Bedd (53.05 N, 03.02 W), Wales
	4.IV.1896		4.IV.1896
	R. Newstead		R. Newstead Cited: Nuttall (1916: 334)
N	1595	N	1595
		RML	110402
	<u>Hyalomma syriacum</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Hyalomma aegyptium</u>
	Tortoise (Magador)		Tortoise (Magador)
	Cross' Menagerie, Liverpool		Cross' Menagerie, Liverpool (53.25 N, 03.00 W), England
	1905		1905
N	1596	N	1596
		RML	110403
	<u>Boophilus annulatus</u> 1 ♂ (deformed)		1 ♂ <u>Boophilus annulatus</u>
	Boston, U.S. America		Perhaps Boston (30.47 N, 83.47 W), Georgia, U.S.A.
	T.F.R.		Described and figured by Nuttall (1914a: 255) who gave the locality as Boston, Massachusetts. However, that locality is far from the range of <u>B. annulatus</u> .

ORIGINAL DETERMINATIONCURRENT STATUS

N	1597	N	1597
		RML	110404
	<u>Amblyomma dissimile</u> 3 ♀		3 ♂ <u>Amblyomma dissimile</u>
	Toad		Toad
	British Guiana		Guyana
	1905		1905
	Dr. K. S. Wise		Dr. K. S. Wise
			Cited: Robinson (1926: 167)..
N	1598	N	1598
		RML	110405
	<u>Amblyomma dissimile</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	"Salapenter"		"Salapenter"
	British Guiana		Guyana
	.1909		1909
	Dr. K. S. Wise		Dr. K. S. Wise
			Cited: Robinson (1926: 167).
N	1599	N	1599
		RML	110406
	<u>Amblyomma dissimile</u> 1 ♂		1 ♂ <u>Amblyomma dissimile</u>
	Lizard		Lizard
	West Indies		West Indies
	1907		1907
	H. A. Ballou		H. A. Ballou
			Cited: Robinson (1926: 167).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1600	N	1600
		RML	110407
	<u>Rhipicephalus neavei</u> 3 ♂, 3 ♀		3 ♂, 3 ♀ <u>Rhipicephalus kochi</u>
	Newala antelope		<u>Tragelaphus angasi</u>
	Upper Shire River, British C. Africa		Upper Shire River (15.04 S, 35.13 E), Malawi
	27.IX.1911		27.IX.1911
	J. B. Davey		J. B. Davey
N	1601	N	1601
		RML	110408
	<u>Ixodes cavipalpus</u> ♂, ♀ (in copula)		1 ♂, 1 ♀ <u>Ixodes cavipalpus</u>
	Cattle		Cattle
	Mwiniwerynig Village, Sekwa River, N. Nyasa, B. C. Africa		Mwiniwerynig Village, Sekwa River (10.05 S, 33.35 E), Malawi
	13.II.1909		13.II.1909
	J. B. Davey		J. B. Davey Cited: Nuttall (1916: 327).
N	1602	N	1602
		RML	110409
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		3 ♂, 3 ♀ <u>Rhipicephalus kochi</u>
	Newala antelope		<u>Tragelaphus angasi</u>
	Upper Shire River, Brit. C. Africa		Upper Shire River (15.04 S, 35.13 E), Malawi
	3.VIII.1911		3.VIII.1911
	J. B. Davey		J. B. Davey

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1603	N	1603
	<u>Amblyomma tholloni</u> ♂'s, ♀'s	RML	110410
	Elephant		4 ♂, 4 ♀ <u>Amblyomma tholloni</u>
	Lake Albert, Uganda, B.E. Africa		<u>Loxodonta africana</u>
	1905		Lake Albert (01.50 N, 31.00 E) Uganda
	Dr. Christy		1905
			Dr. Christy
			Cited: Robinson (1926: 252).
N	1604	N	1604
	<u>Aponomma exornatum</u> ♂'s, ♀'s, N's	RML	110411
	<u>Varanus niloticus</u>		7 ♂, 5 ♀, 4 N <u>Aponomma flavomaculatum</u>
	St. Louis, Senegal, W. Africa		<u>Varanus niloticus</u>
	24.I.1906		Saint Louis (16.02 N, 16.30 W), Senegal
	1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam G.E.A. 22.VII.1914		24.I.1906
			Slides missing
N	1605	N	1605
	<u>Boophilus decoloratus</u> ♂	RML	110412
	Kudu		1 ♂ <u>Boophilus decoloratus</u>
	Mombiras near Karonga, N. Nyasa, B.C. Africa		<u>Tragelaphus strepsiceros</u>
	25.II.1908		Mombiras near Karonga (09.56 S, 33.56 E) Malawi
	J. B. Davey		25.II.1908
			J. B. Davey
			This specimen is in a jar marked "Tick Abnormalities" Two notes in vial "Not worth describing" "Not worth figuring"

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1606	N	1606
	<u>Rhipicephalus capensis</u> ♂'s, ♀	RML	110413
	Cattle		5 ♂, 1 ♀ <u>Rhipicephalus compositus</u>
	Nyangwe, Belgian Congo, Africa		Cattle
	15.XI.1904		Nyangwe (04.13 S, 26.11 E), Zaire
			15.XI.1904
N	1607	N	1607
	<u>Amblyomma cohaerens</u> 2 ♂	RML	110414
	Buffalo		2 ♂ <u>Amblyomma cohaerens</u>
	Lake Albert, Uganda, B.E. Africa		<u>Syncerus caffer</u>
	VII.1905		Lake Albert (01.50 N, 31.00 E), Uganda
	Dr. Christy		VII.1905
			Dr. Christy
			Cited: Robinson (1926: 110).
N	1608	N	1608
	<u>Rhipicephalus lunulatus</u> 4 ♂, 2 ♀	RML	110415
	Bush-pigs		4 ♂, 2 ♀ <u>Rhipicephalus lunulatus</u>
	Kaporo, near Sangwe, N. Nyasa, B. C. Africa		<u>Potamochoerus porcus</u>
	6.I.1909		Kaporo (09.45 S, 33.55 E) near Sangwe River, Malawi
	Dr. J. B. Davey		6.I.1909
			Dr. J. B. Davey

ORIGINAL DETERMINATIONCURRENT STATUS

N	1609	N	1609
		RML	110416
	<u>Rhipicephalus falcatus</u> 2 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u> 1 ♂ <u>Rhipicephalus gertrudae</u>
	Bush pigs		<u>Potamochoerus porcus</u>
	Kaporo, near Sangwe, N. Nyasa, B.C. Africa		Kaporo (09.45 S, 33.55 E) near Sangwe River, Malawi
	6.I.1909		6.I.1909
	Dr. J. B. Davey		Dr. J. B. Davey
N	1610	N	1610
		RML	110417
	<u>Amblyomma splendidum</u> ♂'s, ♀'s		17 ♂, 4 ♀ <u>Amblyomma splendidum</u>
	Buffalo		<u>Syncerus caffer</u>
	Tshumbiri, Congo Free State, Africa		Tshumbiri (02.39 S, 16.14 E), Zaire
	?1909		?1909
			Cited: Robinson (1926: 125).
N	1611	N	1611
		RML	110418
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s N's		103 ♂, 32 ♀, 12 N <u>Rhipicephalus</u> <u>appendiculatus</u>
	Grass		Grass
	Nwangopwani District, Zanzibar, Africa		Nwangopwani District, Zanzibar Island (06.10 S, 39.20 E), Tanzania
	1905		1905
	Mr. Last		Mr. Last

ORIGINAL DETERMINATIONCURRENT STATUS

N	1612	N	1612
		RML	110419
	<u>Rhipicephalus evertsi</u> 4 ♂, 2 ♀		4 ♂, 2 ♀ <u>Rhipicephalus evertsi</u>
	Grass		Grass
	Nwangopwani District, Zanzibar, Africa		Nwangopwani District, Zanzibar Island (06.10 S, 39.20 E), Tanzania
	1905		1905
	Mr. Last		Mr. Last
N	1613	N	1613
		RML	110420
	<u>Rhipicephalus falcatus</u> 3 ♂, 3 ♀		3 ♂, 3 ♀ <u>Rhipicephalus longus</u>
	W. Africa		West Africa
	Dr. Jackson		Dr. Jackson
N	1614	N	1614
		RML	110421
	<u>Rhipicephalus duttoni</u> ♂, ♀'s, N's		1 ♂, 1 ♀, 2 N <u>Rhipicephalus duttoni</u>
	Cattle		Cattle
	Zambu, Africa		Zambi, Zaire (there are 4 possible localities in Zambia with this name)
	No date		No date
	Drs. Dutton & Todd		Drs. Dutton & Todd
	Compared with <u>R. duttoni</u> 1 ♂ type N.1719 in Neumann coll., 18.VI.1914. Our ♂ more punctate & rougher caudal process less protruding. We call it a co-type as it is from the same lot as the type and was rec'd from Liverpool.		Blue COTYPE label in vial. Note in vial - "only 2 ticks 26.X.1934". [The nymphs were found in a separate vial].

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1615	N	1615
		RML	110422
	<u>Rhipicephalus sulcatus</u> ♂, ♀		5 ♂ <u>Rhipicephalus sulcatus</u>
	Banana, Belgian Congo, W. Africa		Banana (01.22 N, 28.52 E) or (06.01 S, 12.24 E), Zaire
	Dr. Etienne		Dr. Etienne
N	1616	N	1616
		RML	110423
	<u>Rhipicentor bicornis</u> 3 ♂, 10 ♀		2 ♂, 6 ♀ <u>Rhipicentor bicornis</u> 1 ♀ <u>Rhipicephalus simus</u>
	Airedale terrier		Airedale terrier
	During journey - Karonga - Fort Hill - Nyimbo - Masuko - Karonga, B.C. Africa		During journey Karonga (09.56 S, 33.56 E), Chitipa (09.43 S, 33.16 E), Nyimbo Hill (09.41 S, 33.02 E), Masuko (locality not verified), Karonga, Malawi
	III-IV.1909		III-IV.1909
	Dr. J. B. Davey		Dr. J. B. Davey
N	1617	N	1617 MISSING
	<u>Haemaphysalis leachi</u> ♀'s		
	Airedale terrier		
	During journey - Karonga, Fort Hill - Nyimbo - Masuko - Karonga, B.C. Africa		
	III-IV.1909		
	Dr. J. B. Davey		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1618	N	1618
		RML	110424
	<u>Rhipicephalus lunulatus</u> 3 ♂, 3 ♀		3 ♂, 3 ♀ <u>Rhipicephalus lunulatus</u>
	Airedale terrier		Airedale terrier
	During journey Karonga - Fort Hill - Nyimbo - Masuko - Karonga, B.C. Africa		During journey Karonga (09.56 S, 33.56 E), Chitipa (09.43 S, 33.16), Nyimbo Hill (09.41 S, 33.02 E), Masuko (locality not verified), Karonga, Malawi
	III-IV.1909		III-IV.1909
	Dr. J. B. Davey		Dr. J. B. Davey
N	1619	N	1619
		RML	110425
	<u>Rhipicephalus evertsi</u> var. <u>albigeniculatus</u> 2 ♂ COTYPES		2 ♂ <u>Rhipicephalus evertsi mimeticus</u> Paralectotypes
	Cattle		Cattle
	Kasongo, Congo Free State		Either Kasonga (05.28 S, 21.11 E), or (05.42 S, 18.48 E), Zaire
	Drs. Dutton & Todd		Drs. Dutton & Todd
			Syntypes of <u>R. evertsi albigeniculatus</u> . Nuttall & Warburton (1916: 327) original description. Paralectotypes designated: Keirans & Brewster (1981: 169).
			Blue COTYPE label in vial
N	1620	N	1620
		RML	110426
	<u>Amblyomma eburneum</u> 1 ♂		1 ♂ <u>Amblyomma eburneum</u>
	No data		No data

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1621	N	1621
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s	RML	110427
	Leopard		12 ♂, 3 ♀ <u>Haemaphysalis leachi</u>
	Tshumbiri, Congo Free State		<u>Panthera pardus</u>
	Mrs. Billington		Tshumbiri (02.39 S, 16.14 E), Zaire
			Mrs. Billington
			Cited: Nuttall & Warburton (1915: 473).
N	1622	N	1622 MISSING
	<u>Amblyomma variegatum</u> 30 ♂		
	Cattle		
	Salaga, Gold Coast, W. Africa		
	8.V.1911		
	Dr. LeFanu		
N	1623	N	1623 MISSING
	<u>Amblyomma variegatum</u> 20 ♀		
	Cattle		
	Salaga, Gold Coast, W. Africa		
	8.V.1911		
	Dr. LeFanu		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1624	N	1624
		RML	110428
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		5 ♂, 6 ♀ <u>Hyalomma dromedarii</u>
	Camels		<u>Camelus dromedarius</u>
	Pyramids, Cairo, Egypt		Pyramids, Cairo (30.03 N, 31.15 E), Egypt
	1909-10		1909-1910
	Dr. J.W.W. Stephens		Dr. J.W.W. Stephens
N	1625	N	1625
		RML	110429
	<u>Aponomma gervaisi</u> 6 ♂, 2 ♀, 8 N		3 ♂, 1 ♀, 7 N <u>Aponomma gervaisi</u>
	Lizard		Lizard
	No other data		No other data
N	1626	N	1626
		RML	110430
	<u>Dermacentornitens</u> 2 ♂, 4 ♀		2 ♂, 4 ♀ <u>Anocentor nitens</u>
	Horse		Horse
	No other data		No other data

ORIGINAL DETERMINATIONCURRENT STATUS

N	1627	N	1627
		RML	110431
	<u>Dermacentor albipictus</u> 2 ♀ & N'al skins		2 ♀ <u>Dermacentor albipictus</u>
	Horse		Horse
	Dolores, Colorado, U.S. America		Dolores (37.28 N, 108.30 W), Colorado, U.S.A.
	26.II.1912		26.II.1912
	S. Hadwen, coll. & det.		S. Hadwen, coll. & det.
			Two nymphal skins present
N	1628	N	1628
		RML	110432
	<u>Dermacentor albipictus</u> 3 N		3 N <u>Dermacentor albipictus</u>
	Horse		Horse
	Dolores, Colorado, U.S. America		Dolores (37.28 N, 108.30 W), Colorado, U.S.A.
	26.II.1912		26.II.1912
	S. Hadwen coll. & det.		S. Hadwen coll. & det.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1629	N	1629
		RML	110433
	<u>Haemaphysalis silacea</u> 2 ♀		2 ♀ <u>Haemaphysalis silacea</u> Lectotype and paralectotype
	Cattle		Cattle
	Starvation Camp, Gonubie Park, E. London, S. Africa		Starvation Camp, Gonubie Park (32.55 S, 27.59 E), Republic of South Africa
	Rec'd from W. F. Cooper		Rec'd from W. F. Cooper
	[Cattle excluded 2 years from pasture, see "Parasitology" IV, 478]		Robinson (1912: 478), original description. See also Nuttall catalogue number 2944. Lectotype designated: Keirans & Brewster (1981: 163).
			One ♀ vulva is mounted on a slide.
	Ticks received from Dr. J. G. Parham Government Bacteriologist, Zanzibar, B.E. Africa, 20 May 1912.		
N	1630	N	1630
		RML	110434
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		6 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	24.IV.1912		24.IV.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1631, a	N	1631, a
		RML	110435
	(1631) <u>Rhipicephalus appendiculatus</u> ♂ ♀ (a) <u>Boophilus australis</u> ♀, N		(1631) 9 ♂, 8 ♀, 3 N <u>Rhipicephalus appendiculatus</u> (a) 10 ♀, 4 N <u>Boophilus microplus</u>
	Goat		Goat
	Ba-bu-bu, Zanzibar, B.E. Africa		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	25.IV.1912		25.IV.1912
	J. G. Parham		J. G. Parham
N	1632	N	1632
		RML	110436
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		8 ♂, 4 ♀ <u>Rhipicephalus appendiculatus</u>
	Bullock		Bullock
	Ba-bu-bu, Zanzibar, B.E. Africa		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	25.IV.1912		25.IV.1912
	J. G. Parham		J. G. Parham
N	1633	N	1633
		RML	110437
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		9 ♂, 6 ♀ <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	Mbelado, Zanzibar, B.E. Africa		Mbelado, Zanzibar Island, Tanzania (locality not verified).
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N 1634

N 1634

RML 110438

Rhipicephalus appendiculatus ♂, ♀, N8 ♂, 9 ♀, 2 N Rhipicephalus appendiculatus

Bullock

Bullock

Zanzibar Town, B.E. Africa

Zanzibar City (06.10 S, 39.11 E),
Zanzibar Island, Tanzania

23.IV.1912

23.IV.1912

J. G. Parham

J. G. Parham

N 1635

N 1635

RML 110439

Rhipicephalus appendiculatus 1 ♀1 ♀ Rhipicephalus appendiculatus

Cow

Cow

Zanzibar Town, B.E. Africa

Zanzibar City (06.10 S, 39.11 E),
Zanzibar Island, Tanzania

22.IV.1912

22.IV.1912

J. G. Parham

J. G. Parham

N 1636

N 1636

RML 110440

Rhipicephalus appendiculatus ♂, ♀11 ♂, 10 ♀, 2 N Rhipicephalus appendiculatus

Bullock

Bullock

Mangapwani, B.E. Africa

Mangapwani (06.00 S, 39.11 E),
Zanzibar Island, Tanzania

26.IV.1912

26.IV.1912

J. G. Parham

J. G. Parham

ORIGINAL DETERMINATION

N 1637

Rhipicephalus appendiculatus ♂ ♀
Donkey
Machin, Zanzibar, B.E. Africa

22.IV.1912
J. G. Parham

N 1638

Rhipicephalus appendiculatus ♂, ♀
Goat
Gulioni, Zanzibar, B.E. Africa

23.IV.1912
J. G. Parham

N 1639

Rhipicephalus appendiculatus ♂ ♀
Donkey
Zanzibar Town, B.E. Africa

24.IV.1912
J. G. Parham

CURRENT STATUS

N 1637

RML 110441
3 ♂, 9 ♀ Rhipicephalus appendiculatus
Donkey
Machin, Zanzibar Island, Tanzania
(locality not verified)

22.IV.1912
J. G. Parham

N 1638

RML 110442
2 ♂, 5 ♀ Rhipicephalus appendiculatus
Goat
Gulioni (05.59 S, 39.22 E),
Zanzibar Island, Tanzania

23.IV.1912
J. G. Parham

N 1639

RML 110443
10 ♂, 2 ♀ Rhipicephalus appendiculatus
Donkey
Zanzibar City (06.10 S, 39.11 E),
Zanzibar Island, Tanzania

24.IV.1912
J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1640	N	1640
		RML	110444
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		2 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Ram		Ram
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	22.IV.1912		22.IV.1912
	J. G. Parham		J. G. Parham
N	1641	N	1641
		RML	110445
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		2 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	N'gambo, Zanzibar, B.E. Africa		Ngambo (06.10 S, 39.12 E), Zanzibar Island, Tanzania
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham
N	1642	N	1642
		RML	110446
	<u>Rhipicephalus appendiculatus</u> ♀		1 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	N'gambo, Zanzibar, B.E. Africa		Ngambo (06.10 S, 39.12 E), Zanzibar Island, Tanzania
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1643	N	1643
	<u>Rhipicephalus appendiculatus</u> ♂, ♀, N (very small)	RML	110447
	Dog		1 ♂, 1 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	N'gambo, Zanzibar, B.E. Africa		Dog
	23.IV.1912		Ngambo (06.10 S, 39.12 E), Zanzibar Island, Tanzania
	J. G. Parham		23.IV.1912
			J. G. Parham
N	1644	N	1644
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N	RML	110448
	Dog		11 ♂, 5 ♀, 47 N <u>Rhipicephalus sanguineus</u>
	Zanzibar Town, B.E. Africa		Dog
	25.IV.1912		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	J. G. Parham		25.IV.1912
			J. G. Parham
N	1645	N	1645
	<u>Rhipicephalus sanguineus</u> N's	RML	110449
	Dog		6 N <u>Rhipicephalus sanguineus</u>
	Ba-bu-bu, Zanzibar, B.E. Africa		Dog
	25.IV.1912		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	J. G. Parham		25.IV.1912
			J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1646, a	N	1646, a
		RML	110450
	(1646) <u>Rhipicephalus appendiculatus</u> 2 ♂		(1646) 2 ♂ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Rhipicephalus evertsi</u> ♂		(a) 1 ♂ <u>Rhipicephalus evertsi</u>
	Sheep		Sheep
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	24.IV.1912		24.IV.1912
	J. G. Parham		J. G. Parham
N	1647	N	1647
		RML	110451
	<u>Haemaphysalis spiniceps</u> 1 ♂ (unique type!)		1 ♂ <u>Haemaphysalis cornigera</u> Holotype of <u>H. spiniceps</u>
	Federated Malay States		Malaysia
	H. C. Pratt		H. C. Pratt
	(Lent by Col. A. Alcock, F.R.S. = <u>H. cornigera</u> Nn., 1897)		Warburton & Nuttall (1909: 68), original description of <u>H.</u> <u>spiniceps</u> ; Nuttall & Warburton (1915: 503).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1648

Haemaphysalis vidua 1 ♂
(unique type)Paradoxurus sp.

Federated Malay States

(Lent by Col. A. Alcock, F.R.S.,
III.1909)

N 1648

RML 110452

1 ♂ Haemaphysalis vidua
HolotypeParadoxurus sp.

Malaysia

Mr. A. T. Stanton

Warburton & Nuttall (1909: 66),
original description, and collect-
or's name. Cited: Nuttall & Warb-
urton (1915: 495); Hoogstraal
(1962b: 719).

N 1649

Argas reflexus var. indicus
1 specimen

Found in book

Entomological room, Indian Museum,
Calcutta

15.III.1910

C. A. Paiva

[Indian Mus. $\frac{6267}{10}$]

N 1649

RML 66578

1 ♀ Argas reflexus indicus
Lectotype

Found in book

Entomological room, Indian Museum,
Calcutta (22.32 N, 88.22 E), IndiaWarburton (1910: 396), original
description. Lectotype designated:
Keirans & Brewster (1981: 154).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1650, a-e	N	1650, a-e
		RML	110453
	(1650) <u>Amblyomma splendidum</u> ♂'s, ♀'s		(1650) 153 ♂, 57 ♀ <u>Amblyomma</u> <u>variegatum</u>
	(a) <u>Amblyomma splendidum</u> ♂'s, ♀'s		(a) 45 ♂, 8 ♀ <u>Amblyomma splendidum</u>
	(b) <u>Boophilus annulatus</u> ♂'s, ♀'s		(b) 13 ♂, 6 ♀ <u>Boophilus annulatus</u>
	(c) <u>Rhipicephalus evertsi</u> var. <u>albigeniculatus</u> types		(c) 16 ♂, 8 ♀ <u>Rhipicephalus evertsi</u> <u>mimeticus</u> Lectotype and Para- lectotype
	(d) <u>Rhipicephalus capensis</u> ♂'s, ♀'s		(d) 20 ♂, 39 ♀ <u>Rhipicephalus longus</u>
	(e) <u>Rhipicephalus sulcatus</u> 1 ♀		(e) 1 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Lower Congo		Mateba Island (05.54 S, 12.50 E), Zaire
	23-30.IV.1912		23-30.IV.1912
	[These ticks arrived mostly dead, living <u>A. splendidum</u> (1 ♂) and <u>A. variegatum</u> (♂ & ♀) were figured by E. Wilson and an attempt will be made to raise them. Some gorged female <u>A. variegatum</u> were ovipositing].		(1650) total includes 12 ♂, 4 ♀ pinned and 15 ♀ in a jar of dry specimens.
	(a) 1 ♂, 1 ♀ to R. W. Mettam, Weybridge IV.1931. 1 ♂, 1 ♀ to H. S. Purchase IV.1931		(a) Total includes 12 ♂, 3 ♀ pinned. In a separate vial is 1 ♂ <u>A.</u> <u>splendidum</u> with its hypostome embedded in the body of a nymph.
	(d) 1 ♂, 1 ♀ to D. S. Hadwen, Canada 10.X.1913. 1 ♂, 1 ♀ to Dr. E. Pavlovsky, Leningrad, 9.X.1925.		(1650) Cited Nuttall (1915: 419) original description. Lectotype designated: Keirans & Brewster (1981: 169).
	<u>A. variegatum</u> (N 1650) Raised in Cambridge		(1650) & (1650a) are cited and fig- ured by Nuttall (1913c: 49).
	(a) 22.VI.12 eggs (in box with ova)		See also N 1694.
	(b) larvae		
	(c)		
	(e) ♂'s		
	(f) ♀'s unfed (f ¹) ♀'s after ovipositing		

NOTE: re lot 1650; not to be published, for private information only. These ticks were received through the courtesy of Professor Meuleman (Brussels), who procured them for me from a Director of a large cattle raising company, who begged him (Meuleman) not to divulge the place whence the ticks came as the Government might get interested in cattle diseases there and worry the company. I can get a good supply from the co. in September when the rains set in again. All the ticks came from the Island of Mateba, near Boma, Belgian Congo. I am also not to mention that Meulman sent these ticks, as it would be known at once whence they came.

G.H.F. Nuttall
31 May 1912

Ticks from the collection of the Liverpool School of Tropical Medicine, received from Prof. R. Newstead, April 24, 1912. Determined by Prof. L. G. Neumann (Toulouse), 22 May 1912.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1651	N	1651
		RML	110454
	<u>Amblyomma geayi</u> 1 ♀		1 ♀ <u>Amblyomma geayi</u>
	"Mpouri"		"Mpouri"
	British Guiana		Guyana
	1909		1909
	Dr. K. S. Wise		Dr. K. S. Wise
			Cited: Robinson (1926: 61).
N	1652	N	1652
		RML	110455
	<u>Amblyomma tholloni</u> 1 ♂		1 ♂ <u>Amblyomma tholloni</u>
	No data		No data
	Rec'd from Professor R. Newstead Liverpool School of Tropical Medicine 22.V.1912. Det. L.E.R.		
N	1653	N	1653
		RML	110456
	<u>Amblyomma dissimile</u> 1 ♀		1 ♀ <u>Amblyomma dissimile</u>
	Sheep		Sheep
	No other data		No other data
			The specimen certainly appears to be <u>A. dissimile</u> although this species is exclusively a parasite of amphibians and reptiles. Either the host datum is incorrect, or because the tick is unfed, perhaps a case of straggling. Cited: Robinson (1926: 167).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1654

N 1654

Amblyomma coelebs 4 ♂, 3 ♀

RML 110457

3 ♂, 3 ♀ Amblyomma coelebs
1 ♂ Amblyomma cajennense

No data

No data

The ♂ of Amblyomma cajennense is in a jar marked "Tick Abnormalities". That same male was figured by Robinson (1920: 177).

N 1655

N 1655

Amblyomma ovale 2 ♂, 3 ♀

RML 110458

2 ♂, 4 ♀ Amblyomma ovale

No data

No data

L.E.R. det. 1926

From Liverpool School of Tropical Medicine #144c

There is a blue COTYPE label in the vial with these ticks.

N 1656

N 1656

Amblyomma sp. nymphs

RML 110459

62 N Amblyomma sp.

No data

No data

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1657	N	1657
	<u>Hyalomma syriacum</u> larvae	RML	110460
	<u>Testudo graeca</u>		58 L <u>Hyalomma aegyptium</u>
	Raised in Quick Laboratory Cambridge		<u>Testudo graeca</u>
	IV.1911		Raised in Quick Laboratory, Cambridge (52.13 N, 00.08 E), England
			IV.1912 [Date on vial label]
N	1658	N	1658
	<u>Boophilus annulatus</u> ♀'s (gorged)	RML	110461
	Cattle		86 ♂, 101 ♀, 181 L, 1 vial of eggs <u>Boophilus annulatus</u>
	Dallas, Texas, U.S. America		Cattle
	3.V.1912		Dallas (32.47 N, 96.48 W), Texas, U.S.A.
	Rec'd from Mr. F. C. Bishopp, 29.V.1912		3.V.1912
	<u>B. annulatus</u> : Raised in Cambridge in 1912		Rec'd from Mr. F. C. Bishopp, 29.V.1912
	(a) eggs in box with ova		Cited: Edwards & Evans (1967: 596).
	(b) larvae		
	(c) ♂'s (c') ♂'s		
	(d) ♀'s gorged (e) ♀'s after oviposition		
	3 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916		
	1 ♂, larvae to Dr. E. Roubaud, Inst. Pasteur 12.X.1922		
	1 ♂, larvae to Prof. J. Hjort, Univ. Christiania, Norway 12.X.1922		
	1 ♂, larvae to Dr. A. Watkins Pitchford Army Vet School, Thornhill, Aldershot 12.X.1922		

ORIGINAL DETERMINATIONCURRENT STATUS

- N 1658 (cont'd)
- 1 ♂, larvae to L.P.W. Renouf, Biol. Dept. Univ. College, Cork, Ireland, 12.X.1922
- 1 ♂, larvae to W.A. Pool, Indian Civil Veterinary Dept., 12.X.1922
- 1 ♂, larvae to Dr. Wm. Parry Morgan, Publ. Hlth. Lab., Cardiff, Wales, 12.X.1922
- 1 ♂, larvae to J.E.M. Mellor, Malvern College, Malvern, 16.X.1922
- 1 ♂, larvae to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922
- 1 ♂, larvae to Prof. E. Brumpt, École Médecine, Paris 12.X.1922
- 1 ♂, larvae to I. C. Ross, University of Sydney, Australia
- 1 ♂, 1 ♀ to Prof. R. Matheson, Cornell, 27.V.1929
- 1 ♂, 1 ♀ to Dr. A. C. Reed 30.V.1929
- 1 ♂, 1 ♀ to Prof. J. Drbohlav 30.V.1929
- 2 ♀ to Prof. E. Malvoz 30.V.1929

N 1659

N 1659

RML 110462

Amblyomma marmoreum 1 ♂1 ♂ Amblyomma marmoreumTestudo leopardinusGeochelone pardalis

South Africa

Republic of South Africa

10.I.1912

10.I.1912

(Zool Soc "No. 19")

Cited: Robinson (1926: 90);
Theiler & Salisbury (1959: 107).The tick specimen was collected
at the London Zoo.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1660	N	1660
		RML	110463
	<u>Ornithodoros tholozani</u> (4 adults)		3 ♀ <u>Ornithodoros tholozani</u>
	Quetta, Baluchistan, India		Quetta (30.12 N, 67.00 E), Pakistan
	Rec'd 27.V.1912		Rec'd 27.V.1912
	Rec'd from Major G.E.F. Stammers, R.A.M.C.		Rec'd from Major G.E.F. Stammers, R.A.M.C.
	Compared with types in the Paris Museum, labelled " <u>Argas tholozani</u> Laboulb. et Mégnin receuillis en 1882 dans un poulailler, Téhéran, Tholozan. 1587-84." Kindly lent me by the Museum (Prof. Bouvier), who sent 3 specimens: 1 adult & 2 N's. N., 5.VI.1912.		
	Ticks received from the Indian Museum, Calcutta, India, (per Dr. N. Annandale), April-May, 1912. Determined by Mr. Warburton, as follows: (All Abor Expedition).		
	<u>Haem. bispinosa</u> 1 ♀, off <u>sweepings</u> , Badiya, N. E. Assam. 24.XI.19 (Abor Expedition) S.W. Kemp. [Indian Mus. <u>1244</u>].		<u>17</u>
	<u>Haem. sp.?</u> o's, off jungle fowl (<u>Gallus gallus</u>), Yambung, India (1,100 ft.), II.1912. S.W. Kemp. [Indian Mus. <u>1245</u>].		<u>17</u>
	<u>Haem. sp.?</u> o's, off <u>grass</u> , Upper Rotung (2,000 ft.), II.1912 S.W. Kemp. [Indian Mus. <u>1246</u>].		<u>17</u>
	<u>Ixodes kemp</u> off <u>Sciurus erythaeus intermedius</u> Aud, Kobo n.sp., Nuttall, 1913 (400 ft.), 24.III.1912. S.W. Kemp. [Indian Mus. <u>1247</u>]		<u>17</u>
	<u>Ixodes acutitarsus</u> 1 ♀, off ?, Yambung (1,100 ft.), 13-17.I.1912. S. W. Kemp. [Indian Mus. <u>1248</u>]		<u>17</u>
	<u>Amb. testudinarium</u> 1 ♀, off ? below Damda, banks of Siyom R, 1.II.1912. S.W. Kemp. [Indian Mus. <u>1249</u>].		<u>17</u>
	<u>Haem. sp.?</u> o's, off ? Yambung (1,100 ft.), II.1912. S.W. Kemp. [Indian Mus. <u>1250</u>]		<u>17</u>
	<u>Haem. aborensis</u> 1 ♀ off <u>grass sweepings</u> , Yambung (1,100 ft.), 13-17.I.1912. n. sp., N & W, 1913 S.W. Kemp. [Indian Mus. <u>1251</u>]		<u>17</u>

Ambly. testudinarium ♀, found under logs, Sadiya, N. E. Assam 25.XI.1911.
[Indian Mus. 1262]
17

Haem. hystericis off ?, De Krang R., Sadiya, N.E. Assam, 26.XII.1911.
(not typical!) S.W. Kemp. [Indian Mus. 1253]
17

Ticks retained for our collection out of the consignment sent for determination by N. B. Kinnear, Esq., Bombay Natural History Society, Apollo Street, Bombay, India, 21.VI.1912:-
[When describing the n. sp. of this collection mention that they were obtained from the Bombay Natural History Society's Mammal Survey. Write a short paper on them, with a brief popular introduction, as "it might be the means of interesting some of the members to collect specimens" which would be sent to us. The Society is prepared to pay for some tick blocks. (See letter by Kinnear, "Tick Correspondence, 21 June, 1912)].

ORIGINAL DETERMINATION

CURRENT STATUS

N 1661

N 1661

RML 110464

Haemaphysalis leachi var.
indica ♂, ♀

1 ♂, 1 ♀ Haemaphysalis indica

Mungos mungo

Herpestes edwardsi

Parola, Kandeish, India

Parola (20.53 N, 75.07 E),
India

13.III.1911

13.III.1911

C. A. Crump

C. A. Crump

Cited: Nuttall & Warburton
(1915: 475).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1662	N	1662
	<u>Hyalomma</u> sp. N's	RML	110465
	<u>Lepus simicoxi</u>		8 N <u>Hyalomma</u> sp.
	Fardapur, Kandeish, India		<u>Lepus nigricollis simcoxi</u>
	1911		Fardapur, Maharashtra, India (locality not verified)
	C. A. Crump		1911
			C. A. Crump
N	1663	N	1663 MISSING
	<u>Haemaphysalis leachi</u> ♂, ♀		
	<u>Felis affinis</u>		
	Fardapur, Kandeish, India		
	10.IV.1911		
	C. A. Crump		
N	1664	N	1664
	<u>Amblyomma sublaeve</u> 1 ♀, 1 N	RML	110466
	<u>Hyaena hyaena</u>		1 ♀ <u>Amblyomma javanense</u>
	Ghondasgaon, Kandeish, India		<u>Hyaena hyaena</u>
	4.V.1911		Ghondasgaon, Maharashtra, India (locality not verified)
	C. A. Crump		4.V.1911
			C. A. Crump
			Cited: Robinson (1926: 247).

ORIGINAL DETERMINATIONCURRENT STATUS

N 1665

Haemaphysalis bispinosa
var. intermedia 1 ♂Hyaena hyaena

Ghodasgaon, Kandeish, India

4.V.1911

C. A. Crump

N 1665

RML 110467

1 ♂ Haemaphysalis kutchensis
ParatypeHyaena hyaenaGhodasgaon, Maharashtra, India
(locality not verified)

4.V.1911

C. A. Crump

Cited: Nuttall & Warburton
(1915: 435); Hoogstraal &
Trapido (1963a: 489), original
description of H. kutchensis.

N 1666

Haemaphysalis bispinosa var.
intermedia 2 ♂Felis affinis

Ghodasgaon, Kandeish, India

5.V.1911

C. A. Crump

N 1666

RML 110468

2 ♂ Haemaphysalis kutchensis
ParatypeFelis chausGhodasgaon, Maharashtra, India
(locality not verified)

5.V.1911

C. A. Crump

Cited: Nuttall & Warburton
(1915: 435); Hoogstraal &
Trapido (1963a: 489), original
description of H. kutchensis.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1667	N	1667
		RML	110469
	<u>Amblyomma sublaeve</u> ♂'s, ♀'s, N's		5 ♂, 1 ♀, 2 N <u>Amblyomma javanense</u>
	<u>Hyaena hyaena</u>		<u>Hyaena hyaena</u>
	Ghodaasgaon, Kandeish, India		Ghodaasgaon, Maharashtra, India (locality not verified)
	1911		1911
	C. A. Crump		C. A. Crump
N	1668	N	1668
		RML	110470
	<u>Amblyomma sublaeve</u> 2 ♂, 1 ♀, 3 N		2 ♂, 1 ♀, 4 N <u>Amblyomma javanense</u>
	<u>Hyaena hyaena</u>		<u>Hyaena hyaena</u>
	Ghodaasgaon, Kandeish, India		Ghodaasgaon, Maharashtra, India (locality not verified)
	10.V.1911		10.V.1911
	C. A. Crump		C. A. Crump
N	1669	N	1669
		RML	110471
	<u>Hyalomma aegyptium</u> N		1 N <u>Hyalomma</u> sp.
	<u>Presbytis entellus</u>		<u>Presbytis entellus</u>
	Chikalda, Berars, India		Either Chikalda (21.24 N, 77.19 E) or (22.05 N, 74.53 E), India
	1911		1911
	C. A. Crump		C. A. Crump

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1670	N	1670
	<u>Hyalomma aegyptium</u> ? 2 ♀ (small)	RML	66612
	<u>Epimys rufescens</u>		2 ♀ <u>Hyalomma</u> sp.
	Pili, Sipna Valley, Berars, India		<u>Rattus rattus rufescens</u>
	31.V.1911		Pili, Sipna Valley, Bihar, India (locality not verified)
	C. A. Crump		31.V.1911
			C. A. Crump
			These specimens key to <u>Hyalomma anatolicum</u> in Kaiser & Hoogstraal (1964) but the host is incorrect and, as Nuttall states, the specimens are very small.
N	1671	N	1671, b
	<u>Rhipicephalus haemaphysaloides</u> 2 ♂, 1 ♀	RML	110472
	<u>Cuon dukhunensis</u>		(1671) 2 ♂, 1 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Pili, Sipna Valley, Berars, India		(b) 3 ♂, 3 ♀ <u>Haemaphysalis paraturturis</u> Paratypes
	1911		<u>Cuon alpinus dukhunensis</u>
	C. A. Crump		Pili, Sipna Valley, Bihar, India (locality not verified)
			1911
			C. A. Crump
			Collection 1671b was not entered into the catalogue. Hoogstraal et al. (1963: 686), original description of <u>H. paraturturis</u> .

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1672	N	1672
		RML	22293
	<u>Haemaphysalis bispinosa</u> var. <u>intermedia</u> ♂, ♀		5 ♂, 1 ♀ <u>Haemaphysalis paraturturis</u>
	<u>Cuon dukhunensis</u>		<u>Cuon alpinus dukhunensis</u>
	Pili, Sipna Valley, Berars, India		Pili, Sipna Valley, Bihar, India (locality not verified)
	1911		1911
	C. A. Crump		C. A. Crump
			Cited: Nuttall & Warburton (1915: 435); Hoogstraal et al. (1963: 686), original description of <u>H. paraturturis</u> .
			Three slides of a dissected ♂ are present.
N	1673, a	N	1673
		RML	110473
	(1673) <u>Rhipicephalus haemaphysaloides</u> 3 ♂, 1 ♀		(1673) 2 ♂, 1 ♀ <u>Rhipicephalus</u> <u>haemaphysaloides</u>
	(a) <u>Haemaphysalis bispinosa</u> 1 ♂ (an uncharacteristic form)		(a) MISSING
	<u>Cuon dukhunensis</u>		<u>Cuon alpinus dukhunensis</u>
	Pili, Sipna Valley, Berars, India		Pili, Sipna Valley, Bihar, India (locality not verified)
	1911		1911
	C. A. Crump		C. A. Crump

ORIGINAL DETERMINATIONCURRENT STATUS

N	1674	N	1674
		RML	110474
	<u>Rhipicephalus sanguineus</u> ♂ & ♀		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	<u>Felis ornata</u>		<u>Felis libyca ornata</u>
	Bhuj, Cutch, India		Bhuj (23.16 N, 69.40 E), Kutch, India
	1911		1911
	C. A. Crump		C. A. Crump
N	1675	N	1675
		RML	110475
	<u>Rhipicephalus sanguineus</u> 1 ♂		1 ♂ <u>Rhipicephalus sanguineus</u>
	<u>Erinaceus collaris</u>		<u>Hemiechinus auritus collaris</u>
	Bhuj, Cutch, India		Bhuj (23.16 N, 69.40 E), Kutch, India
	8.VII.1911		8.VII.1911
	C. A. Crump		C. A. Crump
N	1676	N	1676
		RML	110476
	<u>Rhipicephalus sanguineus</u> 2 ♂, 2 ♀		1 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>
	<u>Hyaena hyaena</u>		<u>Hyaena hyaena</u>
	Nokania, Cutch, India		Nokania, Kutch, India (locality not verified)
	10.VII.1911		10.VII.1911
	C. A. Crump		C. A. Crump

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1677	N	1677
		RML	110477
	<u>Rhipicephalus sanguineus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	<u>Erinaceus micropus</u>		<u>Paraechinus micropus</u>
	Bhuj, Cutch, India		Bhuj (23.16 N, 69.40 E), Kutch, India
	8.VII.1911		8.VII.1911
	C. A. Crump		C. A. Crump
N	1678	N	1678
		RML	110478
	<u>Hyalomma</u> sp. N		1 N <u>Hyalomma</u> sp.
	<u>Cremnomys cutchicus</u>		<u>Rattus (Cremnomys) cutchicus</u>
	Chalwa, Cutch, India		Probably Charwa (22.07 N, 76.54 E), Kutch, India
	7.VIII.1911		7.VIII.1911
	C. A. Crump		C. A. Crump
N	1679	N	1679
		RML	110479
	<u>Rhipicephalus</u> sp. N		1 N <u>Rhipicephalus</u> sp.
	<u>Cremnomys cutchicus</u>		<u>Rattus (Cremnomys) cutchicus</u>
	Chalwa, Cutch, India		Probably Charwa (22.07 N, 76.54 E), Kutch, India
	7.VIII.1911		7.VIII.1911
	C. A. Crump		C. A. Crump

ORIGINAL DETERMINATIONCURRENT STATUS

N 1680

N 1680

Haemaphysalis bispinosa var.
intermedia 3 ♂, 1 ♀

RML 110480

3 ♂, 1 ♀ Haemaphysalis kutchensis
ParatypesCanis pallipesCanis lupus pallipes

Charwa, Cutch, India

Charwa (22.07 N. 76.54 E), Kutch,
India

1911

1911

C. A. Crump

C. A. Crump

Cited: Nuttall & Warburton (1915:
434) with N. B. Kinnear listed as
collector; Hoogstraal & Trapido
(1963a: 489), original description
of H. kutchensis with number of
specimens listed as 2 ♂, 1 ♀.

N 1681

N 1681

Rhipicephalus haemaphysaloides
2 ♂, 1 ♀

RML 110481

2 ♂, 1 ♀ Rhipicephalus
haemaphysaloidesCanis pallipesCanis lupus pallipes

Charwa, Cutch, India

Charwa (22.07 N, 76.54 E), Kutch,
India

1911

1911

C. A. Crump

C. A. Crump

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1682	N	1682
		RML	110482
	<u>Haemaphysalis bispinosa</u> var. <u>intermedia</u> 2 ♂		1 ♂ <u>Haemaphysalis kutchensis</u> Paratype
	<u>Felis caracal</u>		<u>Felis caracal</u>
	Bhuj, Cutch, India		Bhuj (23.16 N, 69.40 E), Kutch, India
	19.VIII.1911		19.VIII.1911
	C. A. Crump		C. A. Crump
			Cited: Nuttall & Warburton (1915: 434) with N. B. Kinnear listed as collector, Hoogstraal & Trapido (1963a: 489), original description of <u>H. kutchensis</u> .
N	1683	N	1683
		RML	110483
	<u>Rhipicephalus sanguineus</u> 1 ♂ (deformed)		1 ♂ <u>Rhipicephalus sanguineus</u>
	<u>Vulpes leucopus</u>		<u>Vulpes vulpes pusilla</u>
	Bhuj, Cutch, India		Bhuj (23.16 N, 69.40 E), Kutch, India
	1911		1911
	C. A. Crump		C. A. Crump
			This specimen is in a jar marked "Tick Abnormalities".
			Cited and figured by Nuttall (1914a: 253).

ORIGINAL DETERMINATIONCURRENT STATUS

N

1684

Hyalomma sp. ? NErinaceus micropus

Bhuj, Cutch, India

30.VIII.1911

C. A. Crump

N

1684

RML

110484

1 N Hyalomma sp.Paraechinus micropusBhuj (23.16 N, 69.40 E), Kutch,
India

30.VIII.1911

C. A. Crump

N

1685

Aponomma gervaisi 3 ♂, 3 ♀Varanus griseus

Mirpurkhas, Sind, India

15.IV.1911

C. A. Crump

N

1685

RML

110485

3 ♂, 3 ♀ Aponomma gervaisiVaranus griseusMirpur Khas (25.32 N, 69.00 E),
Pakistan

15.IV.1911

C. A. Crump

N

1686

Haemaphysalis bispinosa var.
intermedia 2 ♂, 2 ♀Lepus ruficaudatus

Shamghar, India

25.III.1911

"N.B.K."

N

1686

RML

110486

2 ♂, 2 ♀ Haemaphysalis kutchensis
ParatypesLepus nigricollis ruficaudatusShamghar (24.11 N, 75.38 E),
India

25.III.1911

N. B. Kinnear

Cited: Nuttall & Warburton (1915:
434); Hoogstraal & Trapido (1963a:
489), original description with
number of specimens listed as 1 ♂,
1 ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1687

N 1687 MISSING

Argas persicus (2)

Khartoum, Soudan

1912

Dr. A. Balfour

[Small tick was observed "feeding" through the back of the larger one, 19.III.1912]

Nuttall illustrates the larger tick showing a scar on the dorsum where feeding took place.

N 1688

N 1688 MISSING

Rhipicephalus sanguineus 2 N's
and

8 specimens of Hunterellus hookeri

Dogs

Corpus Christi, Texas

Rec'd 26.III.1912

Rec'd from H. P. Wood

Herbert Poland Wood (1883-1925)
B.S. Massachusetts Agricultural
College 1907. Worked at Bureau
of Entomology, Dallas, Texas where
he investigated tick biology until
transferred to Cereal and Forage
Insect Investigations in 1920.

Note: These hymenopterous parasites emerged at the Dallas Laboratory on 22.VI.1908 from the nymphal ticks which had been collected 29.V.1908 off dogs. Sent by my request by Mr. H. P. Wood (P.O. Box 208, Dallas, Texas) of the U.S. Dept. of Agric. 4 other specimens of H. hookeri were rec'd dry, these are being mounted on 2 slides; the others are in 50% alcohol as received.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1689

N 1689

Boophilus annulatus ♀'s (gorged)RML 110487
3 ♂, 31 ♀ Boophilus annulatus
(in two vials)

Immune Texas-fever bulls

Immune Texas-fever bulls

Experiment Station, Dallas,
Texas, U.S.A.Experiment Station, Dallas (32.47 N,
96.48 W), Texas, U.S.A.

14.IV.1912

15.IV.1912 & 1912

Sent by Mr. F. C. Bishopp

Sent by Mr. F. C. Bishopp

[Developed from larvae placed on
bulls 13.III.1911; began moulting
to nymphs 21.III; began moulting to
adults 1.IV; the gorged ♀'s collected
off bulls 14.IV.1912]. Sent by
Mr. F. C. Bishopp at the request of
Dr. L. O. Howard (used for raising
experiments 9.V.1912). N.

Vial label dates given above.

Ticks received from Professor Franz Hutyra, Budapest, Hungary, 7 June 1912.
(Majority returned 10.VI.1912)

N 1690

N 1690 MISSING

Ixodes ricinus 1 ♂, 2 ♀

Budapest, Hungary

VI.1912

Prof. von Ratz

ORIGINAL DETERMINATIONCURRENT STATUS

N	1691	N	1691
		RML	110488
	<u>Ixodes ricinus</u> 3 ♂, 3 ♀ (in copula)		3 ♂, 3 ♀ <u>Ixodes ricinus</u>
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Budapest, Hungary		Budapest (47.30 N, 19.05 E), Hungary
	VI.1912		VI.1912
	Prof. von Ratz		Prof. von Ratz Cited: Nuttall (1916: 333).
N	1692	N	1692 MISSING
	<u>Ixodes ricinus</u> 1 ♂		
	<u>Cervus capreolus</u>		
	Budapest, Hungary		
	VI.1912		
	Prof. von Ratz		
N	1693	N	1693
		RML	110489
	<u>Haemaphysalis punctata</u> 1 ♂, 4 ♀		4 ♀ <u>Haemaphysalis punctata</u>
	<u>Equus caballus</u>		<u>Equus caballus</u>
	Budapest, Hungary		Budapest (47.30 N, 19.05 E), Hungary
	VI.1912		VI.1912
	Prof. von Ratz		Prof. von Ratz Nuttall & Warburton (1915: 386) cited this record but gave it an incorrect Nuttall number (N 1695).

Ticks received 22.VI.1912, off cattle, Lower Congo, same origin as No. 1650 q.v., they arrived in wooden boxes, only a few alive (A. variegatum: ovipositing ♀'s & adults emerging from nymphal skins, also egg batches, kept for raising).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1694a-d	N	1694 a, b, d
		RML	110490
	(a) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(a) 318 ♂, 129 ♀ <u>Amblyomma variegatum</u>
	(b) <u>Rhipicephalus evertsi</u> var. <u>albigeniculatus</u> ♂'s, ♀'s <u>Types</u>		(b) 5 ♂, 3 ♀ <u>Rhipicephalus evertsi mimeticus</u> <u>Paralectotypes</u>
	(c) <u>Boophilus decoloratus</u> ? ♀ & eggs		(c) MISSING
	(d) <u>Rhipicephalus capensis</u> ♂, ♀		(d) 1 ♂, 13 ♀ <u>Rhipicephalus longus</u>
	Cattle		Cattle
	Lower Congo		Mateba Island (05.54 S, 12.50 E), Zaire
	Rec'd 22.VI.1912		Rec'd 22.VI.1912
	(a) 2 ♂, 2 ♀ to Dr. J. G. Parham, Port. East Africa, 18.IV.1913 2 ♂, 2 ♀ to N.Y. National Museum 18.IV.1913		Total for (a) includes 4 ♂, 6 ♀ pinned. There are three additional vials of <u>A. variegatum</u> containing (1) 7 ♀; (2) 1 ♂; (3) 200 + eggs from a rearing study conducted at Cambridge which are not included in the totals given above. (b) Nuttall & Warburton (1916: 327), original description. Paralectotype designated: Keirans & Brewster (1981: 169).
N	1695	N	1695 MISSING
	<u>Argas persicus</u> 1 ♀		
	Beni Ounif, Algeria		
	Presented 24.VI.1912		
	Presented by E. Hindle		
	Very large!		

Ticks received 16.VI.1912 from Prof. Galli-Valerio, Faculté de Médecine, Lausanne, Switzerland. His determinations of Nos. 1695-1699 were found correct. I det'd Nos. 1700-1702.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1696	N	1696
		RML	110491
	<u>Hyalomma aegypticum</u> 1 ♀		1 ♀ <u>Hyalomma dromedarii</u>
	Dromedary, horse or cattle		Camel, horse or cattle
	Ile de Djerba, Tunisia		Jarbah, Jazirat (33.48 N, 10.54 E), Tunisia
	1910		1910
N	1697	N	1697
		RML	110492
	<u>Amblyomma splendidum</u> 1 ♂		1 ♂ <u>Amblyomma splendidum</u>
	Cattle		Cattle
	Ngômo sur l'Ogouille French Congo		Ngomo (03.31 S, 14.26 E), Congo
			Cited: Robinson (1926: 125).
N	1698	N	1698
		RML	110493
	<u>Aponomma gervaisi</u> 2 ♂		2 ♂ <u>Aponomma gervaisi</u>
	<u>Varanus</u> sp.		<u>Varanus</u> sp.
	Ceylon		Sri Lanka
	1901		1901

ORIGINAL DETERMINATIONCURRENT STATUS

N	1699	N	1699
		RML	110494
	<u>Boophilus annulatus</u> 1 ♀		1 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Colombia, S. America		Colombia, South America
N	1700	N	1700
		RML	110495
	<u>Ixodes hexagonus</u> 1 ♀		1 ♀ <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Lausanne, Switzerland		Lausanne (46.32 N, 06.40 E), Switzerland
	1908		1908 Cited: Nuttall (1916: 328).
N	1701	N	1701
		RML	110496
	<u>Ixodes ricinus</u> ♂ & ♀ pair (in copula)		1 ♂, 1 ♀ <u>Ixodes ricinus</u>
	<u>Lepus timidus</u>		<u>Lepus timidus</u> (probably an incorrect host determination)
	Château de Ripaille, Haute Savoie, France		Château de Ripaille, Department de la Haute - Savoie (46.00 N, 06.20 E), France
	1904		1904 Cited: Nuttall (1916: 332).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1702	N	1702
		RML	110497
	<u>Ixodes ricinus</u> 1 ♀		1 ♀ <u>Ixodes ricinus</u>
	Dog		Dog
	Orbe, Canton de Vaud, Switzerland		Orbe (46.43 N, 06.32 E), Canton de Vaud, Switzerland
	1901		1901 Cited: Nuttall (1916: 332).
N	1703	N	1703
		RML	110498
	<u>Ixodes putus</u> ♂'s, ♀'s (gorged & unfed), N's (gorged) & eggs		21 ♂, 53 ♀, 10 N, 176 L, 1 vial of eggs <u>Ixodes uriae</u>
	Collected from holes in cliffs		Collected from holes in cliffs
	Pitton, Gower, Glamorganshire, S. Wales		Pitton, Gower (51.36 N, 04.10 W), Glamorganshire, Wales
	3-4.VII.1912		3-4.VII.1912
	Mr. George Williams (Fisherman)		Mr. George Williams (Fisherman)
	Rec'd 5.VII.1912 (used for raising experiments). 3 slides mounted with larvae in balsam and 1 with N's. 1 ♂, 1 ♀, 1 N to Dr. S. Hadwen, Brit. Columbia, Canada, 10.X.1913 1 ♂, 1 ♀, L's to Prof. Dr. Dahl, Berlin Museum VII.1914 1 ♂, 1 ♀, 1♀s to Prof. Dr. Schenkling, Deutsches Entomol. Museum VII.1914 1 ♂, 1 ♀, L's to Prof. Dr. R. Gestro, Museo. Civico di Storia Nat., Genova, VII.1914 1 ♂, 1 ♀ L's to Dr. de Blicck, Java, 22.I.1915 2 ♂, 1 ♀ to Dr. E. Pavlovsky, Leningrad 9.X.1925 1 ♂, 2 ♀ to Prof. R. Matheson, Cornell, 27.V.1929		Collection of 5 vials Cited: Nuttall (1913d: 77); (1915: 437); (1916: 330). Slides missing

Ticks received from Dr. Lucius Nicholls, Victoria Hospital, St. Lucia,
Windward Islands, West Indies, 9 July 1912:

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1704	N	1704
		RML	110499
	<u>Amblyomma dissimile</u> 3 ♀'s		3 ♀ <u>Amblyomma dissimile</u>
	Toad		Toad
	St. Lucia, West Indies		Saint Lucia (13.55 N, 60.59 W), Lesser Antilles
	15.VI.1912		15.VI.1912
	Dr. L. Nicholls		Dr. L. Nicholls
N	1705	N	1705
		RML	110653
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's		2 ♂, 2 ♀, 5 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	St. Lucia, West Indies		Saint Lucia (13.55 N, 60.59 W), Lesser Antilles
	15.VI.1912		15.VI.1912
	Dr. L. Nicholls		Dr. L. Nicholls
N	1706	N	1706
		RML	110654
	<u>Boophilus australis</u> 3 ♀		3 ♀ <u>Boophilus microplus</u>
	Bull		Bull
	St. Lucia, W. Indies		Saint Lucia (13.55 N, 60.59 W), Lesser Antilles
	15.VI.1912		15.VI.1912
	Dr. L. Nicholls		Dr. L. Nicholls
	Bull recently came from Barbuda, Leeward Islands		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1707, a	N	1707, a
		RML	110655
	(1707) <u>Dermacentor nitens</u> ♂'s, ♀'s, N, L		(1707) 5 ♂, 4 ♀, 2 N, 1 L <u>Anocentor nitens</u>
	(a) <u>Rhipicephalus sanguineus</u> ♂ & ♀		(a) 1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Fallow buck (deer)		Deer
	Barbuda, Leeward Islands, W. Indies		Barbuda (17.38 N, 61.48 W), Lesser Antilles
	4.IX.1911		4.IX.1911
	Dr. L. Nicholls		Dr. L. Nicholls
Ticks received back from the Entomological Research Committee (Tropical Africa), London, S.W. ex Report No. 22, 2 July 1912:			
N	1708	N	1708
		RML	110656
	<u>Rhipicephalus appendiculatus</u> ♂, ♀'s		9 ♂, 6 ♀ <u>Rhipicephalus appendiculatus</u>
	<u>Cobus defassa</u>		<u>Kobus ellipsiprymnus</u>
	Near Lango Bay, South Buddu, Uganda, B.E. Africa		Near Lango Bay, South Buddu, Uganda (locality not verified)
	IX.1911		IX.1911
	S. A. Neave		S. A. Neave
	(E.C. 456)		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1709	N	1709
		RML	110657
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		11♂, 10 ♀ <u>Rhipicephalus appendiculatus</u>
	<u>Cobus defassa</u>		<u>Kobus ellipsiprymnus</u>
	Plains N.E. of Lake Edward, Uganda, B.E. Africa		Plains N.E. of Lake Edward (00.25 S, 29.30 E), Uganda
	X.1911		X.1911
	S. A. Neave		S. A. Neave
	(ERC 457)		
N	1710	N	1710 MISSING
	<u>Amblyomma</u> sp. 2 N		
	Buffalo		
	Tero Forest Lango Bay, Uganda, B.E. Africa		
	30.IX.1911		
	S. A. Neave		
	(ERC 458b)		
N	1711	N	1711
		RML	110658
	<u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		16 ♂, 12 ♀ <u>Rhipicephalus lunulatus</u>
	Eland		<u>Taurotragus oryx</u>
	S.E. Ankole, Uganda, B.E. Africa		S.E. Ankole Kingdom (00.30 S, 30.30 E), Uganda
	X.1910		X.1910
	S.A. Neave		S. A. Neave
	(E.R.C. 461a)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1712	N	1712
		RML	110659
	<u>Rhipicephalus falcatus</u> ♂'s, ♀'s		4 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Eland		<u>Taurotragus oryx</u>
	S.E. Ankole, Uganda, B.E. Africa		S.E. District of Ankole (00.30 S, 30.30 E), Uganda
	X.1910		X.1910
	S. A. Neave		S. A. Neave
	(ERC 461b)		
N	1713	N	1713
		RML	110660
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		21 ♂, 11 ♀ <u>Rhipicephalus appendiculatus</u>
	<u>Cobus defassa</u>		<u>Kobus ellipsipymnus</u>
	Plains N of Lake Edward, Uganda, B.E. Africa		Plains N. of Lake Edward (00.25 S, 29.30 E), Uganda
	X.1910		X.1910
	S.A. Neave		S. A. Neave
	(E.R.C. 462)		
N	1714	N	1714
		RML	110661
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s (not typical)		14 ♂, 6 ♀ <u>Rhipicephalus</u> sp.
	<u>Tragelaphus spekei</u>		<u>Tragelaphus spekei</u>
	Entebbe, Uganda, B.E. Africa		Entebbe (00.04 N, 32.28 E), Uganda
	9.IX.1911		9.IX.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 464)		This is <u>Rhipicephalus</u> species III of Yeoman & Walker (1967)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1715	N	1715
		RML	110662
	<u>Amblyomma cohaerens</u> 1 ♀		1 ♀ <u>Amblyomma cohaerens</u>
	Off grasses		Off grasses
	N.W. Ankole, Uganda, B.E. Africa		N.W. District of Ankole (00.30 S, 30.30 E), Uganda
	X.1911		X.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 471)		
N	1716	N	1716
		RML	66575
	<u>Rhipicephalus dux</u> 2 ♂, 2 ♀		3 ♂, 1 ♀ <u>Rhipicephalus dux</u>
	Off grasses		Off grasses
	N.W. Ankole, Uganda, B.E. Africa		N.W. District of Ankole (00.30 S, 30.30 E), Uganda
	X.1911		X.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 471b)		
N	1717	N	1717
		RML	110663
	<u>Amblyomma</u> sp. larvae		6 L <u>Amblyomma</u> sp.
	<u>Cobus thomasi</u>		<u>Kobus kob thomasi</u>
	Kafu River, Ungoro, Uganda, B.E. Africa		Kafu River (00.05 S, 30.09 E), Uganda
	XII.1911		XII.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 475)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1718	N	1718
		RML	110664
	<u>Ixodes</u> sp. N's L's <u>Haemaphysalis</u> sp. N's, L's		2 N, 3 L <u>Ixodes</u> sp. 4 N, 9 L <u>Haemaphysalis</u> sp.
	<u>Gultera cristata</u>		<u>Guttera edouardi sethsmithi</u>
	Budongo Forest, Ungoro, Uganda, B.E. Africa		Budongo Forest (01.45 N, 31.35 E), District of Bunyoro, Uganda
	4.XII.1911		4.XII.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 479)		
N	1719	N	1719
		RML	110665
	<u>Amblyomma petersi</u> ♂'s, ♀'s		10 ♂, 1 ♀ <u>Amblyomma rhinocerotis</u>
	Six miles E. of Palango Station (3,700 ft), R. Nile, Uganda, B.E. Africa		Six miles E. of Palango (01.54 N, 32.22 E), District of Lango, Uganda (1128 m)
	10.I.1912		10.I.1912
	R. Paske Smith		R. Paske Smith
	(E.R.C. 481)		
N	1720	N	1720
		RML	110666
	<u>Amblyomma petersi</u> ♀'s		5 ♀ <u>Amblyomma rhinocerotis</u>
	Six miles E of Palango Station (3,700 ft), R. Nile, Uganda, B.E. Africa		Six miles E. of Palango (01.54 N, 32.22 E), District of Lango, Uganda (1128 m)
	10.I.1912		10.I.1912
	R. Paske Smith		R. Paske Smith
	(E.R.C. 482)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1721	N	1721
		RML	48991
	<u>Amblyomma petersi</u> ♂'s, ♀'s		12 ♂, 1 ♀ <u>Amblyomma rhinocerotis</u>
	Six miles E. of Palango Station (3,700 ft), R. Nile, Uganda, B.E. Africa		Six miles E. of Palango (01.54 N, 32.22 E), District of Lango, Uganda (1128 m)
	10.I.1912		10.I.1912
	R. Paske Smith		S. A. Neave
	(E.R.C. 483)		Vial label cites S. A. Neave as collector.
	1 ♂, 1 ♀ to Prof. R. A. Cooley, Montana V.1928		The specimens sent to R. A. Cooley are now in the RML collection.
N	1722	N	1722
		RML	110667
	<u>Dermacentor rhinocerotis</u> ♂'s		5 ♂ <u>Dermacentor rhinocerinus</u>
	Six miles E. of Palango Station (3,700 ft), R. Nile, Uganda, B.E. Africa		Six miles E. of Palango (01.54 N, 32.22 E), District of Lango, Uganda (1128 m)
	10.I.1912		10.I.1912
	S. A. Neave		S. A. Neave
	(E.R.C. 483a)		
	1 ♂ to R. W. Mettam, Weybridge IV.1931		
	1 ♂ to H. S. Purchase IV.1931		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1723	N	1723
		RML	110668
	<u>Rhipicephalus pulchellus</u> ♂'s		6 ♂ <u>Rhipicephalus pulchellus</u>
	Cattle		Cattle
	Marsabit, B.E. Africa		Marsabit (02.20 N, 37.59 E), Kenya
	X-XI.1911		X-XI.1911
	Captain C. A. Neave		Captain C. A. Neave
	(E.R.C. 490)		The above total includes 2 ♂ pinned.
N	1724	N	1724 MISSING
	<u>Amblyomma gemma</u> 2 ♂, 1 ♀		
	Cattle		
	Marsabit, B.E. Africa		
	X-XI.1911		
	Captain C. A. Neave		
	(E.R.C. 490a)		
	(1 ♂, 1 ♀ mounted on a slide in cell with other <u>Amblyomm</u> s)		
N	1725	N	1725
		RML	110669
	<u>Dermacentor circumguttatus</u> 1 ♀		1 ♀ <u>Dermacentor circumguttatus</u>
	Off grasses		Off grasses
	Daro Forest, Toro, Uganda, B.E. Africa		Daro Forest, District of Toro (00.30 N, 30.30 E), Uganda
	X.1911		X.1911
	S. A. Neave		S. A. Neave
	(E.R.C. 460)		

Ticks retained from Report No. 6 of the Zoological Society of London,
Regent's Park, London, N.W., 15 July 1912:

ORIGINAL DETERMINATIONCURRENT STATUS

N	1726	N	1726
		RML	110670
	<u>Amblyomma dissimile</u> ♂'s		4 ♂ <u>Amblyomma dissimile</u>
	Tuberculated iguana		<u>Iguana iguana</u>
	Mexico		Mexico
	10.VI.1912		10.VI.1912
	(Z.S. 28)		
N	1727	N	1727
		RML	110671
	<u>Haemaphysalis</u> sp. Nymphs		41 N <u>Haemaphysalis</u> sp.
	Green lizard, <u>Lacerta ocellata</u>		<u>Lacerta lepida</u>
	S. Europe		Southern Europe
	30.V.1912		30.V.1912
	(Z.S. 29)		
N	1728	N	1728
		RML	110672
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s, 1 N		1 ♂, 1 N <u>Aponomma varanensis</u>
	Bengal monitor		Bengal monitor
	India		India
	24.V.1912		24.V.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N	1729	N	1729
		RML	110673
	<u>Ixodes ricinus</u> 1 ♀, N's, larvae		1 ♀, 31 N, 21 L <u>Ixodes ricinus</u>
	Deer		Deer
	Deerpark, Tregothnan, Cornwall		Deerpark, Tregothnan near Truro (50.16 N, 05.03 W), Cornwall, England
	12.VII.1912		12.VII.1912
	Received from J. Dew (gamekeeper)		Received from J. Dew (gamekeeper) Cited: Nuttall (1916; 332).
N	1730	N	1730 MISSING
	<u>Ixodes canisuga</u> ♀'s		
	Dogs		
	In kennels, Tregothnan, Cornwall		
	12.VII.1912		
	J. Dew (gamekeeper)		

ORIGINAL DETERMINATIONCURRENT STATUS

N 1731

N 1731

RML 110674

Dermacentor venustus

(vial 1) 1 ♂, 1 ♀, 6 N, 12 eggs

Dermacentor andersoni(vial 2) 4 ♂ Dermacentor andersoni(vial 3) 1 ♀ Dermacentor andersoni(vial 4) 1 ♀ Dermacentor andersoni(vial 5) 19 N Dermacentor andersoni

(vial 6) 1 vial dry nymphal skins

Dermacentor andersoni(vial 7) 39 L Dermacentor andersoni(vial 8) + 2000 L Dermacentor andersoni(vial 9) 1 vial of eggs Dermacentor andersoni

Horses

Horses

Imported into British Columbia from Yakima, Washington, U.S. America

Imported into British Columbia from Yakima (46.36 N, 120.31 W), Washington, U.S.A.

V.1912

V.1912

Dr. C. Gordon Hewitt, Dominion Entomologist, Central Experiment Farm, Ottawa, Canada 22.VII.1912

Dr. C. Gordon Hewitt, Dominion Entomologist, Central Experiment Farm, Ottawa, Canada 22.VII.1912

[Used for raising experiments]
Oviposition commenced 9.VI.1912

Of the total cited for vial 1, 2N, 17 L and 12 eggs are pinned.
Cited: Nuttall (1915: 425); Hadwen & Nuttall (1913: 299) incorrectly stated the locality as Washington, D.C.; cited & figured: Nuttall (1920: 2, pl. II, figs. 1, 2); Edwards & Evans (1967: 595).

Raised in Cambridge: put in 5 tubes in cabinet in "Series."

- (a) eggs (with other tick ova)
- (b) larvae unfed
- (c) larvae gorged
- (d) nymphs unfed
- (e) nymphs empty skins whence adults emerged
- (f) ♂'s
- (g) ♀'s unfed
- (h) ♀'s after ovipositing

ORIGINAL DETERMINATIONCURRENT STATUS

N 1732

N 1732

Amblyomma hebraeum 2 fully gorged ♀'s

RML 110675

4 ♂, 4 ♀, 15 N, 83 L, 1 vial of eggs
Amblyomma hebraeum

Raised on ram

Origin probably Pretoria (25.45 S, 28.10 E), Republic of South Africa.
Raised in Cambridge, England

Rec'd 20.VII.1912

Rec'd 20.VII.1912

Rec'd from Mr. C. P. Lounsbury, Chief, Division of Entomology, Dept. of Agriculture, Pretoria, S. Africa

Rec'd from Mr. C. P. Lounsbury, Chief, Division of Entomology, Dept. of Agriculture, Pretoria, S. Africa

Of those raised: 2 ♂, 2 ♀ mounted in cells on slides II.1915
2 ♂, 2 ♀ pinned
2 slides with larvae

Above total includes 2 ♂, 2 ♀ pinned. This collection also contains the following material, all dry:

Raised in Cambridge put in box "series" complete
(a) eggs (with other tick ova)
(b) larvae (unfed)
(c) larvae (gorged)
(d) empty larval skins
(e) nymphs (unfed)
(f) nymphs (gorged)
(g) empty nymphal skins
(h) ♂'s unfed
(i) ♀'s unfed
(j) ♀'s gorged

1 vial ♀'s
1 vial ♂'s
1 vial nymphal skins
1 vial unfed N's plus larval skins
1 vial adults plus nymphal skins
1 vial larval skins
Cited: Nuttall (1915: 409);
Nuttall (1919: 394); cited & figured: Nuttall (1920: 1, Pl. I, figs. 1, 2, 4).

An additional 7 pinned ♂ are in the BM(NH) collection

1732 (Distribution)

- 1 ♂, 1 ♀ to Dr. S. Hadwen, Canada 10.X.1913
 1 ♂, 1 ♀ to Dr. K. F. Meyer, University of California, Berkeley 15.XI.1913
 1 ♂, 1 ♀, N's, L's to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.VI.1914
 1 ♂, 2 ♀, 2 N, L's to Prof. Dr. Dahl, Berlin Museum VII.1914
 Some (sex/stage not stated) to Prof. O. Dobescq, Montpellier, France 10.II.1914
 1 ♂, 2 ♀, 2 N, L's to Prof. Dr. S. Schenkling, Deutsches Entomol. Museum VII.1914
 1 ♂, 2 ♀, 2 N, L's to Dr. R. Gestro, Museo Civico di Storia Nat., Genova VII.1914
 1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, G.E.A. 22.VII.1914
 Many, all stages to Prof. Wheeler, Boston, Mass. 20.II.1915
 2 ♂, 3 ♀, 2 N, L's to Launcelot Harrison, Australia 9.V.1919
 2 ♂, 3 ♀, 2 N, L's to Prof. M. Jesus Maynar, Zaragoza, Spain 10.V.1919
 2 ♂, 3 ♀, 2 N, L's to Prof. Poulton, Oxford 26.V.1919
 2 ♂, 3 ♀, 2 N, L's to Prof. E. Hindle, Cambridge 24.IX.1919
 2 ♂, 3 ♀, 2 N, L's to Major Lothian, Sch. Hygiene, Blackpool 25.IX.1919
 1 ♂, 1 ♀, N's, L's to Major J. E. M. Boyd, Cambridge 20.XII.1919
 1 ♂, 1 ♀, N's, L's to Dr. J. Gordon-Thompson, London Sch. Trop. Med. 8.I.1920
 1 ♂, 1 ♀, N's, L's to Dr. R. W. Hegner, Johns Hopkins Univ., Baltimore 8.III.1920
 1 ♂, 1 ♀, N's, L's to Dr. R. J. Tillyard, Nelson, N.Z. VI.1920
 1 ♂, 1 ♀, N's, L's to Prof. Jules Bordet, Bruxelles, Belgium 30.VI.1920
 3 ♂, 3 ♀ to Prof. E. Brumpt, Paris
 2 ♂, 2 ♀ to Prof. Sadao Yoshida at Cambridge 21.XII.1921
 2 ♂, 2 ♀ to P. A. Buxton at Cambridge 10.II.1921
 2 ♂, 2 ♀ to Prof. Dr. D. A. de Yong at Cambridge 8.IV.1921
 2 ♂, 2 ♀ to Prof. G. Hedger-Wallace, Univ. of Wales, Cardiff 1921
 2 ♂, 2 ♀ to S. H. Daukes, Wellcome Bureau, London 9.I.1924
 1 ♂, 1 ♀, N's, L's, eggs to Dr. E. Roubaud, Inst. Pasteur, Paris 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to Prof. J. Hjort, Univ. Christiana, Norway 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to Dr. A. Watkins Pitchford, Army Vet. Sch. Thornhill, Aldershot 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to L.P.W. Renouf, Univ. College, Cork, Ireland 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to W.A. Pool, Indian Civil Vet. Dept. 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to Dr. Wm. Parry Morgan, Publ. Hlth. Lab. Cardiff 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to J.E.M. Mellor, Malvern College 16.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922
 1 ♂, 1 ♀, N's, L's, eggs to Prof. E. Brumpt, L'École de Médecine, Paris 12.X.1922
 1 ♂, 1 ♀, N's, L's, eggs to I.C. Ross, Univ. of Sydney, Australia
 ♂'s, ♀'s, N's, L's to Dr. E. Pavlovsky, Leningrad 9.X.1925
 ♂'s, ♀'s, N's, L's to Prof. R. A. Cooley V.1928
 ♂'s, ♀'s, N's, L's to Dr. A. C. Reed, San Francisco 30.V.1929
 ♂'s, ♀'s, N's, L's to Prof. J. Drobohlav, Prague 30.V.1929
 2 ♂, 2 ♀, 2 N (unfed & fed) L's (unfed & fed) to Prof. R. Matheson, Cornell 27.V.1929
 1 ♂, 1 ♀ to Prof. E. Malvoz, Liège 30.V.1929
 1 ♂, 1 ♀ to E.T. Boardman, Univ. Florida, Gainesville 30.V.1929
 N's, L's to R.W. Mettam, Weybridge IV.1931
 N's, L's to H.S. Purchase IV.1931

ORIGINAL DETERMINATIONCURRENT STATUS

N	1733	N	1733
		RML	110676
	<u>Hyalomma syriacum</u> 2 ♂'s		2 ♂ <u>Hyalomma aegyptium</u>
	Tortoises		Tortoises
	Woolacombe, North Devon		Woolacombe (51.10 N, 04.13 W), Somerset, England
	20.VII.1912		20.VII.1912
	Rec'd from Mr. Fred Sanger		Rec'd from Mr. Fred Sanger
N	1734	N	1734
		RML	66621
	<u>Ornithodoros tholozani</u> (11 specimens)		1 ♂, 3 ♀, 6 N <u>Ornithodoros tholozani</u>
	Quetta, Baluchistan		Quetta (30.12 N, 67.00 E), Pakistan
	Rec'd 18.VII.1912		Rec'd 18.VII.1912
	Rec'd from Major G.E.F. Stammers, R.A.M.C.		Rec'd from Major G.E.F. Stammers, R.A.M.C.
N	1735	N	1735
		RML	110677
	<u>Dermacentor albipictus</u> ♂'s, ♀'s		8 ♂ <u>Dermacentor albipictus</u>
	Horse		Horse
	Mistatim, Saskatchewan, Canada		Mistatim (52.52 N, 103.22 W), Saskatchewan, Canada
	6.VI.1912		6.VI.1912
	Maurice O'Connell		Maurice O'Connell
			1 ♂ of the above total is mounted on a slide

ORIGINAL DETERMINATIONCURRENT STATUS

N 1736

N 1736

RML 110678

Ixodes percavatus var.
rothschildi ♀ & 6 N's10 ♀, 6 N Ixodes rothschildiFound attached to throat of a dead
Herring Gull (Larus argentatus)Larus argentatus

Sands at Perranporth, N.W. Cornwall

Sands at Perranporth (50.20 N,
05.09 W), Cornwall, England

15.VI.1912

15.VI.1912

L.P.W. Renouf (Trinity College,
Cambridge)L.P.W. Renouf (Trinity College,
Cambridge)[Fragments of ♀'s & N's on bird
skin, mounted dry in cell on slide]Cited: Nuttall (1916: 329);
Arthur (1953: 111) (1963: 134)
lists 10 ♀, 5 N in this collection;
Thompson (1957: 214).

Slide missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 1737

N 1737

RML 110679

Haemaphysalis leachi larvae
(alive), ♀'s24 ♂, 101 ♀, 9 N, 1 vial of eggs
Haemaphysalis leachi
(Collection in 8 separate vials)

Jackal

Canis aureusPathological Laboratory, Nairobi,
B.E. Africa

Nairobi (01.17 S, 36.49 E), Kenya

Rec'd 23.III.1912

Rec'd 23.III.1912

Rec'd from Dr. R. E. Montgomery

Rec'd from Dr. R. E. Montgomery

Cited: Nuttall (1913C: 94);
Nuttall & Warburton (1915: 536).

- 1 ♂, 1 ♀ to Dr. S. Hadwen,
British Columbia, Canada
10.X.1913.
- 1 ♂, 1 ♀ to Dr. K. F. Meyer,
Univ. California, Berkeley
15.XI.1913.
- 1 ♂, 1 ♀ to Prof. Dr. Dahl,
Berlin Museum VII.1914.
- 1 ♂, 1 ♀ to Prof. Dr. Schenkling,
Deutsches Entomol. Museum
VII.1914.
- 1 ♂, 1 ♀ to Prof. Dr. Gestro, Museo
Civico di Storia Nat., Genova
VII.1914.
- All stages to Prof. R. A. Cooley,
Montana V.1928.
- Some (sex/stage not stated) to
R.W. Mettam, Weybridge IV.1931.
- 1 ♂, 1 ♀ to H.S. Purchase IV.1931.

Ten tubes of ticks purchased from F. V. Sherrin (Taxidermist), The Limes, Nightingale Road, Hampton, Middlesex, 12 July 1912±

ORIGINAL DETERMINATIONCURRENT STATUS

N	1738, a, b	N	1738, a, b
		RML	110680
	(1738) <u>Amblyomma varium</u> ♂		(1738) 1 ♂ <u>Amblyomma pictum</u>
	(a) <u>Amblyomma incisum</u> 2 ♂		(a) 2 ♂ <u>Amblyomma incisum</u>
	(b) <u>Amblyomma</u> sp. N's		(b) 4 N <u>Amblyomma</u> sp.
	Large Cavy		Probably <u>Cavia</u> sp.
	Bonasica, British Guiana		Possibly Bonasika River (06.45 N, 58.30 W), Guyana
	IV.1912		IV.1912
N	1739	N	1739
		RML	110681
	<u>Aponomma hydrosauri</u> N's		2 N <u>Aponomma hydrosauri</u>
	Snake (<u>Notechis scutatus</u>)		<u>Notechis scutatus</u>
	Tasmania, Australia		Tasmania, Australia
	IV.1912		IV.1912
N	1740	N	1740
		RML	110682
	<u>Ixodes</u> sp. N's & L		21 N, 3 L <u>Ixodes</u> sp.
	Lizard (<u>Lacerta ocellata</u>)		<u>Lacerta lepida</u>
	Near Tunisia, N. Africa		Near Tunisia
	IV.1912		IV.1912

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1741	N	1741
		RML	110683
	<u>Amblyomma mantiquirens</u> ♂'s, ♀'s, N's		9 ♂, 1 ♀, 3 N <u>Amblyomma naponense</u>
	Great anteater		<u>Myrmecophaga tridactyla</u>
	Bonasica, British Guiana		Possibly Bonasika River (06.45 N, 58.30 W), Guyana
	IV.1912		IV.1912
N	1742	N	1742
		RML	110684
	<u>Ixodes</u> sp. (mutilated) N's		2 N <u>Ixodes</u> sp.
	<u>Tachychromus tachydromoides</u>		<u>Tachydromus tachydromoides</u>
	Ning-po, Che-Kiang, China		Ning Po (29.53 N, 121.33 E), Chekiang, Peoples Republic of China
	IV.1912		IV.1912
N	1743	N	1743 MISSING
	<u>Ixodes ricinus</u> N's		
	Lizard (<u>Lacerta agilis</u>)		
	Kiev, Russia		
	IV.1912		
N	1744	N	1744
		RML	110685
	<u>Ixodes</u> sp. (mutilated) N's		13 N <u>Ixodes</u> sp.
	Lizard (<u>Lacerta ocellata</u>)		<u>Lacerta lepida</u>
	Tangiers, Morocco, N. Africa		Tangier (35.48 N, 05.45 W), Morocco
	IV.1912		IV.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N	1745	N	1745
		RML	110686
	<u>Aponomma hydrosauri</u> 1 ♀		1 ♀ <u>Aponomma hydrosauri</u>
	Snake (<u>Denesonia superba</u>)		<u>Denisonia superba</u>
	Tasmania, Australia		Tasmania, Australia
	IV.1912		IV.1912
N	1746	N	1746
		RML	110687
	<u>Amblyomma naponense</u> ♂'s, ♀		4 ♂, 3 ♀ <u>Amblyomma naponense</u>
	Peccary		Probably <u>Tayassu tajacu</u>
	Bonasica, British Guiana		Possibly Bonasika River (06.45 N, 58.30 W), Guyana
	IV.1912		IV.1912
N	1747	N	1747
		RML	110688
	<u>Amblyomma marmoreum</u> 2 ♂'s		1 ♂ <u>Amblyomma sparsum</u>
	Puff adder (<u>Bitis arietans</u>)		<u>Bitis arietans</u>
	Yatta Plains, Brit. E. Africa		Yatta Plains (02.00 S, 38.00 E), Kenya
	IV.1912		Cited as 2 ♂ by Theiler & Salisbury (1959: 112).
	1 ♂ to Prof. R. A. Cooley, 1928		

Ticks received back from the Entomological Research Committee (per Mr. Marshall), London, S.W., 1 August 1912: [Ex. Report No. 23]

ORIGINAL DETERMINATIONCURRENT STATUS

N	1748	N	1748
		RML	110689
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s (small)		13 ♂, 14 ♀ <u>Rhipicephalus appendiculatus</u>
	Oxen		Oxen
	Mombasa, B.E. Africa		Mombasa (04.03 S, 39.40 E), Kenya
	10.III.1912		10.III.1912
	R. P. Thomas		R. P. Thomas
	[E.R.C. 496]		
N	1749	N	1749
		RML	110690
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s (remarkably variable in size)		39 ♂, 23 ♀ <u>Rhipicephalus appendiculatus</u>
	Oxen		Oxen
	Mumias, Kavirondo, B.E. Africa		Mumias (00.20 S, 34.29 E), Kenya
	10.VII.1911		10.VII.1911
	W. Kennedy		W. Kennedy
	[E.R.C. 497]		
N	1750	N	1750
		RML	110691
	<u>Rhipicephalus</u> sp. N's		7 N <u>Rhipicephalus</u> sp.
	Oxen		Oxen
	Magadi Railway, B.E. Africa		Magadi Railway between Magadi (01.54 S, 36.17 E) and Konza (01.45 S, 37.07 E), Kenya
	I. 1912		I. 1912
	C. W. Woodhouse		C. W. Woodhouse
	[E.R.C. 517]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1751	N	1751
		RML	110692
	<u>Dermacentor rhinocerotis</u> 2 ♂, 2 ♀		1 ♂, 2 ♀ <u>Dermacentor rhinocerinus</u>
	Grass		Grass
	Magadi Railway, B.E. Africa		Magadi Railway between Magadi (01.54 S, 36.17 E) and Konza (01.45 S, 37.07 E), Kenya
	I.1912		I.1912
	C. W. Woodhouse		C. W. Woodhouse
	[E.R.C. 537]		
	1 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916		
N	1752	N	1752
		RML	110693
	<u>Aponomma exornatum</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Aponomma exornatum</u>
	Land Monitor		Land Monitor
	Camp, Upper Shire, Nyasaland, B.C. Africa		Camp, Liwonde (15.04 S, 35.13 E), Malawi
	27.IX.1911		27.IX.1911
	J. B. Davey		J. B. Davey
	[E.R.C. 541]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1753	N	1753
		RML	110694
	<u>Aponomma exornatum</u> ♂'s, N's		6 ♂, 3 N <u>Aponomma exornatum</u>
	Land Monitor		Land Monitor
	Camp, Upper Shire, Nyasaland, B.C. Africa		Camp, Liwonde (15.04 S, 35.13 E), Malawi
	27.IX.1911		27.IX.1911
	J. B. Davey		J. B. Davey
	[E.R.C. 542]		
N	1754	N	1754
		RML	110695
	<u>Rhipicephalus maculatus</u> 2 ♂		2 ♂ <u>Rhipicephalus maculatus</u>
	Grasses		Grasses
	Voi, B.E. Africa		Voi (03.23 S, 38.34 E), Kenya
	8-10.II.1912		8-10.II.1912
	S. A. Neave		S. A. Neave
	[E.R.C. 546]		
Ticks received from Dr. J. G. Parham, Government Bacteriologist, Zanzibar, British East Africa, 4 July 1912			
N	1755	N	1755
		RML	110696
	<u>Rhipicephalus appendiculatus</u>		8 ♂, 14 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Mtamani, Pemba Island, B.E. Africa		Probably Mtemani (of which there are at least 25 possible localities) Pemba Island, Tanzania
	1.V.1912		1.V.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1756	N	1756	MISSING
	<u>Rhipicephalus appendiculatus</u> (all stages)			
	Goat			
	Mkokotoni, B.E. Africa			
	30.IV.1912			
	J. G. Parham			
N	1757	N	1757	
		RML	110697	
	<u>Rhipicephalus appendiculatus</u>		36 ♂, 55 ♀ <u>Rhipicephalus appendiculatus</u>	
	Cow		Cow	
	Mtamani, Pemba Island, B.E. Africa		Probably Mtemani (of which there are at least 25 possible localities), Pemba Island, Tanzania	
	1.V.1912		1.V.1912	
	J. G. Parham		J. G. Parham	
	2 ♂, 2 ♀ to Prof. E. Malvoz, Liège 30.V.1929			
N	1758, a	N	1758, a	
		RML	110698	
	(1758) <u>Amblyomma gemma</u> 2 ♂, 2 ♀		(1758) 1 ♀ <u>Amblyomma gemma</u>	
	(a) <u>Rhipicephalus appendiculatus</u>		(1758) 2 ♀ <u>Amblyomma lepidum</u>	
			(a) 6 ♂, 5 ♀, 6 N <u>Rhipicephalus appendiculatus</u>	
	Cow		Cow	
	Mkokotoni, B.E. Africa		Mkokotoni (05.52 S, 39.15 E), Zanzibar Island, Tanzania	
	30.IV.1912		30.IV.1912	
	J. G. Parham		J. G. Parham	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1759	N	1759	MISSING
	<u>Rhipicephalus appendiculatus</u>			
	Bullock			
	Mtamani, Pemba Island, B.E. Africa			
	1.V.1912			
	J. G. Parham			
	1 ♂, 1 ♀ to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.VI.1914			
N	1760	N	1760	MISSING
	<u>Rhipicephalus appendiculatus</u>			
	Goat			
	M'Koani, Pemba Island, B.E. Africa			
	6.V.1912			
	J. G. Parham			
	1 ♂, 1 ♀ to Dr. K. F. Meyer Univ. California, Berkeley 15.XI.1913			
N	1761	N	1761	
		RML	110699	
	<u>Rhipicephalus appendiculatus</u>		61 ♂, 73 ♀ <u>Rhipicephalus appendiculatus</u>	
	Donkey		Donkey	
	Utani, Pemba Island, B.E. Africa		Probably Utaani (of which there are at least 15 possible localities), Pemba Island, Tanzania	
	1.V.1912		1.V.1912	
	J. G. Parham		J. G. Parham	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1762, a	N	1762, a
		RML	110700
	(1762) <u>Rhipicephalus appendiculatus</u>		(1762) 121 ♂, 112 ♀, 18 N <u>Rhipicephalus appendiculatus</u>
	(a) <u>Boophilus australis</u> ♀'s		(1762) 1 ♂ <u>Amblyomma variegatum</u>
	Donkey		(a) 21 ♀ <u>Boophilus microplus</u>
	Jambagome, Pemba Island, B.E. Africa		Donkey
	6.V.1912		Jambangome (05.21 S, 39.42 E), Pemba Island, Tanzania
	J. G. Parham		6.V.1912
			J. G. Parham
N	1763	N	1763
		RML	110701
	<u>Rhipicephalus appendiculatus</u>		9 ♂, 8 ♀, 6 N <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Chake-Chake, Pemba Island, B.E. Africa		Chake-Chake (05.15 S, 39.46 E), Pemba Island, Tanzania
	2.V.1912		2.V.1912
	J. G. Parham		J. G. Parham
N	1764	N	1764
		RML	110702
	<u>Rhipicephalus appendiculatus</u>		44 ♂ 44 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Wati, B.E. Africa		Perhaps Wete (05.04 S, 39.43 E), Tanzania
	2.V.1912		2.V.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1765	N	1765
		RML	110703
	<u>Rhipicephalus appendiculatus</u>		51 ♂, 47 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	Bull		Bull
	M'gabaroni, Pemba Island, B.E. Africa		Probably Mzambarauni (05.23 S, 39.38 E) Pemba Island, Tanzania
	1.V.1912		1.V.1912
	J. G. Parham		J. G. Parham
N	1766	N	1766 MISSING
	<u>Rhipicephalus appendiculatus</u>		
	Camel		
	Zanzibar Town, B.E. Africa		
	26.IV.1912		
	J. G. Parham		
N	1767, a	N	1767, a
		RML	110704
	(1767) <u>Boophilus australis</u> ♀'s (a) <u>Rhipicephalus appendiculatus</u>		(1967) 5 ♀ <u>Boophilus microplus</u> (a) 6 ♂ <u>Rhipicephalus appendiculatus</u>
	Bullock		Bullock
	Chuckwani, B.E. Africa		Chukwani (06.14 S, 39.13 E), Zanzibar Island, Tanzania
	26.IV.1912		26.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1768	N	1768	MISSING
	<u>Rhipicephalus appendiculatus</u>			
	Bull			
	Chake-Chake, Pemba Is., B.E. Africa			
	2.V.1912			
	J. G. Parham			
	Given to D. S. Mac Logan			
	12.X.1938			
N	1769	N	1769	MISSING
	<u>Rhipicephalus appendiculatus</u>			
	Cow			
	M'Koani, Pemba Island, B.E. Africa			
	6.V.1912			
	J. G. Parham			
N	1770	N	1770	
		RML	110705	
	<u>Rhipicephalus appendiculatus</u>		50 ♂, 51 ♀, 2 N <u>Rhipicephalus appendiculatus</u>	
	Goat		Goat	
	Utani, Pemba Island, B.E. Africa		Probably Utaani (of which there are at least 15 possible localities), Pemba Island, Tanzania	
	1.V.1912		1.V.1912	
	J. G. Parham		J. G. Parham	

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1771	N	1771
		RML	110706
	<u>Boophilus australis</u>		6 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	M'Koani, Pemba Island, B.E. Africa		Mkoani (05.22 S, 39.39 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham
N	1772	N	1772
		RML	110707
	<u>Rhipicephalus appendiculatus</u>		19 ♂, 22 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Jambagome, Pemba Island, B.E. Africa		Jambangome (05.21 S, 39.42 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham
	1 ♂, 1 ♀ to Dr. J. G. Parham Portuguese East Africa 18.IV.1913. 1 ♂, 1 ♀ to N.Y. National Museum 18.IV.1913.		
N	1773	N	1773
		RML	110708
	<u>Rhipicephalus appendiculatus</u>		1 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	M'Koani, Pemba Island, B.E. Africa		Mkoani (05.22 S, 39.39 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1774, a	N	1774, a
		RML	110709
	(1774) <u>Boophilus australis</u> (a) <u>Rhipicephalus evertsi</u>		(1774) 7 ♀ <u>Boophilus microplus</u> (a) 2 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Donkey		Donkey
	Jambagome, Pemba, Is., B.E. Africa		Jambangome (05.21 W, 39.42 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham
N	1775	N	1775
		RML	110710
	<u>Boophilus australis</u> ♀'s		2 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	M'Koani, Pemba Is., B.E. Africa		Mkoani (05.22 S, 39.39 E), Pemba Island, Tanzania
	6.V.1912		6.V.1912
	J. G. Parham		J. G. Parham
N	1776	N	1776
		RML	110711
	<u>Rhipicephalus appendiculatus</u>		6 ♂, 5 ♀ <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	Chake-Chake, Pemba Is., B.E. Africa		Chake-Chake (05.15 S, 39.46 E), Pemba Island, Tanzania
	2.V.1912		2.V.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1777	N	1777
		RML	110712
	<u>Rhipicephalus appendiculatus</u>		42 ♂, 37 ♀ <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	Mzambarouni, Pemba Is., B.E. Africa		Mzambarauni (05.23 S, 39.38 E), Pemba Island, Tanzania
	1.V.1912		1.V.1912
	J. G. Parham		J. G. Parham
N	1778	N	1778 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s		
	Cow		
	Mtamani, Pemba Is., B.E. Africa		
	1.V.1912		
	J. G. Parham		
N	1779, a, b	N	1779, a, b
		RML	110713
	(1779) <u>Boophilus australis</u> ♀'s		(1779) 3 ♀ <u>Boophilus microplus</u>
	(a) <u>Rhipicephalus appendiculatus</u> ♂, ♀'s		(a) 1 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
	(b) <u>Rhipicephalus pulchellus</u> ♂		(b) 3 ♂ <u>Rhipicephalus pulchellus</u>
	Goat		Goat
	Mahonda, B.E. Africa		Either Mahonda (06.00 S, 39.15 E), or (06.27 S, 39.28 E), Zanzibar Island, Tanzania
	30.IV.1912		30.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1780	N	1780
		RML	110714
	<u>Rhipicephalus appendiculatus</u>		37 ♂, 13 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Bu-bu-bu, B.E. Africa		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	25.II.1912		25.II.1912
	J. G. Parham		J. G. Parham
N	1781, a-e	N	1781, a-e
		RML	110715
	(1781) <u>Rhipicephalus appendiculatus</u>		(1781) 11 ♂, 4 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	(a) <u>Rhipicephalus pulchellus</u> ♂'s		(a) 2 ♂ <u>Rhipicephalus pulchellus</u>
	(b) <u>Boophilus australis</u> ♀		(b) 1 ♀ <u>Boophilus microplus</u>
	(c) <u>Rhipicephalus evertsi</u> ♂		(c) 1 ♂ <u>Rhipicephalus evertsi</u>
	(d) <u>Haemaphysalis bispinosa</u> ♀		(d) 1 ♀ <u>Haemaphysalis bispinosa</u>
	(e) <u>Amblyomma cohaerens</u> ♂		(e) 1 ♂ <u>Amblyomma lepidum</u>
	Bullock		Bullock
	Chukwani, B.E. Africa		Chukwani (06.14 S, 39.13 E), Zanzibar Island, Tanzania
	30.IV.1912		30.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1782, a, b	N	1782, a, b
		RML	110716
	(1782) <u>Rhipicephalus appendiculatus</u>		(1782) 4 ♂, 5 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Boophilus australis</u>		(1782) 1 ♂ <u>Rhipicephalus pulchellus</u>
	(b) <u>Rhipicephalus evertsi</u> 2 ♂'s		(a) 5 ♀ <u>Boophilus microplus</u>
			(b) 2 ♂ <u>Rhipicephalus evertsi</u>
	Bull		Bull
	Kikwaguni, B.E. Africa		Kikwajuni (05.18 S, 39.47 E), Pemba Island, Tanzania
	30.IV.1912		30.IV.1912
	J. G. Parham		J. G. Parham
N	1783, a-c	N	1783, a-c
		RML	110717
	(1783) <u>Rhipicephalus appendiculatus</u>		(1783) 6 ♂, 4 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Haemaphysalis bispinosa</u> ♀		(a) 1 ♀ <u>Haemaphysalis bispinosa</u>
	(b) <u>Boophilus australis</u> ♀		(b) 1 ♀ <u>Boophilus microplus</u>
	(c) <u>Rhipicephalus evertsi</u> ♂		(c) 1 ♂ <u>Rhipicephalus evertsi</u>
	Goat		Goat
	Mahonda, B.E. Africa		Either Mahonda (06.00 S, 39.14 E), or (06.27 S, 39.28 E), Zanzibar Island, Tanzania
	30.IV.1912		30.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N 1784

Boophilus australis

Bullock

Mangapwani, B.E. Africa

27.IV.1912

J. G. Parham

N 1784

RML 110718

4 ♀ Boophilus microplus
15 ♂, 11 ♀ Rhipicephalus appendiculatus

Bullock

Mangapwani (05.59 S, 39.12 E),
Zanzibar Island, Tanzania

27.IV.1912

J. G. Parham

Nuttall did not enter the R.
appendiculatus collection in his catalogue

N 1785, a

(1785) Rhipicephalus append-
iculatus
(a) Boophilus australis 1 ♀

Goat

Mangapwani, B.E. Africa

27.IV.1912

J. G. Parham

N 1785, a

RML 110719

(1785) 9 ♂, 4 ♀ Rhipicephalus
appendiculatus
(a) 1 ♀ Boophilus microplus

Goat

Mangapwani (05.59 S, 39.12 E),
Zanzibar Island, Tanzania

27.IV.1912

J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1786, a-c	N	1786, a-c
		RML	110720
	(1786) <u>Rhipicephalus appendiculatus</u>		(1786) 2 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Boophilus australis</u> ♀		(a) 1 ♀ <u>Boophilus microplus</u>
	(b) <u>Amblyomma gemma</u>		(b) 1 ♂ <u>Amblyomma gemma</u>
	(c) <u>Haemaphysalis bispinosa</u> ♀		(b) 3 ♂ <u>Amblyomma lepidum</u>
			(c) 1 ♀ <u>Haemaphysalis bispinosa</u>
	Bullock		Bullock
	Bu-bu-bu, B.E. Africa		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	29.IV.1912		29.IV.1912
	J. G. Parham		J. G. Parham
N	1787, a-c	N	1787, a-c
		RML	110721
	(1787) <u>Rhipicephalus appendiculatus</u>		(1787) 7 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Boophilus australis</u>		(a) 4 ♀ <u>Boophilus microplus</u>
	(b) <u>Haemaphysalis bispinosa</u> 3 ♂		(b) 3 ♂ <u>Haemaphysalis bispinosa</u>
	(c) <u>Rhipicephalus pulchellus</u> ♂		(c) 1 ♂ <u>Rhipicephalus pulchellus</u>
	Bullock		Bullock
	Bet-el-Ras, B.E. Africa		Bet-el-Ras (06.07 S, 39.13 E), Zanzibar Island, Tanzania
	29.IV.1912		29.IV.1912
	J. G. Parham		J. G. Parham
N	1788	N	1788
		RML	110722
	<u>Boophilus australis</u>		4 ♀ <u>Boophilus microplus</u>
	Bullock		Bullock
	Mangapwani, B.E. Africa		Mangapwani (05.59 S, 39.12 E), Zanzibar Island, Tanzania
	27.IV.1912		27.IV.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1789, a, b	N	1789, a, b
		RML	110723
	(1789) <u>Rhipicephalus appendiculatus</u>		(1789) 7 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Amblyomma gemma</u>		(a) 2 ♂ <u>Amblyomma gemma</u>
	(b) <u>Boophilus australis</u>		(b) 3 ♀ <u>Boophilus microplus</u>
	Bullock		Bullock
	Bu-bu-bu, B.E. Africa		Bububu (06.06 S, 39.13 E), Zanzibar Island, Tanzania
	26.IV.1912		26.IV.1912
	J. G. Parham		J. G. Parham
N	1790, a-c	N	1790, a-c
		RML	110724
	(1790) <u>Rhipicephalus appendiculatus</u>		(1790) 1 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Boophilus australis</u>		(a) 1 ♀ <u>Boophilus microplus</u>
	(b) <u>Haemaphysalis bispinosa</u>		(b) 1 ♂ <u>Haemaphysalis bispinosa</u>
	(c) <u>Rhipicephalus pulchellus</u> ♂		(c) 1 ♂ <u>Rhipicephalus pulchellus</u>
	Bull		Bull
	Kikwaguni, B.E. Africa		Kikwajuni (05.18 S, 39.47 E), Pemba Island, Tanzania
	30.IV.1912		30.IV.1912
	J. G. Parham		J. G. Parham
N	1791	N	1791
		RML	110725
	<u>Rhipicephalus sanguineus</u>		46 ♂, 49 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1792	N	1792
		RML	110726
	<u>Rhipicephalus evertsi</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Bullock		Bullock
	Mangapwani, B.E. Africa		Mangapwani (05.59 S, 39.12 E), Zanzibar Island, Tanzania
	27.IV.1912		27.IV.1912
	J. G. Parham		J. G. Parham
N	1793	N	1793
		RML	110727
	<u>Rhipicephalus appendiculatus</u>		6 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	Bullock		Bullock
	Mkokotoni, B.E. Africa		Mkokotoni (05.18 S, 39.41 E), Pemba Island, Tanzania
	25.IV.1912		25.IV.1912
	J. G. Parham		J. G. Parham
N	1794, a-c	N	1794, a-c
		RML	110728
	(1794) <u>Rhipicephalus appendiculatus</u>		(1794) 4 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Rhipicephalus pulchellus</u> 2 ♂		(a) 2 ♂ <u>Rhipicephalus pulchellus</u>
	(b) <u>Boophilus australis</u> ♀		(b) 1 ♀ <u>Boophilus microplus</u>
	(c) <u>Amblyomma gemma</u>		(c) 1 ♂ <u>Amblyomma lepidum</u>
	Bullock		Bullock
	Mkokotoni, B.E. Africa		Mkokotoni (05.18 S, 39.41 E), Pemba Island, Tanzania
	26.IV.1912		26.IV.1912
	J. G. Parham		J. G. Parham
			The vial label for 1794b is incorrectly labelled 1794a

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1795	N	1795
		RML	110729
	<u>Rhipicephalus appendiculatus</u>		8 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Bullock		Bullock
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	22.IV.1912		22.IV.1912
	J. G. Parham		J. G. Parham
N	1796	N	1796
		RML	110730
	<u>Rhipicephalus appendiculatus</u>		14 ♂, 7 ♀ <u>Rhipicephalus appendiculatus</u>
	Horse		Horse
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	24.IV.1912		24.IV.1912
	J. G. Parham		J. G. Parham
N	1797	N	1797
		RML	110731
	<u>Rhipicephalus sanguineus</u> 1 ♂, N's & L's		1 ♂, 7 N, 2 L <u>Rhipicephalus sanguineus</u>
	Civet cat		<u>Viverra civetta</u>
	Mangapwani, B.E. Africa		Mangapwani (05.59 S, 39.12 E), Zanzibar Island, Tanzania
	26.IV.1912		26.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1798	N	1798
		RML	110732
	<u>Rhipicephalus appendiculatus</u>		8 ♂, 3 ♀, 1 N, 1 L <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	Zanzibar Town, B.E. Africa		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	24.IV.1912		24.IV.1912
	J. G. Parham		J. G. Parham
N	1799	N	1799
		RML	110733
	<u>Rhipicephalus appendiculatus</u> ♂ (not typical)		1 ♂ <u>Rhipicephalus appendiculatus</u> (Tentative ID)
	Dog		Dog
	Mgambo, B.E. Africa		Mgambo (05.59 S, 39.18 E), Zanzibar Island, Tanzania
	23.IV.1912		23.IV.1912
	J. G. Parham		J. G. Parham

ORIGINAL DETERMINATIONCURRENT STATUS

N	1800	N	1800
		RML	110735
	<u>Dermacentor variabilis</u> 2 ♀'s		1 ♀ <u>Dermacentor variabilis</u>
	Raised on rabbit		Raised on rabbit
	Agassiz, British Columbia, Canada		Agassiz (49.14 N, 121.44W), British Columbia, Canada
	VII.1912		VII.1912
	Received from Dr. S. Hadwen		Received from Dr. S. Hadwen
	Received 21.VIII.1912		
N	1801	N	1801
		RML	110736
	<u>Dermacentor variabilis</u> 4 N		2 N <u>Dermacentor variabilis</u>
	Raised on rabbit		Raised on rabbit
	Agassiz, British Columbia, Canada		Agassiz (49.14 N, 121. 44 W), British Columbia, Canada
	VII.1912		VII.1912
	Received from Dr. S. Hadwen		Received from Dr. S. Hadwen
	Received 21.VIII.1912		
N	1802	N	1802
		RML	110737
	<u>Dermacentor variabilis</u> L (gorged)		2 N, 4 L <u>Dermacentor variabilis</u>
	Raised on rabbit		Raised on rabbit
	Agassiz, British Columbia, Canada		Agassiz (49.14 N, 121.44 W), British Columbia, Canada
	VII.1912		VII.1912
	Received from Dr. S. Hadwen		Received from Dr. S. Hadwen
	Received 21.VIII.1912		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1803	N	1803
	<u>Dermacentor variabilis</u> L (unfed)	RML	110738
	Raised on rabbit		236 L <u>Dermacentor variabilis</u>
	Agassiz, British Columbia, Canada		Raised on rabbit
	VII.1912		Agassiz (49.14 N, 188.44 W), British Columbia, Canada
	Received from Dr. S. Hadwen		VII.1912
	Received 21.VIII.1912		Received from Dr. S. Hadwen
N	1804	N	1804
	<u>Haemaphysalis bispinosa</u> 1 ♂	RML	71476
	Dog		1 ♂ <u>Haemaphysalis intermedia</u>
	Recently brought from Nelore to Calcutta, India		Dog
	II-III.1911		Recently brought from Nelore (14.27 N, 80.01 E) to Calcutta (22.34 N, 88.24 E), India
	(Ex Indian Mus. $\frac{1079}{17}$)		II-III.1911
N	1805	N	1805
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s	RML	105563
	Giraffe		5 ♂, 4 ♀ <u>Rhipicephalus appendiculatus</u>
	Shot 20 miles S.E. of Mulha Hill, near Mowa River, Kitui District, B.E. Africa		<u>Giraffa camelopardalis</u>
	28.V.1911		Shot 20 miles S.E. of Mulha Hill near Mowa River, Kitui District (01.11-S, 37.27 E), Kenya
	S.W.J. Scholefield		28.V.1911
	(E.R.C. 323a)		S.W.J. Scholefield

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1806	N	1806 MISSING
	<u>Ixodes ricinus</u> ♀'s		
	Irish Sheep		
	22.VIII.1912		
	Rec'd from Mr. A. W. Noël Pillars, Veterinary Department, Municipal Building, Liverpool 29 August 1912.		
N	1807	N	1807
	<u>Ixodes ricinus</u> L & N's	RML	110739
	Deer		4 N, 577 L <u>Ixodes ricinus</u>
	Tregothnan, Truro Cornwall		Deer
	2.IX.1912		Tregothnan near Truro (50.16 N, 05.03 W), Cornwall, England
	J. Dew		2.IX.1912
			J. Dew
			Cited: Nuttall (1916: 332).
N	1808	N	1808
	<u>Ixodes ricinus</u> ♂'s & ♀'s	RML	110740
	Deer		15 ♂, 46 ♀ <u>Ixodes ricinus</u>
	Tregothnan, Truro, Cornwall		Deer
	2.IX.1912		Tregothnan near Truro (50.16 N, 05.03 W), Cornwall, England
	J. Dew		2.IX.1912
	1 ♂, 1 ♀ to N.Y. National Museum		J. Dew
	18.IV.1913		Cited: Nuttall (1916: 332).

Ticks received back from the Entomological Research Committee (ex. Report No. 24) 1 October 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1809	N	1809
		RML	110741
	<u>Amblyomma tholloni</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Toro, B.E. Africa		Probably District of Toro (00.30 N, 30.30 E), Uganda
	11.II.1911		11.II.1911
	C. C. Gowdey		C. C. Gowdey
	[E.R.C. 551]		Cited: Robinson (1926: 252).
N	1810	N	1810
		RML	110742
	<u>Amblyomma</u> sp. N's		3 N <u>Amblyomma</u> sp.
	Dog		Dog
	Entebbe, Uganda, Africa		Entebbe (00.02 N, 32.30 E), Uganda
	7.VII.1911		7.VII.1911
	C. C. Gowdey		C. C. Gowdey
	[E.R.C. 555]		
N	1811	N	1811 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Dog		
	Botkanu, West Africa		
	16.V.1912		
	J. J. Simpson		
	[E.R.C. 574]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1812 <u>Amblyomma variegatum</u> ♂'s, ♀'s Cows Rowerse, Sierra Leone, W. Africa 28.IV.1912 J. J. Simpson [E.R.C. 576]	N	1812 MISSING
N	1813 <u>Amblyomma cohaerens</u> ♂'s, ♀'s, N's Buffalo Katwe, Uganda 11.II.1912 R. Fyffe [E.R.C. 590] 1 ♂, 1 ♀ to R. W. Mettam, Weybridge IV.1931 1 ♂, 1 ♀ to H. S. Purchase IV.1931	N	1813 RML 110743 9 ♂, 5 ♀, 2 N <u>Amblyomma cohaerens</u> Buffalo Katwe (00.08 S, 29.52 E) or (00.47 S, 32.02 E) or (00.56 S, 30.52 E), Uganda 11.II.1912 R. Fyffe Cited: Robinson (1926: 110). Nymphal determination tentative
N	1814 <u>Amblyomma nuttalli</u> 1 ♂ & 1 ♀ Tortoise Near Kavirondo Border, Lumbwa District, Myanza, B.E. Africa 16.III.1912 C. M. Dobbs (1 ♂, 1 ♀ mounted as slides II.1915) [E.R.C. 592]	N	1814 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	1815	N	1815 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Camel		
	Liongalani near Lake Rudolph, B.E. Africa		
	1912		
	Capt. A. C. Saunders		
	[E.R.C. 595]		
	Collection of ticks received from Professor C. S. Motas (Director del Instituto Nacional Bacteriologico), Bucharest Roumania, 16.IX.1912:-		
N	1816	N	1816
		RML	110744
	<u>Rhipicephalus bursa</u> ♂'s, ♀'s		6 ♂, 17 ♀ <u>Rhipicephalus bursa</u>
	Cattle		Cattle
	Roumania		Romania
	1912		1912
	C. S. Motas		C. S. Motas
N	1817	N	1817 MISSING
	<u>Ixodes ricinus</u> ♂'s, ♀'s		
	Horses		
	Roumania		
	1912		
	C. S. Motas		
	1 ♂, 1 ♀ to Prof. R. Matheson, Cornell 27.V.1929.		
	1 ♂, 1 ♀ to Dr. A. C. Reed, San Francisco 30.V.1929.		
	1 ♂, 1 ♀ to Prof. J. Drbohlav, Prague 30.V.1929.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1818	N	1818
		RML	66654
	<u>Rhipicephalus bursa</u> ♂'s, ♀'s		9 ♂, 19 ♀ <u>Rhipicephalus bursa</u>
	Horses		Horses
	Roumania		Romania
	1912		1912
	C. S. Motas		C. S. Motas
	1 ♂, 1 ♀ to D. S. Hadwen, British Columbia, Canada 10.X.1913. 1 ♂, 1 ♀ to Dr. Lajos Gozony, Univ. Budapest, Hungard 23.VI.1914.		
N	1819	N	1819
		RML	66653
	<u>Rhipicephalus bursa</u> ♂'s, ♀'s		12 ♂, 24 ♀ <u>Rhipicephalus bursa</u>
	Sheep		Sheep
	Roumania		Romania
	1912		1912
	C. S. Motas		C. S. Motas
N	1820	N	1820
		RML	110745
	<u>Rhipicephalus bursa</u> ♂'s, ♀'s		8 ♂, 17 ♀ <u>Rhipicephalus bursa</u>
	Sheep		Sheep
	Roumania		Romania
	1912		1912
	C. S. Motas		C. S. Motas
	1 ♂, 1 ♀ to N.Y. National Museum 18.IV.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1821, a	N	1821, a
		RML	102349
	(1821) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(1821) 2 ♂ <u>Hyalomma detritum</u>
	(a) <u>Dermacentor niveus</u> ♂'s, ♀		(a) 5 ♂, 1 ♀ <u>Dermacentor niveus</u>
	Deer		Deer
	Roumania		Romania
	1912		1912
	C. S. Motas		C. S. Motas
N	1822	N	1822
		RML	110746
	<u>Amblyomma dissimile</u> ♂'s, 1 ♀		7 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	<u>Boa constrictor</u>		<u>Boa constrictor</u>
	South America		South America
	20.IX.1912		20.IX.1912
	("Zool. Soc. No. 33")		
N	1823	N	1823
		RML	110747
	<u>Ixodes hexagonus</u> 1 ♀ & 1 N		1 ♀, 1 N <u>Ixodes hexagonus</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Quick Laboratory, Cambridge		Quick Laboratory, Cambridge (52.13 N, 00.08 E), England
	26.IX.1912		26.IX.1912
			Cited: Nuttall (1916: 327).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1824	N	1824
		RML	110748
	<u>Dermacentor variabilis</u> larvae (alive)		1 ♂, 1 ♀, 682 L <u>Dermacentor variabilis</u>
	♀'s taken off horse		Parent ♀ from horse
	Glenora, Manitoba, Canada		Glenora (57.50 N, 131.24 W), Manitoba, Canada
	24.VI.1912		24.VI.1912
	Rec'd. from Dr. S. Hadwen (Agassiz) 10.X.1912		Rec'd. from Dr. S. Hadwen (Agassiz) 10.X.1912
	"Raising Experiments." Some have been preserved.		Cited & figured: Nuttall (1920: 3, pl. II, fig. 3).
	Ticks received from J. F. Valladares, Esq., Government Veterinary College, Madras, India, 12 October 1912:-		
N	1825	N	1825
		RML	110749
	<u>Rhipicephalus sanguineus</u> ♂'s & ♀'s		11 ♂, 21 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Madras, India		Madras (13.05 N, 80.17 E), India
	1912		1912
	J. F. Valladares		J. F. Valladares
N	1826, a	N	1826
		RML	110750
	(1826) <u>Haemaphysalis bispinosa</u> ♂'s, ♀'s, N's & L		(1826) 68 ♂, 8 ♀, 3 N <u>Haemaphysalis</u> <u>bispinosa</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s N's & L		(a) <u>Hyalomma</u> sp. (see N3589)
	Cow		Cow
	Madras, India		Madras (13.05 N, 80.17 E), India
	1912		1912
	J. F. Valladares		J. F. Valladares Cited: Nuttall & Warburton (1915: 431)

ORIGINAL DETERMINATIONCURRENT STATUS

N	1827	N	1827 MISSING
	<u>Ornithodoros savignyi</u> adults		
	"Found in a place where cattle were impounded"		
	Madras, India		
	1912		
	J. F. Valladares		
	1 ♂ to J. de Meza, Zomba Nyasaland		
	19.II.1916		
	Ticks received from Professor Lignières (Director del Instituto Nacional Bacteriologico), Buenos Aires, Argentine Republic, South America, 23.IX.1912:-		
N	1828	N	1828
	<u>Boophilus</u> sp. larvae (unfed)	RML	110751
	Parents off cattle		+ 1000 L <u>Boophilus microplus</u>
	Argentine Republic, S. America		Parents off cattle
	20.VIII.1912		Argentina
	Lignières		20.VIII.1912
			Lignières

ORIGINAL DETERMINATIONCURRENT STATUS

N 1829

Boophilus annulatus ♀'s (gorged)

Cattle

Argentine Republic, S. America

20.I.1912

Lignièrès

1 ♀ to Dr. E. Roubaud, Institute Pasteur, Paris 12.X.1922.
 1 ♀ to Prof. J. Hjort, Univ. Christiana, Norway 12.X.1922.
 1 ♀ to Dr. A. Watkins Pitchford, Army Vet. Sch., Thornhill, Aldershot 12.X.1922.
 1 ♀ to L. P. W. Renouf, Biol. Dept. Univ. Coll, Cork, Ireland 12.X.1922
 1 ♀ to W. A. Pool Indian Civil Vet. Dept. 12.X.1922.
 1 ♀ to Dr. Wm. Parry Morgan, Publ. Hlth, Lab., Cardiff, Wales 12.X.1922.
 1 ♀ to J.E.M. Mellor, Malvern College, Malvern 16.X.1922.
 1 ♀ to Prof. A. Bettencourt Inst. Camara Pestana, Lisbon 7.XI.1922.
 1 ♀ to Prof. E. Brumpt, L'Ecole Medicine, Paris 12.X.1922.
 1 ♀ to I. C. Ross, Univ. of Sydney, Australia.

N 1829

RML 110752

16 ♀ Boophilus microplus

Cattle

Argentina

20.I.1912

Lignieres

N 1830

Boophilus annulatus ♀'s (gorged)

Cattle

Peru, S. America

12.II.1912

N 1830

RML 110753

21 ♀ Boophilus annulatus

Cattle

Peru

12.II.1912

This is true B. annulatus although Peru is well beyond the known range of this tick species. [But see also N 2162, 2163, 2510]

ORIGINAL DETERMINATIONCURRENT STATUS

N	1831	N	1831
		RML	110770
	<u>Boophilus annulatus</u> ♀'s (gorged)		26 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Peru, S. America		Peru
	14.X.1912		14.X.1912
N	1832	N	1832
		RML	110771
	<u>Ornithodoros megnini</u>		3 ♀, 5 N <u>Otobius megnini</u>
	Cattles' ears		Cattle
	Chile, S. America		Chile
	26.IV.1912		26.IV.1912
	M. Blier		M. Blier
			5 cast nymphal skins present
N	1833	N	1833 MISSING
	<u>Boophilus annulatus</u> ♂'s & ♀'s (♂'s without tail!)		
	Cattle		
	Peru, S. America		
	4.II.1911		
N	1834	N	1834
		RML	110772
	<u>Boophilus annulatus</u> ♀'s (bad condition)		30 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Peru, S. America		Peru
	3.I.1911		3.I.1911

ORIGINAL DETERMINATIONCURRENT STATUS

N	1835	N	1835
		RML	110773
	<u>Boophilus australis</u> larvae (alive)		4 ♂, 1 ♀, 326 L <u>Boophilus microplus</u>
	Parents off cattle		Parents off cattle
	Argentine Republic, S. America		Argentina
	20.VIII.1912		20.VIII.1912
	Supposed to be infected [Used for experiments on calf] Raised in Cambridge		Slide missing
	(a)		
	(b) larvae, unfed		
	(c) ♂'s		
	(d) ♀'s after ovipositing		
	1 slide of larvae mounted		
Ticks received from Dr. J. W. Scott Macfie, Ilorin, Northern Nigeria, West Africa, 14.X.1912:-			
N	1836	N	1836
		RML	110774
	<u>Aponomma</u> sp. 1 N		1 N <u>Amblyomma</u> sp.
	Chameleon		Chameleon
	Ilorin, N. Nigeria, W. Africa		Ilorin (08.30 N, 04.33 E), Nigeria
	11.VI.1912		11.VI.1912
	Dr. J. W. Scott Macfie		Dr. J. W. Scott Macfie
			John William Scott Macfie (1879-1948) pioneer worker in the study of mosquitoes and ceratopogonid midges. Worked in West Africa from 1910-1923 then joined Liverpool School of Tropical Medicine.

ORIGINAL DETERMINATIONCURRENT STATUS

N	1837	N	1837
		RML	110775
	<u>Rhipicephalus</u> sp. 1 ♂		1 ♂ <u>Rhipicephalus senegalensis</u>
	Horse		Horse
	Ilorin, N. Nigeria, W. Africa		Ilorin (08.30 N, 04.33 E), Nigeria
	5.VIII.1912		5.VIII.1912
	Dr. J. W. Scott Macfie		Dr. J. W. Scott Macfie
N	1838	N	1838
		RML	110776
	<u>Amblyomma marmoreum</u> 2 ♂'s		2 ♂ <u>Amblyomma nuttalli</u>
	Hedgehog		Probably <u>Erinaceus albiventris</u>
	Ilorin, N. Nigeria, W. Africa		Ilorin (08.30 N, 04.33 E), Nigeria
	26.II.1912		26.II.1912
	Dr. J. W. Scott Macfie		Dr. J. W. Scott Macfie
			Cited: Theiler & Salisbury (1959; 115).
N	1839	N	1839 MISSING
	<u>Gekobia</u> sp. (Mites)		
	Lizard		
	Ilorin, N. Nigeria, W. Africa		
	IX.1912		
	Dr. J. W. Scott Macfie		

Ticks retained from the collection sent for determination by Dr. J. Burton Cleland, Bureau of Microbiology, Sydney, New South Wales, Australia, 2.IX.1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1840	N	1840
		RML	110777
	<u>Boophilus australis</u> ♀'s		14 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Queensland, Australia		Queensland, Australia
	1899		1899
N	1841	N	1841
		RML	110778
	<u>Amblyomma moreliae</u> 1 ♀		1 ♀ <u>Amblyomma moreliae</u>
	Tiger Snake (<u>Notechis scutatus</u>)		<u>Notechis scutatus</u>
	Sydney, N. S. Wales, Australia		Sydney (33.52 S, 151.13 E), N. S. Wales, Australia
	III.1909		III.1909
N	1842	N	1842
		RML	110779
	<u>Aponomma decorosum</u> 1 ♀		1 ♀ <u>Aponomma decorosum</u>
	Iguana (<u>Varanus</u> sp.)		<u>Varanus</u> sp.
	Cobar, N.S. Wales, Australia		Cobar (31.30 S, 145.49 E), N.S. Wales, Australia
	?Date		?Date
	Mr. Woollett		Mr. Woollett

ORIGINAL DETERMINATIONCURRENT STATUS

N	1843	N	1843
		RML	110780
	<u>Aponomma decorosum</u> ♂'s		35 ♂ <u>Aponomma decorosum</u>
	Lace Monitor (<u>Varanus varius</u>)		<u>Varanus varius</u>
	Dubbo, N.S. Wales, Australia		Dubbo (32.15 S, 148. 36 E), N.S. Wales, Australia
	X.1911		X.1911
	[2 ♂ mounted in cells with other Aponommas]		Slide missing Cited: Kaufman (1972: 359).
N	1844	N	1844
		RML	110781
	<u>Aponomma decorosum</u> ♀'s & N's		28 ♀, 4 N <u>Aponomma decorosum</u>
	Lace Monitor (<u>Varanus varius</u>)		<u>Varanus varius</u>
	Dubbo, N.S. Wales, Australia		Dubbo (32.15 S, 148.36 E), N.S. Wales, Australia
	X.1911		X.1911
	[2 ♀ mounted in cells with other Aponommas]		Slide missing Kaufman (1972: 370) incorrectly cites this collection as 28 ♂ <u>A. decorosum</u> .
			Note in vial "2 N removed 13/6/36 Bertram"
N	1845	N	1845
		RML	110782
	<u>Aponomma</u> sp. N's		10 N <u>Aponomma decorosum</u>
	Lace Monitor (<u>Varanus varius</u>)		<u>Varanus varius</u>
	Dubbo, N.S. Wales, Australia		Dubbo (32.15 S, 148.36 E), N.S. Wales, Australia
	X.1911		X.1911

ORIGINAL DETERMINATIONCURRENT STATUS

N	1846 <u>Ixodes holocyclus</u> 1 ♀ Human arm Sydney, N.S. Wales, Australia XII.1909	N	1846 MISSING
N	1847 <u>Ixodes feacialis</u> 2 N Native cat (<u>Dasyurus viverrinus</u>) N.S. Wales, Australia 22.I.1912 Mr. Steel	N	1847 RML 110783 2 N <u>Ixodes feacialis</u> <u>Dasyurus viverrinus</u> New South Wales, Australia 22.I.1912 Mr. Steel Cited: Nuttall (1916: 327).
N	1848 <u>Ixodes holocyclus</u> 1 ♀, 2 N's <u>Perameles nasuta</u> N.S. Wales, Australia 8.VIII.1911 Mr. Steel	N	1848 RML 66601 1 ♀, 2 N <u>Ixodes holocyclus</u> <u>Perameles nasuta</u> New South Wales, Australia 8.VIII.1911 Mr. Steel Cited: Nuttall (1916: 329).
N	1849 <u>Ornithodoros talaje?</u> N's, larvae Penguin (<u>Eudyptula minor</u>) Perth, W. Australia 20.V.1908	N	1849 RML 110784 2 L <u>Ornithodoros capensis</u> <u>Eudyptula minor</u> Perth (31.56 S, 115.50 E), Australia 20.V.1908

ORIGINAL DETERMINATIONCURRENT STATUS

N	1850	N	1850
		RML	110785
	<u>Ixodes percavatus</u> 2 ♀'s		3 ♀ <u>Ixodes</u> sp.
	Penguin (<u>Eudyptula minor</u>)		<u>Eudyptula minor</u>
	Perth, W. Australia		Perth (31.56 S, 115.50 E), Australia
	1908		1908
			This collection in 2 vials. 2 ♀ are lacking capituli. The 3rd has no internal flange as in <u>auritulus</u> or <u>pterodromae</u> . It has the dorsal spur on palpal article I and cornua as in <u>kohlsi</u> but coxal spurs are like those of <u>pterodromae</u> . These specimens are not <u>Ixodes kohlsi</u> , <u>I. eudyptidis</u> , <u>I. pterodromae</u> or <u>I. auritulus</u> . Cited: Nuttall (1916: 329).
N	1851	N	1851
		RML	69981
	<u>Haemaphysalis neumanni</u> 1 ♀		1 ♀ <u>Haemaphysalis longicornis</u>
	Horse		Horse
	Ballina, N.S. Wales, Australia		Ballina (28.52 S, 153.33 E), N.S. Wales, Australia
	5.X.1911		5.X.1911
			Cited: Hoogstraal et al (1968: 1206).
N	1852	N	1852
		RML	110786
	<u>Haemaphysalis neumanni</u> ♀'s (young)		11 ♀ <u>Haemaphysalis longicornis</u>
	Calf		Calf
	Bonville, N.S. Wales, Australia		Bonville, N.S. Wales, Australia
	? Date		? Date
	(Lab No. 6652)		

Ticks received from Dr. E. Maya, Assistant-Director of the Bacteriological Laboratory, Mauritius Island, Indian Ocean, 21 October 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1853	N	1853
		RML	110787
	<u>Amblyomma variegatum</u> ♂'s		4 ♂ <u>Amblyomma variegatum</u>
	Bullocks		Bullocks
	Mauritius, Indian Ocean		Mauritius
	20.IX.1912		20.IX.1912
	Dr. E. Maya		Dr. E. Maya
N	1854	N	1854
		RML	110788
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		80 ♂, 43 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Mauritius, Indian Ocean		Mauritius
	13.IX.1912		13.IX.1912
	Dr. E. Maya		Dr. E. Maya
	Dog suffering from chronic piroplasmosis		
	1 ♂, 1 ♀ to Dr. J. G. Parham Port. East Africa 18.IV.1913.		
	1 ♂, 1 ♀ to N.Y. National Museum 18.IV.1913.		
N	1855	N	1855
		RML	110789
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		33 ♂, 4 ♀, 1 N <u>Amblyomma variegatum</u> 1 ♀ <u>Boophilus microplus</u>
	Bullocks		Bullocks
	Mauritius, Indian Ocean		Mauritius
	1911		1911
	Dr. E. Maya		Dr. E. Maya

ORIGINAL DETERMINATIONCURRENT STATUS

N	1856	N	1856
		RML	110790
	<u>Argas vespertilionis</u> larvae		10 L <u>Argas vespertilionis</u>
	Bats (<u>Scotophilus heathi</u>)		<u>Scotophilus heathi</u>
	Pusa, Bihar, Bengal, India		Pusa (25.59 N, 85.41 E), India
	VI.1911		VI.1911
	Received from T. Bainbrigge Fletcher Esq., (Government Entomologist), Agricultural College, Coimbatore, Madras, S. India, 21.X.1912.		
N	1857	N	1857 MISSING
	<u>Boophilus australis</u> ♀'s		
	S. Paulo, Brazil		
	Rec'd 21.X.1912		
	Rec'd. from Professor B. Galli-Valerio, Lausanne, Switzerland		
	Ticks retained from the collection (Nos. 147-184) sent for determination by Professor R. Newstead, F.R.S., School of Tropical Medicine, The University, Liverpool, 4.X.1912.		
N	1858	N	1858
		RML	110791
	<u>Aponomma gervaisi</u> 1 ♂		1 ♂ <u>Aponomma gervaisi</u>
	Cobra		<u>Naja</u> sp.
	Kasauli, India		Kasauli (30.55 N, 76.57 E), India
	1910		1910
	Captain R. M. Carter		Captain R. M. Carter
	("148")		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1859	N	1859
	<u>Amblyomma testudinarium</u> 2 ♀	RML	110792
	Assam, India		2 ♀ <u>Amblyomma testudinarium</u>
	1910		State of Assam, India
	Captain R. M. Carter		1910
	("150")		Captain R. M. Carter
			Cited: Robinson (1926: 256).
N	1860	N	1860
	<u>Dermacentor auratus</u> ♀	RML	110793
	Assam, India		1 ♀ <u>Dermacentor auratus</u>
	1910		State of Assam, India
	Captain R. M. Carter		1910
	("150a")		Captain R. M. Carter
N	1861	N	1861
	<u>Amblyomma sublaeve</u> 1 ♂	RML	110794
	No data		1 ♂ <u>Amblyomma javanense</u>
	("154")		No data
N	1862	N	1862
	<u>Amblyomma</u> sp. larvae	RML	110795
	Pig's ear		4 L <u>Amblyomma</u> sp.
	Manderville, Jamaica		<u>Sus scrofa</u>
	23.XII.1908		Mandeville (18.02 N, 77.30 W), Jamaica
	R. Newstead		23.XII.1908
	("159")		R. Newstead

ORIGINAL DETERMINATIONCURRENT STATUS

N	1863	N	1863
		RML	110796
	<u>Dermacentor nitens</u> ♂, ♀		1 ♂, 3 ♀ <u>Anocentor nitens</u>
	Horse		Horse
	Llanrumnly, Jamaica		Llanrumney (18.20 N, 76.54 W), Jamaica
	22.XII.1908		22.XII.1908
	L. B. Melville		L. B. Melville
	("160")		
N	1864	N	1864
		RML	110797
	<u>Amblyomma cajennense</u> ♂, ♀, N		1 ♂, 1 ♀, 1 N <u>Amblyomma cajennense</u>
	Cattle		Cattle
	Jamaica		Jamaica
	1908		1908
	M. L. Martin		M. L. Martin
	("162a")		Cited: Robinson (1926: 53).
N	1865	N	1865 MISSING
	<u>Amblyomma cajennense</u> ♀		
	Cattle		
	Kew Park, Jamaica		
	10.XII.1908		
	J. R. Williams		
	("163a")		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1866	N	1866
		RML	110798
	<u>Dermacentor nitens</u> ♂, ♀		2 ♂, 1 ♀ <u>Anocentor nitens</u>
	Horse's ear		Horse
	Great Valley, Jamaica		Either Great Valley (17.53 N, 77.31 W) or (18.24 N, 78.04 W), Jamaica
	23.XII.1908		23.XII.1908
	R. Newstead		R. Newstead
	("180")		
N	1867	N	1867
		RML	110799
	<u>Dermacentor nitens</u> ♂, ♀		3 ♂, 2 ♀, 1 N <u>Anocentor nitens</u>
	Horse's ear		Horse
	Friendship, Jamaica		Friendship, Jamaica (locality not verified; there are 14 possible localities named Friendship on Jamaica)
	23.XII.1908		23.XII.1908
	R. Newstead		R. Newstead
	("180")		
N	1868	N	1868 MISSING
	<u>Ixodes ricinus</u> ♂, ♀		
	Cattle		
	North Wales		
	X.1906		
	Dr. Annett		
	("181")		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1869	N	1869
		RML	110800
	<u>Amblyomma</u> sp. N's		6 N <u>Amblyomma</u> sp.
	Cape Colony, S. Africa		Cape Colony, Republic of South Africa
	1910		1910
	Mr. Lounsbury		Mr. C. P. Lounsbury
	("182")		

Ticks retained from the collection sent for determination by Dr. K. S. Wise, Government Bacteriological Department, Georgetown, British Guiana 3.IX.1912:-

NOTE: I do not believe the specimens in most instances were derived from the hosts enumerated. My hypothesis is that a willing native must have collected them for pay & found what he thought was wanted, inventing the hosts!

G.H.F.N.

N	1870	N	1870
		RML	110801
	<u>Amblyomma dissimile</u> ♂, ♂		2 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	Toad		Toad
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
			I agree with Nuttall's analysis of the host situation for this Guyana material. Therefore no attempt has been made to update or clarify any host information for collections 1870-1890 [J.E.K.]
			Cited: Robinson (1926: 167).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1871	N	1871
		RML	110802
	<u>Rhipicephalus sanguineus</u> ♀, ♂		3 ♂, 7 ♀ <u>Rhipicephalus sanguineus</u>
	Turtle (!)		Turtle
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
N	1872	N	1872
		RML	110803
	<u>Rhipicephalus sanguineus</u> ♂'s		5 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	Hog		Hog
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
N	1873	N	1873
		RML	110804
	<u>Amblyomma dissimile</u> ♂, ♀		6 ♂, 2 ♀, 2 N <u>Amblyomma dissimile</u>
	Cow		Cow
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1874	N	1874
		RML	110805
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N		2 ♂, 1 ♀, 6 N <u>Rhipicephalus sanguineus</u>
	"Salapenter"		"Salapenter"
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
N	1875	N	1875
		RML	110806
	<u>Rhipicephalus sanguineus</u> ♀		1 ♀ <u>Rhipicephalus sanguineus</u>
	Man		Man
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
	(Mibouli tick)		
N	1876	N	1876
		RML	110807
	<u>Rhipicephalus sanguineus</u> ♂, ♀		3 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Crab dog		Crab dog
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise

ORIGINAL DETERMINATIONCURRENT STATUS

N	1877	N	1877
		RML	110808
	<u>Rhipicephalus sanguineus</u> ♂'s		6 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>
	Lizard		Lizard
	British Guiana		Guyana
	1911		1911
	Dr. K. S. Wise		Dr. K. S. Wise
	"Rot" [Editorial comment by Nuttall relating to hosts for N 1877-1879]		
N	1878	N	1878
		RML	110809
	<u>Rhipicephalus sanguineus</u> ♂, ♀		7 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Turtle (!)		Turtle
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1879	N	1879
		RML	110810
	<u>Rhipicephalus sanguineus</u> ♂, ♀		9 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Alligator		Alligator
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. WISE

ORIGINAL DETERMINATIONCURRENT STATUS

N	1880	N	1880
		RML	110811
	<u>Rhipicephalus sanguineus</u> ♂'s		4 ♂ <u>Rhipicephalus sanguineus</u>
	Ocelot		Ocelot
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1881	N	1881
		RML	110812
	<u>Rhipicephalus sanguineus</u> ♂, ♀		7 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Mongoose		Mongoose
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1882	N	1882
		RML	110813
	<u>Rhipicephalus sanguineus</u> ♂, ♀		2 ♂, 7 ♀ <u>Rhipicephalus sanguineus</u>
	Labba		Labba
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise

ORIGINAL DETERMINATIONCURRENT STATUS

N	1883	N	1883
		RML	110814
	<u>Amblyomma dissimile</u> ♂, ♀		5 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	Iguana		Iguana
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
			Cited & figured: Robinson (1926: 164, 166, 167).
N	1884	N	1884
		RML	110815
	<u>Boophilus</u> sp. ♂, ♀		3 ♂, 6 ♀ <u>Boophilus microplus</u>
	Chameleon		Chameleon
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1885	N	1885
		RML	110816
	<u>Boophilus</u> sp. ♂, ♀		7 ♂, 2 ♀ <u>Boophilus microplus</u>
	Marmoset		Marmoset
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise

ORIGINAL DETERMINATIONCURRENT STATUS

N	1886	N	1886
		RML	110817
	<u>Boophilus</u> sp. ♂, ♀		2 ♂, 2 ♀ <u>Boophilus microplus</u>
	"Hackia"		"Hackia"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
	"Rot" [Editorial comment by Nuttall relating to hosts for N 1886-1890]		
N	1887	N	1887
		RML	110818
	<u>Boophilus</u> sp. ♂, ♀		2 ♂, 7 ♀ <u>Boophilus microplus</u>
	"Water Hass"		"Water Hass"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1888	N	1888
		RML	110819
	<u>Boophilus</u> sp. ♂, ♀		8 ♂ <u>Boophilus microplus</u>
	"Raccoon"		"Raccoon"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise

ORIGINAL DETERMINATIONCURRENT STATUS

N	1889	N	1889
		RML	110820
	<u>Boophilus</u> sp. ♂, ♀		8 ♂, 2 ♀ <u>Boophilus microplus</u>
	"Grison"		"Grison"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1890	N	1890
		RML	110821
	<u>Boophilus</u> sp. ♂, ♀		7 ♂ <u>Boophilus microplus</u>
	"Kibihee"		"Kibihee"
	British Guiana		Guyana
	1912		1912
	Dr. K. S. Wise		Dr. K. S. Wise
N	1891	N	1891 MISSING
	<u>Rhipicephalus</u> sp. ♀'s (with eggs)		
	Dog		
	Argentine Republic, S. America		
	7.VI.1912		
	Rec'd. from Prof. Lignières 23.IX.1912		

Ticks received from Dr. H. de Beaufrepaire Aragão, Instituto de Manguinhos, Rio de Janeiro, Brazil, South America, 28 October 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1892	N	1892
		RML	110822
	<u>Amblyomma pacae</u> ♂		1 ♂ <u>Amblyomma pacae</u>
	<u>Coelogenys paca</u>		<u>Agouti paca</u>
	Estado de Minas, Brazil		Estado do Minas Gerais (18.00 S, 44.00 W), Brazil
	II.1912		II.1912
	(Pinned) Had been in alcohol (No. 2780)		Pinned specimen Cited: Robinson (1926: 211).
N	1893	N	1893
		RML	110823
	<u>Amblyomma pacae</u> ♀		1 ♀ <u>Amblyomma pacae</u>
	<u>Coelogenys paca</u>		<u>Agouti paca</u>
	Estado de Rio, Brazil, S. America		Perhaps Estado do Rio de Janeiro (22.00 S, 42.30 W), Brazil
	1908		1908
	(Pinned) (No. 1327)		Pinned specimen Cited: Robinson (1926: 211).
N	1894	N	1894
		RML	110824
	<u>Haemaphysalis leporis</u> var. <u>proxima</u> 1 ♂, 3 ♀		1 ♂, 3 ♀ <u>Haemaphysalis leporispalustris</u>
	<u>Lepus braziliensis</u>		<u>Sylvilagus braziliensis</u>
	Manguinhos, Brazil, S. America		Manguinhos, Brazil (locality not verified; 4 possible localities).
	20.VII.1907		20.VII.1907
	(Pinned) (Nos. 135/138)		Pinned specimens Cited: Nuttall & Warburton (1915: 394).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1895	N	1895	MISSING
	<u>Ornithodoros rostratus</u>			
	Rio Guapore, Estado de Matto Grosso, Brazil, S. America			
	1909			
	(Pinned) No. 1774)			
N	1896	N	1896	
		RML	110825	
	<u>Amblyomma oblongoguttatum</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma oblongoguttatum</u>	
	<u>Tapirus americanus</u>		<u>Tapirus terrestris</u>	
	Estado do Espirito Santo, Brazil S. America		Estado do Espírito Santo (20.00 S, 40.45 W), Brazil	
	1908		1908	
	(Pinned) (Nos. 1555/56)		Cited: Robinson (1926: 36).	
N	1897	N	1897	MISSING
	<u>Amblyomma incisum</u> ♀		This pinned ♀ is now in the BMNH collection.	
	<u>Tapirus americanus</u>			
	Estado do Espirito Santo, Brazil, S. America			
	1908			
	(Pinned) (No. 1561)			

Ticks received back from the Entomological Research Committee (Tropical Africa), London, S.W., ex Report No. 24, 30 October 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1898	N	1898
		RML	110826
	<u>Amblyomma splendidum</u> 1 ♀		1 ♀ <u>Amblyomma splendidum</u>
	Grasses		Grasses
	Yiraira, Sierra Leone, West Africa		Yiraira, either (09.06 N, 10.57 W) or (09.27 N, 11.15 W), Sierra Leone
	7.VI.1912		7.VI.1912
	J. J. Simpson		J. J. Simpson
	"580"		Cited: Robinson (1926: 125).
N	1899	N	1899
		RML	110827
	<u>Haemaphysalis parmata</u> ♂, ♀, N		2 ♂, 3 ♀ <u>Haemaphysalis parmata</u>
	"Harnessed" Antelope		"Harnessed" Antelope
	Port Lokko, Sierra Leone, West Africa		Port Loko (08.46 N, 12.47 W), Sierra Leone
	11.V.1912		11.V.1912
	J. J. Simpson		J. J. Simpson
	"584"		Cited: Nuttall & Warburton (1915: 421).
N	1900	N	1900
		RML	110828
	<u>Aponomma exornatum</u> ♂'s		6 ♂ <u>Aponomma exornatum</u>
	Lizard (<u>Varanus</u> sp.)		<u>Varanus</u> sp.
	Sesse Islands, Lake Victoria, B. E. Africa		Sese Islands (00.20 S, 32.20 E), Uganda
	18.IV.1912		18.IV.1912
	G. D. H. Carpenter		G. D. H. Carpenter
	"593"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1901	N	1901
		RML	110829
	<u>Amblyomma</u> sp N's		2 N <u>Amblyomma</u> sp.
	Water-buck		<u>Kobus ellipsiprymnus</u>
	Laminaia, Sierra Leone, West Africa		Laminaia, either (08.44 N, 13.09 W) or (09.17 N, 12.23 W), Sierra Leone
	26.IV.1912		26.IV.1912
	J. J. Simpson		J. J. Simpson
	"567"		
N	1902	N	1902
		RML	110830
	<u>Dermacentor circumguttatus</u> ♂, ♀		2 ♂, 1 ♀ <u>Dermacentor circumguttatus</u>
	Elephant		<u>Loxodonta africana</u>
	Katonta, Sierra Leone, West Africa		Kakonta (09.06 N, 11.43 W), Sierra Leone
	19.IV.1912		19.IV.1912
	J. J. Simpson		J. J. Simpson
	"578a"		Total includes 1 ♂ mounted on a slide along with the ♀ from N 3383

Ticks taken out of the collection brought in for determination by Mr. F. M. Howlett, B.A., Assistant Entomologist, India, X.1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1903	N	1903
		RML	110831
	<u>Aponomma gervaisi</u> ♂, ♀, N		8 ♂, 4 ♀, 2 N <u>Aponomma gervaisi</u>
	Goat		Goat
	Kangra, Punjab, India		Kangra, Punjab, Pakistan (locality not verified; 4 possible localities with this name)
	1908		1908
N	1904	N	1904 MISSING
	<u>Argas persicus</u>		
	Fowls		
	Kangra, Punjab, India		
	1908		
	Some (sex/stage not given) to N.Y. National Museum 18.IV.1913		
N	1905	N	1905
		RML	110832
	<u>Argas persicus</u>		2 ♂, 3 ♀, 6 N <u>Argas persicus</u>
	Fowls		Fowls
	Etawah, United Provinces, India		Etawa (24.12 N, 78.12 E), India
	18.X.1906		18.X.1906

ORIGINAL DETERMINATIONCURRENT STATUS

N	1906	N	1906
		RML	110833
	<u>Haemaphysalis bispinosa</u> ♀'s		13 ♀ <u>Haemaphysalis bispinosa</u>
	Cattle		Cattle
	Bellary, Madras, India		Bellary (15.09 N, 76.56 E), India
	9.VII.1906		9.VII.1906
			Cited: Nuttall & Warburton (1915: 432).
N	1907	N	1907
		RML	110834
	<u>Aponomma laeve</u> ♂, ♀		1 ♂, 6 ♀ <u>Aponomma pattoni</u>
	Cobra		<u>Naja naja</u> or <u>Ophiophagus hannah</u>
	Bombay, India		Bombay (18.58 N, 72.50 E), India
	III.1909		III.1909
N	1908	N	1908
		RML	110835
	<u>Amblyomma testudinarium</u> ♂, ♀		1 ♂, 2 ♀ <u>Amblyomma testudinarium</u>
	Cattle		Cattle
	Bombay, India		Bombay (18.58 N, 72.50 E), India
	14.IV.1911		14.IV.1911
			Cited: Robinson (1926: 256).

ORIGINAL DETERMINATIONCURRENT STATUS

N	1909	N	1909
		RML	110836
	<u>Amblyomma testudinarium</u> ♀		1 ♀ <u>Amblyomma testudinarium</u>
	Cattle		Cattle
	Bamauk, India		Perhaps Bamaur (26.21 N, 78.05 E), India
	14.XI.1911		14.XI.1911
	1 ♂, 1 ♀ to Dr. de Blicck, Java, 22.I.1915		Cited: Robinson (1926: 256).
N	1910	N	1910
		RML	110837
	<u>Ornithodoros savignyi</u>		1 ♀, 1 N <u>Ornithodoros savignyi</u>
	Human habitations		Human habitations
	Baroda, India		Baroda, India (locality not verified; 4 possible localities)
	IV.1909		IV.1909
N	1911	N	1911 MISSING
	<u>Amblyomma cajennense</u> ♂'s, ♀'s		
	Horses ("in apparently good health")		
	Adelphi, Glasgow, Jamaica, West Indies		
	10.X.1912		
	Dr. H. G. Johnston		
	[2 ♂, 2 ♀ mounted in cells with other <u>Amblyommas</u>]		
	1 ♂, 1 ♀ to N.Y. National Museum		
	18.IV.1913		
	1 ♂, 1 ♀ to Richard Hancock, England		
	16.VI.1918		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1912	N	1912
		RML	110838
	<u>Ixodes pilosus</u> ♂, ♀		1 ♂, 1 ♀ <u>Ixodes pilosus</u>
	Cattle		Cattle
	Starvation Camp, Gonubie Park, E. London, South Africa		"Starvation Camp", Gonubie Park (32.55 S, 27.59 E), Republic of South Africa
	II.1912		II.1912
	(Ex collection sent for determination by L. E. Robinson, Esq., X.1912)		(Ex collection sent for determination by L. E. Robinson, Esq., X.1912) Cited: Nuttall (1916: 330).
N	1913	N	1913
		RML	110839
	<u>Rhipicephalus follis</u> 2 ♂		2 ♂ <u>Rhipicephalus follis</u>
	Cattle		Cattle
	Starvation Camp, Gonubie Park, E. London, South Africa		"Starvation Camp", Gonubie Park (32.55 S, 27.59 E), Republic of South Africa
	II.1912		II.1912
	(Ex collection sent for determination by L. E. Robinson, Esq. X.1912)		(Ex collection sent for determination by L. E. Robinson, Esq. X.1912)
N	1914	N	1914
		RML	110840
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		6 ♂, 25 ♀ <u>Rhipicephalus simus</u>
	Cattle		Cattle
	Starvation Camp, Gonubie Park, E. London, South Africa		"Starvation Camp", Gonubie Park (32.55 S, 27.59 E), Republic of South Africa
	II.1912		II.1912
	(Ex collection sent for determination by L. E. Robinson, Esq., X.1912)		(Ex collection sent for determination by L. E. Robinson, Esq., X.1912)

ORIGINAL DETERMINATIONCURRENT STATUS

N 1915

Amblyomma tholloni ♂'s, ♀'s & N's

Elephant

Katanta, Sierra Leone, West Africa

19.IV.1912

J. J. Simpson

("E.R.C. 578")

(2 ♂ & 2 ♀ mounted in cells on slides II.1915)

N 1915

RML 110841

16 ♂, 14 ♀ Amblyomma tholloniLoxodonta africanaKatanta (09.06 N, 11.57 W),
Sierra Leone

19.IV.1912

J. J. Simpson

Slides missing.

Cited: Robinson (1926: 252).

N 1916

Ixodes hexagonus 3 ♀'s

Pole cat

St. Clears, Carmarthenshire,
South Wales

9.X.1912

("Z.S. 34")

1 ♀ to Dr. E. Pavlovsky,
Leningrad 9.X.1925

N 1916

RML 110842

2 ♀ Ixodes hexagonusMustela putoriusSaint Clears (51.49 N, 04.30 W),
Wales

9.X.1912

Cited: Nuttall (1916: 328).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1917	N	1917
		RML	110843
	<u>Argas brumpti</u> N's		Vial 1 20 L plus eggs <u>Argas brumpti</u> Vial 2 3 N <u>Argas brumpti</u> Vial 3 3 L <u>Argas brumpti</u> 4 vials of cast skins from larvae, 1st stage N, 1st & 2nd stage N, 2nd & 3rd stage N.
	Probably Kitui, British East Africa		Probably Kitui (01.22 S, 28.01 E), Kenya
	Received 14.XI.1912		Received 14.XI.1912
	Received from S.W.J. Scholefield, Esq., Kitui, British East Africa		Received from S.W.J. Scholefield, Esq., Kitui, Kenya
	[2 larvae mounted on slide in balsam]		Slides missing
	<u>A. brumpti</u> : Raised in Cambridge (box "series") (a) (b) larvae unfed (c) larvae gorged (d) " skins (e) N's 1st stage unfed (f) N's 1st stage skins (i) larvae & eggs (ii) N's skins 1st & 2nd stage (iii) " " 2nd & 3rd "		There is also a vial containing 17 larvae <u>Argas</u> sp. and with two labels, N 1917 and N1288(<u>A.</u> <u>reflexus</u>). The larvae are neither <u>A. brumpti</u> nor <u>A. reflexus</u> . Cited: Cunliffe (1914b: 379).
N	1918	N	1918
		RML	110844
	<u>Ornithodoros moubata</u>		6 ♂, 5 ♀, 4 N <u>Ornithodoros moubata</u>
	Probably Kitui, British East Africa		Probably Kitui (01.22 S, 38.01 E), Kenya
	Received 14.VI.1912		Received 14.VI.1912
	Received from S.W.J. Scholefield, Esq., Kitui, British East Africa		Received from S.W.J. Scholefield, Esq., Kitui, Kenya

Ticks received back from the Entomological Research Committee
(ex Report No. 25), 15 November 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1919	N	1919 MISSING
	<u>Rhipicephalus appendiculatus</u> ♀'s		
	Cattle		
	Ankole (Mbarara), Uganda		
	V.1912		
	Dr. R. E. McConnell		
	"600"		
N	1920	N	1920
		RML	110845
	<u>Ornithodoros moubata</u>		4 ♀ <u>Ornithodoros moubata</u>
	Katwe, British East Africa		Katwe, Kenya (locality not verified; perhaps one of two towns named Katwe in Uganda)
	III.1912		III.1912
	Dr. R. E. McConnell		Dr. R. E. McConnell
	"601"		Probably <u>O. moubata porcinus</u>
N	1921	N	1921
		RML	110846
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Mbarara Ankole, Africa		Mbarara (00.37 S, 30.39 E), Uganda
	V.1912		V.1912
	Dr. R. E. McConnell		Dr. R. E. McConnell
	"600b")		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1922	N	1922
		RML	110847
	<u>Rhipicephalus simus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus simus</u>
	Porcupine		Either <u>Atherurus africanus</u> or <u>Hystrix cristata</u>
	Mbarara, Ankole, Uganda		Mbarara (00.37 S, 30.39 E), Uganda
	3.V.1912		3.V.1912
	Dr. R. E. McConnell		Dr. R. E. McConnell
	"603"		
N	1923	N	1923 MISSING
	<u>Haemaphysalis leachi</u> ♂, ♀		
	Bush-cat (<u>Mungos paludinosus</u>)		
	Komatendu, Sierra Leone, West Africa		
	13.VIII.1912		
	J. J. Simpson		
	"604a"		
N	1924, a, b	N	1924, a, b
		RML	110848
	(1924) <u>Rhipicephalus sanguineus</u>		(1924) 38 ♂, 18 ♀, 14 N <u>Rhipicephalus sanguineus</u>
	(a) <u>Boophilus australis</u>		(a) 5 ♂, 13 ♀ <u>Boophilus microplus</u>
	(b) <u>Hyalomma aegyptium</u>		(b) MISSING
	Dogs		Dogs
	Barielly, United Provinces, India		Barielly (28.22 N, 79.27 E), India
	10.X.1912		10.X.1912
	Rec'd. from Captain W. F. Loughnan, R.A.M.C., 19.XI.1912		Rec'd. from Captain W. F. Loughnan, R.A.M.C., 19.XI.1912

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1925	N	1925 MISSING
	<u>Amblyomma hebraeum</u> ♀'s		
	Off ?		
	Probably East London, Cape Colony, South Africa		
	Rec'd 19.XI.1912		
	Rec'd from Messrs. W. Cooper & Nephews, East London, Cape Colony, South Africa		
	Ticks received from Dr. M. A. Ruffer, C.M.G. (Presidente Sanitaire, Maritime et Quarantenaire d' Egypt), Alexandria, Egypt, 26.XI.1912:-		
N	1926, a-c	N	1926, a-c
		RML	110849
	(1926) <u>Haemaphysalis punctata</u> ♀'s		(1926) 9 ♀ <u>Haemaphysalis</u> sp.
	(a) <u>Hyalomma aegyptium</u> ♀		(a) 3 ♀ <u>Hyalomma dromedarii</u>
	(b) <u>Boophilus australis</u> ♀		(b) 1 ♀ <u>Boophilus annulatus</u>
	(c) <u>Rhipicephalus sanguineus</u> ♀		(c) 1 ♀ <u>Rhipicephalus sanguineus</u>
	Sheep		Sheep
	Alexandria, Egypt		Alexandria (31.12 N, 29.54 E), Egypt
	XI.1912		XI.1912
	Dr. M. A. Ruffer		Dr. M. A. Ruffer 1926 (c) tentative identification; engorged specimen with a genital aperture suspiciously like that of <u>Rhipicephalus turanicus</u> .
N	1927	N	1927 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Camels		
	Alexandria, Egypt		
	XI.1912		
	Dr. M. A. Ruffer		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1928	N	1928
		RML	110850
	<u>Haemaphysalis punctata</u> ♀'s		4 ♀ <u>Haemaphysalis</u> sp.
	Goat		Goat
	Alexandria, Egypt		Alexandria (31.12 N, 29.54 E), Egypt
	XI.1912		XI.1912
	Dr. M. A. Ruffer		Dr. M. A. Ruffer
N	1929, a	N	1929
		RML	110851
	(1929) <u>Haemaphysalis punctata</u> ♂, ♀'s (a) <u>Hyalomma aegyptium</u> ♀		(1929) 1 ♂, 6 ♀ <u>Haemaphysalis</u> sp. (a) MISSING
	Sheep		Sheep
	Mersyne, Egypt		Mersyne, Egypt (locality not verified)
	XI.1912		XI.1912
	Dr. M. A. Ruffer		Dr. M. A. Ruffer
N	1930	N	1930
		RML	110852
	<u>Boophilus annulatus</u> ♂, ♀'s		1 ♂, 5 ♀ <u>Boophilus annulatus</u>
	Calf		Calf
	Tangiers, Morocco, North Africa		Tangier (35.48 N, 05.48 W), Morocco
	XI.1912		XI.1912
	Rec'd from Dr. Gabrielle Breeze, 29.XI.1912		Rec'd from Dr. Gabrielle Breeze, 29.XI.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N 1931

N 1931 MISSING

Boophilus annulatus ♂'s, ♀'s

Cattle

Tangiers, Morocco, North Africa

XI.1912

Rec'd. from Dr. Gabrielle Breeze,
29.XI.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N 1932

N 1932

Rhipicephalus sanguineus ♂'s, ♀'s

RML 110853

This collection of Rhipicephalus sanguineus is in 13 vials as follows:
 ♂ - 33, 62, 62; ♀ - 27, 26, 20, 36, 23; N - ±200, 393, 51, ±800; L - ±800, 7, ±3000, 26, ±1000; 1 vial of eggs

Dogs

Raised on dog and jackal

Central Research Institute, Kasauli, Punjab, India

Raised in Cambridge (52.13 N, 00.08 E), England. Parent stock from Kasauli (30.55 N, 76.57 E), India

X.1912

X.1912

Rec'd. from Captain C. D. Mackey I.M.S., 27.XI.1912

Rec'd. from Captain C. D. Mackey I.M.S., 27.XI.1912

(Sent originally to Major Christophers, who handed them to us)

There are also 10 vials of ticks to show variation in size due to nutrition - see Cunliffe (1914a; 372)

1 ♂, ♀'s N's, L's to Prof. Dr. Dahl, Berlin Museum VII.1914.

1 - 94 L; 2 - 11 N; 3 - 10 ♂; 4 - 10 ♀; 5 - 3 ♂; 6 - 6 ♂, 7 - 3 ♀; 8 - 5 ♀; 9 - 1 N; 10 - 1 N.

1 ♂, ♀'s, N's, L's to Prof. Dr. Schenkling, Deutsches Entomol. Mus. VII.1914.

Cited: Nuttall (1915: 448); Edwards & Evans (1967: 596).

1 ♂, ♀'s, N's, L's to Prof. Dr. R. Gestro, Museo Civico di Storia Nat. Genova VII.1914.

2 ♂, 2 ♀ to Launcelot Harrison, Australia 9.V.1919.

2 ♂, 2 ♀ to Prof. Poulton, Oxford 26.V.1919.

2 ♂, 2 ♀ to Prof. M. Jesus Maynar, Zaragoza, Spain 26.V.1919.

2 ♂, 2 ♀ to Prof. E. Hindle, Cambridge 24.IX.1919.

1 ♂, 1 ♀ to Major J.E.M. Boyd, Cambridge 20.XII.1919.

1 ♂, 1 ♀ to Dr. J. Gordon Thompson, London Sch. Trop. Med. 8.I.1920.

1 ♂, 1 ♀ to Dr. R. W. Hegner, Johns Hopkins, Baltimore 8.III.1920.

1 ♂, 1 ♀ to Dr. R. J. Tillyard, Nelson, N.Z. VI.1920.

1 ♂, 1 ♀ to Prof. Jules Bordet, Bruxelles, Belgium 30.VI.1920.

2 ♂, 2 ♀ to Prof. Sadeo Yoshida
 at Cambridge 21.XII.1920.
 2 ♂, 2 ♀ to P. A. Buxton at Cambridge
 10.II.1921.
 2 ♂, 2 ♀ to Dr. D. A. de Yong at
 Cambridge 8.IV.1921.
 2 ♂, 2 ♀ to Prof. G. Hedger-Wallace,
 Univ. of Wales, Cardiff 1921.
 1 ♂, 1 ♀ to Dr. Wm. Parry Morgan,
 Publ. Hlth, Dept., Cardiff, Wales
 12.X.1922.
 1 ♂, 1 ♀ to W. A. Pool, Indian Civil
 Veterinary Dept. 12.X.1922.
 1 ♂, 1 ♀ to L. P. W. Renouf, Biol.
 Dept., Univ. College, Cork, Ireland
 12.X.1922.
 1 ♂, 1 ♀ to Dr. A. Watkins Pitchford,
 Army Vet. School, Thornhill,
 Aldershot 12.X.1922.
 1 ♂, 1 ♀ to Prof. J. Hjort, Univ. of
 Christiana, Norway 12.X.1922.
 1 ♂, 1 ♀ to Dr. E. Roubaud, Inst.
 Pasteur, Paris 12.X.1922.
 1 ♂, 1 ♀ to Dr. E. Brumpt, Ecole
 Medicine, Paris 12.X.1922.
 1 ♂, 1 ♀ to J.E.M. Mellor, Malvern College,
 Malvern 16.X.1922.
 1 ♂, 1 ♀ to Prof. A. Bettencourt, Inst.
 Camara Pestana, Lisbon 7.XI.1922.
 2 ♂, 2 ♀ to Dr. S. H. Daukes,
 Wellcome Bureau, London 9.I.1924.
 1 ♂, 1 ♀ to I. C. Ross, Univ. of
 Sydney, Australia
 All stages to Prof. R. A. Cooley,
 Montana V.1928.
 2 ♂, 2 ♀, N's, L's to Prof. R. Matheson,
 Cornell 27.V.1929.
 2 ♂, 2 ♀, N's, L's to Prof. J. Drbohlav,
 Prague 30.V.1929.
 2 ♂, 2 ♀, N's, L's to Dr. A. C. Reed,
 San Francisco 30.V.1929.
 1 ♂, 2 ♀, N's, L's to Prof. E. Molvoz,
 Liege 30.V.1929.
 1 ♂, 2 ♀, N's, L's to E. T. Boardman,
 Univ. Florida, Gainesville 30.V.1929.
 1 ♂, 2 ♀, N's, L's to R. W. Mettam,
 Weybridge IV.1931.
 1 ♂, 2 ♂, N's, L's to H. S. Purchase
 IV.1931.
 2 ♂, 2 ♀, to Prof. D'Arcy Thompson
 XI.1931.

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received from the Liverpool School of Tropical Medicine, The University, Liverpool, 30.XI.1912:

N	1933	N	1933 MISSING
	<u>Haemaphysalis leachi</u> ♂, ♀		
	Lioness		
	Mpamadzi River, N.E. Rhodesia		
	9.IX.1911		
	Dr. A. Kinghorn		
N	1934	N	1934
	<u>Amblyomma marmoreum</u> ♂	RML	110854
	Rhinoceros		1 ♂ <u>Amblyomma sparsum</u>
	Nowalia, N.E. Rhodesia		<u>Diceros bicornis</u>
	6.VIII.1911		Possibly Nawala (16.35 S, 23.50 E), Zambia
	Dr. A. Kinghorn		6.VIII.1911
			Dr. A. Kinghorn
			Cited: Robinson (1926: 90); Theiler & Salisbury (1959: 114) cited the collector as Dr. A. King.
N	1935	N	1935
	<u>Amblyomma dissimile</u>	RML	110855
	<u>Boa constrictor</u>		1 ♂ <u>Amblyomma dissimile</u>
	South America (probably upper Amazon)		<u>Boa constrictor</u>
	27.CI.1912		South America (probably upper Amazon)
	Dr. O'Connell		27.XI.1912
			Dr. O'Connell
			Robinson (1926: 167) considers this collection to be from Brazil.

Ticks received 28.XI.1912 from Dr. Longin Navás, Colegio del Salvador, Zaragoza, Spain, on 28.XI.1912, comprising 24 pinned specimens collected in Spain the name of the host not being mentioned on the labels. Navás met C. Warburton this year at the Congress of Entomology, held at Oxford. Found on vegetation or on the earth:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1936	N	1936
		RML	110856
	<u>Dermacentor reticulatus</u> 1 ♂, 2 ♀		1 ♂, 2 ♀ <u>Dermacentor niveus</u>
	♂ & 1 ♀ from Goloso, Spain 1 ♀ from Zaragoza, Spain		♂ & 1 ♀ perhaps from Golosa, Puerto (40.22 N, 06.28 W) and 1 ♀ from Zaragoza (41.38 N, 00.53 W), Spain
	♂ & 1 ♀ 3 & 9.IV.1901 1 ♀ 1896		♂ & 1 ♀ 3 & 9.IV.1901 1 ♀ 1896
	[I returned 1 ♂ & 2 ♀ also collected at these places 1896 and IV.1901.]		Pinned specimens Longinos Navas S.J. (1858-1938) Neuroptera specialist.
N	1937	N	1937
		RML	110857
	<u>Hyalomma aegyptium</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Hyalomma</u> sp.
	1 ♂ from Goloso, 1 ♂ from Chamartin, 1 ♀ from Zaragoza		1 ♂ perhaps Golosa, Puerto (40.22 N, 06.28 W), 1 ♂ Chamartin (locality not verified); 1 ♀ Zaragoza (41.38 N, 00.53 W), Spain
	1 ♂ (Goloso) 3.IV.1901 1 ♂ (Chamartin) 19.VI.1900; 1 ♀ III.1899		1 ♂ (Golosa), Puerto 3.IV.1901; 1 ♂ (Chamartin) 19.VI.1900; 1 ♀ III.1899
	[I returned 1 ♀ from Zaragoza VI.1898; 1 ♂, 1 ♀ from Goloso, 3 and 9.IV.1901; 1 ♂ from Sobradiel, 1898; 1 ♀ from Pardo, 17.IV.1900]		Pinned specimens

ORIGINAL DETERMINATIONCURRENT STATUS

N	1938	N	1938
		RML	110858
	<u>Rhipicephalus bursa</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus bursa</u>
	1 ♂ from Albarracin; ♀ from Moncayo		♂ from Albarracin (40.25 N, 01.26 W); ♀ from Moncayo (37.54 N, 02.36 W), Spain
	♂ 12.VII.?.; ♀ VII.1902		♂ 12.VII. ; ♀ VII.1902
	[I returned 1 ♂ & 1 ♀ from Zaragoza 1.IV and 17.V.1902; 2 ♀'s from Sobradiel VI.1898; 1 ♂ from Montseny, VII.1899; 1 ♀ from Chamartin 19.V.1900].		Pinned specimens
	<u>Haemaphysalis punctata</u> 1 ♀ labelled "Aracnido" V.1897 [returned to Dr. Navas]		
	Ticks received from Dr. W. B. Johnson (West African Medical Service), Zungeru N. Nigeria, West Africa, 2 December 1912:-		
N	1939, a-d	N	1939 b, c
		RML	110859
	(1939) <u>Boophilus decoloratus</u> ♂'s, ♀'s		(1939) MISSING
	(a) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(a) MISSING
	(b) <u>Rhipicephalus sanguineus</u> ♂, ♀		(b) 2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	(c) <u>Rhipicephalus simus</u> 1 ♂		(c) 1 ♂ <u>Rhipicephalus simus</u>
	(d) <u>Hyalomma aegyptium</u> 1 ♂		(d) MISSING
	Sheep		Sheep
	Kadiri, near Kano, N. Nigeria, West Africa		Kadiri (08.15 N, 11.03 E), Nigeria
	X.1912		X.1912
	Dr. W. B. Johnson		Dr. W. B. Johnson

	<u>CURRENT DETERMINATION</u>		<u>CURRENT STATUS</u>
N	1940 <u>Boophilus decoloratus</u> ♂'s, ♀'s Goats Zaria, N. Nigeria, West Africa IX.1912 Dr. W. B. Johnson	N	1940 MISSING
N	1941 <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s Dogs & horses in bush Zungeru, N. Nigeria, West Africa VI-X, 1912 Dr. W. B. Johnson	N RML	1941 110860 6 ♂, 8 ♀ <u>Rhipicephalus sanguineus</u> Dogs & horses in bush Zungeru (09.48 N, 06.09 E.), Nigeria VI-X, 1912 Dr. W. B. Johnson
N	1942, a (1942) <u>Hyalomma aegyptium</u> ♀'s, ♀'s (a) <u>Rhipicephalus sanguineus</u> ♂'s, N's Dogs Barielly, United Provinces, India XI.1912 Rec'd. from Captain W. F. Loughnan, R.A.M.C. 2.XII.1912	N RML	1942a 110861 (1942) MISSING (a) 2 ♂, 3 N <u>Rhipicephalus sanguineus</u> Dogs Barielly (28.22 N, 79.27 E), India XI.1912 Rec'd. from Captain W. F. Loughnan, R.A.M.C. 2.XII.1912

ORIGINAL DETERMINATIONCURRENT STATUS

N	1943, a, b	N	1943a, b
		RML	110862
	(1943) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(1943) MISSING
	(a) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		(a) 48 ♂, 17 ♀, 2 N <u>Rhipicephalus sanguineus</u>
	(b) <u>Boophilus australis</u> ♂'s, ♀'s, N's		(b) 3 ♂, 28 ♀, 17 N <u>Boophilus microplus</u>
	Buffaloes		Buffaloes
	Barielly, United Provinces, India		Barielly (28.22 N, 79.27 E), India
	XI.1912		XI.1912
	Rec'd from Captain W. F. Loughnan, R.A.M.C. 2.XII.1912		Rec'd from Captain W. F. Loughnan, R.A.M.C. 2.XII.1912
Ticks retained from the collection sent for determination by the Indian Museum (per Dr. Annandale), Calcutta, India, XI.1912. [See Report book]			
N	1944	N	1944
		RML	22316
	<u>Amblyomma sublaeve</u> ♂'s		9 ♂ <u>Amblyomma javanense</u>
	Pangolin (<u>Manis pentadactyla</u>)		<u>Manis pentadactyla</u>
	Nagpur, Central Provinces, India		Nagpur (21.09 N, 79.06 E), India
	29.VIII.1912		29.VIII.1912
	E. A. D'Abreu		E. A. D'Abreu
	[No. $\frac{1517}{17}$]		3 slides of dissections present ♂ hypostome ♂ spiracular plate ♂ legs I & IV Cited: Robinson (1926: 247).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1945	N	1945
	<u>Aponomma laeve</u> ♂'s	RML	110863
	Rat-snake		3 ♂ <u>Aponomma pattoni</u>
	Dhardeo, Mahabaleshwar District, W. Ghats, India		<u>Ptyas mucosus</u> or <u>P. korros</u>
	1912		Dhardeo, Mahabaleshwar District, W. Ghats, India (locality not verified)
	[No. $\frac{S.P.A.}{7}$]		1912
N	1946	N	1946
	<u>Haemaphysalis</u> sp. N's	RML	110864
	Tambi, Koyna Valley Satara District, India		17 N <u>Haemaphysalis</u> sp.
	24-26.IV.1912		Tambi, Koyna River Valley (17.18 N, 74.10 E), Satara District, India
	F. H. Gravely		24-26.IV.1912
	[No. $\frac{S.P.A.}{8}$]		F. H. Gravely
	Ticks received from Dr. Mercier Gamble, of Matadi, Belgian Congo, W.-Central Africa, 16.XII.1912:-		
N	1947	N	1947
	<u>Amblyomma splendidum</u> ♂'s, ♀'s	RML	110865
	Buffalo		32 ♂, 13 ♀ <u>Amblyomma splendidum</u>
	Portuguese Congo, Central Africa		<u>Syncerus caffer</u>
	I.1912		Angola
	Dr. M. Gamble		I.1912
	2 ♂, 1 ♀ to Prof. R. Matheson, Cornell 27.V.1929		Dr. M. Gamble
			Cited: Robinson (1926: 125).

CURRENT DETERMINATIONCURRENT STATUS

N	1948	N	1948
		RML	110866
	<u>Ornithodoros moubata</u>		3 ♂, 4 ♀, 1 N <u>Ornithodoros moubata</u>
	From houses		From houses
	Kibokolo do Zombo, Portuguese Congo, Central Africa		Quibocolo (06.17 S, 15.10 E), Angola
	IV-V.1912		IV-V.1912
	Dr. M. Gamble		Dr. M. Gamble
N	1949, a	N	1949
		RML	110867
	1949) <u>Rhipicephalus sanguineus</u> ♂'s ♀'s		(1949) 8 ♂, 7♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Haemaphysalis leachi</u> 1♂, 2 ♀		(a) MISSING
	Dog		Dog
	San Salvador, Portuguese Congo, Central Africa		São Salvador do Congo (06.16 S, 14.15 E), Angola
	XI.1912		XI.1912
	Dr. M. Gamble		Dr. M. Gamble The collections comprising N1947-1950 were cited without Nuttall numbers by Gamble (1914:148,149)
N	1950, a-c	N	1950 a-c
		RML	110868
	(1950) <u>Haemaphysalis leachi</u> ♂'s, ♀'s		(1950) MISSING
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 4♂, 6♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Rhipicephalus sanguineus</u> ♂'s		(b) 2 ♂, 3 ♀ <u>Rhipicephalus sanguineus</u>
	(c) <u>Rhipicephalus lunulatus</u> ♂		(c) 1 ♂ <u>Rhipicephalus lunulatus</u>
	Dog		Dog
	Kibokolo do Zombo, Portuguese Congo, Central Africa		Quibocolo (06.17 S, 15.10 E), Angola
	IV.1911		IV.1911
	Dr. M. Gamble		Dr. M. Gamble

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1951	N	1951 MISSING
	<u>Argas persicus</u>		
	From "General Collection," Claremont, U.S. America		
	1912		
	(No other data)		
N	1952	N	1952 MISSING
	<u>Ixodes ricinus</u> ♂, ♀		
	From "General Collection," Claremont, U.S. America		
	1912		
	(No other data)		
N	1953	N	1953
		RML	110869
	<u>Dermacentor occidentalis</u> ♂		1 ♂ <u>Dermacentor occidentalis</u>
	From "General Collection," Claremont, U.S. America		From "General Collection," Claremont, U.S. America
	1912		1912
	(No other data)		
N	1954	N	1954
		RML	110870
	<u>Haemaphysalis leporis</u> ♀ (small form)		1 ♂, 3 ♀ <u>Haemaphysalis leporis</u> <u>palustris</u>
	From "General Collection," Claremont, U.S. America		From "General Collection," Claremont, U.S. America
	1912		1912
	(No other data)		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1955	N	1955
		RML	110871
	<u>Amblyomma</u> sp. N's		1 N <u>Amblyomma</u> sp.
	From "General Collection," Claremont, U.S. America		From "General Collection," Claremont, U.S. America
	1912		1912
	(No other data)		Not a North American species [J.E.K.]
N	1956, a	N	1956, a
		RML	110872
	(1956) <u>Boophilus decoloratus</u> ♀'s (a) <u>Hyalomma aegyptium</u> N's		(1956) 1 ♂, 5 ♀ <u>Boophilus decoloratus</u> (a) 12 N <u>Amblyomma variegatum</u>
	Horse		Horse
	Bole, Northern Territories, Gold Coast, West Africa		Bole (09.02 N, 02.29 W), Ghana
	XI.1912		XI.1912
	Dr. F. G. Thompson		Dr. F. G. Thompson
N	1957	N	1957 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s		
	Native cow		
	St. Augustice, Trinidad, West Indies		
	4.XII.1912		
	Prof. P. Carmody		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1958, a	N	1958, a
		RML	71481
	(1950) <u>Haemaphysalis bispinosa</u> ♂'s, ♀'s		(1958) 9♀ <u>Haemaphysalis intermedia</u>
	(a) <u>Rhipicephalus haemaphysaloides</u> ♂, ♀		(a) 3 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Sheep		Sheep
	Agricultural College Farm, Coimbatore, S. India		Agricultural College Farm, Coimbatore (11.00 N, 76.58 E), India
	1912		1912
	T. Bainbrigge Fletcher		T. Bainbrigge Fletcher
N	1959	N	1959
		RML	110873
	<u>Ornithodoros savignyi</u> 1 ♀		1 ♂, 4 ♀, 1 N <u>Ornithodoros savignyi</u>
	"Crawling on the ground"		"Crawling on the ground"
	Tiruppur, Combatore District, S. India		Tiruppur, (11.06 N, 77.21 E), India
	VI.1912		VI.1912
	T. Bainbrigge Fletcher		T. Bainbrigge Fletcher
			Note in vial "raised in Cambridge, descended from ticks rec'd. from S. India VI.1912."
	Ticks received from Dr. John D. Gimlette, of Kota Bharu, Kelantan, Malay Peninsula, 1.I.1913:-		
N	1960	N	1960
		RML	110874
	<u>Boophilus australis</u> 1 ♂, ♀'s		3 ♂, 46 ♀, <u>Boophilus microplus</u>
	Buffalo		Buffalo
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	16.XI.1912		16.XI.1912
	J. D. Gimlette		J. D. Gimlette

ORIGINAL DETERMINATIONCURRENT STATUS

N	1961	N	1961
		RML	110875
	<u>Boophilus australis</u> ♂'s, ♀'s		7 ♂, 44 ♀, 2 N <u>Boophilus microplus</u>
	Stag		Stag
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00E), Malaysia
	27.XI.1912		27.XI.1912
	J. D. Gimlette		J. D. Gimlette
N	1962	N	1962
		RML	110876
	<u>Boophilus australis</u> ♀'s & N's		2 ♀, 3 N <u>Boophilus microplus</u>
	Bull		Bull
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	27.XI.1912		27.XI.1912
	Dr. J. D. Gimlette		Dr. J. D. Gimlette
N	1963	N	1963
		RML	110877
	<u>Boophilus australis</u> ♀'s & N's		2 ♀, 1 N <u>Boophilus microplus</u>
	Calf		Calf
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	10.XI.1912		10.XI.1912
	Dr. J. D. Gimlette		Dr. J. D. Gimlette

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1964	N	1964
		RML	110878
	<u>Boophilus australis</u> L's & N's		3 N, 2 L <u>Boophilus microplus</u>
	Goat		Goat
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	27.XI.1912		27.XI.1912
	Dr. J. D. Gimlette		Dr. J. D. Gimlette
N	1965	N	1965
		RML	110879
	<u>Boophilus australis</u> ♀'s		9 ♀, 1 N <u>Boophilus microplus</u>
	Bull		Bull
	Kota Bharu, Kelantan, Malay Peninsula		Kota Bharu, Kelantan State (05.20 N, 102.00 E), Malaysia
	10.XI.1912		10.XI.1912
	Dr. J. D. Gimlette		Dr. J. D. Gimlette
N	1966	N	1966
		RML	110880
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s & N's		42 ♂, 39 ♀, 3 N <u>Rhipicephalus sanguineus</u>
	Chow dog		Chow dog
	Hong Kong, China		Hong Kong (22.15 N, 114.11 E)
	13.XII.1912		13.XII.1912
	Dr. F. Lindsay-Woods		Dr. F. Lindsay-Woods

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1967	N	1967
		RML	110881
	<u>Boophilus australis</u> ♀'s		15 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Mayaguez, Porto Rico, West Indies		Mayaguez (18.12 N, 67.09 W), Puerto Rico
	17.XII.1912		17.XII.1912
	Rec'd from Dr. C. W. Hooker		Charles Worcester Hooker (1883-1913) Entomologist to the Federal Experiment Station and plant inspector of the port of Mayaguez, Puerto Rico. Died at age 30 of appendicitis
N	1968	N	1968
		RML	110882
	<u>Boophilus annulatus</u> ♀'s		5 ♀, 4 N <u>Anocentor nitens</u>
	Horse		Horse
	Mayaguez, Porto Rico, West Indies		Mayaguez (18.12 N, 67.09 W), Puerto Rico
	7.VIII.1912		7.VIII.1912
	Rec'd from Dr. C. W. Hooker 8.I.1913		Rec'd from Dr. C. W. Hooker 8.I.1913
	Ticks received from Dr. A. Brown, Serenje, N. Rhodesia, B.C. Africa, 13.I.1913:-		
N	1969	N	1969
		RML	110883
	<u>Boophilus decoloratus</u> ♀'s		22 ♀ <u>Boophilus decoloratus</u>
	Cow		Cow
	Serenje, N. Rhodesia		Serenje (13.14 S, 30.14 E), Zambia
	XII.1912		XII.1912
	Dr. A. Brown		Dr. A. Brown

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1970	N	1970 MISSING
	<u>Ornithodoros moubata</u> "human ticks"		
	Serenje, N. Rhodesia		
	XII.1912		
	Dr. A. Brown		
	2 adults, N's to Prof. Dr. Dahl, Berlin Museum VII.1914.		
	2 adults, N's to Prof. Dr. S. Schenkling, Deutsches Entomol. Mus. VII.1914.		
	2 adults, N's to Prof. Dr. R. Gestro, Museo Civico di Storia Nat. Genova VII.1914.		
N	1971, a	N	1971a
	(1971) <u>Haemaphysalis leachi</u> ♀'s (a) <u>Rhipicephalus capensis</u> ♀	RML	110884
	Dog		(1971) MISSING (a) 1 ♀ <u>Rhipicephalus compositus</u>
	Serenje, N. Rhodesia		Dog
	XII.1912		Serenje (13.14 S, 30.14 E), Zambia
	Dr. A. Brown		XII.1912
			Dr. A. Brown
	Ticks received from Dr. J.G..F. Hosken, Morro Vellis, Villa Nova de Lima, Minas Geraes, Brazil, South America, 14.I.1913:-		
N	1972	N	1972 MISSING
	<u>Amblyomma cajennense</u> N's		
	Dog		
	Minas Geraes, Brazil, S. America		
	XII.1912		
	Dr. J.G.F. Hosken		

ORIGINAL DETERMINATIONCURRENT STATUS

N	1973	N	1973
		RML	110885
	<u>Amblyomma cajennense</u> ♀'s & N's		4 ♀, 3 N <u>Amblyomma cajennense</u>
	Horse		Horse
	Minas Geraes, Brazil, S. America		Estado do Minas Gerais (18.00 S, 44.00 W), Brazil
	XII.1912		XII.1912
	Dr. J.G.F. Hosken		Dr. J.G.F. Hosken
			Cited: Robinson (1926: 53).
N	1974, a	N	1974
		RML	110886
	(1974) <u>Boophilus australis</u> ♀'s		(1974) 3 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma cajennense</u> 1 ♀		(a) MISSING
	Bullock		Bullock
	Minas Geraes, Brazil, S. America		Minas Gerais (18.00 S, 44.00 W), Brazil
	XII.1912		XII.1912
	Dr. J.G.F. Hosken		Dr. J.G.F. Hosken
	Ticks received from E. J. Wortley, Esq., Department of Agriculture, Hope, Kingston P.O., Jamaica, West Indies, 16 January 1913:-		
N	1975, a, b	N	1975a
		RML	110887
	(1975) <u>Amblyomma cajennense</u> 2 ♂'s		(1975) MISSING
	(a) <u>Dermacentor nitens</u> ♂'s, ♀'s & N		(a) 27 ♂, 14 ♀, 12 N <u>Anocentor nitens</u>
	(b) <u>Boophilus australis</u> ♂'s, ♀'s		(b) MISSING
	Ears of horses		Horses
	Hope, Jamaica, West Indies		Hope, Jamaica (locality not verified; 5 possible localities)
	6.XII.1912		6.XII.1912
	E. J. Wortley		E. J. Wortley

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1976	N	1976
		RML	110888
	<u>Boophilus annulatus</u> ♀'s & eggs		10 ♀ <u>Boophilus microplus</u>
	Cow (suffering from Texas fever)		Cow
	Hope, Jamaica, West Indies		Hope, Jamaica (locality not verified; 5 possible localities)
	4.XII.1912		4.XII.1912
	E. J. Wortley		E. J. Wortley
N	1977	N	1977
		RML	110889
	<u>Argas persicus</u>		1 ♂, 5 ♀ <u>Argas miniatus</u>
	Fowls		Fowls
	Hope, Jamaica, W. Indies		Hope, Jamaica (locality not verified; 5 possible localities)
	XII.1912		XII.1912
	E. J. Wortley		E. J. Wortley
	[Some alive. Try on fowl to see if infected with <u>Spirochaetosis</u>]		1 ♀ is considered a tentative identification because of a destroyed genital aperture. 1 cast skin is also present
N	1978	N	1978 MISSING
	<u>Boophilus annulatus</u> ♀'s & L		
	Cow (suffering from Texas fever)		
	Hope, Jamaica, W. Indies		
	4.XII.1912		
	E. J. Wortley		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1979	N	1979
		RML	110890
	<u>Haemaphysalis howletti</u> 1 ♂, 1 ♀ TYPES		1 ♂, 1 ♀ <u>Haemaphysalis howletti</u> Lectotype & Paralectotype
	Hill pony		Hill pony
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan
	?Date		?Date
	F. M. Howlett		F. M. Howlett
			Warburton (1913: 123, figs. 2, 3) original description. Nuttall & Warburton (1915: 494), stated the collection date as 1912; Dhanda (1964: 459). Lectotype designated: Keirans & Brewster (1981: 161).
N	1980	N	1980 MISSING
	<u>Haemaphysalis aborensis</u> TYPE!		
	Grass		
	Yambung (1,100 ft.) India		
	13-17.I.1912		
	S. W. Kemp		
	Indian Mus. <u>1251</u> 17		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1981	N	1981
		RML	70082
	<u>Haemaphysalis aciculifer</u> 1 ♂, 1 ♀ TYPES		1 ♂, 1 ♀ <u>Haemaphysalis aciculifer</u> Lectotype and paralectotype
	<u>Cobus thomasi</u>		<u>Kobus kob thomasi</u>
	N.E. Shore of Lake Edward, Uganda		N.E. Shore of Lake Edward (00.25 S, 29.30 E), Uganda
	X.1910		X.1910
	S. A. Neave		S. A. Neave
	[ex. Ent. Res. Com 463a]		Warburton (1913: 125, figs. 4, 5) original description. Nuttall & Warburton (1915: 413) cited this collection but did not give a Nuttall number. Hoogstraal & El Kammah (1972: 765). Lectotype designated: Keirans & Brewster (1981: 158).
N	1982	N	1982
		RML	110891
	<u>Boophilus australis</u> ♀'s		93 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Hong Kong, China		Hong Kong (22.15 N, 114.11 E)
	XII.1913		XII.1913
	Rec'd from Dr. J. Bell, Superintendent, Civil Hospital, Hong Kong		Rec'd from Dr. J. Bell Superintendent, Civil Hospital, Hong Kong

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1983	N	1983
		RML	110892
	<u>Boophilus annulatus</u>		57 ♂ <u>Boophilus annulatus</u>
	On skin of cattle		Cattle
	Bagdad, Asiatic Turkey		Baghdad (33.21 N, 44.25 E), Iraq
	Rec'd 21.I.1913		Rec'd 21.I.1913
	Rec'd from Professor E. Gotschlich, of Alexandria, Egypt		Rec'd from Professor E. Gotschlich, of Alexandria, Egypt
N	1984	N	1984
		RML	110893
	<u>Aponomma</u> sp. N's		11 N, 12 L <u>Amblyomma</u> sp.
	Coral snake (<u>Elaps</u> sp.)		<u>Elaps</u> sp.
	Panama, Central America		Panama
	XII.1912		XII.1912
	Dr. S. T. Darling		Dr. S. T. Darling
N	1985	N	1985
		RML	110894
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's		3 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Chiengmai, Siam		Chiang Mai (18.47 N, 98.59 E), Thailand
	27.XI.1912		27.XI.1912
	Dr. A. G. Kerr		Dr. A. G. Kerr

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1986	N	1986
		RML	110895
	<u>Boophilus australis</u> 1♂, ♀'s & N's		1 ♂, 10 ♀, 6 N <u>Boophilus microplus</u>
	Cattle		Cattle
	Chiengmai, Siam		Chiang Mai (18.47 N, 98.59 E), Thailand
	28.XI.1912		28.XI.1912
	Dr. McKean		Dr. McKean
	Received from Dr. A.F.G. Kerr, Chiengmai, Siam, Farther India, 28.I.1913		
N	1987	N	1987
		RML	110896
	<u>Haemaphysalis hirudo</u>		2 ♀ <u>Haemaphysalis concinna</u>
	Amur River, E. Siberia		Amur River (52.56 N, 141.10 E), U.S.S.R.
	28.VI.1899		28.VI.1899
	Dickmann		Dickmann
	[Presented to Professor G.H.F. Nuttall, F.R.S., by the Hamburg Museum, Germany (per Prof. Dr. v. Brunn), 27.I.1913]		Cited: Nuttall & Warburton (1915: 457) but without Nuttall number.
N	1988	N	1988
		RML	110897
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		86 ♂, 22 ♀, 6 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Hong Kong, China		Hong Kong (22.15 N, 114.11 E)
	I.1913		I.1913
	Rec'd from Dr. J. Bell 29.I.1913		Rec'd from Dr. J. Bell, 29.I.1913
			This collection also contained 2 ♀ <u>Heterodoxus spiniger</u> (Mallophaga)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1989	N	1989
		RML	110898
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		4 ♂, 8 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Hyderabad, Deccan, India		Hyderabad (17.23 N, 78.28 E), India
	15.XII.1912		15.XII.1912
	Rec'd from Dr. S. Mallanah 3.II.1913		Rec'd from Dr. S. Mallanah 3.II.1913
N	1990, a	N	1990, a
		RML	110899
	(1990) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		(1990) 5 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Hyalomma aegyptium</u> ♀		(a) 1 ♀ <u>Hyalomma a. anatolicum</u>
	(1990) Dog		(1990) Dog
	(a) Horse		(a) Horse
	Hyderabad, Deccan, India		Hyderabad (17.23 N, 78.28 E), India
	9.I.1913		9.I.1913
	Rec'd from Dr. S. Mallanah, 3.II.1913		Rec'd from Dr. S. Mallanah, 3.II.1913
			1990a cited: Kaiser & Hoogstraal (1964: 272).
N	1991	N	1991
		RML	110900
	<u>Rhipicephalus sanguineus</u> ♂'s ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Brymbo near Wrexham, North Wales, Great Britain		Brymbo (53.04 N, 03.04 W), Wales
	XII.1912		XII.1912
	Dr. R. E. Montgomery		Dr. R. E. Montgomery

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	1992, a (1992) <u>Boophilus australis</u> ♂'s ♀'s (a) <u>Amblyomma cajennense</u> 1 ♀ Sheep Hope, Jamaica, West Indies 4.XII.1912 E. J. Wortley	N	1992, a RML 110901 (1992) MISSING (a) 1 ♀ <u>Amblyomma cajennense</u> Sheep Hope, Jamaica (locality not verified; 5 possible localities) 4.XII.1912 E. J. Wortley Cited: Robinson (1926: 53).
N	1993 <u>Boophilus australis</u> ♀'s Half-bred Zebu Trinidad, West Indies 5.XII.1912 Rec'd from Professor P. Carmody, 4.II.1913	N	1993 MISSING
N	1994 <u>Boophilus australis</u> ♀'s Bull, pure-bred short-horn Trinidad, West Indies 5.XII.1912 Prof. P. Carmody	N	1994 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	1995	N	1995	MISSING
	<u>Argas persicus</u>			
	From cracks in woodwork of fowl house			
	Kingston, Jamaica, West Indies			
	I.1913			
	Rec'd from E. J. Barclay, Esq., Sec'y., Jamaica Agricultural Society, 27.I.1913			
N	1996	N	1996	MISSING
	<u>Haemaphysalis cornigera</u> var. <u>anomala</u>			
	1 ♂ TYPE			
	Wolf			
	4 miles W. of Koderma Station, Chota Nagpur, India			
	9.VIII.1912			
	Major O. A. Smith			
	[Indian Mus. Coll. $\frac{1524}{17}$ a]			
N	1997	N	1997	
		RML	110902	
	<u>Haemaphysalis kinneari</u> 1 ♀ TYPE!		1 ♀ <u>Haemaphysalis kinneari</u> Holotype	
	Tiger (<u>Felis tigris</u>)		<u>Panthera tigris</u>	
	Kadra, Kanara, India		Kadra (14.54 N, 74.22 E), India	
	XI.1910		XI.1910	
	N. B. Kinnear		N. B. Kinnear	
			♀ vulva mounted on a slide Warburton (1913: 127, fig. 6) original description. Cited: Nuttall & Warburton (1915: 398); Trapido et al (1964a: 178).	

ORIGINAL DETERMINATIONCURRENT STATUS

N	1998	N	1998
		RML	110903
	<u>Haemaphysalis spinigera</u> ♂ & ♀		1 ♂, 1 ♀ <u>Haemaphysalis spinigera</u>
	Tiger (<u>Felis tigris</u>)		<u>Panthera tigris</u>
	Kadra, Kanara, India		Kadra (14.54 N, 74.22 E), India
	XI.1910		XI.1910
	N. B. Kinnear		N. B. Kinnear
			Cited & figured: Nuttall & Warburton (1915: 448,449).
	Ticks received from Dr. S. T. Darling, Board of Health Laboratory, Ancon, Canal Zone, Panama, 7.II.1913:-		
N	1999	N	1999
		RML	110904
	<u>Dermacentor nitens</u> ♂'s		3 ♂ <u>Anocentor nitens</u>
	Horse		Horse
	Ancon, Panama		Ancon (09.58 N, 79.33 W), Panama
	13.I.1913		13.I.1913
	Dr. S. T. Darling		Dr. S. T. Darling
	Horse suffering from piroplasmiasis		
N	2000	N	2000
		RML	110905
	<u>Amblyomma cajennense</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma cajennense</u>
	Horse		Horse
	Ancon, Panama		Ancon (08.58 N, 79.33 W), Panama
	13.I.1913		13.I.1913
	Dr. S. T. Darling		Dr. S. T. Darling
			Cited: Robinson (1926: 53).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2001

N 2001

RML 22312

Amblyomma integrum 3 ♀'s3 ♀ Amblyomma integrum

Taken off "own person"

Homo sapiens

Ceylon

Sri Lanka

Rec'd. II.1913

Rec'd. II.1913

Mr. J. S. Fryer

Mr. J. S. Fryer

L.E.R. det. 1926

Three slides of dissections

♀ hypostome

♀ spiracular plate

♀ legs I & IV

Cited: Robinson (1926: 114).

Ticks retained from those sent for determination by Mr. B. Kinnear, Bombay, India; rec'd. 4.XI.1912:-

N 2002

N 2002

RML 110906

Haemaphysalis bispinosa ♀1 ♀ Haemaphysalis turturisTiger (Felis tigris)Panthera tigris

Kadra, Kanara, India

Kadra (14.54 N, 74.22 E), India

XI.1910

XI.1910

N. B. Kinnear

Cited: Nuttall & Warburton
(1915:432).C. W. det. as H. bispinosa 1933.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2003

Haemaphysalis leachi var.
indica ♂'s, 1 ♀, 1 NCanis indicus

Alibagh, Bombay, India

25.I.1912

N. B. Kinnear

(Rec'd. with Nos. 1997 & 1998)

N 2003

RML 110907

2 ♂, 1 ♀, 2 N Haemaphysalis indicaCanis aureus indicus

Alibag (18.39 N, 42.54 E), India

25.I.1912

N. B. Kinnear

Nymphal determinations tentative.
Vial label for the nymphs is
incorrectly numbered N 2002.Ticks received from Dr. J. Preston Maxwell, The Hospital, Yungchun, via
Amoy, China, 10. February, 1913:-

N 2004

Boophilus australis ♂'s, ♀'s

Cow

Central Fukien, South China

XI.1912

Dr. J. Preston Maxwell

N 2004

RML 110908

1 ♂, 61 ♀ Boophilus microplus

Cow

Fukien Province, now Fu-Chien Sheng
(26.00 N, 118.00 E), Peoples Republic
of China

XI.1912

Dr. J. Preston Maxwell

ORIGINAL DETERMINATIONCURRENT STATUS

N	2005	N	2005
		RML	110909
	<u>Boophilus australis</u> ♂'s, ♀'s		8 ♂, 23 ♀, 3 N <u>Boophilus microplus</u>
	Goat		Goat
	Central Fukien, South China		Fukien Province now Fu-Chien Sheng (26.00 N, 118.00 E), Peoples Republic of China
	XI.1912		XI.1912
	Dr. J. Preston Maxwell		Dr. J. Preston Maxwell
N	2006	N	2006
		RML	110910
	<u>Haemaphysalis</u> sp. nymphs		8 N <u>Haemaphysalis</u> sp.
	Dog		Dog
	Central Fukien, South China		Fukien Province now Fu-Chien Sheng (26.00 N, 118.00 E), Peoples Republic of China
	XI.1912		XI.1912
	Dr. J. Preston Maxwell		Dr. J. Preston Maxwell
N	2007	N	2007
		RML	110911
	<u>Boophilus australis</u> ♂'s, ♀'s		6 ♂, 56 ♀, 1 N <u>Boophilus microplus</u>
	Cow		Cow
	Central Fukien, South China		Fukien Province now Fu-Chien Sheng (26.00 N, 118.00 E), Peoples Republic of China
	XI.1912		XI.1912
	Dr. J. Preston Maxwell		Dr. J. Preston Maxwell

Two tubes of ticks received from Dr. E. M. Ehrhorn, Board of Commissioners of Agriculture and Forestry (Division of Entomology), Honolulu, Hawai Islands, 18 February, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2008	N	2008
		RML	110912
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N		1 ♂, 1 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Honolulu, Hawai Islands		Honolulu (21.19 N, 157.52 W) Hawaii, U.S.A.
	20.VIII.1912		20.VIII.1912
	E. M. Ehrhorn		E. M. Ehrhorn
			Edward Macfarlane Ehrhorn (1862-1941), educated in Germany 1871-1878. One of the pioneer workers in plant quarantine began working in Honolulu in 1909. Died 11.II.1941 at age 79.
N	2009	N	2009
		RML	110913
	<u>Rhipicephalus sanguineus</u> ♀'s		4 ♂, 8 ♀ <u>Rhipicephalus sanguineus</u>
	"in shed where dog was sleeping"		"in shed where dog was sleeping"
	Honolulu, Hawai Islands		Honolulu (21.19 N, 157.52 W) Hawaii, U.S.A.
	22.I.1913		22.I.1913
	E. M. Ehrhorn		E. M. Ehrhorn

ORIGINAL DETERMINATIONCURRENT STATUS

N	2010	N	2010
		RML	110914
	<u>Amblyomma dissimile</u> ♂'s, ♀'s, N's		10 ♂, 1 ♀, 9 N <u>Amblyomma dissimile</u>
	Snake		Snake
	Trinidad, British West Indies		Trinidad
	II.1913		II.1913
	Rec'd from Professor P. Carmody, 19.II.1913		Rec'd from Professor P. Carmody, 19.II.1913
			Cited: Robinson (1926: 167).
<p>Ticks retained from collection sent for determination by Dr. J. H. Ashworth, Zoological Dep't., The University, Edinburgh, N.B., 19 February, 1913:-</p>			
N	2011	N	2011
		RML	66664
	<u>Ornithodoros savignyi</u>		11 ♂, 6 ♀, 316 N <u>Ornithodoros savignyi</u>
	No data		See N 1550 for comment relating to this collection
	J.H.A.		
	[Used for raising experiments]		
N	2012	N	2012 MISSING
	<u>Haemaphysalis leachi</u> ♀		
	Dog		
	Bongandanga, Upper Congo, Africa		
	1912		
	W. D. Armstrong		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2013	N	2013
		RML	110915
	<u>Argas persicus</u> larvae		4 L <u>Argas persicus</u>
	Fowl		Fowl
	Sokoto, N. Nigeria, West Africa		Sokoto (13.04 N, 05.15 E), Nigeria
	1912		1912
	Dr. J. M. Dalziel		Dr. J. M. Dalziel
N	2014	N	2014
		RML	110916
	<u>Aponomma exornatum</u> 2 ♂'s		2 ♂ <u>Aponomma exornatum</u>
	<u>Varanus niloticus</u>		<u>Varanus niloticus</u>
	Benin River, West Africa		Benin River (05.45 N, 05.04 E), Nigeria
	1912		1912
N	2015	N	2015
		RML	110917
	<u>Aponomma</u> sp. N's		3 N <u>Aponomma</u> sp.
	<u>Varanus niloticus</u>		<u>Varanus niloticus</u>
	Benin River, West Africa		Benin River (05.45 N, 05.04 E), Nigeria
	X.1912		X.1912
	Stewart		Stewart

ORIGINAL DETERMINATIONCURRENT STATUS

N	2016	N	2016	MISSING
	<u>Boophilus australis</u> 2 ♂'s, ♀'s			
	Ox			
	Dominica, Leeward Islands			
	31.I.1913			
	Dr. A. A. Myers			
	Rec'd 19.II.1913			
N	2017	N	2017	
		RML	110918	
	<u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s, ♀		6 ♂, 2 ♀ <u>Aponomma pattoni</u>	
	Tuberculated Iguanas		Iguanas, tuberculated	
	Zoological Society's Gardens, London N.W.		Zoological Society's Gardens, London, England	
	II.1913		II.1913	
	(Original locality not mentioned) [Z S "36"]			

Ticks received back from the Imperial Bureau of Entomology (ex Report No. 26), London, S.W., 21.II.1913.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2018	N	2018
		RML	110919
	<u>Amblyomma tholloni</u> 3 ♂'s		3 ♂ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Near Kafu River, Uganda, Africa		Near Kafu River (00.05 S, 30.09E), Uganda
	24.X.1912		24.X.1912
	F. A. Knowles		F. A. Knowles
	"611"		There are 3 other rivers named Kafu in Uganda. However, I have selected this as the most logical collecting site because the Entomological Research Committee, forerunner of the Imperial Bureau of Entomology, is known to have been working in the Kingdom of Ankole within which this river Kafu flows - see also N 1717.
			Cited: Robinson (1926: 2 ⁵²).
N	2019	N	2019
		RML	110920
	<u>Dermacentor circumguttatus</u> ♂'s, 1 ♀		3 ♂, 1 ♀ <u>Dermacentor circumguttatus</u>
	Elephant		<u>Loxodonta africana</u>
	Near Kafu River, Uganda, Africa		Near Kafu River (00.05 S, 30.09 E), Uganda
	24.X.1912		24.X.1912
	F. A. Knowles		F. A. Knowles
	"612"		See comment under N 2018

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2020	N	2020
		RML	110921
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Shot near Mchera River, Ankole, Uganda, Africa		Possibly Mchuera now Nchwera River (00.25 S, 29.45 E), Uganda
	22.VIII.1912		22.VIII.1912
	Dr. R. E. McConnell		Dr. R. E. McConnell
	"613"		Cited: Robinson (1926: 110).
N	2021	N	2021
		RML	110922
	<u>Ornithodoros moubata</u>		3 ♂, 2 ♀, 3 N <u>Ornithodoros moubata</u>
	Old native hut		Old native hut
	Caia, Zambesi River, Portuguese East Africa		Caia (25.19 S, 32.58 E), Peoples Republic of Mozambique
	1912		1912
	Dr. H. Swale		Dr. H. Swale
	"616"		Probably <u>O. moubata porcinus</u>
N	2022	N	2022
		RML	110923
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		2 ♂, 3 ♀ <u>Amblyomma variegatum</u>
	Sena, Portuguese East Africa		Vila de Sena (17.26 S, 35.02 E), Peoples Republic of Mozambique
	22.II.1910		22.II.1910
	Senhor José de O. S. de Azevedo		Senhor José de O. S. de Azevedo
	"626"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2023	N	2023
		RML	110924
	<u>Ornithodoros lahorensis</u> N's		25 N <u>Ornithodoros lahorensis</u>
	Sheep		Sheep
	Srinagar, Kashmir, India		Srinagar (34.05 N, 74.49 E), India
	I.1913		I.1913
	Rec'd from Dr. A. Neve 22.II.1913		Rec'd from Dr. A. Neve 22.II.1913
<p>Ticks received from Dr. Thomas S. Dunn, Assistant Commissioner, Hlatikule, Swaziland, Transvaal, S. Africa 24.II.1913:-</p>			
N	2024	N	2024
		RML	110925
	<u>Ornithodoros moubata</u>		4 ♂, 4 ♀, 10 N <u>Ornithodoros moubata</u>
	From huts		From huts
	Hlatikul ^u , Swaziland, S. Africa		Hlatikulu District (27.00 S, 31.40 E), Republic of South Africa
	23.I.1913		23.I.1913
	Dr. T. S. Dunn		Dr. T. S. Dunn
	[Note: Said by natives to cause "Fever." Native name: "Mahonondo"]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2025, a, b

N 2025, a, b

RML 110926

(2025) Rhipicephalus
appendiculatus ♂'s, ♀'s
(a) Rhipicephalus evertsi ♂
(b) Rhipicephalus simus ♀

(2025) 4 ♂, 5 ♀ Rhipicephalus
appendiculatus
(a) 1 ♀ Rhipicephalus evertsi
(b) 1 ♀ Rhipicephalus simus

Horse (English mare)

Horse

Hlatiulu, Swaziland, S. Africa

Hlatikulu District (27.00 S, 31.40 E),
Republic of South Africa

23.I.1913

23.I.1913

Dr. T. S. Dunn

Dr. T. S. Dunn

Horse suffering from biliary fever

N 2026

N 2026

RML 110927

Rhipicephalus simus ♂'s, ♀'s4 ♂, 3 ♀ Rhipicephalus simus

Dogs

Dogs

Hlatikulu (4,000 ft),
Swaziland, S. AfricaHlatikulu District (27.00 S, 31.40 E),
Republic of South Africa

28.I.1913

28.I.1913

Dr. T. S. Dunn

Dr. T. S. Dunn

Ticks received from Dr. W. C. Wigan, U.M.C.A. Mpondar, Fort Johnston, Nyasaland, B. C. Africa 24.II.1913:-

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	2027	N	2027 MISSING
	<u>Ornithodoros moubata</u>		
	From a boy's dormitory		
	Malindi, Brit. East Africa		
	I. 1913		
	Dr. W. C. Wigan		
	Some (sex/stage not stated) to Prof. O. Duboscq, Montpellier, France 10.II.1914		
	Ticks retained from the collection sent for determination by Dr. M. B. Mitzmain, Veterinary Entomologist, Veterinary Research Laboratory, Alabang, Rizal, Philippine Islands, 17 February, 1913.		
N	2028	N	2028
		RML	110928
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Native dog		Native dog
	Occidental Negros, P.I.		Province of Negros Occidental (10.25 N, 123.00 E), Republic of the Philippines
	14.XI.1911		14.XI.1911
N	2029	N	2029
		RML	110929
	<u>Argas vespertilionis</u> 1 adult		1 ♀ <u>Argas vespertilionis</u>
	Bat's nest		Bat's nest
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	12.XI.1910		12.XI.1910

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2030	N	2030
		RML	110930
	<u>Argas vespertilionis</u> larvae		4 L <u>Argas vespertilionis</u>
	Brown house bat		Brown house bat
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	30.X.1910		30.X.1910
N	2031	N	2031
		RML	110931
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	La Carlota, Occidental Negros, P.I.		La Carlota (10.25 N, 122.55 E), Republic of the Philippines
	11.XI.1911		11.XI.1911
N	2032	N	2032
		RML	110932
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		4 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Collie dog		Dog (Collie)
	Alabang, Rizal, P.I.		Alabang (14.25 N, 121.03 E), Republic of the Philippines
	VII.1912		VII.1912
N	2033	N	2033
		RML	110933
	<u>Boophilus australis</u> ♀'s		9 ♀ <u>Boophilus microplus</u>
	Indo-Chinese cattle		Cattle, Indo-Chinese
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	XII.1911		XII.1911

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2034	N	2034
		RML	110934
	<u>Boophilus australis</u> ♀'s		5 ♀ <u>Boophilus microplus</u>
	Indo-Chinese cattle		Cattle, Indo-Chinese
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	1.XI.1910		1.XI.1910
N	2035	N	2035
		RML	110935
	<u>Boophilus australis</u> ♀'s		5 ♀ <u>Boophilus microplus</u>
	Indo-Chinese cattle		Cattle, Indo-Chinese
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	1.XI.1910		1.XI.1910
N	2036	N	2036
		RML	110936
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		15 ♂, 23 ♀ <u>Rhipicephalus sanguineus</u>
	Collie dog		Dog, Collie
	Alabang, Rizal, P.I.		Alabang (14.25 N, 121.03 E), Republic of the Philippines
	VII.1912		VII.1912
N	2037	N	2037
		RML	110937
	<u>Boophilus australis</u> ♀'s		6 ♀ <u>Boophilus microplus</u>
	Indo-Chinese cattle		Cattle, Indo-Chinese
	Manila, P.I.		Manila (14.35 N, 121.00 E), Republic of the Philippines
	31.X.1910		31.X.1910

ORIGINAL DETERMINATIONCURRENT STATUS

N	2038	N	2038
		RML	110938
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s & ♀		8 ♂, 1 ♀ <u>Aponomma trimaculatum</u>
	Large lizard (Iguana or Monitor)		Large lizard (Iguana or Monitor)
	Polo, Bulacan Province, P.I.		Probably Polo (15.01 N, 120.44 E) Province of Bulacan, Republic of the Philippines
	18.IV.1911		18.IV.1911
N	2039	N	2039
		RML	110939
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N		1 ♂, 3 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Bull dog		Dog, Bull
	Rizal Province, P.I.		Province of Rizal (14.35 N, 121.10 E), Republic of the Philippines
	19.IX.1911		19.IX.1911
N	2040	N	2040
		RML	110940
	<u>Ornithodoros moubata</u>		52 ♂, 23 ♀, 1098 N <u>Ornithodoros moubata</u>
	From huts		From huts
	Livingstone, N. Rhodesia, S. Africa		Livingstone (17.51 S, 25.52 E), Zambia
	4.II.1913		4.II.1913
	Rec'd from Dr. D. S. MacKnight 3.III.1913		Rec'd from Dr. D. S. MacKnight 3.III.1913
	[Used for raising experiments]		
	Some (sex/stage not stated) to Dr. de Blicck, Java 22.I.1915		

Ticks received from L. C. Heath, Esq., Native Commissioner, Mumbwa, Baluba District, Broken Hill, N. Rhodesia, B.C. Africa, 3 March, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2041, a, b	N	2041, a
		RML	110941
	(2041) <u>Rhipicephalus sculptus</u> ♂'s, ♀'s		(2041) 12 ♂, 3 ♀ <u>Rhipicephalus sculptus</u>
	(a) <u>Amblyomma variegatum</u> ♂		(a) 1 ♂ <u>Amblyomma pomposum</u>
	(b) <u>Hyalomma aegyptium</u> ♂, ♀		(b) MISSING
	Zebra		<u>Equus burchelli</u>
	Near Mulendemas, Baluba, N. Rhodesia		Near Mulendema (15.14 S, 26.40 E), Zambia
	6.I.1913		6.I.1913
	L. C. Heath		L. C. Heath
			Cited: Santos Dias (1958: 479).
N	2042	N	2042 MISSING
	<u>Amblyomma variegatum</u> 1 ♂		
	Water-buck		
	Near Chikunis, Baluba, N. Rhodesia		
	7.I.1913		
	L. C. Heath		
N	2042 a	N	2042 a
		RML	110942
	<u>Ixodes ricinus</u> ♂'s, ♀'s		1 ♂, 4 ♀ <u>Ixodes ricinus</u>
	Irish hare		<u>Lepus timidus</u>
	Waterford, Ireland		Waterford (52.15 N, 07.06 W), Ireland
	26.IX.1905		26.IX.1905
			Cited: Nuttall (1916: 332).

Ticks received from Dr. S. Hadwen, Agassiz, British Columbia, Canada
3 March, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2043	N	2043
		RML	110943
	<u>Dermacentor venustus</u> ♂, ♀		1 ♂, 1 ♀ <u>Dermacentor andersoni</u>
	<u>Sciurus hudsonicus douglasi</u>		<u>Tamiasciurus d. douglasi</u>
	Merritt, British Columbia		Merritt (50.07 N, 120.47 W), British Columbia, Canada
	VIII.1912		VIII.1912
N	2044	N	2044
		RML	110944
	<u>Dermacentor venustus</u> N's		2 N <u>Dermacentor andersoni</u>
	<u>Sciurus hudsonicus douglasi</u>		<u>Tamiasciurus d. douglasi</u>
	Merritt, British Columbia		Merritt (50.07 N, 120.47 W), British Columbia, Canada
	VIII.1912		VIII.1912
N	2045	N	2045
		RML	110945
	<u>Ornithodoros megnini</u> adult		1 ♀ <u>Otobius lagophilus</u>
	Jack Rabbit (<u>Lepus americanus</u>)		<u>Lepus americanus</u>
	Lethbridge, Alberta, British Columbia		Lethbridge (49.42 N, 112.50 W), Alberta, Canada
	2.X.1912		2.X.1912
	Dr. S. Hadwen		Dr. S. Hadwen

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	2046	N	2046
		RML	110946
	<u>Ornithodoros megnini</u> N's		4 N <u>Otobius lagophilus</u>
	<u>Lepus americanus</u>		<u>Lepus americanus</u>
	Lethbridge, Alberta, British Columbia		Lethbridge (49.42 N, 112.50 W), Alberta, Canada
	2.X.1912		2.X.1912
	Dr. S. Hadwen		Dr. S. Hadwen
	Ticks retained from Dr. M. B. Mitzmain's collection (see also Nos. 2028-2039), Philippine Islands, 6 March, 1913:-		
N	2047	N	2047
		RML	110947
	<u>Ixodes hexagonus</u> var. <u>cookei</u> 1 ♀ & N's		1 ♀, 3 N <u>Ixodes sculptus</u>
	<u>Putorius xanthogenys</u>		<u>Mustela frenata xanthogenys</u>
	San Mateo County, California, U.S. America		San Mateo County (37.25 N, 122.20 W), California, U.S.A.
	14.IX.1909		14.IX.1909
	M. B. Mitzmain		M. B. Mitzmain
			Cited: Nuttall (1916: 328).
N	2048	N	2048
		RML	110948
	<u>Ixodes hexagonus</u> var. <u>cookei</u> 1 ♀		1 ♀ <u>Ixodes sculptus</u>
	<u>Putorius xanthogenys</u>		<u>Mustela frenata xanthogenys</u>
	San Francisco, California, U.S. America		San Francisco (37.48 N, 122.24 W), California, U.S.A.
	1.IX.1909		1.IX.1909
	M. B. Mitzmain		M. B. Mitzmain
			Cited: Nuttall (1916: 328).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2049	N	2049
		RML	110949
	<u>Ixodes hexagonus</u> var. <u>cookei</u> 2 N's, 2 L		2 N, 1 L <u>Ixodes sculptus</u>
	<u>Putorius xanthogenys</u>		<u>Mustela frenata xanthogenys</u>
	San Mateo County, California, U.S. America		San Mateo County (37.25 N, 122.20 W), California, U.S.A.
	7.IX.1909		7.IX.1909
	M. B. Mitzmain		M. B. Mitzmain
			Cited: Nuttall (1916: 328).
N	2050	N	2050
		RML	110950
	<u>Aponomma trimaculatum</u> ♂'s, 2 ♀		3 ♂, 1 ♀ <u>Aponomma trimaculatum</u>
	Lizard (Monitor)		Lizard (Monitor)
	Alabang, Rizal, Philippine Islands		Alabang (14.25 N, 121.03 E), Republic of the Philippines
	23.IV.1912		23.IV.1912
	M. B. Mitzmain		M. B. Mitzmain
N	2051	N	2051
		RML	105779
	<u>Aponomma exornatum</u>		6 ♂ <u>Amblyomma helvolum</u> 2 ♀ <u>Aponomma fimbriatum</u> 8 N <u>Aponomma</u> sp.
	Lizard (Monitor)		Lizard (Monitor)
	Occidental Negros Province, Philippine Islands		Province of Negros Occidental (10.25 N, 123.00 E), Republic of the Philippines
	XII.1911		XII.1911
	M. B. Mitzmain		M. B. Mitzmain

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2052	N	2052 MISSING
	<u>Aponomma trimaculatum</u>		
	Lizard (Monitor)		
	La Carlota, Occidental Negros Province, Philippine Islands		
	11.XI.1911		
	M. B. Mitzmain		
N	2053	N	2053
		RML	110951
	<u>Dermacentor reticulatus</u> 1 ♀		1 ♀ <u>Dermacentor reticulatus</u>
	Dog		Dog
	Aberystwyth, Wales		Aberystwyth (52.25 N, 04.04 W), Wales
	3.III.1913		3.III.1913
	Rec'd from C. L. Walton, Esq., Zoological Department, University College of Wales, Aberystwyth Wales, 6 March 1913.		Rec'd from C. L. Walton, Esq., Zoological Department, University College of Wales, Aberystwyth, Wales,
N	2054	N	2054
		RML	110952
	<u>Ixodes hexagonus</u> var <u>cookei</u> ♂, L		1 ♀ <u>Ixodes sculptus</u>
	<u>Putorius xanthogenys</u>		<u>Mustela frenata xanthogenys</u>
	San Mateo County, California, U.S. America		San Mateo County (37.25 N, 122.20 W), California, U.S.A.
	20.IX.1909		20.IX.1909
	M. B. Mitzmain		M. B. Mitzmain
	(see also Nos. 2028-2039; 2047-2052)		Cited: Nuttall (1916: 328). Label in vial "larvae removed." Both the catalogue and vial label state the tick to be a ♂, it is a ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2055

N 2055 OMITTED CATALOGUE NUMBER

N 2056

N 2056 MISSING

Haemaphysalis bispinosa var.
intermedia ♂'s, ♀'s

Wolf

4 miles W. of Koderma Station,
Chota Nagpur, India

9.VIII.1912

Major O. A. Smith

[Ex. Ind. Mus. $\frac{1524}{17}$]

N 2057

N 2057

RML 110953

Rhipicephalus pulchellus 3 ♂4 ♂ Rhipicephalus pulchellus

Cattle

Cattle

Montgomery District near
Kasauli, Punjab, India

Montgomery District near Kasauli,
Punjab, India (see below)

1911

1911

Capt. R. Markham Carter

Capt. R. Markham Carter

(Ex. Liverpool Sch. Trop. Med.
"153")

Locality data incorrect. R. pulchellus
is not found in India although these
are possibly imported cattle.

Ticks received from Dr. E. J. Marzinowsky, Hospital of Emperor Paul I,
Moscow, Russia, June, 1912:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2058	N	2058
		RML	110954
	<u>Dermacentor reticulatus</u> ♂, ♀		1 ♂ <u>Dermacentor reticulatus</u>
	No data		No data
	Moscow		Moscow (55.45 N, 37.35 E), U.S.S.R. Note in vial, "1 ♀ removed."
N	2059	N	2059
		RML	110955
	<u>Dermacentor reticulatus</u> L & eggs		+ 500 L <u>Dermacentor reticulatus</u>
	No data		No data
	Moscow, Russia		Moscow (55.45 N, 37.35 E), U.S.S.R. Cited: Edwards & Evans (1967: 595).
N	2060	N	2060
		RML	110956
	<u>Dermacentor reticulatus</u> 2 N		2 N <u>Dermacentor reticulatus</u>
	No data		No data
	Moscow, Russia		Moscow (55.45 N, 37.35 E), U.S.S.R.
N	2061	N	2061
		RML	110957
	<u>Boophilus australis</u> 3 ♀'s		3 ♀ <u>Boophilus annulatus</u>
	No data		No data
	Moscow, Russia		Moscow (55.45 N, 37.35 E), U.S.S.R.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2062 <u>Ixodes ricinus</u> 3 ♀ No data Moscow, Russia	N	2062 MISSING
N	2063 <u>Argas persicus</u> No data Moscow, Russia	N	2063 RML 110958 2 ♂ <u>Argas persicus</u> No data Moscow (55.45 N, 37.35 E), U.S.S.R.
N	2064 <u>Rhipicephalus rossicus</u> No data Moscow, Russia	N	2064 RML 110959 1 ♂, 1 ♀ <u>Rhipicephalus rossicus</u> No data Moscow (55.45 N, 37.35 E), U.S.S.R.
N	2065 <u>Ixodes oldi</u> n. sp. 7 ♀ Bush cat Komatendu, Sierra Leone, West Africa 13.VIII.1912 J. J. Simpson (Im. Bur. Ent. 604) co-types ?	N	2065 RML 110960 6 ♀ <u>Ixodes oldi</u> Lectotype and paralectotypes Probably a West African species of <u>Genetta</u> Komatendu, Sierra Leone (locality not verified) 13.VIII.1912 J. J. Simpson Nuttall (1913b: 135), original descript- ion with 14 ♀ in the original collection. I believe that the catalogue record of 7 ♀ is correct. Arthur (1958: 47) and (1965: 138) discussed a "holotype ♀" deposited in the BM(NH), however Nuttall never selected a holotype. Lectotype designated: Keirans & Brewster (1981: 167). cited: Keirans et al. (1982:321).

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	2066	N	2066
		RML	110961
	<u>Ixodes kempi</u> n.sp. 4 ♀		3 ♀ <u>Ixodes granulatus</u> Lectotype & paralectotypes of <u>I. kempi</u>
	<u>Sciurus erythraeus intermedius</u>		<u>Callosciurus erythraeus intermedius</u>
	Kobo (400 ft. elevation), India		Kobo (27.47 N, 95.23 E), India (122 m)
	24.III.1912		24.III.1912
	S. W. Kemp		S. W. kemp
	(Abor Expedition) [Indian Mus. Calcutta $\frac{1247}{17}$] Co-types!		Nuttall (1913b: 131), original description with 8 ♀ collected 29.III.1912. Cited: Sharif (1928: 237); Arthur (1957b: 684). Lectotype designated: Keirans & Brewster (1981: 167).
N	2067	N	2067
		RML	110962
	<u>Ixodes unicavatus</u> 1 larva		1 L <u>Ixodes unicavatus</u>
	<u>Phalacrocorax carbo</u>		<u>Phalacrocorax carbo</u>
	Anglesea, North Wales		Anglesea (53.17 N 04.22 W), Wales
	23.II.1886		23.II.1886
	Gift of W. F. Cooper who rec'd. it mounted on a slide from C. Oldham		Gift of W. F. Cooper who rec'd. it mounted on a slide from C. Oldham
	[G.H.F. Nuttall det.]		Cited: Nuttall (1916: 334); Thompson (1957: 215).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2068	N	2068
		RML	110963
	<u>Ixodes eudyptidis</u> 1 ♀		1 ♀ <u>Ixodes eudyptidis</u>
	<u>Sterna antarctica</u>		<u>Sterna anaethetus antarctica</u>
	New Plymouth, New Zealand		New Plymouth (39.04 S, 174.05 E), New Zealand
	22.XI.1909		22.XI.1909
	W. W. Smith		W. W. Smith
	[Determined by the donor, Prof. Charles Chilton, Canterbury, N.Z., as <u>Ix. eudyptidis</u>]		Cited: Nuttall (1916: 327).
	Note: On 29.VI.1915 our sp. [<u>Ixodes neumanni</u>] condemned by us after we saw the type sent us from New Zealand.		
N	2069	N	2069
		RML	110964
	<u>Ixodes anatis</u> 1 ♀, 1 N co-types		1 ♀, 1 N <u>Ixodes anatis</u>
	Off?		Off?
	Ashburton, Canterbury, New Zealand		Canterbury (43.30 S, 171.30 E), Ashburton County, New Zealand
	1903		1903
	W. W. Smith		W. W. Smith
	[Rec'd. from Prof. C. Chilton, N.Z. VII.1912]		Chilton (1904: 201) original description; cited: Nuttall (1916: 317).
	Hypostome mounted on a slide, broken off by accident.		Slide present of nymphal hypostome

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2070	N	2070
		RML	110965
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		5 ♂, 14 ♀ <u>Rhipicephalus sanguineus</u>
	Off?		Off?
	Samoa Islands, Pacific Ocean		Samoa Islands (14.00 S, 171.00 W)
	15.I.1913		15.I.1913
	Dr. G. Fredricks		Dr. G. Fredricks
	(Gift of the Natural History Museum, Hamburg, Germany 17.III.1913)		
	Ticks received from L. C. Heath, Esq., Mwingwa, Mumbwa, N. Rhodesia, Central Africa 17.III.1913:-		
N	2071, a	N	2071 a
		RML	110966
	(2071) <u>Rhipicephalus evertsi</u> 2 ♂'s		(2071) MISSING
	(a) <u>Hyalomma aegyptium</u> 1 ♂, 2 ♀		(a) 1 ♂, 2 ♀ <u>Hyalomma truncatum</u>
	Eland		<u>Taurotragus oryx</u>
	Baluba, Broken Hill, N. Rhodesia		Baluba, Kabwe (14.27 S, 28.27 E), Zambia
	II.1913		II.1913
	L. C. Heath		L. C. Heath

ORIGINAL DETERMINATIONCURRENT STATUS

N	2072, a	N	2072, a
		RML	110967
	(2072) <u>Rhipicephalus supertritus</u> 1 ♂		(2072) 1 ♂ <u>Rhipicephalus supertritus</u>
	(a) <u>Rhipicephalus sculptus</u> ♂'s, ♀'s		(a) 5 ♂, 4 ♀ <u>Rhipicephalus sculptus</u>
	Sable Antelope		<u>Hippotragus niger</u>
	Baluba, Broken Hill, N. Rhodesia		Baluba, Kabwe (14.27 S, 28.27 E), Zambia
	II.1913		II.1913
	L. C. Heath		L. C. Heath
			(2072a) cited by Santos Dias (1958: 479) who stated that this collection consisted of 2 ♂, 2 ♀ <u>R. sculptus</u>

Ticks received from Dr. W. L. Thompson, Mount Silinda, Melssetter,
S. Rhodesia, S. Africa, 17 March, 1913:-

N	2073, a	N	2073, a
		RML	110968
	(2073) <u>Rhipicephalus</u> <u>appendiculatus</u> ♂'s, ♀'s		15 ♂, 11 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Rhipicephalus simus</u> 1 ♂		(a) 1 ♂ <u>Rhipicephalus simus</u>
	Cattle		Cattle
	Mount Silinda, S. Rhodesia		Mount Selinda (20.27 S, 32.43 E), Zimbabwe
	XII.1912		XII.1912
	Dr. W. L. Thompson		Dr. W. L. Thompson

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2074	N	2074
		RML	110969
	<u>Ornithodoros moubata</u>		3 ♂, 11 ♀, 2 N <u>Ornithodoros moubata</u>
	Native huts		Native huts
	Mount Silinda, S. Rhodesia		Mount Selinda (20.27 S, 32.43 E), Zimbabwe
	I.1913		I.1913
	Dr. W. L. Thompson		Seven of the 11 ♀ in this collection fit within the taxonomic limits of <u>O. moubata porcinus</u> , the 4 remaining ♀ are <u>O. m. moubata</u> . The two groups have been separated but retained within one vial.
N	2075	N	2075
		RML	110970
	<u>Rhipicephalus appendiculatus</u> ♂, ♀'s		1 ♂, 11 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Mount Silinda, S. Rhodesia		Mount Selinda (20.27 S, 32.43 E), Zimbabwe
	11.II.1913		11.II.1913
	Dr. W. L. Thompson		Dr. W. L. Thompson
N	2076	N	2076
		RML	110971
	<u>Rhipicephalus follis</u> ♂'s, ♀'s (♀ new to science)		5 ♂, 2 ♀ <u>Rhipicephalus jeanneli</u>
	Oxen		Oxen
	Kijabe, British East Africa		Kijabe (00.56 S, 36.34 E), Kenya
	12.II.1912		12.II.1912
	R. Edmondson		R. Edmondson
	(E.R.C. No. 504)		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2077	N	2077
		RML	110972
	<u>Haemaphysalis bispinosa</u> var. <u>intermedia</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Haemaphysalis paraturturis</u> Paratypes
	Wolf		Probably <u>Canis lupus pallipes</u>
	5 miles west of Koderma Station, Chota Nagpur, India		5 miles west of Koderma Station, Chota Nagpur (22.13 N, 88.54 E), India
	9.VIII.1912		9.VIII.1912
	Major O. A. Smith		Major O. A. Smith
	[Indian Mus. $\frac{1524}{17}$]		Hoogstraal et al (1963: 686) original description. Cited as <u>H.</u> <u>bispinosa intermedia</u> by Nuttall & Warburton (1915: 435).
N	2078	N	2078
		RML	110973
	<u>Boophilus annulatus</u> ♀'s		6 ♀ <u>Boophilus annulatus</u>
	Cattle		Cattle
	Auburn, Alabama, U.S. America		Auburn (32.36 N, 85.29 W), Alabama, U.S.A.
	13.III.1913		13.III.1913
	Professor C. A. Cary		Professor C. A. Cary
N	2079	N	2079
		RML	110974
	<u>Rhipicephalus sanguineus</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog (Toy terrier)		Dog
	Brymbo, near Wrexham, North Wales		Brymbo (53.04 N, 03.04 W), Wales
	22.III.1913		22.III.1913
	W. J. Fletcher, M.R.C.V.S.		W. J. Fletcher, M.R.C.V.S.

Two tubes of ticks received from Dr. George V. Perez, Puerto Orotava, Teneriffe, Canary Islands, 26.III.1913:-

N 2080 N 2080 MISSING

Haemaphysalis punctata ♂'s, ♀'s

Goat

Puerto Orotava, Teneriffe,
Canary Islands

II.1913

Dr. G. V. Perez

Given to D. S. Machagan 14.X.1938

N 2081 N 2081

RML 110975

Haemaphysalis punctata ♀'s

6 ♀ Haemaphysalis punctata

Goats

Goats

Puerto Orotava, Teneriffe,
Canary Islands

Puerto Orotava, Teneriffe (28.19 N,
16.34 W), Canary Islands

II.1913

II.1913

Dr. G. V. Perez

Dr. G. V. Perez

Four tubes of ticks received from Dr. Jesus E. Monjarás, Exequiel Montes 15, Mexico, Central America, 24.III.1913:-

N 2082 N 2082 MISSING

Argas persicus

Fowls

Mexico City, Mexico, Central
America

I.1913

1 adult, 1 N to Prof. Dr. Dahl,
Berlin Museum VII.1914.
1 adult, 1 N to Prof. Dr. Schenkling,
Deutsches Entomol. Mus. VII.1914.
1 adult, 1 N to Prof. Dr. Gestro,
Museo Civico de Storia Nat., Genova
VII.1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2083	N	2083
		RML	110976
	<u>Dermacentor nigrolineatus</u> ♀'s		1 ♂, 4 ♀ <u>Dermacentor albipictus</u>
	Horse		Horse
	Mexico City, Mexico, Central America		Mexico City (19.24 N, 99.09 W), Mexico
	I.1913		I.1913
	[C. W. det. 1913]		
N	2084	N	2084
		RML	110977
	<u>Boophilus annulatus</u> ♀'s		1 ♂, 9 ♀ <u>Boophilus annulatus</u>
	Off?		Off?
	Agua Prieta, Sonora, Mexico, Central America		Argua Prieta (31.18 N, 109.34 W), Sonora, Mexico
			I.1913
			Date on vial label
N	2085, a, b	N	2085, b
		RML	110978
	(2085) <u>Boophilus annulatus</u> ♀'s		(2085) 16 ♀ <u>Boophilus microplus</u>
	(a) <u>Ornithodoros megnini</u>		(a) MISSING
	(b) <u>Dermacentor nitens</u> 1 ♀		(b) 1 ♀ <u>Anocentor nitens</u>
	Cattle, horses, & sheep		Cattle, horses, & sheep
	District of Federal Mexico, Mexico, Central America		Distrito Federal (19.15 N, 99.10 W), Mexico
	I.1913		I.1913
			Date on vial label
			Vial label for 2085 c lists host as horse.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2086	N	2086
		RML	110979
	<u>Amblyomma dissimile</u> 1 ♂		1 ♂ <u>Amblyomma dissimile</u>
	Bushmaster (<u>Lachesis mutus</u>)		<u>Lachesis mutus</u>
	Trinidad, West Indies		Trinidad
	7.III.1913		7.III.1913
	(Z. S. "37")		Cited: Robinson (1926: 167).
N	2087	N	2087
		RML	110980
	<u>Ixodes marxi</u> 3 ♀'s		3 ♀ <u>Ixodes marxi</u>
	Raccoon		<u>Procyon lotor</u>
	Montgomery Co., Alabama, U.S.A.		Montgomery Co. (32.23 N, 86.18 W), Alabama, U.S.A.
	III.1913		III.1913
	Sent by Professor C. A. Cary, State Veterinarian, Auburn, Ala., U.S. America 8.IV.1913		Sent by Professor C. A. Cary, State Veterinarian, Auburn, Ala., U.S. America 8.IV.1913.
			Cited: Nuttall (1916: 329) Cooley & Kohls (1945: 129) stated that Nuttall & Warburton (1911) listed <u>I. marxi</u> from raccoon in Montgomery County, Alabama. Because the collection date was 1913, Cooley & Kohls must have meant to cite the Nuttall (1916) reference.

Two tubes of ticks received from Dr. A.F.G. Kerr, Chiengmai, Siam,
Farther India, 8 April, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2088	N	2088
	<u>Amblyomma</u> sp. N's	RML	110981
	Off "self" (human being)		2 N <u>Amblyomma</u> sp.
	Coi Chieng Dao, N. Siam		<u>Homo sapiens</u>
	28.I.1913		Doi Chieng Dao, Thailand (locality not verified)
	Dr. A. F. G. Kerr		28.I.1913
			Dr. A. F. G. Kerr
N	2089	N	2089
	<u>Haemaphysalis wellingtoni</u> ♂'s	RML	110982
	Turkey		3 ♂ <u>Haemaphysalis wellingtoni</u>
	Chiengmai, Siam		Turkey
	10.XII.1912		Chiang Mai (18.47 N, 98.59 E), Thailand
	Mrs. Harris		10.XII.1912
	1 ♂ to Dr. de Blicck, Java 22.I.1915		Mrs. Harris
			Nuttall & Warburton (1915: 482) listed 7 ♂ in the original collection.

Ticks received back from the Imperial Bureau of Entomology (per Mr. G.A.K. Marshall), London S.W., 8 April, 1913, ex Report No. 27 (Nos. 627-661a):-

N	2090	N	2090
		RML	110983
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Hyalomma truncatum</u>
	Cattle (suspected to be infected with East Coast fever)		Cattle (suspected to be infected with East Coast fever)
	Marimba District, Nyasaland		Marimba District, Malawi (locality not verified)
	VIII.1912		VIII.1912
	Dr. J. C. Morgan		Dr. J. C. Morgan
	("627")		
	1 ♂, 1 ♀ to R. M. Mettam, Weybridge IV.1931.		
	1 ♂, 1 ♀ to H. S. Purchase IV.1931		
N	2091	N	2091
		RML	110984
	<u>Boophilus decoloratus</u> ♀'s		4 ♀ <u>Boophilus decoloratus</u>
	Cattle (suspected to be infected with East Coast fever)		Cattle (suspected to be infected with East Coast fever)
	Marimba District, Nyasaland		Marimba District, Malawi (locality not verified)
	VIII.1912		VIII.1912
	Dr. J. C. Morgan		Dr. J. C. Morgan
	("627a")		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2092	N	2092
		RML	110985
	<u>Rhipicephalus neavei</u> 1 ♀		1 N <u>Rhipicephalus</u> sp.
	Cattle (suspected to be infected with East Coast fever)		Cattle (suspected to be infected with East Coast fever)
	Marimba District, Nyasaland		Marimba District, Malawi (locality not verified)
	VIII.1912		VIII.1912
	Dr. J. C. Morgan		Dr. J. C. Morgan
	("627b")		
N	2093	N	2093 MISSING
	<u>Rhipicephalus evertsi</u> N's		
	Reed-buck		
	Muona, Ruo District, Nyasaland		
	17.X.1912		
	Dr. J.E.S. Old		
	("645")		
N	2094	N	2094
		RML	110986
	<u>Amblyomma variegatum</u> N's		8 N <u>Amblyomma variegatum</u>
	Water-buck		<u>Kobus ellipsiprymnus</u>
	Masengari, Ruo District, Nyasaland		Perhaps Masenjere (16.20 S, 35.06 E), Malawi
	23.IX.1912		23.IX.1912
	Dr. J.E.S. Old		Dr. J.E.S. Old
	("652")		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2095	N	2095
		RML	110987
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		5 ♂, 12 ♀ <u>Rhipicephalus evertsi</u>
	Reed-buck		<u>Redunca</u> sp.
	Nyasaland		Malawi
	21.IX.1912		21.IX.1912
	Dr. J.E.S. Old		Dr. J.E.S. Old
	("655")		
N	2096	N	2096 MISSING
	<u>Rhipicephalus evertsi</u> N's		
	Reed-buck		
	Masengari, Ruo District, Nyasaland		
	IX.1912		
	Dr. J.E.S. Old		
	("656")		
N	2097	N	2097 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		
	Reed-buck		
	Masengari, Ruo District, Nyasaland		
	23.IX.1912		
	Dr. J.E.S. Old		
	("657")		
	2 ♂, 2 ♀ to Prof. E. Brumpt, Paris		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2098
Rhipicephalus sanguineus ♂'s, ♀'s
 Dog (bull-terrier bitch)
 Bundajuma, N Sherbrs District,
 Sierra Leone, West Africa
 15.III.1913
 Rec'd from Major E.D.H.
 Fairtlough, Esq., C.M.G.,
 D.S.O. 21.IV.1913

Two tubes of ticks received from Dr. T. L. Bancroft, Eidsvold, Queensland,
 Australia, 21 April, 1913:-

N 2099
Boophilus australis ♀'s
 Cattle
 Burnett District, Queensland
 III.1913

N 2099
 RML 110988
 3 ♂, 8 ♀, 1 N Boophilus microplus
 Cattle
 Burnett District, Queensland,
 Australia
 III.1913

Thomas Lane Bancroft (1860-1933) son
 of Dr. Joseph Bancroft who confirmed
 in 1876 microfilaria of Wuchereria
bancrofti in human blood. T. L.
Bancroft discovered the mode of trans-
 mission of W. bancrofti from mosquito
 to man. He was the father of all
 research on dengue fever.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2100

N 2100

RML 110989

Haemaphysalis bancrofti 2 ♂, 5 ♀
TYPES

2 ♂, 5 ♀ Haemaphysalis bancrofti
Lectotype and Paralectotypes

Macropus dorsalisMacropus dorsalis

Burnett District, Queensland

Burnett District, Queensland
Australia

III.1913

III.1913

Nuttall & Warburton (1915: 487)
original description. Roberts (1963:
62) redescribed ♂, ♀ and N. Lectotype
designated: Keirans & Brewster (1981:
159).

Two tubes of ticks received from Dr. J. L. Bancroft,
Eidsvold, Queensland, Australia, 21 April, 1913.

2099. Boo. australis ^{Fuller} ♀, off cattle; Burnett District,
Queensland, III. 1913.
2100. Haem. bancrofti ^{N.W. 1914, 2099} ♂ off Macropus dorsalis, Burnett
District, Queensland, III. 1913. Tippes!

Four tubes of ticks received from Dr. Oscar Deu,
(The Pahang Consolidated Company, Ltd.), Sungai Lembing,
Kuantan, Federated Malay States, 21 April, 1913.

2102. Boo. australis ^{Fuller, 1897} ♀, off bullock; Sungai Lembing,
Kuantan, Pahang, II. 1913.
2103. Amb. testudinarius ^{Koch, 1844} ♂ & ♀, off water buffalo, Sungai Lembing,
Kuantan, Pahang, I. II. 1913.
2104. Haem. cornigera ^{Im., 1897} ♂. } off wild pig, or tiger (shot
2105. Haem. proxima ^{Harb. & Nutt., 1909} } in jungle), Kuantan,
2106. Haem. Lylei ^{Supina, 1897} ♀. } Pahang, I. 1913.
[Q. 73 Nos. 2104, 2105 & 2106 were found
mixed owing to tube breaking in transit.]

2107. Ovv. Calaje 3 ♂ & 2 ♀, found in camp-bed (in
folds of canvas), on the Rio Condoto,
tributary of the San Juan, Choco,
Republic of Colombia, S. America,
IX. 1912, having bitten the occupant
and collector severely. Presented by
the collector (Dr. Samuel Shephard)
in person, 23. IV. 1913.

Four tubes of ticks received from Dr. Oscar Pou, (The Pahang Consolidated Company, Ltd.), Sungei Lembing, Kuantan, Federated Malay States, 21 April, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2101	N	2101 OMITTED CATALOGUE NUMBER
N	2102	N	2102
		RML	110990
	<u>Boophilus australis</u> ♀'s		17 ♀ <u>Boophilus microplus</u>
	Bullock		Bullock
	Sungei Lembing Kuantan, Pahang		Sungai Lembing (03.55 N, 103.02 E) Pahang, Malaysia
	II.1913		II.1913
N	2103	N	2103
		RML	110991
	<u>Amblyomma testudinarium</u> 3 ♂, 2 ♀		3 ♂, 2 ♀ <u>Amblyomma testudinarium</u>
	Water buffalo		<u>Bubalus bubalis</u>
	Sungei Lembing, Kuantan, Pahang		Sungai Lembing (03.55 N, 103.02 E), Pahang, Malaysia
	1.II.1913		1.II.1913 Cited: Robinson (1926: 257).
N	2104	N	2104
		RML	110992
	<u>Haemaphysalis cornigera</u> ♂'s		4 ♂ <u>Haemaphysalis cornigera</u>
	Wild pig or tiger (shot in jungle)		Wild pig or tiger (shot in jungle)
	Kuantan, Pahang		Kuantan (03.48 N, 103.20 E), Pahang, Malaysia
	I.1913		I.1913 Dr. H. F. Conyngham
	[N.B. Nos. 2104, 2105 & 2106 were found mixed owing to tube breaking in transit]		Collector's name taken from vial label Cited: Nuttall & Warburton (1915: 503).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2105	N	2105
		RML	110993
	<u>Haemaphysalis proxima</u> 2 ♀'s		3 ♀ <u>Haemaphysalis cornigera</u>
	Wild pig or tiger (shot in jungle)		Wild pig or tiger (shot in jungle)
	Kuantan, Pahang		Kuantan (03.48 N, 103.20 E), Pahang, Malaysia
	I.1913		I.1913
	[N.B. Nos. 2104, 2105 & 2106 were found mixed owing to tube breaking in transit]		Cited: Nuttall & Warburton (1915: 503).
N	2106	N	2106
		RML	22298
	<u>Haemaphysalis hystericis</u>		6 ♂, 1 ♀ <u>Haemaphysalis semermis</u> 1 ♀ <u>Haemaphysalis calvus</u> 1 ♀ <u>Haemaphysalis longicornis</u>
	Wild pig or tiger (shot in jungle)		Wild pig or tiger (shot in jungle)
	Kuantan, Pahang		Kuantan (03.48 N, 103.20 E), Pahang, Malaysia
	I.1913		I.1913
	[N.B. Nos. 2104, 2105 & 2106 were found mixed owing to tube breaking in transit]		The <u>H. semermis</u> collection cited by Hoogstraal et al (1965b: 435).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2107	N	2107
		RML	110994
	<u>Ornithodoros talaje</u> 3 ♂, 2 ♀, 2 N		3 ♂, 1 ♀, 2 N <u>Ornithodoros talaje</u>
	Camp bed (in folds of canvas)		Camp bed (in folds of canvas)
	Rio Condoto, tributary of the San Juan, Choco, Republic of Colombia, S. America		Rio Condoto, tributary of the San Juan, Departamento del Choco (06.00 N, 77.00 W), Colombia
	IX.1912		IX.1912
	Dr. Samuel Shephard		Dr. Samuel Shephard
	Having bitten the occupant and collector severely, presented by the collector in person 23.IV.1913.		

Ticks sent to me by Geheimrath W. Dönitz of Berlin 30.V.1911 (see letter) being his type material of the species named. Unless they are reclaimed by his representatives in the future I propose that they be retained in our collection where they will be more useful than elsewhere. I think this would have been in accordance with Dönitz's wishes. He died 12.III.1912. (See my "In Memoriam" in Parasitology vol. V No. 4. G.H.F.N. 24.IV.1913:-)

N	2108	N	2108
		RML	110995
	<u>Rhipicephalus glyphis</u> 1 ♂ TYPE (pinned)		1 ♂ <u>Rhipicephalus lunulatus</u>
	<u>Wasserschwein</u>		<u>Wasserschwein</u>
	Lake Tanganyika		Lake Tanganyika (06.00 S, 29.30 E), Tanzania
	(There must be a second ♂ in Berlin of this lot.)		Dönitz (1910b; 278) original description. Warburton (1912: 19) synonymized <u>R. glyphis</u> with <u>R. lunulatus</u> , the latter considered by Warburton to be a subspecies of <u>R. simus</u> .

ORIGINAL DETERMINATIONCURRENT STATUS

N	2109	N	2109
		RML	110996
	<u>Rhipicephalus kochi</u> 1 ♂ (on slide) unique type		1 ♂ <u>Rhipicephalus kochi</u>
	Cattle		Cattle
	Saadani, German East Africa		Sadani (06.03 S, 38.47 E), Tanzania
	(Unfortunately charred somewhat by Dönitz in photographing it, but still shows spec. characters) [mounted on a slide, dry, in cell]		Dönitz (1905: 106) original description. Cited: Clifford et al (1983: 77,78).
N	2110	N	2110
		RML	111463
	<u>Rhipicephalus follis</u> 2 ♂		2 ♂ <u>Rhipicephalus follis</u> (Syntypes) 1 ♂ <u>Rhipicephalus follis</u> (probably not a Syntype)
	Off undet. host		Off undet. host
	German S.W. Africa		Namibia
	Knuth		Knuth
	(In his letter Dö. states they were formerly pinned. The white border to festoons has disappeared in alcohol but will doubtless reappear if specimens are again dried.) He described the species from these <u>2 types</u> .		Dönitz (1910a: 481) original description. The ♂ without the pinhole may have been added inadvertently by an investigator comparing his specimen with the types.
N	2111	N	2111 OMITTED CATALOGUE NUMBER

ORIGINAL DETERMINATIONCURRENT STATUS

N 2112

N 2112

RML 110997

Amblyomma dissimile ♂'s, ♀'s,
N's, L18 ♂, 4 ♀, 6 N, 1 L Amblyomma dissimile

Iguana

Iguana

Trinidad, Brit. West Indies

Trinidad

Rec'd 29.IV.1913

Rec'd 29.IV.1913

Rec'd from Prof. P. Carmody

Rec'd from Prof. P. Carmody

[2 ♂ mounted in cells with
Amblyomma spp.]

Cited: Robinson (1926: 167).

1 ♂, 1 ♀ to Dr. S. Hadwen, Brit.

Columbia, Canada 10.X.1913.

1 ♂, 1 ♀ to Dr. E. Pavlovsky,

Leningrad 9.X.1925.

Ticks received from Dr. T. L. Bancroft, Eidsvold, Queensland, Australia,
5 May, 1913:-

N 2113

N 2113 MISSING

Aponomma gervaisi var lucasi ♂'sVaranus gouldii

Burnett River, Queensland

III:1913

ORIGINAL DETERMINATIONCURRENT STATUS

N

2114

N

2114

RML

110998

Haemaphysalis bancrofti 1 ♀, 1 N
COTYPES

1 ♀, 1 N Haemaphysalis bancrofti
Paralectotypes

"Crawling on trousers"

"Crawling on trousers"

Brigaton Scrub, Burnett,
Queensland

Brigaton Scrub, Burnett, Queensland,
Australia (locality not verified)

III.1913

III.1913

Dr. T. L. Bancroft

[tarsus 4 of N in balsam on a
slide]

Slide present
Nuttall & Warburton (1915: 487)
original description. Paralectotypes
designated: Keirans & Brewster (1981:
159).

N

2115

N

2115

RML

110999

Haemaphysalis bancrofti 1 ♂
COTYPE

1 ♂ Haemaphysalis bancrofti
Paralectotype

Kanderoo (Macropus giganteus)

Macropus giganteus

Burnett District, Queensland

Burnett District, Queensland,
Australia (locality not verified)

III.1913

III.1913

Dr. T. L. Bancroft

Nuttall & Warburton (1915: 487)
original description. Paralectotype
designated: Keirans & Brewster (1981:
159).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2116	N	2116
		RML	111000
	<u>Haemaphysalis papuana</u> 1 ♂		1 ♂ <u>Haemaphysalis papuana</u>
	Pariah dog		Pariah dog
	"Kampong, China" near Kota Bharu, Kelantan, Fed. Malay States		Probably Kampong China (04.11 N, 100.41 E) near Kota Bharu (04.24 N, 101.05 E), Malaysia
	17.III.1913		17.III.1913
	Rec'd from Dr. John D. Gimlette 5.V.1913		Rec'd from Dr. John D. Gimlette 5.V.1913
			Cited: Nuttall & Warburton (1915: 405), fig. 339; Trapido et al (1964a; 173, 178).
N	2117, a	N	2117, a
		RML	111001
	(2117) <u>Dermacentor reticulatus</u> 1 ♂		(2117) 1 ♂ <u>Dermacentor niveus</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) 3 ♂, 6 ♀ <u>Hyalomma marginatum</u>
	<u>Tamarix gallica</u>		<u>Tamarix gallica</u>
	Pina, Zaragoza, Spain		Pina de Ebro (41.29 N, 00.32 W), Provincia de Zaragoza, Spain
	IV.1913		IV.1913
	Rec'd from Dr. Longin Navas, 28.IV.1913		Rec'd from Dr. Longin Navas, 28.IV.1913
	Note:- <u>Tamarix gallica</u> is often used as a hedge - a shrub or small tree.		

Three tubes of ticks received from Dr. H. F. Conyngham, Sandakan, British North Borneo, 7 May, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2118	N	2118
		RML	22295, 69994
	<u>Haemaphysalis cornigera</u> ♂'s, ♀'s		23 ♂, 7 ♀ <u>Haemaphysalis cornigera</u> (RML 22295)
			1 ♂ <u>Haemaphysalis borneata</u> (RML 69994) Holotype
	Sambar deer		<u>Cervus unicolor brookei</u>
	Bode River, Sandakan Bay		Bode River (05.41 N, 117.57 E), Sandakan Harbor, Sabah, Malaysia
	IV.1913		IV.1913
	1 ♂, 1 ♀ to Dr. de Blicck, Java 22.I.1915		Dr. H. E. Conyngham
			Collectors name with middle initial E. from vial label. Nuttall's catalogue, his book containing names of donor's to his tick collection, and Nuttall & Warburton (1915: 503) all list it as F. Hoogstraal (1971: 1096) original description of <u>H. borneata</u> .
N	2119, a, b	N	2119, a, b
		RML	111002
	(2119) <u>Boophilus australis</u> ♂'s, ♀'s		(2119) 7 ♂, 24 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma testudinarium</u> 2 ♂'s		(a) 2 ♂ <u>Amblyomma testudinarium</u>
	(b) <u>Haemaphysalis cornigera</u> ♂, ♀		(b) 1 ♂, 1 ♀ <u>Haemaphysalis cornigera</u>
	Water buffalo		<u>Bubalus bubalis</u>
	Labuk River, N. B. Borneo		Labuk River (05.55 N, 117.37 E), Sabah, Malaysia
	10.XII.1912		10.XII.1912
			Dr. H. F. Conyngham
			Cited: Nuttall & Warburton (1915: 503); Robinson (1926: 257).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2120, a

N 2120, a

(2120) Haemaphysalis proxima 2 ♀
 (a) Haemaphysalis calvus 3 ♂, 1 ♀
 TYPE

RML 111003

(2120) 2 ♀ Haemaphysalis cornigera
 (a) 3 ♂, 1 ♀ Haemaphysalis calvus
 Lectotype & paralectotype

Buffaloes

Buffaloes

Sekong River, Sandakan

Sekong River, Sandakan (05.50 N,
118.05 E), Sabah, Malaysia

IV.1913

19.IV.1913

Dr. H. F. Conyngham

Nuttall & Warburton (1915: 503) original
 description of H. calvus. The vulva of
 2120a has been removed and mounted on a
 slide. 2120 cited: Nuttall & Warburton
 (1915: 503); Hoogstraal & Wassef (1981:
 119, 120). Lectotype designated:
 Keirans & Brewster (1981: 160).

N 2121

N 2121

Haemaphysalis sp. nymphs

RML 111004

14 N Haemaphysalis sp.Jungle fowl (Gallus gallus)Gallus gallus

Yambung (1100 ft.), India

Yambung, India (335 m) (locality not
verified).

II.1912

II.1912

S. W. Kemp

S. W. Kemp

(Abor Expedition)
 [Indian Museum 1245]
 17

ORIGINAL DETERMINATIONCURRENT STATUS

N	2122	N	2122
		RML	111005
	<u>Haemaphysalis</u> sp. nymphs		3 N <u>Haemaphysalis</u> sp.
	Off grass sweepings		Off grass sweepings
	Upper Rotung (2000 ft.) India		Perhaps Rotung (28.08 N, 95.12 E), India (610 m)
	II.1912		II.1912
	S. W. Kemp		S. W. Kemp
	(Abor Expedition)		
	[Indian Museum $\frac{1246}{17}$]		

Collection of ticks received from Dr. J. Y. Wood, Medical Officer, Kaballa, Koinadugu District, Sierra Leone Protectorate, West Africa, 9 April, 1913:-

N	2123	N	2123 MISSING
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Boophilus decoloratus ♂'s, ♀'s

Dog

Mabonto, Sierra Leone

14.II.1913

16.IV.1913 sent back specimens of
"2a, 10, 11a, 20a, 21a"

N.B. All Boophilus of this
collection seem to unite
decoloratus and australis.

Hypostomes are mostly 4/4, but
the projection on article 1 of the
palps is present & the ♂ anal
plates are distinctly of the
decoloratus type. See especially
N 2137.

C.W. & G.H.F.N.

"1" [these are Wood's numbers.-
J.E.K.]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2124, a	N	2124a
		RML	111006
	(2124) <u>Boophilus decoloratus</u> ♂, ♀'s		(2124) MISSING
	(a) <u>Rhipicephalus simus</u> ♀		(a) 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Mabonto, Sierra Leone		Either Mabonto (08.38 N, 12.37 W) or (08.52 N, 11.49 W), Sierra Leone
	14.II.1913		14.II.1913
	"2"		J. Y. Wood
			Dr. Wood's initials are given both as J. Y. and J. J.
N	2125	N	2125 MISSING
	<u>Boophilus decoloratus</u> ♂, N's		
	Dog		
	Dean Securella, Sierra Leone		
	19.II.1913		
	"3"		
N	2126	N	2126 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s, N's		
	Sheep		
	Securella, Sierra Leone		
	22.I.1913		
	"4"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2127	N	2127 MISSING
	<u>Boophilus decoloratus</u> N's		
	Cows		
	Foniba, Sierra Leone		
	24.I.1913		
	"5"		
N	2128	N	2128 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s & N's		
	Goats		
	Farandugo, Sierra Leone		
	18.I.1913		
	"6"		
N	2129	N	2129
		RML	111007
	<u>Rhipicephalus sanguineus</u> ♂'s & ♀'s		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Koinadugu, Sierra Leone		Koinadugu (09.32 N, 11.22 W), Sierra Leone
	17.I.1913		17.I.1913
	"7"		J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2130	N	2130 MISSING
	<u>Boophilus decoloratus</u> ♂, ♀, N		
	Dog		
	Kamadugu, Sierra Leone		
	21.I.1913		
	"8"		
N	2131	N	2131
	<u>Boophilus decoloratus</u> ♀'s, N's	RML	111008
	Sheep		6 ♀, 3 N <u>Boophilus geigy</u>
	Kondambia, Sierra Leone		Sheep
	24.I.1913		Either Kondambia (09.09 N, 11.13 W) or (09.23 N, 11.34 W), Sierra Leone
	"9"		24.I.1913
			J. Y. Wood
N	2132	N	2132 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s, N's		
	Cattle		
	Waia, Sierra Leone		
	8.II.1913		
	"10"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2133, a	N	2133a
		RML	111009
	(2133) <u>Boophilus decoloratus</u> ♂'s, ♀'s		(2133) MISSING
	(a) <u>Amblyomma</u> sp. N		(a) 4 N <u>Amblyomma variegatum</u>
	Goats		Goats
	Kondembia, Sierra Leone		Either Kondembia (09.09 N, 11.13 W) or (09.23 N, 11.34 W), Sierra Leone
	24.I.1913		24.I.1913
	"11"		Dr. J. Y. Wood
N	2134	N	2134, a
		RML	111010
	<u>Rhipicephalus sanguineus</u> ♀		(2134) 2 ♀ <u>Rhipicephalus sanguineus</u> (a) 1 N <u>Amblyomma variegatum</u>
	Dogs		Dogs
	Kamadugu, Sierra Leone		Kamadugu (08.48 N, 11.41 W), Sierra Leone
	21.I.1913		21.I.1913
	"12"		N 2134a was not entered in the catalogue
N	2135	N	2135
		RML	111011
	<u>Amblyomma</u> sp. N		1 N <u>Amblyomma variegatum</u>
	Goat		Goat
	Kamadugu, Sierra Leone		Kamadugu (08.48 N, 11.41 W) Sierra Leone
	21.I.1913		21.I.1913
	"13"		Dr. J. Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2136, a	N	2136, a
		RML	111012
	(2136) <u>Boophilus decoloratus</u> ♀ (a) <u>Amblyomma</u> sp. N		(2136) 7 ♀ <u>Boophilus geigy</u> (a) 1 N <u>Amblyomma variegatum</u>
	Goat		Goat
	Dean Securella, Sierra Leone		Dean Securella, Sierra Leone (locality not verified)
	22.I.1913		22.I.1913
	"14"		Dr. J. Y. Wood
N	2137	N	2137 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s, N's		
	Cattle		
	Kumala, Sierra Leone		
	21.I.1913		
	"15"		
N	2138	N	2138
		RML	111013
	<u>Boophilus decoloratus</u>		2 ♂, 118 ♀ <u>Boophilus geigy</u> 4 N <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Koinadugu, Sierra Leone		Koinadugu (09.32 N, 11.22 W), Sierra Leone
	17.I.1913		17.I.1913
	"16"		J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2139	N	2139
		RML	111014
	<u>Boophilus decoloratus</u>		9 ♂, 112 ♀ <u>Boophilus geigy</u>
	Cow		Cow
	Kumala, Sierra Leone		Kumala (09.04 N, 11.24 W), Sierra Leone
	21.II.1913		21.II.1913
	"17"		J. Y. Wood
N	2140	N	2140
		RML	111015
	<u>Boophilus decoloratus</u>		9 ♀ <u>Boophilus geigy</u> 2 N <u>Amblyomma variegatum</u>
	Cows		Cows
	Dean Securella, Sierra Leone		Dean Securella, Sierra Leone (locality not verified)
	22.I.1913		22.I.1913
	"18"		
N	2141	N	2141 MISSING
	<u>Boophilus decoloratus</u>		
	Cows		
	Alakalia, Sierra Leone		
	24.II.1913		
	"19"		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2142, a	N	2142a
	(2142) <u>Boophilus decoloratus</u> (a) <u>Amblyomma variegatum</u> ♂, ♀	RML	111016
	Cattle		(2142) MISSING (a) 1 N <u>Amblyomma variegatum</u>
	Farandugu, Sierra Leone		Cattle
	18.I.1913		Farandugu (09.29 N, 11.27 W), Sierra Leone
	"20"		18.I.1913
			Dr. J. Y. Wood
N	2143, a	N	2143a
	(2143) <u>Boophilus decoloratus</u> (a) <u>Rhipicephalus falcatus</u> ♂, ♀	RML	111017
	Cattle		(2143) MISSING (a) 2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Kondembia, Sierra Leone		Cattle
	24.I.1913		Either Kondembia (09.09 N, 11.13 W) or (09.23 N, 11.34 W) Sierra Leone
	"21"		24.I.1913
			J. Y. Wood
N	2144, a, b	N	2144, a, b
	(2144) <u>Boophilus decoloratus</u> (a) <u>Amblyomma</u> sp. N (b) <u>Rhipicephalus falcatus</u> ♀'s	RML	111018
	Cattle		(2144) 2 ♀ <u>Boophilus geigy</u> (a) 2 N <u>Amblyomma variegatum</u> (b) 2 ♀ <u>Rhipicephalus senegalensis</u>
	Kondembia, Sierra Leone		Cattle
	24.I.1913		Either Kondembia (09.09 N, 11.13 W) or (09.23 N, 11.34 W), Sierra Leone
	"22"		24.I.1913
			Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2145	N	2145
		RML	111019
	<u>Boophilus decoloratus</u>		21 ♀ <u>Boophilus geigy</u>
	Cows		Cows
	Alakalia, Sierra Leone		Alidalia (09.10 N, 11.24 W), Sierra Leone
	24.II.1913		22.II.1913
	"23"		
N	2146, a	N	2146a
		RML	111020
	(2146) <u>Boophilus decoloratus</u>		(2146) MISSING
	(a) <u>Amblyomma</u> sp. N		(a) 1 N <u>Amblyomma variegatum</u>
	Cows		Cows
	Kamadugu, Sierra Leone		Kamadugu (08.48 N, 11.41 W), Sierra Leone
	21.I.1913		21.I.1913
	"24"		
N	2147	N	2147
		RML	111021
	<u>Boophilus</u> sp.		4 ♂, 21 ♀ <u>Boophilus geigy</u>
	Sheep		Sheep
	Kumala, Sierra Leone		Kumala (09.04 N, 11.24 W), Sierra Leone
	21.II.1913		21.II.1913
			J. Y. Wood
	"25"		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2148

Boophilus sp.

Cattle

Koinadugu, Sierra Leone

17.I.1913

"26"

N 2148

RML 111022

1 ♂, 35 ♀ Boophilus geigy

Cattle

Koinadugu (09.32 N, 11.22 W), Sierra Leone

17.I.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2149

N 2149

RML 111023

Rhipicephalus appendiculatus
♂'s & ♀'s

24 vials of Rhipicephalus appendiculatus
as follows: 34♂, 37 ♀; 86♂, 82♀;
42♀; 72♀; 37 ♂; 13 ♀; 112 ♂; 9 ♀;
224 ♀; 14 N; 122 N; 4 N; 276 N; 321 N;
+600 N; 5 N, 16 L; 336 L; +1000 L;
+1000 L; 4 ♀ dry in token tube; 72 ♂
dry in token tube; 1 vial of eggs in
separate egg jar

Calf

Cape Colony, S. Africa

Cape Colony, Republic of South Africa

Rec'd 10.XI.1910

Rec'd 10.XI.1910

Rec'd from Mr. C. P. Lounsbury

Rec'd from Mr. C. P. Lounsbury

[Used for East Coast Fever
investigations I raised through
several generations]
(See Parasitology, vol. VI, P. 111)
et seq.

Rearing cycle study at Cambridge,
England
Cited: Nuttall (1913d; 111)
(1913e; 197).

[2 slides, balsam mounts (I)
♂ ♀ (II) larvae]

1 ♂, ♀'s, N's, L's to Prof. Dr. Dahl, Berlin Museum VII.1914.
1 ♂, ♀'s, N's, L's to Prof. Dr. S. Schenkling, Deutsches Entomol. Mus. VII.1914.
1 ♂, 1 ♀ to Dr. E. Roubaud, Institute Pasteur, Paris 12.X.1922.
1 ♂, 1 ♀ to Prof. J. Hjort Univ. Christiana Norway, 12.X.1922.
1 ♂, 1 ♀ to Dr. A. Watkins Pitchford, Army Vet. Sch. Thorhill, Aldershot 12.X.1922.
1 ♂, 1 ♀ to L.P.W. Renouf, Biol. Dept. Univ. Coll., Cork, Ireland 12.X.1922.
1 ♂, 1 ♀ to W. A. Pool, Indian Civil Veterinary Dept. 12.X.1922.
1 ♂, 1 ♀ to Dr. Wm. Parry Morgan, Publ. Hlth. Dept., Cardiff, Wales 12.X.1922.
1 ♂, 1 ♀ to J.E.M. Mellor, Malvern, Coll., Malvern 12.X.1922.
1 ♂, 1 ♀ to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922.
1 ♂, 1 ♀ to Prof. E. Brumpt, Ecole Medicine, Paris 12.X.1922.
1 ♂, 1 ♀ to I. C. Ross, Sydney University, Australia.
♂'s, ♀'s to Dr. E. Pavlovsky, Leningrad 9.X.1925.
All stages to Prof. R. A. Cooley, Montana V.1928.
2 ♂, 2 ♀ to Dr. A. C. Reed, San Francisco 30.V.1929.
2 ♂, 2 ♀ to Prof. J. Drbohlav, Prague 30.V.1929.
LL♂s to R. W. Mettam, Weybridge IV.1931.
LL's to H. S. Purchase IV.1931.
1 ♂, 1 ♀ to Prof. D'Arcy Thompson XI.1931.
2 ♂, 2 ♀ to Prof. R. Matheson, Cornell 27.V.1929.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2150

Hyalomma aegyptium 1 ♂

Bullock

Lahore, Punjab, India

Sent 2.IV.1913

K. Walker

Sent by Major G. N. Mather,
C.V.D.

N 2150

RML 111024

1 ♂ Hyalomma anatolicum anatolicum

Bullock

Lahore (31.35 N, 74.18 E), Pakistan

Sent 2.IV.1913

K. Walker

This specimen is in a jar marked
"Tick Abnormalities."Cited and figured: Nuttall (1914a:
257) who listed the tick as being
sent by Major J. N. Mathers.

N 2151

Haemaphysalis punctata ♀'s

Sheep

Lydd, Kent

13.III.1905

C. T. Sellens

N 2151

RML 111025

3 ♀ Haemaphysalis punctata

Sheep

Lydd (50.57 N, 00.55 W), Kent, England

13.III.1905

C. T. Sellens

1 ♀ of this collection in a jar
marked "Tick Abnormalities"
Cited: Warburton & Nuttall (1909: 71).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2152	N	2152
		RML	111026
	<u>Haemaphysalis punctata</u> ♀'s		3 ♀ <u>Haemaphysalis punctata</u>
	Sheep		Sheep
	Littlebourne, Kent		Littlebourne (51.16 N, 01.10 E), Kent, England
	15.IV.1905		15.IV.1905
			All specimens in a jar marked "Tick Abnormalities." Cited: Warburton & Nuttall (1909: 71).
N	2153	N	2153 MISSING
	<u>Haemaphysalis bispinosa</u> ♂		
	"22b" from India		
	No other data [Mentioned in <u>Parasitology</u> vol. V, p. 70 (foot)]		
N	2154	N	2154 MISSING
	<u>Amblyomma hebraeum</u> 2 ♀'s Laying large numbers of eggs		
	Rec'd 12.V.1913		
	Rec'd from Messrs. Wm. Cooper & Nephews, Terminus Street, East London, South Africa [Used for raising experiments.]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2155	N	2155
		RML	111027
	<u>Ornithodoros lahorensis</u> nymphs		7 N <u>Ornithodoros lahorensis</u>
	Sharpoo (<u>Ovis vignei</u>)		<u>Ovis orientalis vignei</u>
	Gilgit, Kashmir, India		Gilgit (35.55 N, 74.18 E), Kashmir, India
	20.III.1913		20.III.1913
	Rec'd from Captain G. D. Franklin, 12 May, 1913		Rec'd from Captain G. D. Franklin, 12 May, 1913
	(C. W. det. 1917)		
N	2156, a	N	2156
		RML	111028
	(2156) <u>Dermacentor niveus</u> ♂ & ♀		(2156) 11 vials of <u>Dermacentor niveus</u> as follows: 2 ♂; 3 ♀; 12 N; 40 L; 4 ♂, 5 ♀, 7 N; 3 ♀; 24 L; 21 N; 124 L; 50 ♂, 86 ♀; 9 ♂, 7 ♀, 7 N.
	(a) <u>Hyalomma aegyptium</u>		(a) MISSING
	<u>Tamarix gallica</u> (shrub)		<u>Tamarix gallica</u>
	Pina, Zaragoza, Spain		Pina de Ebro (41.29 N, 00.32 W) Provincia de Zaragoza, Spain
	12.V.1913		12.V.1913
	Rec'd from Dr. Longin Navas, Colegio del Salvador, Zaragoza, 16.V.1913		Rec'd from Dr. Longin Navas, Colegio del Salvador, Zaragoza, 16.V.1913
	[♂ & ♀ 2156 painted alive by Wilson. Placed on sheep, copulated, ♂ lost, ♀ oviposited, eggs fertile, progeny being raised G.H.F.N.]		Ticks raised on ram at Cambridge Cited: Nuttall (1915: 421) ; Cited & Figured: Nuttall (1920: 2, pl II, figs. 4,5).

Five tubes of ticks received from P. A. Buxton, Esq., Trinity College,
Cambridge, 16 May, 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	2157	N	2157
		RML	111029
	<u>Ixodes brunneus</u> ♀		1 N <u>Ixodes ricinus</u>
	<u>Hawfinch Coccothraustes c. burryi</u>		<u>Coccothraustes c. burryi</u>
	Hammam-Meskoutine, E. Algeria, N. Africa		Hammam Meskoutine (36.27 N, 07.16 E), Algeria
	31.III.1913		31.III.1913
	P. A. B.		P. A. Buxton
			Patrick Alfred Buxton (1892-1955) Diploma in tropical medicine 1921, Entomologist in Palestine and 2 years later to Samoa. Well known Medical Entomologist and author of books on The Louse, History of Tsetse Flies and Memoirs on Trypanosomiasis in Eastern Africa.
			Cited: Nuttall (1916: 325).
N	2158	N	2158
		RML	111030
	<u>Rhipicephalus (Pterygodes)</u> <u>fulvus</u> N's		20 N, 1 L <u>Rhipicephalus fulvus</u>
	<u>Gundi (Ctenodactylus gundi)</u> a rodent		<u>Ctenodactylus gundi</u>
	El Kantara, Algeria, N. Africa		El Kantara (35.13 N, 05.43 E), Algeria
	14.IV.1913		14.IV.1913
	P. A. B.		P. A. Buxton

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2159	N	2159
		RML	111031
	<u>Hyalomma syriacum</u> ♂'s		6 ♂ <u>Hyalomma aegyptium</u>
	Tortoise (<u>Testudo</u> sp.)		<u>Testudo</u> sp.
	Hamam-Meskoutine, E. Algeria, N. Africa		Hamam Meskoutine (36.27 N, 07.16 E), Algeria
	1.IV.1913		1.IV.1913
	P. A. B.		P. A. Buxton
N	2160	N	2160 MISSING
	<u>Ixodes ricinus</u> ♀		
	Crested Lark		
	Hamam-Meskoutine, E. Algeria, N. Africa		
	31.III.1913		
	P. A. B.		
N	2161	N	2161
		RML	111032
	<u>Hyalomma</u> sp. N		1 N <u>Hyalomma</u> sp.
	Sand plover (<u>Aegialitis cantiana</u>)		<u>Charadrius alexandrinus</u>
	Garaet Achkal, N.E. Tunisia, N. Africa		Qar'at al Ashkal (37.10 N, 09.40 E) Banzart, Tunisia
	26.III.1913		26.III.1913
	P. A. B.		P. A. Buxton

Ticks received from Dr. O. Wagner, Successor de J. Meyer, Botica Inglesa, Union-Espaderos, Lima, Peru, S. America:-

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	2162	N	2162
		RML	111033
	<u>Boophilus australis</u> ♀'s		15 ♀ <u>Boophilus annulatus</u>
	Cattle		Cattle
	Lima, Peru		Lima (12.03 S, 77.03 W), Peru
	II.1913		II.1913
			See remark under N 1830
N	2163	N	2163
		RML	111034
	<u>Boophilus australis</u> ♀'s		17 ♀ <u>Boophilus annulatus</u>
	Cattle		Cattle
	Lima, Peru		Lima (12.03 S, 77.03 W), Peru
	II.1913		II.1913
			See remark under N 1830
N	2164	N	2164
		RML	111035
	<u>Ixodes hexagonus</u> 1 ♀, 2 N's, 2 L		1 ♀, 2 N, 1 L <u>Ixodes hexagonus</u>
	White ferret		<u>Mustela furo</u>
	White House Farm, Gresford, near Wrexham, North Wales		White House Farm, Gresford (53.05 N, 02.58 W), Wales
	19.V.1913		19.V.1913
	Sent by Miss G. D. Hay, 21.V.1913		Sent by Miss G. D. Hay, 21.V.1913
			Cited: Nuttall (1916: 328).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2165

N 2165 MISSING

Haemaphysalis sp. 6 larvae
(mounted in balsam)

Parents off cattle?

North Island, New Zealand

IV.1913

Rec'd from C. J. Reakes, Esq.,
Officer in Charge, Veterinary
Laboratory, Dept. of Agriculture,
Industries & Commerce,
Wallaceville, New Zealand,
20 May, 1913. [a slide]

Five tubes of ticks received from E. A. Copeman, Esq., Broken Hill, N. Rhodesia,
British Central Africa, 24 May, 1913:-

N 2166

N 2166 MISSING

Ornithodoros moubata

Human beings (natives)

Broken Hill, N. Rhodesia

II-III.1913

[Native name Mkufu]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2167, a	N	2167
		RML	111036
	(2167) <u>Boophilus decoloratus</u> ♀'s (a) <u>Amblyomma variegatum</u> 2 ♂, 1 ♀		(2167) 8 ♀ <u>Boophilus decoloratus</u> (a) MISSING
	Cattle		Cattle
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	III.1913		III.1913
	♀'s to Dr. K. F. Meyer, Univ. California, Berkeley 15.XI.1913. Some (sex/stage not stated) to Prof. O. Duboscq, Montpellier, France 10.II.1914.		
N	2168	N	2168 MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀'s		
	Sheep		
	Broken Hill, N. Rhodesia		
	IV.1913		
N	2169 a, b	N	2169, a, b
		RML	111037
	(2169) <u>Rhipicephalus sulcatus</u> ♂'s, ♀'s		(2169) 13 ♂, 29 ♀ <u>Rhipicephalus sulcatus</u>
	(a) <u>Ixodes rubicundus</u> 3 ♀'s		(a) 3 ♀ <u>Ixodes cavipalpus</u>
	(b) <u>Haemaphysalis leachi</u> 2 ♀'s		(b) 2 ♀ <u>Haemaphysalis leachi</u>
	Dogs		Dogs
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	II-III.1913		II-III.1913
	<u>R. sulcatus</u> compared 18.VI.1914 with <u>R. sulcatus</u> 1 ♂, 1 ♀ types No. 1439 in Neumann's coll., our ♂ identical but smaller = <u>R. sanguineus</u> var. <u>sulcatus</u> (Nn) Warb. & Nutt.		2169a cited: Nuttall (1916: 333). 2169b cited: Nuttall & Warburton (1915: 470).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2170, a-c	N	2170, c
		RML	111038
	(2170) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(2170) 25 ♂, 5 ♀ <u>Amblyomma variegatum</u>
	(a) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(a) MISSING
	(b) <u>Hyalomma aegyptium</u> 1 ♀		(b) MISSING
	(c) <u>Boophilus decoloratus</u> ♀'s		(c) 10 ♀ <u>Boophilus decoloratus</u>
	Sheep		Sheep
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	II-III.1913		II-III.1913
	1 ♂, 1 ♀ <u>R. evertsi</u> to J. de Meza, Zomba, Nyasaland 19.II.1916		Vial label for <u>Boophilus decoloratus</u> collection incorrectly reads 2170b.
N	2171, a	N	2171, a
		RML	111039
	(2171) <u>Hyalomma aegyptium</u> ♂, ♀'s		(2171) 5 ♂, 4 ♀ <u>Hyalomma marginatum</u>
	(a) <u>Rhipicephalus sanguineus</u> ♀'s		(a) 9 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Huelva, Spain		Huelva (37.16 N, 06.57 W), Spain
	20.V.1913		20.V.1913
	Received from Dr. Ian Macdonald, Casa Colon, Huelva, 26.V.1913.		Received from Dr. Ian Macdonald, Casa Colon, Huelva, 26.V.1913.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2172	N	2172
		RML	66647
	<u>Rhipicephalus (Pterygodes) fulvus</u>		1 ♂, 2 ♀, 2 N <u>Rhipicephalus fulvus</u>
	Gondi		<u>Ctenodactylus gundi</u>
	Matmata, S. Tunisia, N. Africa (1,000-1,500 ft.)		Matmatah (33.33 N, 09.58 E), Tunisia (305-457 m)
	Rec'd 8 May, 1913		Rec'd 8 May, 1913
	Rec'd from Miss Helen L. M. Pixell (Lister Institute, London, S.W.)		Rec'd from Miss Helen L. M. Pixell (Lister Institute, London, S.W.)
			One nymphal skin present
N	2173	N	2173
		RML	111040
	<u>Ornithodoros moubata</u>		1 ♂, 8 N <u>Rhipicephalus</u> sp.
	Native prison		Native prison
	Uganda, E. Africa		Uganda
	IV.1913		IV.1913
	Dr. J. Howard Cook		Dr. J. Howard Cook
	Received 26.V.1913		The ♂ had just molted to an adult when it was killed. It is a shriveled runt and difficult to examine.
N	2174	N	2174
		RML	111041
	<u>Hyalomma syriacum</u> ♂'s, ♀'s		8 ♂ <u>Hyalomma aegyptium</u>
	Tortoise		Tortoise
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	26.V.1913		26.V.1913
	B. G. Clarke		B. G. Clarke
	[Used for raising experiments.]		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2175	N	2175 MISSING
	<u>Boophilus annulatus</u> ♀'s		
	Cattle		
	Fray Bentos, Uruguay, S. America		
	III.1913		
	Rec'd from Dr. Breitung 28.V.1913		
	Ten tubes of ticks received from Dr. S. T. Darling, Department of Sanitation, Ancon, Canal Zone, Panama, Central America, 28 May, 1913:-		
N	2176	N	2176
		RML	111042
	<u>Amblyomma dissimile</u> ♂, ♀, N, L		2 ♂, 1 N, 1 L <u>Amblyomma dissimile</u>
	Green snake (<u>Oxybelis acuminatus</u>)		<u>Oxybelis aeneus</u>
	Panama		Panama
	IV.1913		IV.1913
			Cited: Robinson (1926: 167).
N	2177	N	2177
		RML	111043
	<u>Ornithodoros talaje</u>		5 ♂, 2 ♀, 3 N <u>Ornithodoros talaje</u>
	From bamboo bed in native shack		From bamboo bed in native shack
	Chorrera, Republic of Panama		La Chorrera (08.53 N, 79.47 W), Panama
	IV.1913		IV.1913
	("Chinche mammones")		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2178	N	2178
		RML	111044
	<u>Amblyomma cajennense</u> 2 ♂'s		2 ♂ <u>Amblyomma cajennense</u>
	Native horses		Horses
	Chorrera, Rep. of Panama		La Chorrera (08.53 N, 79.47 W), Panama
	IV.1913		IV.1913
			Cited: Robinson (1926 : 53).
N	2179	N	2179 MISSING
	<u>Amblyomma cajennense</u> 2 ♀'s		
	Native horse		
	Chorrera, Rep. of Panama		
	IV.1913		
N	2180	N	2180 MISSING
	<u>Amblyomma cajennense</u> 2 ♀'s		
	Native horse		
	Chorrera, Rep. of Panama		
	IV.1913		
N	2181	N	2181
		RML	111045
	<u>Dermacentor nitens</u> N's		5 N <u>Anocentor nitens</u>
	Native horse		Horse
	Chorrera, Rep. of Panama		La Chorrera (08.53 N, 79.47 W), Panama
	IV.1913		IV.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2182	N	2182 MISSING
	<u>Amblyomma cajennense</u> 1 ♂ & N's		
	Native horse		
	Chorrera, Rep. of Panama		
	IV.1913		
N	2183	N	2183
		RML	111046
	<u>Amblyomma cajennense</u> 3 N's		
	Native horse		Horse
	Chorrera, Rep. of Panama		La Chorrera (08.53 N, 79.47 W), Panama
	IV.1913		IV.1913
			Cited: Robinson (1926: 53).
N	2184, a	N	2184
		RML	111047
	(2184) <u>Dermacentor nitens</u> 1 ♂		(2184) 1 ♂ <u>Anocentor nitens</u>
	(a) <u>Amblyomma cajennense</u> 1 N		(a) MISSING
	Native horse		Horse
	Chorrera, Rep. of Panama		La Chorrera (08.53 N, 79.47 W), Panama
	IV.1913		IV.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2185	N	2185
		RML	111048
	<u>Amblyomma dissimile</u> ♂'s & ♀'s		4 ♂, 3 ♀ <u>Amblyomma dissimile</u>
	Snake (sp. unknown)		Snake
	Panama		Panama
	IV.1913		IV.1913
	[2 ♀ mounted in cells with other <u>Amblyomma</u> spp.]		Slide missing
	1 ♂, 1 ♀ to Prof. E. Brumpt, Paris		Robinson (1926: 167) gave the species of snake as <u>Oxybelis acuminatus</u> .
N	2186	N	2186
		RML	111049
	<u>Boophilus australis</u> ♀'s		50 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Fray Bentos, Uruguay, S. America		Fray Bentos (33.08 S, 58.18 W), Uruguay
	IV.1913		IV.1913
	Rec'd from Dr. Breitung, 28.V.1913		Rec'd from Dr. Breitung, 28.V.1913
N	2187, a	N	2187
		RML	111050
	(2187) <u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s, ♀'s		(2187) 7 ♂, 3 ♀, 2 N <u>Aponomma varanensis</u>
	(a) <u>Amblyomma decoratum</u>		(a) MISSING
	<u>Varanus salvator</u>		<u>Varanus salvator</u>
	Buitenzorg, Java, Dutch East Indies		Bogor (06.35 S, 106.47 E), Java, Indonesia
	14.IV.1913		14.IV.1913
	Rec'd from F. P. Jepson 29.V.1913		Rec'd from F. P. Jepson 29.V.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2188, a	N	2188
		RML	105656
	(2188) <u>Rhipicephalus simus</u> ♂'s, ♀'s		(2188) 15 ♂, 4 ♀ <u>Rhipicephalus simus</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) MISSING
	Wart-hogs		<u>Phacochoerus aethiopicus</u>
	Mwengwa, Mumbwa, via Broken Hill, N. Rhodesia, B.C. Africa		Mwengwa (15.17 S, 25.59 E), Zambia
	21.IV.1913		21.IV.1913
	Rec'd from L. C. Heath, Esq., 2.VI.1913		Rec'd from L. C. Heath, Esq., 2.VI.1913
	1 ♂, 1 ♀ <u>R. simus</u> to Dr. S. Hadwen, British Columbia 10.X.1913.		
	Four tubes of ticks received from Dr. T. L. Bancroft, Eidsvold, Queensland, Australia, 3 June, 1913:-		
N	2189	N	2189
		RML	111051
	<u>Aponomma decorosum</u> ♂'s & N's		14 ♂, 10 N <u>Aponomma decorosum</u>
	<u>Varanus varius</u>		<u>Varanus varius</u>
	Queensland		Queensland, Australia
	IV.1913		IV.1913
	T.L.B.		T. L. Bancroft
			The 14 ♂ cited by Kaufman (1972: 369).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2190	N	2190
		RML	111052
	<u>Ixodes tasmani</u> 1 ♀		1 ♀ <u>Ixodes tasmani</u>
	<u>Trichosurus vulpecula</u>		<u>Trichosurus vulpecula</u>
	Queensland		Queensland, Australia
	IV.1913		IV.1913
	T. L. Bancroft		T. L. Bancroft
			Cited and figured: Nuttall (1916: 323).
N	2191	N	2191
		RML	111053
	<u>Boophilus australis</u> L & eggs		64 L plus eggs <u>Boophilus microplus</u>
	Parents off cattle		Cattle
	Burnett District, Queensland		Burnett District, Queensland, Australia
	IV.1913		IV.1913
	T.L.B.		T. L. Bancroft
N	2192	N	2192
		RML	111054
	<u>Haemaphysalis</u> sp. 1 N		1 N <u>Haemaphysalis bancrofti</u>
	<u>Macropus dorsalis</u>		<u>Macropus dorsalis</u>
	Queensland		Queensland, Australia
	IV.1913		IV.1913
	T.L.B.		T. L. Bancroft

ORIGINAL DETERMINATIONCURRENT STATUS

N	2193	N	2193
		RML	111055
	<u>Rhipicephalus sanguineus</u> 1 ♀ & eggs		1 ♀, many eggs <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Matmata, S. Tunisia, N. Africa		Matmatah (33.33 N, 09.58 E), Tunisia
	IV.1913		IV.1913
	Miss Helen L. M. Pixell Rec'd 4.VI.1913		Miss Helen L. M. Pixell Rec'd 4.VI.1913
Ticks retained from the collection submitted for determination by Dr. J. H. Ashworth, Zoological Department, The University, Edinburgh, N.B. 30 May, 1913:-			
N	2194	N	2194
		RML	111056
	<u>Rhipicephalus falcatus</u> ♂ & ♀		1 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Forea, Sierra Leone, W. Africa		Perhaps Fore (09.44 N, 11.09 W), Sierra Leone
	28.II.1913		28.II.1913
	Dr. J. Y. Wood "3a"		Dr. J. Y. Wood "3a"
N	2195	N	2195 MISSING
	<u>Boophilus australis</u> ♂'s, ♀'s		
	Cow (sick)		
	Kondambia, Sierra Leone, W. Africa		
	24.I.1913		
	Dr. J. Y. Wood "4"		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2196	N	2196
		RML	111057
	<u>Amblyomma marmoreum</u> 2 ♂		2 ♂ <u>Amblyomma nuttalli</u>
	<u>Varanus exanthematicus</u>		<u>Varanus exanthematicus</u>
	N. Nigeria		Nigeria
	1912		1912
	Dr. J. M. Dalziel "3"		Dr. J. M. Dalziel "3"
			Cited: Santos Dias (1958: 513); Theiler & Salisbury (1959: 115).
N	2197	N	2197
		RML	111058
	<u>Rhipicephalus sanguineus</u> ♂'s & ♀'s		24 ♂, 11 ♀ <u>Rhipicephalus sanguineus</u>
	Civet cat		<u>Genetta</u> sp.
	Baro, N. Nigeria, W. Africa		Either Baro (08.36 N, 06.25 E), or (10.57 N, 08.20 E), Nigeria
	2.X.1910		2.X.1910
	Dr. Dalziel "4"		Dr. Dalziel "4"
N	2198	N	2198
		RML	111059
	<u>Haemaphysalis leachi</u> ♂'s & ♀'s		3 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	Civet cat		<u>Genetta</u> sp.
	Baro, N. Nigeria, W. Africa		Either Baro (08.36 N, 06.25 E) or (10.57 N, 08.20 E), Nigeria
	2.X.1910		2.X.1910
	Dr. Dalziel "4b"		Dr. Dalziel "4b"
			Cited: Nuttall & Warburton (1915: 473).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2199	N	2199
		RML	111060
	<u>Amblyomma marmoreum</u> 4 ♂'s		4 ♂ <u>Amblyomma nuttalli</u>
	<u>Varanus exanthematicus</u>		<u>Varanus exanthematicus</u>
	Abinsi, N. Nigeria		Abinsi (07.45 N, 08.45 E), Nigeria
	XI.1912		XI.1912
	Dr. Dalziel "5"		Dr. Dalziel "5"
			Cited: Santos Dias (1958: 513); Theiler & Salisbury (1959: 115).
N	2200	N	2200
		RML	111061
	<u>Aponomma exornatum</u> ♂'s & N's		5 ♂, 5 N <u>Aponomma flavomaculatum</u>
	<u>Varanus exanthematicus</u>		<u>Varanus exanthematicus</u>
	Abinsi, N. Nigeria		Abinsi (07.45 N, 08.45 E), Nigeria
	XI.1912		XI.1912
	Dr. Dalziel "5a"		Dr. Dalziel "5a"

Eleven tubes of ticks received for determination from F. Eugene Mason, Esq., M.R.C.V.S., Public Health Department, Cairo, Egypt, 4 June, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2201	N	2201
		RML	66655
	<u>Rhipicephalus sanguineus</u> ♂'s & ♀'s		39 ♂, 48 ♀, 2 N <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Cairo		Cairo (30.03 N, 31.15 E), Egypt
	1913		1913
N	2202, a	N	2202a
		RML	111062
	(2202) <u>Hyalomma aegyptium</u> ♂'s, ♀'s (a) <u>Rhipicephalus bursa</u> ♂'s, 1 ♀		(2202) MISSING (a) 2 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Khartoum		Khartoum (15.36 N, 32.32 E), Sudan
	1913		1913
N	2203, a	N	2203
		RML	111063
	(2203) <u>Amblyomma lepidum</u> ♂'s (a) <u>Hyalomma aegyptium</u> ♂, ♀		(2203) 8 ♂ <u>Amblyomma lepidum</u> (a) MISSING
	Cattle		Cattle
	Sudan		Sudan
	1913		1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2204	N	2204
		RML	111064
	<u>Amblyomma lepidum</u> ♂'s, ♀'s		1 ♂, 1 ♀ <u>Amblyomma lepidum</u>
	Cattle		Cattle
	Sudan		Sudan
	1913		1913
			Cited: Robinson (1926: 97).
N	2205, a, b	N	2205a, b
		RML	111065
	(2205) <u>Hyalomma aegyptium</u> ♂, ♀		(2205) MISSING
	(a) <u>Amblyomma lepidum</u> ♂, ♀'s		(a) 1 ♂, 3 ♀ <u>Amblyomma lepidum</u>
	(b) <u>Rhipicephalus sanguineus</u> 2 ♀'s		(b) 2 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Wady Halfa, Egypt		Wadi Halfa (21.56 N, 31.20 E), Sudan
	1913		1913
N	2206	N	2206 MISSING
	<u>Hyalomma aegyptium</u> N's		
	Camel		
	Egypt		
	1913		

<u>CURRENT DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2207	N	2207
		RML	111066
	<u>Argas persicus</u>		5 ♂, 8 ♀, 14 N <u>Argas persicus</u>
	Fowls (after death on a farm)		Fowls (after death on a farm)
	Cairo		Cairo (30.03 N, 31.15 E), Egypt
	1913		1913
N	2208, a	N	2208
		RML	111067
	(2208) <u>Boophilus annulatus</u> ♂'s, ♀'s		(2208) 3♂, 20 ♀, 1 N <u>Boophilus annulatus</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s		(a) MISSING
	Egyptian cattle (during an outbreak of Texas fever)		Cattle, Egyptian (during an outbreak of Texas fever)
	Lower Egypt		Lower Egypt
	1913		1913
N	2209	N	2209
		RML	111068
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		2 ♂, 10 ♀ <u>Rhipicephalus guilhoni</u>
	Egyptian sheep (after an outbreak of Malaria)		Sheep, Egyptian (after an outbreak of Malaria)
	Lower Egypt		Lower Egypt
	1913		1913
			Tentative identification; the ♂ spiracular plates have a very wide dorsal extension.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2210, a	N	2210a
	(2210) <u>Hyalomma aegyptium</u> ♂'s, ♀'s (a) <u>Amblyomma lepidum</u> ♂'s	RML	111069
	Sudan cattle		(2210) MISSING (a) 5 ♂ <u>Amblyomma lepidum</u>
	Cairo abattoir		Cattle, Sudanese
	1913		Abattoir, Cairo (30.03 N, 31.15 E), Egypt
	[2 ♂ mounted in cell on slide]		1913
			2210a cited: Robinson (1926: 97).
N	2211	N	2211
	<u>Boophilus</u> sp. N's	RML	111070
	Egyptian bull (at close of an attack of Egyptian fever)		15 N <u>Boophilus annulatus</u>
	Cairo		Bull, Egyptian (at close of an attack of Egyptian fever)
	1913		Cairo (30.03 N, 31.15 E), Egypt
			1913
	Ticks received from L. C. Heath, Esq., Mwendwa, Mumbwa, N. Rhodesia, B. C. Africa, 9 June 1913:-		
N	2211 Z	N	2211 Z
	<u>Rhipicephalus neavei</u> var. <u>punctatus</u> 3 ♂'s	RML	111071
	Duikerbok		2 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	Mwendwa, Mumbwa, N. Rhodesia		<u>Sylvicapra grimmia</u>
	30.IV.1913		Mwendwa (15.17 S, 25.59 E), Zambia
			30.IV.1913
			When turning from page 140 to 141 in his catalogue, Nuttall inadver- tently repeated N 2211

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2212, a	N	2212
		RML	111072
	(2212) <u>Rhipicephalus simus</u> ♂'s, ♀'s		(2212) 5 ♂, 2 ♀ <u>Rhipicephalus simus</u>
	(a) <u>Hyalomma aegyptium</u> ♂, ♀		(a) MISSING
	Wart-hog		<u>Phacochoerus aethiopicus</u>
	Mwengwa, Mumbwa, N. Rhodesia		Mwengwa (15.17 S, 25.59 E), Zambia
	30.IV.1913		30.IV.1913
N	2213	N	2213 MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀		
	Off. Mr. Dollman's leg		
	Mwengwa, Mumbwa, N. Rhodesia		
	30.IV.1913		

Eleven tubes of ticks received from Professor Louis E. Migone, Asuncion, Paraguay, South America, 4 June 1913:-

ORIGINAL DETERMINATION

CURRENT STATUS

N 2214

N 2214

RML 111073

Amblyomma cajennense ♀'s

9 ♀ Amblyomma cajennense

7 ♀ Amblyomma coelebs

Man, cow, dog, some on leaves of trees

Man, cow, dog, some on leaves of trees

Forests of San Pedro, Alto, Paraguay

Forests of San Pedro (24.07 S, 56.59 W), Paraguay

1.II-.1.III.1913

1.II-1.III.1913

[2214-2216] Prof. Migone wrote 7.XII.1913 regarding these ticks. A. cajennense called in the Guarani language there "Yatebu'vacapi", "Yatebu'Panuelo" or "Yatebu'corbata". Yatebu' is the generic name for tick. "vacapi" = hide; "panuelo" [Spanish] = handkerchief; "corbata" [Spanish] = neck-kerchief. The names meaning tick looking like a hide or have [?] a handkerchief or neck-kerchief. This tick more in the large forests than in the plains, on vegetation, ferociously attack man, cattle, tapir, dog, etc; effects of bite bad (sent reprint) see Migone (1913 Bull. Soc. Path. Exot. VI.118) where refers to effect of bite as bad "when the weather is dry they can be heard walking in the dry leaves on the ground approaching their prey." A. cajennense N's called in Guarani "Yatebu'pÿtami" or "Yatebu poropi" = red ticks or ticks that bite." They live in numbers on leaves in May, falling off in hundreds on the passerby. He adds "They scarcely attack the animals." A. cajennense abounds now in all N. of Paraguay attacking man, wild & domesticated animals of all sorts.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2215	N	2215
		RML	111074
	<u>Amblyomma cajennense</u> ♂'s		5 ♂ <u>Amblyomma cajennense</u> 3 ♂ <u>Amblyomma coelebs</u>
	Man, cow, dog, some on leaves of trees		Man, cow, dog, some on leaves of trees
	Forests of San Pedro, Alto, Paraguay		Forests of San Pedro (24.07 S, 56.59 W), Paraguay
	1.II-1.III.1913		1.II-1.III.1913
N	2216	N	2216
		RML	111075
	<u>Amblyomma cajennense</u> gorged N's		61 N <u>Amblyomma</u> sp.
	Man, cow, dog, some on leaves of trees		Man, cow, dog, some on leaves of trees
	San Pedro, Paraguay		San Pedro (24.07 S, 56.59 W), Paraguay
	1.II-1.III.1913		1.II-1.III.1913
N	2217	N	2217
		RML	111076
	<u>Ornithodoros talaje</u>		8 ♂, 18 ♀, 4 N <u>Ornithodoros talaje</u>
	Asuncion, Paraguay		Asuncion (25.16 S, 57.40 W), Paraguay
	1913		1913
	L. E. Migone		L. E. Migone
	"Fowl lice." Abounds in fowl yards & unkempt places. Migone doesn't think spirochaetosis occurs there.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2218	N	2218
		RML	111077
	<u>Ornithodoros rostratus</u> (3)		1 ♂, 2 ♀ <u>Ornithodoros rostratus</u>
	North Paraguay		Paraguay, northern
	II.1913		II.1913
	L. E. Migone		L. E. Migone
	Called by Brazilians in Portuguese "garrapata do chas" = ticks of the soil. They attack man, fowl, dog. (see 2676)		
N	2219, a, b	N	2219, a, b
		RML	111078
	(2219) <u>Amblyomma ovale</u> 3 ♂, 2 ♀		(2219) 2 ♂, 1 ♀ <u>Amblyomma ovale</u>
	(a) <u>Amblyomma cajennense</u> ♂, ♀		(2219) 1 ♂, 1 ♀ <u>Amblyomma striatum</u>
	(b) <u>Amblyomma cooperi</u> 1 ♂		(a) 1 ♂, 1 ♀ <u>Amblyomma cajennense</u>
			(b) 1 ♂ <u>Amblyomma braziliense</u>
	Man and cow		Man and cow
	San Pedro, Alto, Paraguay		San Pedro (24.07 S, 56.59 W), Paraguay
	II.1913		II.1913
			2219, a cited: Robinson (1926: 29 and 53) respectively.
N	2220	N	2220
		RML	113641
	<u>Boophilus australis</u> ♂'s, ♀'s		6 ♂, 9 ♀ <u>Boophilus microplus</u>
	Horse		Horse
	San Bernardino, Argentine Republic		San Bernardino (30.49 S, 64.01 W) Provincia de Córdoba, Argentina
	V.1913		V.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2221	N	2221 MISSING
	<u>Boophilus australis</u> ♂, ♀'s		
	Horse		
	San Pedro, Paraguay		
	V.1913		
N	2222, a, b	N	2222, b
		RML	111079
	(2222) <u>Amblyomma cajennense</u> ♂'s, ♀'s		(2222) 7 ♂, 5 ♀, 1 N <u>Amblyomma cajennense</u>
	(a) <u>Boophilus australis</u> ♂, ♀'s, N's		(a) MISSING
	(b) <u>Amblyomma ovale</u> 4 ♀		(b) 4 ♀ <u>Amblyomma striatum</u>
	Cow		Cow
	San Pedro, Paraguay		San Pedro (24.07 S, 56.59 W), Paraguay
	II.1913		II.1913
	(b) det. L. E. Robinson 1926		Cited: Robinson (1926: 53).
N	2223	N	2223 MISSING
	<u>Boophilus australis</u> ♂, ♀'s, N's		
	Cattle		
	San Bernardino, Paraguay		
	V.1913		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2224, a	N	2224
	(2224) <u>Amblyomma ovale</u> 1 ♀ (a) <u>Amblyomma</u> sp. 2 ♀'s	RML	111080
	(2224) Hunting dog (a) Tapir (hunted by the dog)		(2224) 1 ♀ <u>Amblyomma ovale</u> (a) MISSING
	Villa Rica, Paraguay		Dog, hunting
	I.1913		Villarrica (25.45 S, 56.26 W), Paraguay
	L. E. Robinson det. 1926		I.1913
			2224 figured: Robinson (1926: 28).
	Five tubes of ticks received from Walter W. Charter, Esq., Inspector of Agriculture, Repartição de Agricultura Quelimane, Zambezia, Portuguese E. Africa 27.IV.1913:-		
N	2225	N	2225
	<u>Boophilus australis</u> ♂'s, ♀'s, N's	RML	111081
	Cattle		6 ♂, 23 ♀ <u>Boophilus microplus</u>
	Zambezia		Cattle
	27.IV.1913		Distrito da Zambezia (17.00 S, 37.00 E), Mozambique
N	2226	N	2226
	<u>Boophilus australis</u> 1 ♂, ♀'s	RML	111082
	Cattle		23 ♀ <u>Boophilus microplus</u>
	Bompona, Zambezia		Cattle
	27.IV.1913		Bompona (17.34 S, 35.19 E), Distrito da Zambezia, Mozambique
			27.IV.1913

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2227	N	2227
		RML	111083
	<u>Boophilus australis</u> 1 ♂, ♀'s		1 ♂, 18 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Zambezia		Distrito da Zambezia (17.00 S, 37.00 E), Mozambique
	27.IV.1913		27.IV.1913
N	2228	N	2228
		RML	111084
	<u>Boophilus australis</u> 2 ♂'s, ♀'s		1 ♂, 19 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Zambezia		Distrito da Zambezia (17.00 S, 37.00 E), Mozambique
	27.IV.1913		27.IV.1913
N	2229, a	N	2229
		RML	111085
	(2229) <u>Boophilus australis</u> 2 ♂'s ♀'s		(2229) 3 ♂, 11 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma variegatum</u> 2 ♀		(a) MISSING
	Cattle		Cattle
	Zambezia		Distrito da Zambezia (17.00 S, 37.00 E), Mozambique
	27.IV.1913		27.IV.1913

ORIGINAL DETERMINATION

N 2230

Ornithodoros tholozani (1) alive

Quetta, Baluchistan, India

1912

Major G. Browse, I.M.S.

Rec'd from Colonel Sir W. B. Leishman, R.A.M.C., London, S.W., 31.V.1912

[Used for raising experiments - failed. Tick died 22.I.1912

Kept at room temperature]

[Moult on slide]

Some given to D. S. MacLagan

14.X.38.

CURRENT STATUS

N 2230

RML 111086

1 ♀ Ornithodoros tholozani

Quetta (30.12 N, 37.00 E), Pakistan

1912

Major G. Browse, I.M.S.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2231

N 2231

RML 111087

Argas persicus (all stages)2 N, +500 L. Argas persicus group

Fowls

Fowls

Adelaide, South Australia

Adelaide (34.55 S, 138.35 E),
Australia

Rec'd 17.VI.1913

Rec'd 17.VI.1913

Rec'd from D. F. Lauria, Esq.,
Government Poultry Expert, AdelaideRec'd from D. F. Lauria, Esq.,
Government Poultry Expert, Adelaide

♂, ♂ all sizes to H. S. Purchase IV.1931.

♂, ♀ all sizes to R. W. Mettam, Weybridge IV.1931.

Different stages to Prof. E. Malvoz, Liège 30.V.1929.

Different stages to E. T. Boardman, Univ. Florida, Gainesville 30.V.1929.

1 ♂, 1 ♀, 1 N, 1 L to Dr. A. C. Reed, San Francisco 30.IV.1929.

1 ♂, 1 ♀, 1 N, 1 L to Prof. J. Drbohlav, Prague 30.V.1929.

1 ♂, 1 ♀, 1 N, 1 L to Prof. R. Matheson, Cornell 27.V.1929.

LL's to I. C. Ross, Univ. of Sydney, Australia

LL's to Prof. E. Brumpt, L'École de Médecine, Paris 12.X.1922.

Some (sex/stage unknown) to Dr. K. F. Meyer, Univ. California, Berkeley
15.XI.1913.

Some (sex/stage unknown) to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.VI.1914.

1 ♂, 1 ♀ to Dr. de Blicck, Java 22.I.1915

LL's to Dr. E. Roubaud, Inst. Pasteur, Paris 12.X.1922.

LL's to Prof. J. Hjort, Univ. Christiania, Norway 12.X.1922.

LL's to Dr. A. Watkins Pitchford, Army Vet. School, Thornhill, Aldershot
12.X.1922.

LL's to L.P.W. Renouf, Univ. College, Cork, Ireland 12.X.1922.

LL's to W. A. Pool, Indian Civil Vet. Dept. 12.X.1922.

LL's to Dr. Wm. Parry Morgan, Publ. Hlth. Lab, Cardiff, Wales 12.X.1922.

LL's to J.E.M. Mellor, Malvern College, Malvern 12.X.1922.

LL's to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922.

Four tubes of ticks received from R. Stokoe, Esq., M.R.C.V.S., Lakhon, Lampang, Siam, Farther India, 17 June, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2232	N	2232
		RML	84532
	<u>Haemaphysalis wellingtoni</u> ♂'s, 1 ♀, N's		8 ♂, 1 ♀, 1 N <u>Haemaphysalis wellingtoni</u>
	Chicken		Chicken
	Lakhon, Lampang		Lampang (18.18 N, 99.31 E), Thailand
	IV. 1913		IV. 1913
			Nuttall & Warburton (1915: 481) gave the specimen numbers as 6 ♂, 1 ♀, 3 N
N	2233	N	2233
		RML	111088
	<u>Haemaphysalis wellingtoni</u> ♀'s (gorged)		5 ♀ <u>Haemaphysalis wellingtoni</u>
	Buffalo		Buffalo
	Lakhon, Lampang		Lampang (18.18 N, 99.31 E), Thailand
	IV. 1913		IV. 1913
			Nuttall & Warburton (1915; 482) cited 6 ♀
N	2234	N	2234
		RML	22305
	<u>Haemaphysalis wellingtoni</u> ♀'s		2 ♀ <u>Haemaphysalis wellingtoni</u>
	Dog		Dog
	Lakhon, Lampang		Lampang (18.18 N, 99.31 E), Thailand
	IV. 1913		IV. 1913
			Nuttall & Warburton (1915: 482) cited 7 ♀

ORIGINAL DETERMINATIONCURRENT STATUS

N 2235

Boophilus australis 1 ♀

Horse

Lakhon, Lampang

IV.1913

N 2235

RML 111089

1 ♀ Boophilus microplus

Horse

Lampang (18.18 N, 99.31 E), Thailand

IV.1913

N 2236

Ixodes ricinus 1 ♂, 4 ♀

Cattle (suffering from redwater)

Near Toensberg on the farm Melsom
in Stokke County of Jarlsberg &
Larvik, S. Norway, also from
Sundalen, County Romsdalen, W. Norway

Rec'd 20.IV.1913

Rec'd from Direktor Malm,
Veterinaer-Laboratoriet,
Kristiania, NorwayAlso received unstained cover-glass
blood smears. Blood films from
cow at Sundalen examined by me &
found to contain P. divergens
G.H.F.N. 21.VI.1913

N 2236

RML 111090

1 ♂, 1 ♀ Ixodes ricinus

Cattle (suffering from redwater)

Near Toensberg, vicinity of Jaresberg
(59.17 N, 10.21 E) and Larvik
(59.04 N, 10.00 E), Norway

Rec'd 20.IV.1913

Dr. O. Malm

Vial label gave no information on
2nd collecting site of Sundalen.
See also N 2272.
Cited: Nuttall (1916: 332).

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 2237</p> <p><u>Dermacentor albipictus</u> ♀'s gorged Moose (shot) Northern Manitoba, Canada Rec'd 21.VI.1913 Rec'd from Mr. M. J. O'Connell (sent to Mr. O'C. by hunter) ♀'s to Dr. E. Pavlovsky, Leningrad 9.X.1925</p>	<p>N 2237</p> <p>RML 111091</p> <p>17 ♀ <u>Dermacentor albipictus</u> <u>Alces alces</u> Northern Manitoba, Canada Rec'd 21.VI.1913 Rec'd from Mr. M. J. O'Connell (sent to Mr. O'C. by hunter)</p>
<p>N 2238</p> <p><u>Argas persicus</u> Trinidad, W. Indies Sent 9.VI.1913 Sent by Dr. James W. Eakin From "Gov't. Store" Labelled "fowl ticks"</p>	<p>N 2238 MISSING</p>
<p>N 2239</p> <p>[Undetermined genus] Trinidad, W. Indies Sent 9.VI.1913 Sent by Dr. James W. Eakin From "Gov't Store" Labelled "cow ticks"</p>	<p>N 2239</p> <p>RML 111092</p> <p>24 ♀ <u>Boophilus microplus</u> Trinidad (10.30N, 61.15W), Trinidad and Tobago Sent 9.VI.1913 Sent by Dr. James W. Eakin</p>

Three tubes of ticks received from L. C. Heath, Esq., Mwendwa, Mumbwa, Broken Hill, N. Rhodesia, B. C. Africa, 3 July, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2240	N	2240
		RML	111093
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s	16 ♂, 4 ♀	<u>Rhipicephalus appendiculatus</u>
	Impala (shot)		<u>Aepyceros melampus</u>
	Near Muroa's, Chisamba, N. Rhodesia		Near Muroa's (14.58 S, 28.27 E), Kabwe District, Zambia
	26.V.1913		26.V.1913
N	2241	N	2241 MISSING
	<u>Hyalomma aegyptium</u> 2 ♂, 1 ♀		
	Water-buck (shot)		
	Near Nangwena River, near Mwendanis, N. Rhodesia		
	26.V.1913		
N	2242	N	2242
		RML	111094
	<u>Rhipicephalus neavei</u> ♂ & ♀	1 ♂, 1 ♀	<u>Rhipicephalus punctatus</u>
	"Lichtenstein's Hartebeeste" (shot)		<u>Alcelaphus lichtensteini</u>
	Near Mwendwa Station, N. Rhodesia		Near Mwendwa (15.17 S, 25.59 E), Zambia
	5.V.1913		5.V.1913

Five tubes of ticks received from Dr. Wm. C. Wigan, U.M.C.A., Mpondas, Fort Johnston, Nyasaland, B.C. Africa, 27 June, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2243	N	2243
		RML	111095
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		8 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u> 3 ♂ <u>Rhipicephalus pravus</u>
	Eland		<u>Taurotragus oryx</u>
	Monkey Bay, Lake Nyasa		Monkey Bay (14.05 S, 34.55 E), Fort Johnston District, Malawi
	V.1913		V.1913
N	2244	N	2244
		RML	111096
	<u>Haemaphysalis leachi</u> ♂, ♀'s, N		1 ♂, 4 ♀ <u>Haemaphysalis indica</u>
	Dog (?)		Dog (?)
	Mpondas Fort Johnston, Nyasaland		Fort Johnston (14.28 S, 35.23 E), Fort Johnston District, Malawi
	I.1913		I.1913
	[a map of collecting localities is supplied by Dr. Wigan]		
N	2245	N	2245
		RML	111097
	<u>Rhipicephalus sanguineus</u> 1 ♂		1 ♂ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Msinje, Lake Nyasa, B.C. Africa		Msinje (13.31 S, 34.52 E), Fort Johnston District, Malawi
	V.1913		V.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2246	N	2246
		RML	111098
	<u>Rhipicephalus sanguineus</u> ♂, N's		1 ♂, 2 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Kota Kota, Lake Nyasa		Nkota Kota (12.55 S, 34.18 E), Nkota Kota District, Malawi
	I.1913		I.1913
N	2247	N	2247 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dog		
	Mpondas Fort Johnston, Nyasaland		
	I.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2248

N 2248

RML 111099

Hyalomma syriacum ♂'s, ♀'s3 vials of Hyalomma aegyptium as follows: 4 ♂, 1 ♀; 1 ♀; 34 L

Tortoise

Tortoise

Cambridge

Cambridge (52.13 N, 00.08 E), England

4.VII.1913

4.VII.1913

Presented by Dr. Hindle

Presented by Dr. Hindle

One fully gorged ♀ reserved so that she may oviposit, she dropped off naturally & was supposed to be a baby tortoise by the lady who owned the host!

Cited: Nuttall (1915; 436).

G.H.F.N. det.

Ticks from Kosantu, Congo Free State, rec'd. for determination from Professor R. Newstead F.R.S., The University, Liverpool, 4.VII.1913, to whom they were sent by Reverend Père Renard, Recteur du Collège S. Servais, Liège, Belgium. The collection comprises

Boophilus decoloratus (many ♀'s), off cattleRhipicephalus appendiculatus (♀'s), off cattleRhipicephalus simusRhipicephalus supertritusAmblyomma splendidum (many ♂'s, ♀'s), off ?Ornithodoros moubata (many adults & N's)

Two tubes of ticks received from the Rev. T. B. Green, Quintana Yrriogoyen, Concordia, Entre Rios, Argentina, S. America, July 2, 1913:-

N 2249

N 2249 MISSING

Boophilus australis ♂'s, ♀'s

Angus bull

La Paz, Estancia Santa Inz, Entre Rios Argentina

27.V.1913

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2250	N	2250
		RML	111100
	<u>Boophilus australis</u> ♀'s		84 ♀ <u>Boophilus microplus</u>
	Angus cow		Cow, Angus
	La Paz, Estancia Santa Inz, Entre Rios, Argentina		La Paz, Estancia Santa Inz Provincia de Entre Rios (32.00 S, 59.00 W), Argentina
	22.V.1913		22.V.1913
	Three tubes of ticks received from Dr. M. Abdullah, Assistant Surgeon, Gilgit, Kashmir, India, 4 July, 1913:-		
N	2251, a, b	N	2251, b
		RML	111101
	(2251) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		(2251) 18 ♂, 16 ♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Hyalomma aegyptium</u> ♂, ♀'s		(a) MISSING
	(b) <u>Haemaphysalis montgomeryi</u> 1 ♀		(b) 1 ♀ <u>Haemaphysalis montgomeryi</u>
	Sheep		Sheep
	Gilgit, Kashmir, India		Gilgit (35.55 N, 74.18 E), Kashmir, India
	V.1913		V.1913
			Dr. M. Abdullah
			Cited: Nuttall & Warburton (1915; 397).
N	2252	N	2252
		RML	111102
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		12 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Gilgit, Kashmir, India		Gilgit (35.55 N, 74.18 E), Kashmir, India
	V.1913		V. 1913
			Dr. M. Abdullah

ORIGINAL DETERMINATIONCURRENT STATUS

N	2253, a	N	2253
		RML	111103
	(2253) <u>Rhipicephalus sanguineus</u> σ 's, ϕ 's		(2253) 7 σ , 6 ϕ <u>Rhipicephalus</u> <u>sanguineus</u>
	(a) <u>Hyalomma aegyptium</u> σ 's, ϕ 's		(a) MISSING
	Goat		Goat
	Gilgit, Kahmir, India		Gilgit (35.55 N, 74.18 E), Kashmir, India
	V.1913		V.1913
			Dr. M. Abdullah
N	2254	N	2254 MISSING
	<u>Boophilus australis</u> ϕ 's		
	Calf		
	Gilgit, Kashmir, India		
	V.1913		
Collection of ticks received from Dr. John Y. Wood, District Medical Officer, Kaballa, Koinadugu District, Sierra Leone Protectorate, West Africa, 2 July, 1913:-			
N	2255, a	N	2255
		RML	111104
	(2255) <u>Rhipicephalus lunulatus</u> σ 's, ϕ 's		(2255) 1 σ , 3 ϕ <u>Rhipicephalus</u> <u>lunulatus</u>
	(a) <u>Rhipicephalus</u> sp. σ 's, ϕ 's		(a) MISSING
	Goats (healthy)		Goats (healthy)
	Konkoba, Sierra Leone		Konkoba (09.31 N, 11.40 W), Sierra Leone
	29.V.1913		29.V.1913
			J. Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2256, a, b	N	2256a, b
		RML	111105
	(2256) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(2256) MISSING
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 9 ♂, 5 ♀ <u>Rhipicephalus</u>
	(b) <u>Boophilus australis</u> ♀'s		<u>senegalensis</u>
			(b) 4 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Kasuntana, Sierra Leone		Kasunta, Sierra Leone (locality not verified)
	25.V.1913		25.V.1913
			J. Y. Wood
N	2257, a	N	2257, a
		RML	111106
	(2257) <u>Rhipicephalus neavei</u> ♂'s		(2257) 3 ♂ <u>Rhipicephalus ziemanni</u>
	(small not characteristic)		
	(a) <u>Haemaphysalis leachi</u> 1 ♂		(a) 1 ♂ <u>Haemaphysalis leachi</u>
	Goats (healthy)		Goats (healthy)
	Kagbo, Sierra Leone		Kagbo (09.03 N, 11.50 W), Sierra Leone
	19.V.1913		19.V.1913
			Dr. J. Y. Wood
			(2257a) cited: Nuttall & Warburton (1915:474).
N	2258, a	N	2258
		RML	111107
	(2258) <u>Haemaphysalis leachi</u> ♂, ♀		(2258) 1 ♂, 2 ♀ <u>Haemaphysalis leachi</u>
	(a) <u>Rhipicephalus lunulatus</u> 1 ♂		(a) MISSING
	Cows		Cows
	Kapankuna, Sierra Leone		Kapankuna, Sierra Leone (locality not verified)
	24.V.1913		24.V.1913
			Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2259, a, b	N	2259, a
		RML	111108
	(2259) <u>Boophilus australis</u> ♀'s		(2259) 4 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma splendidum</u> ♂'s, 1 ♀		(a) 7 ♂, 1 ♀ <u>Amblyomma splendidum</u>
	(b) <u>Amblyomma variegatum</u> ♂'s		(b) MISSING
	Cattle (healthy)		Cattle (healthy)
	Madina, Sierra Leone		Madina, Sierra Leone (locality not verified; over 20 possible localities named Madina)
	18.V.1913		18.V.1913
			J. Wood
			(2259a) cited: Robinson (1926: 125).
N	2260, a	N	2260
		RML	111109
	(2260) <u>Boophilus australis</u> ♀'s		(2260) 3 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(a) MISSING
	Cows		Cows
	Kamakola, Sierra Leone		Kamakola, Sierra Leone (locality not verified)
	26.V.1913		26.V.1913
	[a ♀ mounted on slide in cell]		Slide missing
	[a ♀ of <u>A. variegatum</u> - JEK]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2261, a-d	N	2261 a-d
		RML	111110
	(2261) <u>Amblyomma variegatum</u> ♂'s, ♀'s, N's		(2261) MISSING
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 14 ♂, 11 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Rhipicephalus neavei</u> (small not characteristic ♂'s)		(b) 3 ♂ <u>Rhipicephalus ziemanni</u>
	(c) <u>Haemaphysalis leachi</u> 1 ♀		(c) 1 ♀ <u>Haemaphysalis leachi</u>
	(d) <u>Boophilus australis</u> ♂, ♀		(d) 239 ♀, 39 N <u>Boophilus geigy</u>
	Cattle (healthy)		Cattle (healthy)
	Koinadugu, Sierra Leone		Koinadugu (09.32 N, 11.22 W), Sierra Leone
	III-IV-1913		III-IV.1913
			Dr. J. Y. Wood
	1 ♂, 1 ♀ [2261a] to Dr. S. Hadwen, Brit. Columbia, Canada 10.X.1913		(2261c) cited: Nuttall & Warburton (1915: 474).
N	2262, a-d	N	2262, A-d
		RML	111111
	(2262) <u>Amblyomma variegatum</u> ♂'s, ♀'s, N's		(2262) 1 ♀ <u>Amblyomma variegatum</u>
	(a) <u>Boophilus australis</u> ♀'s		(a) 76 ♀, 3 N <u>Boophilus geigy</u>
	(b) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(b) 8 ♂, 11 ♀ <u>Rhipicephalus senegalensis</u>
	(c) <u>Amblyomma splendidum</u> 1 ♂		(c) 1 ♂ <u>Amblyomma splendidum</u>
	(d) <u>Rhipicephalus neavei</u> (small like 2257 & 2261) 2 ♂		(d) 1 ♂, 1 ♀ <u>Rhipicephalus ziemanni</u>
	Cattle (healthy)		Cattle (healthy)
	Koinadugu, Sierra Leone		Koinadugu (09.32 N, 11.22 W), Sierra Leone
	III-IV.1913		III-IV.1913
			Dr. J. Wood
	1 ♀ <u>A. variegatum</u> pinned, 2 ♂, 1 ♀ in cell on slide		(2262) a pinned specimen. Slide missing. (2262c) cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2263	N	2263
		RML	111112
	<u>Amblyomma tholloni</u> ♂'s, ♀'s		20 ♂, 17 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Yeria, Sierra Leone		Yeria, Sierra Leone (locality not verified)
	23.V.1913		23.V.1913
	Shot by Captain Stanley		Shot by Captain Stanley
	1 ♂, 1 ♀ to Prof. R. A. Cooley, Montana V.1928		The collection sent to Prof. Cooley comprises 1 ♂, 2 ♀ <u>A. tholloni</u> and is now in the RML collection.
			Cited: Robinson (1926; 252).
N	2264	N	2264 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Goats (healthy)		
	Koinadugu, Sierra Leone		
	III-IV.1913		
	1 ♀ to Prof. Dr. Dahl, Berlin Museum VII.1914.		
	1 ♀ to Prof. Dr. Schenkling, Deutsches Entomol. Mus. VII.1914.		
	1 ♀ to Prof. Dr. Gestro, Museu Civico di Storia Nat., Genova VII.1914.		
N	2265	N	2265 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		
	Bull (healthy)		
	Kakanema, Sierra Leone		
	15.V.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2266	N	2266
		RML	111113
	<u>Haemaphysalis leachi</u> N		1 N <u>Haemaphysalis indica</u>
	Leopard cub		<u>Panthera pardus</u>
	Kaballa, Sierra Leone		Kabala (09.35 N, 11.33 W), Sierra Leone
	V.1913		V.1913
			Dr. J. Y. Wood
			Cited: Nuttall & Warburton (1915: 474).
N	2267	N	2267
		RML	111114
	<u>Boophilus australis</u> ♀, N's		1 ♀, 11 N <u>Boophilus geigy</u>
	Sheep		Sheep
	Koinadugu, Sierra Leone		Koinadugu (09.32 N, 11.22 W), Sierra Leone
	III-IV.1913		III-IV.1913
			Dr. J. Y. Wood
N	2268	N	2268
		RML	111115
	<u>Rhipicephalus falcatus</u> 1 ♂		1 ♂ <u>Rhipicephalus senegalensis</u>
	Goat (healthy)		Goat (healthy)
	Kasuntana, Sierra Leone		Kasuntana, Sierra Leone (locality not verified)
	20.V.1913		20.V.1913
			Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2269	N	2269
		RML	111116
	<u>Haemaphysalis leachi</u> ♀'s		2 ♀ <u>Haemaphysalis leachi</u>
	Dog, young		Dog, young
	Kasuntana, Sierra Leone		Kasuntana, Sierra Leone (locality not verified)
	20.V.1913		20.V.1913
			Dr. J. Y. Wood
			Cited: Nuttall & Warburton (1915: 474).
N	2270	N	2270
		RML	111117
	<u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		4 ♂, 10 ♀ <u>Rhipicephalus lunulatus</u>
	Sheep (healthy)		Sheep (healthy)
	Konkoba, Sierra Leone		Konkoba (09.31 N, 11.40 W), Sierra Leone
	29.V.1913		29.V.1913
			J. Y. Wood
N	2271	N	2271
		RML	111118
	<u>Amblyomma tholloni</u> ♂'s, ♀'s		3 ♂, 5 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Yeria, Sierra Leone		Yeria, Sierra Leone (locality not verified)
	22.V.1913		22.V.1913
	Shot by Captain Stanley		Shot by Captain Stanley
			Cited: Robinson (1926: 252).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2272	N	2272
		RML	111119
	<u>Ixodes ricinus</u> ♂'s, ♀'s		5 ♀ <u>Ixodes ricinus</u>
	Cow		Cow
	Toensberg, County of Jarlsberg & Larvik		Christiania now Oslo (59.55 N, 10.45 E), Norway
	Rec'd 1.VII.1913		Rec'd 1.VII.1913
	Mr. Kragerud		Mr. Kragerud
	Rec'd from Dr. O. Malm, Direktor, Veterinaer - Laboratories, Christiania, Norway		Vial label locality disagrees with catalogue. Cited: Nuttall (1916: 332).
	1 ♂ to Prof. E. Malvoz, Liège 30.V.1929.		
	1 ♂ to E. T. Boardman, Univ. Florida, Gainesville 30.V.1929.		
N	2273	N	2273
		RML	111120
	<u>Boophilus australis</u> ♀'s, N's		3 ♀, 2 N <u>Boophilus geigy</u>
	Cow		Cow
	Pujehun, N. Sherbro District, Sierra Leone, West Africa		Pujehun (07.21 N, 11.42 W), Sierra Leone
	VI.1913		VI.1913
	Rec'd from Major E. D'H Fairtlough 11.VII.1913		Rec'd from Major E. D'H Fairtlough 11.VII.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2274 a-i	N	2274 a-i MISSING
	<u>Dermacentor venustus</u>		
	Montana, U.S. America (raised experimentally)		
	Rec'd. 28.V.1912		
	Rec'd from Miss M. B. Maver, M.D., Pathological Laboratory, Univ. of Chicago, Illinois, U.S.A. [Nine slides, lettered a-i; all stages]		
	Ticks retained from the collection forwarded for determination by Dr. N. Annandale, Superintendent, Indian Museum, Calcutta, India, 5th July, 1913:-		
N	2275	N	2275
		RML	111121
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s, ♀'s, N's		9 ♂, 6 ♀, 3 N <u>Aponomma varanensis</u>
	<u>Naia tripudians</u>		<u>Naja naja</u>
	Zoological Gardens, Calcutta, India		Zoological Gardens, Calcutta (22.32 N, 88.22 E), India
	28.II.1913		28.II.1913
			Dr. N. Annandale
	[Ind. Mus. $\frac{1789}{17}$]		
	1 ♂, 1 ♀ to Dr. S. Hadwen, Brit. Columbia, Canada 10.X.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2276	N	2276
		RML	111122
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> ♂'s, ♀'s		1 ♂, 4 ♀ <u>Aponomma varanensis</u>
	<u>Varanus salvator</u>		<u>Varanus salvator</u>
	Zoological Gardens, Calcutta, India		Zoological Gardens, Calcutta (22.32 N, 88.22 E), India
	6.II.1913		6.II.1913
	[Ind. Mus. $\frac{1791}{17}$]		Dr. N. Annandale
N	2277	N	2277
		RML	111123
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		3 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Purnlia, Chota Nagpur, India		Purnlia, (23.20 N, 86.22 E) India
	10.IV.1913		10.IV.1913
	[Ind. Mus. $\frac{1794}{17}$]		Dr. N. Annandale
N	2278	N	2278 MISSING
	<u>Boophilus annulatus</u> 1 ♂, ♀'s		
	Horse, carriage		
	Kefi Kenna, Galilee, Palestine		
	12.X.1912		
	N. Annandale		
	[Ind. Mus. $\frac{NA}{17}$]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2279

N 2279

RML 111124

Argas reflexus 2 adults1 ♂, 1 ♀ Argas reflexus group

Host ?

Host ?

Girgaon, Bombay Presidency

Girgaon (30.20 N, 80.11 E), India

1913

1913

[Ind. Mus. $\frac{S.P.A.}{19}$]

Seven tubes of ticks received from Dr. J. Jejament, Veterinarian, Institut Pasteur Marocain, Tangiers, North Africa, 18 July, 1913:-

N 2280

N 2280

RML 111125

Rhipicephalus sanguineus ♂'s, ♀'s19 ♂, 6 ♀ Rhipicephalus sanguineus

Dog

Dog

Tangiers, Morocco

Tangier (35.48 N, 05.48 W), Morocco

IV.1913

IV.1913

Dr. J. Jejament

(Good specimens!) Jejament writes that ticks are very common on horses, cattle & dogs; almost all animals infested.

N 2281

N 2281

RML 111126

Rhipicephalus sanguineus ♂'s, ♀'s3 ♂, 4 ♀ Rhipicephalus sanguineus

Dog

Dog

Tangiers, Morocco

Tangier (35.48 N, 05.48 W), Morocco

16.IV.1913

16.IV.1913

Dr. J. Jejament

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2282	N	2282
		RML	111127
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		6 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Tangiers, Morocco		Tangier (35.48 N, 05.48 W), Morocco
	20.V.1913		20.V.1913
			Dr. J. Jejament
N	2283	N	2283
		RML	111128
	<u>Rhipicephalus sanguineus</u> ♂', ♀'s		10 ♂, 24 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	VI.1913		VI.1913
			Dr. J. Jejament
	(Very fine specimens!)		Vial label with Nuttall 2284 but undoubtedly it refers to this collection.
N	2284, a, b	N	2284, a
		RML	111129
	(2284) <u>Hyalomma aegyptium</u> ♂, ♀'s		(2284) 1 ♂, 7 ♀ <u>Hyalomma anatolicum excavatum</u>
	(a) <u>Rhipicephalus bursa</u> ♀'s		(a) 8 ♀ <u>Rhipicephalus bursa</u>
	(b) <u>Boophilus</u> sp. ♀'s		(b) MISSING
	Cows		Cows
	Tangiers, Morocco		Tangier (35.48 N, 05.48 W), Morocco
	IV-V.1913		IV-V.1913
			Dr. J. Jejament

ORIGINAL DETERMINATIONCURRENT STATUS

N	2285, a, b	N	2285, a, b
		RML	111130
	(2285) <u>Boophilus annulatus</u> ♀'s (a) <u>Rhipicephalus sanguineus</u> ♀'s (b) <u>Hyalomma aegyptium</u> ♀'s		(2285) 3 ♀ <u>Boophilus annulatus</u> (a) 13 ♀ <u>Rhipicephalus sanguineus</u> (b) 2 ♀ <u>Hyalomma anatolicum excavatum</u>
	Cows		Cows
	Tangiers, Morocco		Tangier (35.48 N, 05.48 W), Morocco
	VI-VII-1913		VI-VII.1913
			Dr. J. Jejament
			2285a - Tentative ID
N	2286, a	N	2286, a
		RML	66591
	(2286) <u>Rhipicephalus bursa</u> ♂'s, ♀'s (a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(2286) 17 ♂, 14 ♀ <u>Rhipicephalus bursa</u> (a) 9 ♂ <u>Hyalomma marginatum</u>
	Horses		Horses
	Tangiers, Morocco		Tangier (35.48 N, 05.48 W), Morocco
	VII.1913		VII.1913
			Dr. J. Jejament
			1 ♀ <u>R. bursa</u> with an intact spermatophore is in a separate vial.

Collection of ticks received for determination from the Chief Veterinary Surgeon (Dr. J. B. Botelho) Repartição de Agricultura, Seccas de Veterinaria, Lourenço Marques, Portuguese East Africa, 8 July 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2287	N	2287
		RML	111131
	<u>Rhipicephalus falcatus</u> ♀'s		2 ♀ <u>Rhipicephalus senegalensis</u> 3 ♀ <u>Rhipicephalus compositus</u>
	Pig		Pig
	Magul		Either Magul (22.41 S, 35.11 E) or (25.03 S, 33.01 E), Mozambique
	I.1913		I.1913
N	2288, a-c	N	2288a, c
		RML	111132
	(2288) <u>Amblyomma hebraeum</u> ♂'s		(2288) MISSING
	(a) <u>Boophilus australis</u> ♀'s		(a) 3 ♀ <u>Boophilus microplus</u>
	(b) <u>Rhipicephalus evertsi</u> 1 ♂		(b) MISSING
	(c) <u>Rhipicephalus appendiculatus</u> 1 ♂		(c) 2 ♂ <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913
N	2289, a	N	2289a
		RML	111133
	(2289) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2289) MISSING
	(a) <u>Boophilus australis</u>		(a) 2 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2290, a	N	2290a
		RML	111134
	(2290) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2290) MISSING
	(a) <u>Boophilus australis</u> ♀'s		(a) 4 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913
N	2291, a, b	N	2291, a, b
		RML	111135
	(2291) <u>Boophilus australis</u> 1 ♀		(2291) 3 ♂ <u>Boophilus microplus</u>
	(a) <u>Amblyomma hebraeum</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Amblyomma hebraeum</u>
	(b) <u>Rhipicephalus appendiculatus</u> ♂'s		(b) 3 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	Ox		Ox
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913
			(2291a) cited: Robinson (1926: 107).
N	2292, a	N	2292a
		RML	111136
	(2292) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2292) MISSING
	(a) <u>Boophilus australis</u> ♀'s & eggs		(a) 2 ♀, many eggs <u>Boophilus microplus</u>
	Ox		Ox
	Bilene		Concelho do Bilene (25.10 S, 33.10 E), Mozambique
	III.1913		III.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2293	N	2293
		RML	111137
	<u>Amblyomma hebraeum</u> ♂		17 ♂ <u>Amblyomma hebraeum</u>
	Ox		Ox
	Guija		Guija (23.50 S, 34.57 E), Mozambique
	IV.1913		IV.1913
			Cited: Robinson (1926: 107).
N	2294	N	2294
		RML	111138
	<u>Boophilus australis</u> 2 ♀ & eggs		2 ♀, many eggs <u>Boophilus microplus</u>
	Ox		Ox
	Guija		Guija (23.50 S, 34.57 E), Mozambique
	IV.1913		IV.1913
N	2295	N	2295
		RML	111139
	<u>Amblyomma hebraeum</u> ♂'s, 1 ♀		3 ♂ <u>Amblyomma hebraeum</u>
	Ox		Ox
	Guija		Guija (23.50 S, 34.57 E), Mozambique
	IV.1913		IV.1913
			Cited: Robinson (1926: 107).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2296	N	2296
		RML	111140
	<u>Amblyomma hebraeum</u> ♂'s		3 ♂ <u>Amblyomma hebraeum</u>
	Ox		Ox
	Guija		Guija (23.50 S, 34.57 E), Mozambique
	IV.1913		IV.1913
			Cited: Robinson (1926: 107).
N	2297, a	N	2297a
		RML	111141
	(2297) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(2297) MISSING
	(a) <u>Rhipicephalus simus</u> ♀'s		(a) 4 ♀ <u>Rhipicephalus simus</u>
	Goats		Goats
	Marlana		Marlana, Mozambique (locality not verified)
	II.1913		II.1913
N	2298, a, b	N	2298a, b
		RML	111142
	(2298) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(2298) MISSING
	(a) <u>Amblyomma hebraeum</u> 2 ♂, 1 ♀, N's		(a) 2 ♂, 1 ♀, 2 N <u>Amblyomma hebraeum</u>
	(b) <u>Rhipicephalus appendiculatus</u> 1 ♀		(b) 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Donkey		Donkey
	Marlana		Marlana, Mozambique (locality not verified)
	II.1913		II.1913
			(2298a) cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2299

N 2299

RML 111143

Rhipicephalus maculatus ♂'s, ♀'s5 ♂, 1 ♀ Rhipicephalus maculatus

Pig

Pig

Marlana

Marlana, Mozambique (locality not verified)

II.1913

II.1913

N 2300, a

N 2300, a MISSING

(2300) Amblyomma hebraeum ♂, ♀'s(a) Rhipicephalus evertsi 1 ♂, ♀'s

Ox

Marlana, Portuguese East Africa

II.1913

Given to D. S. MacLagan 14.X.1938

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2301, a, b	N	2301b
		RML	111144
	(2301) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2301) MISSING
	(a) <u>Rhipicephalus evertsi</u> ♂, ♀'s		(a) MISSING
	(b) <u>Boophilus australis</u> ♀'s		(b) 3 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Marlana		Marlana, Mozambique (locality not verified)
	II.1913		II.1913
N	2302, a	N	2302
		RML	111145
	(2302) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(2302) 3 ♂, 2 ♀ <u>Amblyomma hebraeum</u>
	(a) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(a) MISSING
	Ox		Ox
	Marlana		Marlana, Mozambique (locality not verified)
	II.1913		II.1913
			(2302) Cited: Robinson (1926: 107).
N	2303, a, b	N	2303, a
		RML	111146
	(2303) <u>Boophilus australis</u> ♂'s, ♀'s		(2303) 2 ♂, * ♀, 2 N <u>Boophilus microplus</u>
	(a) <u>Rhipicephalus appendiculatus</u> ♂, ♀'s		(a) 2 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	(b) <u>Rhipicephalus evertsi</u> 1 ♂		(b) MISSING
	Horse		Horse
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2304, a, b	N	2304a
		RML	111147
	(2304) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(2304) MISSING
	(a) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		(a) 4 ♂, 4 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	(b) <u>Amblyomma hebraeum</u> ♂, ♀		(b) MISSING
	Horse		Horse
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
N	2305	N	2305
		RML	111148
	<u>Boophilus australis</u> ♀'s		24 ♀, 1 N <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
N	2306	N	2306
		RML	111149
	<u>Boophilus australis</u> ♀		1 ♂, 19 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2307 <u>Rhipicephalus evertsi</u> ♂'s, ♀'s Sheep Namahacha, Portuguese East Africa II.1913	N	2307 MISSING
N	2308, a, b (2308) <u>Boophilus australis</u> ♂'s, ♀'s (a) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀ (b) <u>Amblyomma hebraeum</u> ♂'s Ox Namahacha II.1913	N	2308, a, b
		RML	111150 (2308) 19 ♂, 36 ♀, 12 N <u>Boophilus microplus</u> (a) 2 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u> (b) 3 ♂ <u>Amblyomma hebraeum</u> Ox Namaacha (25.58 S, 32.01 E), Mozambique II.1913 (2308b) Cited: Robinson (1926: 107).
N	2309, a, b (2309) <u>Boophilus australis</u> ♀'s (a) <u>Amblyomma hebraeum</u> ♂'s (b) <u>Rhipicephalus appendiculatus</u> ♂'s Ox Namahacha II.1913	N	2309a, b
		RML	111151 (2309) MISSING (a) 2 ♂ <u>Amblyomma hebraeum</u> (b) 2 ♂ <u>Rhipicephalus appendiculatus</u> Ox Namaacha (25.58 S, 32.01 E), Mozambique II.1913 (2309a) Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2310, a, b	N	2310, a, b
		RML	111152
	(2310) <u>Rhipicephalus simus</u> ♂'s, ♀'s		(2310) 4 ♂, 6 ♀ <u>Rhipicephalus simus</u>
	(a) <u>Amblyomma hebraeum</u> ♂'s, ♀, N		(a) 3 ♂, 1 N <u>Amblyomma hebraeum</u>
	(b) <u>Haemaphysalis leachi</u> ♂, ♀		(b) 2 ♂, 1 N <u>Haemaphysalis leachi</u>
	Dog		Dog
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
	.		(2310a) Cited: Robinson (1926: 107).
N	2311, a, b	N	2311, a
		RML	111153
	(2311) <u>Boophilus australis</u> ♀'s		(2311) 7 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma hebraeum</u> ♂'s, ♀'s		(a) 4 ♂, 1 ♀ <u>Amblyomma hebraeum</u>
	(b) <u>Rhipicephalus evertsi</u> ♂'s, ♀'s		(b) MISSING
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
			(2311a) Cited: Robinson (1926: 197).
N	2312, a, b	N	2312, a, b
		RML	111154
	(2312) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		(2312) 15 ♂, 5 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	(a) <u>Amblyomma hebraeum</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Amblyomma hebraeum</u>
	(b) <u>Boophilus australis</u> ♂, ♀'s, N's		(b) 1 ♂, 10 ♀ <u>Boophilus decoloratus</u>
	Horse		Horse
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
			(2312a) Cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2313, a, b	N	2313, b
		RML	111155
	(2313) <u>Boophilus australis</u> ♂'s, ♀'s		(2313) 2 ♂, 7 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma hebraeum</u> ♂'s, eggs		(a) MISSING
	(b) <u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		(b) 1 ♂, 4 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
N	2314	N	2314
		RML	111156
	<u>Boophilus australis</u> ♀'s & eggs		15 ♀, eggs <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913
N	2315	N	2315
		RML	111157
	<u>Boophilus australis</u> ♀'s & eggs		1 ♂, 14 ♀, eggs <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	II.1913		II.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2316, a-c

N 2316, a, c

RML 111158

(2316) Boophilus australis ♀'s & eggs
 (a) Amblyomma hebraeum ♂'s (very bad)
 (b) Rhipicephalus evertsi ♂'s, ♀'s
 (c) Rhipicephalus appendiculatus
 ♂'s, ♀'s

(2316) 5 ♀, eggs Boophilus microplus
 (a) 8 ♂ Amblyomma hebraeum
 (b) MISSING
 (c) 6 ♂, 4 ♀ Rhipicephalus
appendiculatus

Sheep

Sheep

Namaacha

Namaacha (25.58 S, 32.01 E),
Mozambique

III.1913

III.1913

(2316a) 1 ♂, 1 ♀ to J. de Meza,
 Zomba, Nyasaland 19.II.1916

(2316a) Cited: Robinson (1926; 107).

N 2317

RML 111159

12 ♀ Boophilus microplus

Ox

Namaacha (25.58 S, 32.01 E),
Mozambique

II.1913

This tick collection, found
 24.V.1978, and belonging to the
 series sent by Dr. Botelho for
 determination, was never entered
 in Professor Nuttall's catalogue.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2317	N	2317
	<u>Amblyomma nodosum</u> 1 ♀	RML	111160
	"Found beneath a cage recently occupied by a 3-toed sloth, <u>Bradypus</u> "		1 ♀ <u>Amblyomma nodosum</u>
	Ancon, Canal Zone, Panama		Found beneath a cage recently occupied by <u>Bradypus infuscatus</u>
	19.IV.1913		Ancon (08.58 N, 79.33 W), Panama
	Rec'd from Dr. S. T. Darling 22.VII.1913		19.IV.1913
	Note: wants report; fully gorged it measured 19 X 13 mm by 9 mm thick, dropped off 19.IV, began to oviposit 7.V, stopped laying 31.V, she deposited an enormous number of eggs - "the largest ♀ I have ever seen." Letter destroyed G.H.F.N.		Rec'd from Dr. S. T. Darling, 22.VII.1913
			<u>Amblyomma nodosum</u> is exclusively a parasite of New World anteaters. It probably did not feed on a sloth.
			Cited: Robinson (1926: 199).
N	2318, a-c	N	2318, a-c
	(2318) <u>Rhipicephalus pulchellus</u> ♂'s, ♀'s	RML	92723
	(a) <u>Haemaphysalis leachi</u> ♀'s		(2318) 1 ♂, 7 ♀ <u>Rhipicephalus pulchellus</u>
	(b) <u>Boophilus australis</u> ♀'s		(a) 8 ♀ <u>Haemaphysalis leachi</u>
	(c) <u>Amblyomma tholloni</u> ♀'s & N's		(b) 3 ♀ <u>Boophilus microplus</u>
			(c) 1 N <u>Amblyomma variegatum</u>
			(c) 1 ♀ <u>Amblyomma tholloni</u>
	Dog and mules		Dog and mules
	Dire Daoua, Ethiopia, Abyssinia, E. Africa		Diredawa (09.35 N, 41.52 E), Ethiopia
	28.V.1913		28.V.1913
	Rec'd from M. Pellerin, 14.VII.1913		One ♀ <u>H. leachi</u> is now in the NAMRU-3 tick collection, Cairo, Egypt.
			The <u>Amblyomma tholloni</u> identification is tentative. This is not good host or locality information for <u>A. tholloni</u> . The legs are missing so the banding cannot be checked but I do not believe it to be <u>A. eburneum</u> .

Two tubes of ticks received from L. C. Heath, Esq., Mwendwa, Mumbwa,
Via Broken Hill, N. Rhodesia, 28 July, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2319, a (2319) <u>Hyalomma aegyptium</u> ♂'s, ♀ (a) <u>Rhipicephalus evertsi</u> 1 ♂ Burchell's zebras Near Mwendwa, N. Rhodesia V.1913	N	2319, a MISSING
N	2320 <u>Rhipicephalus</u> sp. nymph Lichtenstein's hartebeeste Near Mwendwa, N. Rhodesia 21.VI.1913 Ticks received from F. C. Bishopp, Esq., Dallas, Texas, U.S. America, 30 July, 1913:-	N	2320 RML 111161 1 N <u>Rhipicephalus</u> sp. <u>Alcelaphus lichtensteini</u> Near Mwendwa (15.17 S, 25.59 E), Zambia
N	2321 <u>Haemaphysalis leporis-palustris</u> (unfed larvae) Off ? Utopia, Texas 1912 "2039"	N	2321 RML 111162 +500 L <u>Haemaphysalis leporispalustris</u> <u>Lepus californicus</u> Utopia (29.37 N, 99.32 W), Texas, USA 11.IX.1910 Host and date information taken from Bishopp accession card 2039 now in RML.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2322

Haemaphysalis leporis-palustris
(unfed larvae)

Host ?

Refugio, Texas

1913

"2136"
[7 larvae mounted in balsam on
2 slides]

N 2322

RML 111163

+200 L Haemaphysalis
leporispalustrisLepus californicusRefugio (28.18 N, 97.17 W),
Texas, U.S.A.

2.II.1911

C. T. Atkinson

Slides missing.
Host, date, and collector
information taken from Bishopp
accession card 2136 now in RML.

N 2323

Haemaphysalis leporis-palustris
(gorged larvae)

Host ?

Texas

1913

"No no."

N 2323

RML 111164

17 L Haemaphysalis leporispalustris

Host?

Texas, U.S.A.

1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2324	N	2324
		RML	111163
	<u>Haemaphysalis leporis-palustris</u> (unfed nymphs)		21 N <u>Haemaphysalis leporispalustris</u>
	Host ?		<u>Lepus californicus</u>
	Refugio, Texas		Refugio (28.18 N, 97.17 W), Texas, U.S.A.
	1913		2.II.1911
	"2136" [a N mounted in balsam on slide]		C. T. Atkinson
			Slide missing
			See note under 2322.

Collection of ticks received from Dr. J. Y. Wood, Kaballa, Koinadugu District, Sierra Leone Protectorate, West Africa, 29 July, 1913:-

N	2325, a	N	2325, a
		RML	111165
	(2325) <u>Rhipicephalus lunulatus</u> 1 ♂ (a) <u>Boophilus australis</u>		(2325) 1 ♂ <u>Rhipicephalus lunulatus</u> (a) 10 ♀ <u>Boophilus geigy</u>
	Goats		Goats
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	28.VI.1913		28.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2326	N	2326
		RML	111166
	<u>Amblyomma marmoreum</u> 1 ♀		1 ♀ <u>Amblyomma nuttalli</u>
	Tortoise from bush		Tortoise from bush
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	28.VI.1913		28.VI.1913
			Cited: Hoogstraal (1954b: 275); Theiler & Salisbury (1959: 115).
N	2327	N	2327
		RML	111167
	<u>Rhipicephalus lunulatus</u> ♀'s		2 ♀ <u>Rhipicephalus senegalensis</u>
	"Self" (in bush)		<u>Homo sapiens</u>
	Near Yaria, Sierra Leone		Near Yaria, perhaps Yaraia (08.56 N, 11.08 W), Sierra Leone
	16.VI.1913		16.VI.1913
			Dr. J. Y. Wood
N	2328	N	2328
		RML	113746
	<u>Haemaphysalis leachi</u> ♀'s		2 ♀ <u>Haemaphysalis leachi</u>
	Dogs		Dogs
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	28.VI.1913		28.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2329, a, b	N	2329a, b
		RML	111168
	(2329) <u>Amblyomma variegatum</u> ♀		(2329) MISSING
	(a) <u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		(a) 7 ♂, 16 ♀ <u>Rhipicephalus lunulatus</u>
	(b) <u>Boophilus australis</u>		(b) 28 ♀ <u>Boophilus geigy</u>
	Sheep		Sheep
	Firawa, Sierra Leone		Firawa, either (09.21 N, 11.18 W) or (09.31 N, 10.51 W), Sierra Leone
	16.VI.1913		16.VI.1913
N	2330, a	N	2330, a
		RML	111169
	(2330) <u>Amblyomma</u> sp. N's		(2330) 2 N <u>Amblyomma variegatum</u>
	(a) <u>Rhipicephalus lunulatus</u> ♀'s		(a) 1 ♀ <u>Rhipicephalus lunulatus</u>
	Water-buck		<u>Kobus ellipsiprymnus</u> subsp.
	Kamagototo, Sierra Leone		Kamagototo, Sierra Leone (locality not verified)
	15.VI.1913		15.VI.1913
	Shot by Captain Stanley		Shot by Captain Stanley
			The <u>R. lunulatus</u> ♀ is a teratological specimen.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2331, a-c	N	2331, b, c
		RML	111170
	(2331) <u>Rhipicephalus lunulatus</u>		(2331) 18 ♂, 15 ♀ <u>Rhipicephalus lunulatus</u>
	(a) <u>Amblyomma variegatum</u>		(a) MISSING
	(b) <u>Boophilus australis</u>		(b) 14 ♀ <u>Boophilus geigy</u>
	(c) <u>Rhipicephalus falcatus</u>		(c) 2 ♂ <u>Rhipicephalus senegalensis</u>
	Cows		Cows
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	27.VI.1913		27.VI.1913
	(2331) 1 ♂, 1 ♀ to J. de Meza Zomba, Nyasaland 19.II.1916		
N	2332, a	N	2332a
		RML	111171
	(2332) <u>Amblyomma variegatum</u> ♂		(2332) MISSING
	(a) <u>Rhipicephalus lunulatus</u>		(a) 2 ♂, 3 ♀ <u>Rhipicephalus lunulatus</u>
	Goats		Goats
	Bende, Sierra Leone		Bende (08.24 N, 10.19 W), Sierra Leone
	23.VI.1913		23.VI.1913
N	2333, a, b	N	2333, a, b
		RML	111172
	(2333) <u>Amblyomma splendidum</u>		(2333) 9 ♂ <u>Amblyomma splendidum</u>
	(a) <u>Rhipicephalus lunulatus</u>		(a) 176 ♂, 40 ♀ <u>Rhipicephalus lunulatus</u>
	(b) <u>Rhipicephalus falcatus</u>		(a) 3 ♂ <u>Rhipicephalus senegalensis</u>
			(b) 13 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
			(b) 1 ♂ <u>Rhipicephalus longus</u>
	Bush-cow		Cow, bush
	Sierra Leone		Sierra Leone
	VI.1913		VI.1913
	<u>R. lunulatus</u> & <u>R. falcatus</u> merging into one another & females probably confused.		(2333) Cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2334, a	N	2334, a
		RML	111173
	(2334) <u>Rhipicephalus lunulatus</u>		(2334) 11 ♂, 9 ♀ <u>Rhipicephalus lunulatus</u>
	(a) <u>Amblyomma variegatum</u>		(a) 2 ♂, 1 ♀ <u>Amblyomma variegatum</u>
	Cows		Cows
	Bandakarifa, Sierra Leone		Bandakarafaia (09.16 N, 11.12 W), Sierra Leone
	18.VI.1913		18.VI.1913
N	2335, a, b	N	2335
		RML	111174
	(2335) <u>Rhipicephalus lunulatus</u>		(2335) 20 ♂, 13 ♀ <u>Rhipicephalus lunulatus</u>
	(a) <u>Amblyomma variegatum</u>		(a) MISSING
	(b) <u>Boophilus australis</u>		(b) MISSING
	Cattle		Cattle
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	28.VI.1913		28.VI.1913
N	2336, a, b	N	2336, a
		RML	111175
	(2336) <u>Boophilus australis</u>		(2336) 30 ♀ <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus lunulatus</u>		(a) 6 ♂, 8 ♀ <u>Rhipicephalus lunulatus</u>
	(b) <u>Amblyomma variegatum</u>		(b) MISSING
	Cows		Cows
	Kurnbum, Sierra Leone		Kurnbum, Sierra Leone (locality not verified)
	21.VI.1913		21.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2337, a-c

- (2337) Amblyomma splendidum 2 ♂'s
1 ♀
- (a) Amblyomma variegatum
(b) Rhipicephalus falcatus
(c) Boophilus australis

Cattle

Ninkintumania, Sierra Leone

26.VI.1913

N 2337, b, c

RML 111176

- (2337) 2 ♂, 1 ♀ Amblyomma splendidum
- (a) MISSING
(b) 3 ♂, 6 ♀ Rhipicephalus lunulatus
(b) 27 ♂, 15 ♀ Rhipicephalus senegalensis
(c) 3 ♀ Boophilus geigy

Cattle

Ninkintumania, Sierra Leone
(locality not verified)

26.VI.1913

N 2338, a, b

- (2338) Rhipicephalus falcatus
- (a) Rhipicephalus lunulatus
(b) Amblyomma splendidum

Bush-cow

Shot near Ninkintumania,
Sierra Leone

27.VI.1913

- (2338b) 1 ♂, 1 ♀ to Dr. S. Hadwen,
Brit. Columbia, Canada 10.X.1913
(2338b) 1 ♂, 1 ♀ to prof. E. Brumpt,
Ecole Médecine, Paris 12.X.1922.

N 2338, a, b

RML 111177

- (2338) 2 ♂ Rhipicephalus longus
(2338) 6 ♂, 3 ♀ Rhipicephalus senegalensis
(2338) 2 ♂, 2 ♀ Rhipicephalus lunulatus
- (a) 6 ♂, 4 ♀ Rhipicephalus lunulatus
(b) 33 ♂, 15 ♀ Amblyomma splendidum

Bush-cow

Shot near Ninkintumania, Sierra Leone
(locality not verified)

27.VI.1913

- The Rhipicephalus longus collection
was cited by Clifford & Anastos
(1962: 24).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2339	N	2339 MISSING
	<u>Amblyomma variegatum</u>		
	Cows		
	Kurnbum, Sierra Leone		
	21.VI.1913		
N	2340, a, b	N	2340a, b
	(2240) <u>Amblyomma variegatum</u>	RML	111178
	(a) <u>Rhipicephalus simus</u>		(2240) MISSING
	(b) <u>Boophilus australis</u>		(a) 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		(b) 1 ♀ <u>Boophilus geigy</u>
	Serakoria, Sierra Leone		Cattle
	24.VI.1913		Perhaps Serakolia (09.32 N, 11.05 W), Sierra Leone
N	2341, a, b	N	2341a, b
	(2341) <u>Amblyomma variegatum</u>	RML	111179
	(a) <u>Rhipicephalus lunulatus</u> ♀'s		(2341) MISSING
	(b) <u>Boophilus australis</u> ♀'s		(a) 2 ♀ <u>Rhipicephalus lunulatus</u>
	Cattle		(b) 2 ♀ <u>Boophilus geigy</u>
	Bende, Sierra Leone		Cattle
	23.VI.1913		Bende (08.24 N, 10.19 W), Sierra Leone
			23.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2342, a, b

- (2342) Amblyomma variegatum
 (a) Boophilus australis
 (b) Rhipicephalus simus

Cattle

Koinadugu, Sierra Leone

11.VI.1913

N 2342a, b

RML 111180

- (2342) MISSING
 (a) 7 ♀ Boophilus geigy
 (b) 1 ♀ Rhipicephalus senegalensis

Cattle

Koinadugu (09.32 N, 11.22 W),
Sierra Leone

11.VI.1913

N 2343, a-c

- (2343) Rhipicephalus lunulatus
 (a) Rhipicephalus falcatus 2 ♂, 1 ♀
 (b) Boophilus australis
 (c) Amblyomma variegatum

Cattle

Yeria, Sierra Leone

15.VI.1913

(2343) 1 ♂, 1 ♀ to Dr. S. Hadwen,
Brit. Columbia, Canada 10.X.1913

N 2343, a, b

RML 111181

- (2343) 56 ♂, 62 ♀ Rhipicephalus lunulatus
 (a) 2 ♂, 1 ♀ Rhipicephalus compositus
 (a) 5 ♂, 8 ♀ Rhipicephalus senegalensis
 (b) 10 ♀ Boophilus geigy
 (c) MISSING

Cattle

Yeria, Sierra Leone (locality not
verified)

15.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2344, a, b	N	2344 a-c
		RML	111182
	(2344) <u>Amblyomma variegatum</u>		(2344) MISSING
	(a) <u>Rhipicephalus lunulatus</u>		(a) 59 ♂, 48 ♀ <u>Rhipicephalus lunulatus</u>
	(b) <u>Rhipicephalus falcatus</u>		(b) 5 ♂, 4 ♀ <u>Rhipicephalus</u>
	(c) <u>Boophilus australis</u>		<u>senegalensis</u>
			(c) 1 ♂, 28 ♀ <u>Boophilus geigy</u>
	Cows		Cows
	Firawa, Sierra Leone		Either Firawa (09.21 N, 11.18 W) or (09.31 N, 10.51 W), Sierra Leone
	16.VI.1913		16.VI.1913
			The <u>R. lunulatus</u> collection was incorrectly labelled N2344.

NOTE: Professor Nuttall inadvertently repeated numbers N2327-N2344. To these entries I have added the suffix Z to facilitate separation of the collections.

Five tubes of ticks received from Mr. R. Hancock, "Hadleigh," Mary's Road, Stechford, 2 August, 1913:-

N	2327Z	N	2327Z
		RML	111183
	<u>Ixodes hexagonus</u> 4 ♀'s		4 ♀ <u>Ixodes hexagonus</u>
	Stoat		<u>Mustela erminea</u>
	Little Packington, Warwickshire, England		Little Packington (52.27 N, 01.41 W), Warwickshire, England
	VII.1913		VII.1913
	R. Cornish		R. Cornish
			Cited: Nuttall (1916; 328).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2328Z	N	2328Z
	<u>Ixodes hexagonus</u> 5 ♀'s	RML	111184
	Stoat		4 ♀ <u>Ixodes hexagonus</u>
	Little Packington, Warwickshire,		<u>Mustela erminea</u>
	VII.1913		Little Packington (52.27 N, 01.41 W), Warwickshire, England
	R. Cornish		VII.1913
			R. Cornish
			Cited: Nuttall (1916: 328).
N	2329Z	N	2329Z
	<u>Ixodes hexagonus</u> 3 N's	RML	111185
	Stoat		3 N <u>Ixodes hexagonus</u>
	Little Packington, Warwickshire, England		<u>Mustela erminea</u>
	VII.1913		Little Packington (52.27 N, 01.41 W), Warwickshire, England
	R. Cornish		VII.1913
			R. Cornish
			Cited: Nuttall (1916: 328).
N	2330Z	N	2330Z
	<u>Ixodes hexagonus</u> 1 ♀	RML	111186
	Ferret		1 ♀ <u>Ixodes hexagonus</u>
	Little Packington, Warwickshire, England		<u>Mustela furo</u>
	VII.1913		Little Packington (52.27 N, 01.41 W), Warwickshire, England
	R. Cornish		VII.1913
			R. Cornish
			Cited: Nuttall (1916: 328).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2331Z	N	2331Z
		RML	111187
	<u>Ixodes hexagonus</u> 2 ♀'s		2 ♀ <u>Ixodes hexagonus</u>
	Rat		Probably <u>Rattus norvegicus</u>
	Little Packington, Warwickshire, England		Little Packington (52.27 N, 01.41 W), Warwickshire, England
	VII.1913		VII.1913
	R. Cornish		R. Cornish
			Cited: Nuttall (1916: 328).

Ticks rec'd from Dr. R. A. Cleveland, Medical Officer of Health, Nicosia, Cyprus Island, Mediterranean Sea, 5 August, 1913:-

N	2332Z	N	2332Z MISSING
	<u>Argas persicus</u>		
	From chicken house		
	Nicosia, Cyprus		
	8.V.1913		
	M. Aziz		
N	2333Z	N	2333Z MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀'s		
	Camel		
	Famagousta, Cyprus		
	24.IV.1913		
	M. Aziz		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2334Z	N	2334Z
		RML	111188
	<u>Rhipicephalus sanguineus</u> ♂, ♀'s		1 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Nicosia, Cyprus		Nicosia (35.10 N, 33.22 E), Cyprus
	19.V.1913		19.V.1913
	M. Aziz		Dr. M. A. Cleveland
	Dog in government house		
N	2335Z	N	2335Z
		RML	111189
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		2 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Nicosia, Cyprus		Nicosia (35.10 N, 33.22 E), Cyprus
	21.IV.1913		21.IV.1913
	M. Aziz		Dr. M. A. Cleveland
			This collection also contained 1 ♀ <u>Ctenocephalides canis</u> (Siphonaptera)
N	2336Z	N	2336Z
		RML	111190
	<u>Rhipicephalus sanguineus</u> ♀'s		6 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Nicosia, Cyprus		Nicosia (35.10 N, 33.22 E), Cyprus
	21.IV.1913		21.IV.1913
	M. Aziz		Dr. M. A. Cleveland

ORIGINAL DETERMINATIONCURRENT STATUS

N	2337Z	N	2337Z
		RML	111191
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		2 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Nicosia, Cyprus		Nicosia (35.10 N, 33.22 E), Cyprus
	21.IV.1913		21.IV.1913
	M. Aziz		Dr. M. A. Cleveland
			This collection also contained 1 ♀ <u>Ctenocephalides canis</u> (Siphonaptera)
N	2338Z	N	2338Z
		RML	111192
	<u>Rhipicephalus sanguineus</u> N's		1 ♂, 12 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Larnaka, Cyprus		Larnaka (35.18 N, 33.08 E), Cyprus
	23.VI.1913		23.VI.1913
	M. Aziz		Dr. M. A. Cleveland
N	2339Z	N	2339Z
		RML	111193
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀		6 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Papho, Cyprus		Paphos (34.45 N, 32.25 E), Cyprus
	16.VI.1913		16.VI.1913
	M. Aziz		Dr. M. A. Cleveland

ORIGINAL DETERMINATIONCURRENT STATUS

N	2340Z	N	2340Z
		RML	111194
	<u>Rhipicephalus sanguineus</u> N's		7 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Limassol, Cyprus		Limassol (34.40 N, 33.02 E), Cyprus
	22.VI.1913		22.VI.1913
	M. Aziz		Dr. M. A. Cleveland
N	2341Z	N	2341Z
		RML	111195
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀		4 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Papho, Cyprus		Paphos (34.45 N, 32.25 E), Cyprus
	20.VI.1913		20.VI.1913
	M. Aziz		Dr. M. A. Cleveland
N	2342Z	N	2342Z
		RML	111196
	<u>Ornithodoros tholozani</u> (alive)		3 ♂, 3 ♀, 4 N <u>Ornithodoros tholozani</u>
	Quetta, Baluchistan, India		Quetta (30.12 N, 67.00 E), Pakistan
	6.VIII.1913		6.VIII.1913
	Rec'd from Major G.E.F. Stammers, R.A.M.C.		Rec'd from Major G.E.F. Stammers, R.A.M.C.
	[Used for raising experiments] Found dead 12.VIII.1914 ["Collected amongst a host of <u>A. persicus</u> by Major Browse's men. Sent in a bottle with crumpled filter paper"]. Survived just one year unfed in laboratory in Cambridge, at room temperature.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2343Z	N	2343Z
		RML	111197
	<u>Boophilus australis</u> ♀'s		10 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Shanghai, China		Shanghai (31.14 N, 121.28 E), Peoples Republic of China
	VII.1913		VII.1913
	Rec'd from Dr. A. Stanley, Health Department, Shanghai, 6.VIII.1913		Rec'd from Dr. A. Stanley, Health Department, Shanghai, 6.VIII.1913
	[Native name for these ox ticks in China: "Yoong"]		
	Three tubes of ticks received from Dr. L. de Blicck, Veeartsenijkundig Laboratorium, Departement van Landbouw, Nijverheid en Handel, Buitenzorg, Java, Dutch E. Indies 6.VIII.1913:-		
N	2344Z	N	2344Z MISSING
	<u>Hyalomma aegyptium</u> ♂'s		
	Cattle, Bengalese		
	Bengalen, Java, Dutch East Indies		
	21.VI.1912		
N	2345	N	2345
		RML	111198
	<u>Boophilus australis</u> ♂'s, ♀'s, N's		8 ♂, 10 ♀, 14 N <u>Boophilus microplus</u>
	Bullock		Bullock
	Deli, Sumatra, Dutch East Indies		Labuhandeli (03.45 N, 98.41 E), Sumatra, Indonesia
	21.VI.1913		21.VI.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2346	N	2346
		RML	111199
	<u>Boophilus australis</u> ♂'s, ♀'s, N's		4 ♂, 7 ♀, 2 N <u>Boophilus microplus</u>
	Bullock		Bullock
	Deli, Sumatra, Dutch East Indies		Labuhandeli (03.45 N, 98.41 E), Sumatra, Indonesia
	21.VI.1913		21.VI.1913
<p>Ticks received from Major T. W. Rudd, A.V.C., D.V.O., (5th Mhow Division), Station Veterinary Hospital, Mhow, Central Provinces, India, 11 August, 1913:-</p>			
N	2347	N	2347
		RML	111200
	<u>Rhipicephalus sanguineus</u> 2 ♀'s		2 ♀ <u>Rhipicephalus sanguineus</u>
	Foxhound		Dog (Foxhound)
	Mhow, C. P., India		Mhow (22.33 N, 75.46 E), India
	20.VII.1913		20.VII.1913
			Major T. W. Rudd
N	2348	N	2348 MISSING
	<u>Hyalomma aegyptium</u> nymphs		
	Horse (belonging to Colonel Stephen)		
	Mhow, C. P., India		
	19.VII.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2349

N 2349

RML 111201

Rhipicephalus sanguineus ♂'s, ♀'s22 ♂, 20 ♀, 2 N Rhipicephalus sanguineus

Dog (fox terrier)

Dog (fox terrier)

Mhow, C. P., India

Mhow (22.33 N, 75.46 E), India

23.VII.1913

23.VII.1913

Major T. W. Rudd

1 ♂, 1 ♀ to Dr. K. F. Meyer, Univ.
California, Berkeley 15.XI.1913Two tubes of ticks retained from the collection sent for determination by
Dr. N. Annandale, Superintendent, Indian Museum, Calcutta, India.

N 2350

N 2350

RML 111202

Rhipicephalus haemaphysaloides
2 ♂'s, 3 ♀'s2 ♂, 6 ♀ Rhipicephalus haemaphysaloides

Off ?

Off ?

Singla (1,500 ft.), Darjiling
DistrictSingla, Darjeeling District, India
(456 m) (locality not verified)

IV.1913

IV.1913

Lord Carmichael's coll.

Lord Carmichael's coll.

[Indian Museum $\frac{CC}{367}$ b]

ORIGINAL DETERMINATIONCURRENT STATUS

N	2351	N	2351
		RML	111203
	<u>Boophilus australis</u> 2 ♂'s, ♀'s		2 ♂, 6 ♀ <u>Boophilus microplus</u>
	Off ?		Off ?
	Sukna (1,000 ft.), Darjiling District		Sukna (26.47 N, 88.22 E), India (305 m)
	IV.1913		IV.1913
	Lord Carmichael's coll.		Lord Carmichael's coll.
	[Indian Museum $\frac{CC}{370}$]		
	Five tubes of ticks received from F. Harken, Esq., c/o Mission de Prospection, Luofu (Rutshuru), Congo Belge (Via Mombasa & Fort Portal), Central Africa, 11 August, 1913:-		
N	2352	N	2352
		RML	111204
	<u>Rhipicephalus appendiculatus</u> ♀'s & N's		1 ♂, 3 ♀, 4 N <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	Kimaku, Belgian Congo		Kimaku (00.38 S, 29.08 E), Zaire (1280 m)
	23.V.1913		23.V.1913
	[Note: Kimaka Lat. 0°38 S, Long. 29°08 E. Alt. 4,200 ft.]		I could not verify this locality in any Zaire gazetteer so have relied on the coordinates given by Nuttall

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 2353</p> <p><u>Ixodes rarus</u> ♀'s</p> <p>Goat</p> <p>Beeba-Shero, Belgian Congo</p> <p>23.V.1913</p> <p>[Note: Beeba-Shero Lat. 0°45 S, Long. 29°31 E. Alt. 5,600 ft.]</p>	<p>N 2353</p> <p>RML 111205</p> <p>2 ♀ <u>Ixodes cumulatimpunctatus</u></p> <p>Goat</p> <p>Beeba-Shero (00.45 S, 29.31 E), Zaire (1707 m)</p> <p>23.V.1913</p> <p>I could not verify this locality in any Zaire gazetteer so have relied on the coordinates given by Nuttall. Nuttall (1916: 331) gave the locality as Buba-Shero; Arthur & Burrow (1957: 503).</p>
<p>N 2354, a</p> <p>(2354) <u>Haemaphysalis parmata</u> ♂, N, L</p> <p>(a) <u>Rhipicephalus appendiculatus</u> ♂, ♀</p> <p>Antelope (light-brown with white spots)</p> <p>Kimaka, Belgian Congo</p> <p>15.V.1913</p>	<p>N 2354, a</p> <p>RML 90007</p> <p>(2354) 1 ♀, 1 N, 2 L <u>Haemaphysalis parmata</u></p> <p>(a) 1 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u></p> <p>Antelope (light-brown with white spots)</p> <p>Kimaka (00.38 S, 29.08 E), Zaire (1280 m)</p> <p>15.V.1913</p> <p>See remark under N 2352</p>

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2355	N	2355
		RML	111206
	<u>Rhipicephalus appendiculatus</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	Mahleo, Belgian Congo		Mahleo (00.27 S, 29.12 E), Zaire (1768 m)
	2.VI.1913		2.VI.1913
	[Note: Mahleo Lat 0°27 S, Long. 29°12 E. Alt. 5,800 ft.]		I could not verify this locality in any Zaire gazetteer so have relied on the coordinates given by Nuttall.
N	2356	N	2356
		RML	111207
	<u>Rhipicephalus appendiculatus</u> ♂, N's		3 ♂, 2 N <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	Kimaka, Belgian Congo		Kimaka (00.38 S, 29.08 E), Zaire (1280 m)
	14.V.1913		14.V.1913
			See remark under N 2352
N	2357	N	2357
		RML	111208
	<u>Aponomma gervaisi</u> ♂'s		2 ♂ <u>Aponomma gervaisi</u>
	Bengal Monitor		<u>Varanus bengalensis</u>
	India		India
	8.VIII.1913		8.VIII.1913
	[Z.S. 38]		

Three tubes of ticks received from H. E. Cross, Esq., M.R.C.V.S., B. Sc.,
Camel Specialist, Sohawa, Hjelum District, Punjab, Indian 19 August, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2358	N	2358
		RML	111209
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		4 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Sohawa, Punjab, India		Sohawa, Pakistan (locality not verified; 3 possible localities in Punjab)
	22.VII.1913		22.VII.1913
N	2359	N	2359 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Goat		
	Sohawa, Punjab, India		
	22.VII.1913		
N	2360	N	2360 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Camel		
	Sohawa, Punjab, India		
	22.VII.1913		

Two tubes of ticks received from L. C. Heath, Esq., Mwendwa, Mumbwa, N. Rhodesia, 26.VIII.1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2361, a	N	2361a
		RML	111210
	(2361) <u>Amblyomma variegatum</u> ♂'s		(2361) MISSING
	(a) <u>Boophilus australis</u> ♀		(a) 1 ♀ <u>Boophilus decoloratus</u>
	Sable bull		<u>Hippotragus niger</u>
	Shot at Salama (Native District of Baluba District) N. Rhodesia		Shot at Salama (15.10 S, 26.20 E), Native District of Baluba, Namwala District, Zambia
	7.VII.1913		7.VII.1913
N	2362, a	N	2362
		RML	111211
	(2362) <u>Rhipicephalus evertsi</u> ♂, ♀, N		(2362) 2 ♂, 2 ♀, 13 N <u>Rhipicephalus evertsi</u>
	(a) <u>Hyalomma aegyptium</u>		(a) MISSING
	Reed-buck		<u>Redunca arundinum</u>
	Shot at Mangoma (Native District of Baluba District) N. Rhodesia		Shot at Mangoma (14.22 S, 22.02 E), Zambia
	5.VII.1913		5.VII.1913
	Four tubes of ticks received from Dr. Wm. C. Wigan, Mpondas, Fort Johnston, Nyasaland B. C. Africa 26 August, 1913:-		
N	2363	N	2363 MISSING
	<u>Hyalomma aegyptium</u> 1 ♀		
	Found "in saloon of steamer"		
	Monkey Bay, Lake Nyasa, Nyasaland		
	23.V.1913		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2364 N 2364 MISSING

Rhipicephalus sanguineus ♂

Man (European)

Liborna Island, Monkey Bay,
Nyasaland

20.VI.1913

N 2365 N 2365 MISSING

Rhipicephalus sanguineus ♂'s

Wart-hog

Monkey Bay, Lake Nyasa, Nyasaland

V.1913

N 2366 N 2366 MISSING

Haemaphysalis leachi ? ♂

Hyrax

Monkey Bay, Lake Nyasa, Nyasaland

23.V.1913

Hoogstraal (1956b: 169) noted that
this collection was missing

Three tubes of ticks received from Captain A. J. Williams, A.V.C., i/p
Station Veterinary Hospital, Secunderabad, Deccan, India, 26 August 1913:-

N 2367 N 2367 MISSING

Rhipicephalus sanguineus ♂, ♀, N

Dog (animal dying-suspected
Piroplasmosis)

Secunderabad, Deccan, India

20.VII.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2368	N	2368
		RML	111212
	<u>Hyalomma aegyptium</u> ♀'s, N's		5 ♂, 5 ♀, 3 N <u>Hyalomma anatolicum anatolicum</u>
	Horse		Horse
	Secunderabad, Deccan, India		Secunderabad (17.27 N, 78.30 E), India
	22.VII.1913		22.VII.1913
N	2369	N	2369 MISSING
	<u>Hyalomma aegyptium</u> N's		
	Cattle		
	Secunderabad, Deccan, India		
	23.VII.1913		
	Collection of ticks received from Richard Hancock, Esq., "Hadleigh" Mary's Road, Stechford 10th June, 1913:-		
N	2370, a, b	N	2370, b
		RML	111213
	(2370) <u>Rhipicephalus pulchellus</u> 2 ♂, 2 ♀		(2370) 2 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Hyalomma aegyptium</u> 1 ♀		(a) MISSING
	(b) <u>Boophilus australis</u> 1♂, 2 ♀		(b) 1 ♂, 2 ♀ <u>Boophilus decoloratus</u>
	Zebra		Zebra
	Africa		Africa
	No other data		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2371	N	2371 MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀		
	Ibex, Nubian		
	Africa		
	No other data		
N	2372, a	N	2372, a
	(2372) <u>Ixodes ricinus</u> 2 ♀'s	RML	111214
	(a) <u>Ixodes canisuga</u> ♀'s & N		(2372) 2 ♀ <u>Ixodes ricinus</u>
	Fox, common		(a) 1 ♀, 2 N <u>Ixodes canisuga</u>
	No other data		<u>Vulpes vulpes</u>
N	2373	N	2373
	<u>Rhipicephalus</u> sp. N's	RML	111215
	Jackal		12 N <u>Rhipicephalus</u> sp.
	No other data		Jackal
N	2374	N	2374
	<u>Ixodes ricinus</u> ♀'s	RML	111216
	English red deer		1 ♂, 3 ♀ <u>Ixodes ricinus</u>
	No other data		<u>Cervus elaphus</u>

ORIGINAL DETERMINATIONCURRENT STATUS

N	2375, a	N	2375
		RML	111217
	(2375) <u>Rhipicephalus pulchellus</u> 1 ♂		(2375) 1 ♂ <u>Rhipicephalus pulchellus</u>
	(a) <u>Rhipicephalus</u> sp. 2 ♀		(a) MISSING
	Burchell's zebra		<u>Equus burchelli</u>
			Africa
	No other data		
	Thrown away, no good 13.I.1915. N.		
N	2376, a	N	2376, a
		RML	111218
	(2376) <u>Ixodes ricinus</u> 2 ♀'s		(2376) 2 ♀ <u>Ixodes ricinus</u>
	(a) <u>Ixodes canisuga</u> 1 ♀		(a) 1 ♀ <u>Ixodes canisuga</u>
	Wild boar		<u>Sus scrofa</u>
	No other data		(2376a) tentative ID
N	2377, a	N	2377, a
		RML	111219
	(2377) <u>Rhipicephalus pulchellus</u> 1 ♀		(2377) 1 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Haemaphysalis leachi</u> 2 N's		(a) 3 N <u>Haemaphysalis leachi</u>
	(mutilated)		
	Rhinoceros		<u>Diceros bicornis</u> or <u>Ceratotherium</u>
			<u>simum</u>
	Africa		Africa
	No other data		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2378	N	2378
		RML	111220
	<u>Rhipicephalus pulchellus</u> 2 ♂'s		2 ♂ <u>Rhipicephalus pulchellus</u>
	Wildebeeste		<u>Connochaetes taurinus</u>
			Africa
	No other data		
N	2379	N	2379
		RML	111221
	<u>Ixodes schillingsi</u> ! 1 ♂, 2 ♀		1 ♂, 2 ♀ <u>Ixodes schillingsi</u>
	Colobus monkey		<u>Colobus</u> sp.
	Africa		Africa
	1913		1913
	No other data		Cited: Nuttall (1916: 333); Arthur (1957a: 545).
N	2380, a	N	2380, a
		RML	111222
	(2380) <u>Ixodes canisuga</u> N's		(2380) 3 N <u>Ixodes canisuga</u>
	(a) <u>Ixodes ricinus</u> 1 ♀		(a) 1 ♀ <u>Ixodes ricinus</u>
	Scotch red deer		<u>Cervus elaphus</u>
			Scotland
	No other data		(2380a) Cited: Nuttall (1916: 331) who gave Scotland as the locality.
N	2381	N	2381 MISSING
	<u>Aponomma</u> sp. 1 ♀		
	Monitor		
	No other data		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2382, a	N	2382
		RML	111223
	(2382) <u>Rhipicephalus pulchellus</u> ♂, ♀'s		(2382) 1 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Hyalomma aegyptium</u> 1 ♀		(a) MISSING
	Giraffe		<u>Giraffa camelopardalis</u>
			Africa
	No other data		
N	2383	N	2383 MISSING
	Undetermined genus		
	Striped Hyaena		
	No other data		
N	2384, a	N	2384a
		RML	111224
	(2384) <u>Hyalomma aegyptium</u> 2 ♂, 2 ♀		(2384) MISSING
	(a) <u>Rhipicephalus pulchellus</u> ♂		(a) 1 ♂ <u>Rhipicephalus pulchellus</u>
	Buffalo		<u>Syncerus caffer</u>
			Africa
	No other data		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2385, a, b	N	2385, b
		RML	111225
	(2385) <u>Rhipicephalus pulchellus</u> σ , 3 f		(2385) 1 σ , 3 f <u>Rhipicephalus pulchellus</u>
	(a) <u>Hyalomma aegyptium</u> σ		(a) MISSING
	(b) <u>Rhipicephalus pravus</u> f 's		(b) 4 f <u>Rhipicephalus pravus</u>
	Eland		<u>Taurotragus oryx</u>
			Africa
	Note to 2385b: should read <u>R. neavei</u> Warb., Dönitz's <u>pravus</u> (nom. nuda) is merely a form of <u>neavei</u> G.H.F.N. 7.V.1919		(2385b) Cited: Walker (1956: 250); Santos Dias (1958: 477).
N	2386, a	N	2386, a
		RML	111226
	(2386) <u>Aponomma exornatum</u> 3 σ , 1 f		(2386) 1 σ , 1 f <u>Aponomma exornatum</u>
	(a) <u>Amblyomma marmoreum</u> σ 's		(2386) 2 σ <u>Aponomma flavomaculatum</u>
			(a) 2 σ <u>Amblyomma sparsum</u>
	Lizard		Lizard
	No other data		No other data
N	2387	N	2387
		RML	111227
	<u>Ixodes ricinus</u> f 's		1 σ , 5 f <u>Ixodes ricinus</u>
	Wild cat		Wild cat
	No other data		No other data

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 2388, a-d</p> <p>(2388) <u>Haemaphysalis spinigera</u> 5 ♂, 2 ♀</p> <p>(a) <u>Rhipicephalus haemaphysaloides</u> ♂</p> <p>(b) <u>Haemaphysalis parva</u></p> <p>(c) <u>Haemaphysalis leachi</u> ♀</p> <p>(d) <u>Haemaphysalis parva</u> 1 ♂</p> <p>Panther</p> <p>No other data 2388b ♂'s ♀'s but some specimens very large (C. W. det. 11.I.1915)</p>	<p>N 2388, a-d</p> <p>RML 22302, 71478, 71479</p> <p>(2388) 5 ♂, 3 ♀ <u>Haemaphysalis spinigera</u> (RML 22302)</p> <p>(a) 1 ♂ <u>Rhipicephalus haemaphysaloides</u> (RML 22302)</p> <p>(b) 2 ♂, 1 ♀ <u>Haemaphysalis intermedia</u> (RML 71478)</p> <p>(b) 5 ♂, 1 ♀ <u>Haemaphysalis turturis</u> (RML 71478)</p> <p>(c) 1 ♀ <u>Haemaphysalis leachi</u> (RML 22302)</p> <p>(d) 1 ♂ <u>Haemaphysalis intermedia</u> (RML 71479)</p> <p>Panther</p> <p>The vial label for the 1 ♂ <u>Rhipicephalus haemaphysaloides</u> incorrectly reads N 2388b</p>
<p>N 2389</p> <p><u>Ornithodoros moubata</u> N</p> <p>Wart-hog</p> <p>Shot near Mwengwa Station, N. Rhodesia, B.C. Africa</p> <p>9.VIII.1913</p> <p>Rec'd 14.IX.1913 from L. C. Heath</p> <p>Note: The only tick found on the wart-hog by Mr. Eminson who shot it, writes L. C. Heath, his letter destroyed. N.</p>	<p>N 2389</p> <p>RML 111228</p> <p>1 N <u>Ornithodoros moubata</u></p> <p><u>Phacochoerus aethiopicus</u></p> <p>Shot near Mwengwa (15.17 S, 25.59 E), Zambia</p> <p>9.VIII.1913</p> <p>Rec'd 14.IX.1913 from L. C. Heath</p> <p>Cited: Hoogstraal (1954: 274).</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	2390	N	2390 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀		
	Bullock		
	Yei, Lado Enclave, Sudan		
	VIII.1913		
	Rec'd from Captain H. S. Ranken, R.A.M.C., 12.IX.1913		
N	2391	N	2391 MISSING
	<u>Boophilus annulatus</u> ♂, ♀'s		
	Cattle		
	Texas, U. S. America		
	VIII.1913		
	Rec'd from Lieut. H. S. Michil, U.S.A. Medical Corps, Washington, D.C., 30.VIII.1913		
	Ticks received back from the Imperial Bureau of Entomology, London, S.W. (ex Report No. 28), 16 September, 1913:-		
N	2392	N	2392
		RML	111229
	<u>Ornithodoros savignyi</u>		2 ♀, 9 N <u>Ornithodoros savignyi</u>
	Bulhar, British Somaliland, Africa		Bulhar (10.23 N, 44.25 E), Somalia
	6.IV.1913		
	[No. 676]		
	[Somali name:- Kudkudeh or Kudkuda]		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2393

Rhipicephalus neavei ♂'s, ♀'s

"Gwapi"

West Nyasa

I.1913

Dr. J. G. Morgan

[No. 679]

N 2393

RML 111230

1 ♂, 2 ♀ Rhipicephalus kochiSylvicapra grimmia

Malawi

I.1913

Dr. J. G. Morgan

N 2394

Rhipicephalus supertritus ♂'s, ♀'s

Wart-hog

Marimba, Nyasaland

VI.1913

Dr. J. G. Morgan

[No. 682a]

N 2394

RML 111231

1 ♂ Rhipicephalus compositus
3 ♂, 2 ♀ Rhipicephalus longus
1 ♂ Rhipicephalus simusPhacochoerus aethiopicusMarimba, Malawi (locality not
verified)

VI.1913

Dr. J. G. Morgan

The R. longus collection was cited
as 2 ♂, 1 ♀ by Santos Dias (1958:
474). Cited as R. supertritus.
(Hoogstraal 1954b: 279).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2395	N	2395
		RML	111232
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		2 ♂, 3 ♀ <u>Rhipicephalus simus</u>
	Dog		Dog
	Sichenya River, Mlanje, Nyasaland		Sichenya River, Mlanje (15.50 S, 35.35 E), Malawi
	XII.1912		XII.1912
	S. A. Neave		S. A. Neave
	[No. 690]		
N	2396	N	2396
		RML	111233
	<u>Rhipicephalus supertritus</u> ♂'s, ♀'s		5 ♂, 5 ♀ <u>Rhipicephalus supertritus</u>
	Buffalo		<u>Syncerus caffer</u>
	Mpenga, Gomba, Uganda		Probably Mpenja (00.10 N, 32.41 E) or (00.14 N, 32.03 E), District of Gomba, Uganda
	19.XII.1912		19.XII.1912
	F. A. Knowles		F. A. Knowles
	[No. 694a]		
	Three tubes of ticks received from Dr. A. Yale Massey, Boma, Belgian Congo, Central Africa, 17 September, 1913:-		
N	2397	N	2397
		RML	111234
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s		3 ♂, 6 ♀ <u>Amblyomma cohaerens</u>
	Wild Buffalo		<u>Syncerus caffer</u>
	Belgian Congo		Zaire
	1913		1913
			Cited: Robinson (1926: 110).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2398

N 2398

RML 111235

Rhipicephalus falcatus ♂'s, ♀'s1 ♂ Rhipicephalus ziemanni
4 ♂, 1 ♀ Rhipicephalus cliffordi
10 ♂, 6 ♀ Rhipicephalus senegalensis

Dog

Dog

Belgian Congo

Zaire

1913

1913

1 ♂, 1 ♀ to J. de Meza, Zomba,
Nyasaland 19.II.1916

N 2399

N 2399 MISSING

Haemaphysalis leachi 1 ♀

Off ?

Belgian Congo

1913

Ticks received from Dr. Lucius Nicholls, Mile 28, Magadi Railway, British
East Africa, 16 September, 1913:-

N 2400

N 2400 MISSING

Amblyomma variegatum ? N's

Small ground bird

Magadi Railway, Brit. East Africa

VII.1913

ORIGINAL DETERMINATION	CURRENT STATUS
2401	N 2401
<u>Rhipicephalus simus</u> ♀'s	RML 111236 2 ♀ <u>Rhipicephalus simus</u>
Lion	<u>Panthera leo</u>
River Kadjiado, Magadi Railway	River Olkejuado (02.27 S, 37.17 E), Kenya
VIII.1913	VIII.1913
2402	N 2402
<u>Rhipicephalus simus</u> ♂'s	RML 111237 2 ♂ <u>Rhipicephalus simus</u>
Lion	<u>Panthera leo</u>
River Kadjiado, Magadi Railway	River Olkejuado (02.27 S, 37.17 E), Kenya
VIII.1913	VIII.1913
2403, a-c	N 2403, a, b
(2403) <u>Rhipicephalus appendiculatus</u> ♂'s	RML 111238 (2403) 2 ♂ <u>Rhipicephalus appendiculatus</u>
(a) <u>Rhipicephalus simus</u> ♂	(a) 1 ♂ <u>Rhipicephalus simus</u>
(b) <u>Rhipicephalus pulchellus</u> ♂	(b) 1 ♂ <u>Rhipicephalus pulchellus</u>
(c) <u>Haemaphysalis leachi</u> ♂	(c) MISSING
Lion	<u>Panthera leo</u>
River Kadjiado, Magadi Railway	River Olkejuado (02.27 S, 37.17 E), Kenya
VIII.1913	VIII.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2404	N	2404
		RML	111239
	<u>Rhipicephalus appendiculatus</u> ♀'s		4 ♀ <u>Rhipicephalus carnivoralis</u>
	Lion cubs		<u>Panthera leo</u> (cubs)
	Magadi		Magadi (01.54 S, 36.17 E), Kenya
	VIII.1913		VIII.1913
N	2405	N	2405
		RML	111240
	<u>Rhipicephalus evertsi</u> ♂'s, ♀		3 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Zebra		<u>Equus burchelli</u>
	Kadjiado Plains, Magadi		Kadjiado District (02.00 S, 36.45 E) Kenya
	VIII.1913		VIII.1913
N	2406	N	2406
		RML	111241
	<u>Rhipicephalus pulchellus</u> ♀		1 ♀ <u>Rhipicephalus pulchellus</u>
	Zebra		<u>Equus burchelli</u>
	Kadjiado Plains, Magadi		Kadjiado District (02.00 S, 36.45 E), Kenya
	VIII.1913		VIII.1913
N	2407	N	2407 MISSING
	<u>Hyalomma aegyptium</u> ♂'s		
	Zebra		
	Kadjiado Plains, Magadi, B.E. Africa		
	VIII.1913		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2408	N	2408
		RML	111242
	<u>Rhipicephalus pulchellus</u> ♂'s		4 ♂ <u>Rhipicephalus pulchellus</u>
	Zebra		<u>Equus burchelli</u>
	Kadjiado Plains, Magadi		Kadjiado District (02.00 S, 36.45 E), Kenya
	VIII.1913		VIII.1913
N	2409, a	N	2409, a
		RML	111243
	(2409) <u>Rhipicephalus simus</u> ♂		(2409) 1 ♂ <u>Rhipicephalus simus</u>
	(a) <u>Rhipicephalus evertsi</u> ♂		(a) 1 ♂ <u>Rhipicephalus evertsi</u>
	Zebra		<u>Equus burchelli</u>
	Kadjiado Plains, Magadi		Kadjiado District (02.00 S, 36.45 E), Kenya
	VIII.1913		VIII.1913
N	2410	N	2410
		RML	111244
	<u>Rhipicephalus</u> sp. N's		31 N <u>Rhipicephalus</u> sp.
	Ear of hare		<u>Lepus</u> sp.
	Magadi Railway		Magadi Railway, Kenya (locality not verified)
	VIII.1913		VIII.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N	2411	N	2411
		RML	111245
	<u>Rhipicephalus neavei</u> ♀'s		1 ♀ <u>Rhipicephalus kochi</u> 1 ♀ <u>Rhipicephalus punctatus</u>
	Impala		<u>Aepyceros melampus</u>
	Mwengwa, Mumbwa, N. Rhodesia, B. C. Africa		Mwengwa (15.17 S, 25.59 E), Zambia
	14.VIII.1913		14.VIII.1913
	Rec'd from Mr. L. C. Heath, 23.IX.1913		Rec'd from Mr. L. C. Heath, 23.IX.1913

Twenty-nine tubes of ticks received from Dr. João Baptista Botelho, Chief Veterinary Surgeon, Repartição de Agricultura, Seccao de Veterinaria, Lourenco Marques, Portuguese East Africa, 25 September 1913:-

N	2412	N	2412 MISSING
	<u>Boophilus decoloratus</u>		
	Cow		
	Namahacha, Portuguese East Africa		
	28.VII.1913		
	Rec'd from Dr. J. B. Botelho		
	"32"		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2413, a

(2413) Boophilus australis
 (a) 1 ♀ Amblyomma hebraeum
 1 ♀ (abnormal)

Cow

Namahacha

28.VII.1913

Rec'd from Dr. J. B. Botelho

"33"

(2413a) det. L.E.R. XII.1914

N 2413, a

RML 111246

(2413) 60 ♀ Boophilus microplus
 (a) 1 ♀ Amblyomma hebraeum

Cow

Namaacha (25.58 S, 32.01 E),
Mozambique

28.VII.1913

Rec'd from Dr. J. B. Botelho

(2413a) is in a jar marked "Tick
 Abnormalities"
 (2413a) figured by Robinson
 (1920: 175, 176).

N 2414

Boophilus australis

Cow

Namahacha

28.VII.1913

Rec'd from Dr. J. B. Botelho

"34"

N 2414

RML 111247

4 ♂, 52 ♀ Boophilus microplus

Cow

Namaacha (25.58 S, 32.01 E),
Mozambique

28.VII.1913

Rec'd from Dr. J. B. Botelho

ORIGINAL DETERMINATIONCURRENT STATUS

N	2415	N	2415
		RML	111248
	<u>Boophilus australis</u>		54 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	28.VII.1913		28.VII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"35"		
N	2416	N	2416
		RML	111249
	<u>Boophilus australis</u>		5 ♂, 33 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	28.VII.1913		28.VII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"36"		
N	2417, a, b	N	2417, a, b
		RML	111250
	(2417) <u>Rhipicephalus evertsi</u> ♂, ♀, N		(2417) 10 ♂, 5 ♀, 4 N <u>Rhipicephalus evertsi</u>
	(a) <u>Boophilus australis</u>		(a) 16 ♀ <u>Boophilus microplus</u>
	(b) <u>Amblyomma</u> sp. N's		(b) 6 N <u>Amblyomma</u> sp.
	Ewe		Ewe
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	28.VII.1913		28.VII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"37"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2418, a, b	N	2418, a
		RML	111251
	(2418) <u>Boophilus australis</u> (a) <u>Rhipicephalus evertsi</u> (b) <u>Amblyomma hebraeum</u> ♂'s		(2418) 1 ♂, 39 ♀ <u>Boophilus microplus</u> (a) 3 ♂, 2 ♀ <u>Rhipicephalus evertsi</u> (b) MISSING
	Ewe		Ewe
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	28.VII.1913		28.VII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"38"		
N	2419, a, b	N	2419, a, b
		RML	111252
	(2419) <u>Boophilus australis</u> ♂'s, ♀'s (a) <u>Rhipicephalus evertsi</u> (b) <u>Amblyomma hebraeum</u>		(2419) 6 ♂, 50 ♀ <u>Boophilus microplus</u> (a) 1 ♂, 4 ♀ <u>Rhipicephalus evertsi</u> (b) 1 ♂ <u>Amblyomma hebraeum</u>
	Horse		Horse
	Namahacha		Namaacha (25.58 S, 32.01 E), Mozambique
	28.VII.1913		28.VII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"39"		(2419b) cited: Robinson (1926: 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2420, a	N	2420, a
		RML	111253
	(2420) <u>Rhipicephalus evertsi</u>		(2420) 2 ♂, 2 ♀, 2 N <u>Rhipicephalus evertsi</u>
	(a) <u>Boophilus australis</u> ♀		(a) 1 ♂, 3 ♀ <u>Boophilus microplus</u>
	Goat		Goat
	Moamba		Moamba (25.36 S, 32.15 E), Mozambique
	9.VIII.1912		9.VIII.1912
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"40"		
N	2421, a	N	2421, a
		RML	111254
	(2421) <u>Boophilus australis</u>		(2421) 1 ♂, 19 ♀ <u>Boophilus microplus</u>
	(a) <u>Amblyomma hebraeum</u> 1 ♂ (abnormal)		(a) 6 ♂ <u>Amblyomma hebraeum</u>
	Cow		Cow
	Moamba		Moamba (25.36 S, 32.15 E), Mozambique
	8.VIII.1913		8.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"41"		(2421a) cited: Robinson (1926; 107).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2422	N	2422
		RML	105675
	<u>Rhipicephalus evertsi</u>		5 ♂, 2 ♀ <u>Rhipicephalus evertsi</u> 1 ♀ <u>Boophilus microplus</u>
	Goat		Goat
	Moamba		Moamba (25.36 S, 32.15 E), Mozambique
	8.VIII.1913		8.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"42"		
N	2423, a	N	2423
		RML	111255
	(2423) <u>Rhipicephalus evertsi</u> (a) <u>Rhipicephalus pulchellus</u> ♀		(2423) 5 ♂, 2 ♀ <u>Rhipicephalus evertsi</u> (a) MISSING
	Mule		Mule
	Moamba		Moamba (25.36 S, 32.15 E), Mozambique
	9.VIII.1913		9.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"43"		
N	2424	N	2424 MISSING
	<u>Amblyomma hebraeum</u>		
	Ox		
	Namahacha, Portuguese East Africa		
	31.VII.1910		
	Rec'd from Dr. J. B. Botelho		
	"44"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2425, a	N	2425, a
		RML	111256
	(2425) <u>Haemaphysalis leachi</u> (a) <u>Amblyomma</u> sp. N		(2425) 3 ♀ <u>Haemaphysalis leachi</u> (a) 9 N <u>Amblyomma</u> sp.
	Dog		Dog
	Magude		Magude (25.02 S, 32.40 E), Mozambique
	11.VIII.1913		1.VIII.1913
	Rec'd from Dr. J. B. Botelho "45"		Rec'd from Dr. J. B. Botelho
N	2426	N	2426
		RML	105780
	<u>Boophilus australis</u>		1 ♂, 16 ♀ <u>Boophilus microplus</u> 1 ♂ <u>Haemaphysalis leachi</u> group
	Ox		Ox
	Magude		Magude (25.02 S, 32.40 E), Mozambique
	8.VIII.1913		8.VIII.1913
	Rec'd from Dr. J. B. Botelho "46"		Rec'd from Dr. J. B. Botelho
N	2427	N	2427
		RML	111257
	<u>Boophilus australis</u> ♀		16 ♀ <u>Boophilus microplus</u>
	Ox		Ox
	Magude		Magude (25.02 S, 32.40 E), Mozambique
	12.VIII.1913		12.VIII.1913
	Rec'd from Dr. J. B. Botelho "47"		Rec'd from Dr. J. B. Botelho

ORIGINAL DETERMINATIONCURRENT STATUS

N	2428	N	2428
		RML	111258
	<u>Rhipicephalus evertsi</u>		1 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Mare		Mare
	Infulene		Infulene (25.48 S, 32.34 E), Mozambique
	9.VIII.1913		9.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"48"		
N	2429, a	N	2429
		RML	111259
	(2429) <u>Boophilus australis</u> ♂, ♀ (a) <u>Amblyomma hebraeum</u>		(2429) 6 ♂, 16 ♀ <u>Boophilus microplus</u> (a) MISSING
	Cow		Cow
	Infulene		Infulene (25.48 S, 32.34 E), Mozambique
	9.VIII.1913		9.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"49"		
N	2430	N	2430
		RML	111260
	<u>Boophilus australis</u>		14 ♂, 14 ♀, 9 N, eggs <u>Boophilus</u> <u>microplus</u>
	Cow		Cow
	Combeze		Combezi (16.05 S, 34.20 E), Mozambique
	8.VIII.1913		8.VIII.1913
	Rec'd from Dr. J. B. Botelho		Rec'd from Dr. J. B. Botelho
	"50"		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2431	N	2431
	<u>Boophilus australis</u>	RML	105781
	Ox		4 ♂, 15 ♀, 1 N, eggs <u>Boophilus microplus</u>
	Macia		1 ♀ <u>Rhipicephalus kochi</u>
	6.VIII.1913		Ox
	Rec'd from Dr. J. B. Botelho		Macia (16.48 S, 37.46 E), Mozambique
	"51"		6.VIII.1913
			Rec'd from Dr. J. B. Botelho
N	2432, a	N	2432a
	(2432) <u>Amblyomma hebraeum</u>	RML	111261
	(a) <u>Rhipicephalus evertsi</u>		(2432) MISSING
	Goat		(a) 4 ♂ <u>Rhipicephalus evertsi</u>
	Incomati		Goat
	15.VIII.1913		Incomati (25.28 S, 32.02 E), Mozambique
	Rec'd from Dr. J. B. Botelho		15.VIII.1913
	"52"		Rec'd from Dr. J. B. Botelho
N	2433	N	2433 MISSING
	<u>Amblyomma hebraeum</u>		
	Cow		
	Incomati, Portuguese East Africa		
	15.VIII.1913		
	Rec'd from Dr. J. B. Botelho		
	"53"		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2434	N	2434	MISSING
	<u>Amblyomma hebraeum</u>			
	Ox			
	Incomati, Portuguese East Africa			
	15.VIII.1913			
	Rec'd from Dr. J. B. Botelho			
	"54"			
	1 ♀ to Prof. D'Arcy Thompson XI.1931			
N	2435	N	2435	MISSING
	<u>Amblyomma hebraeum</u>			
	Cow			
	Incomati, Portuguese East Africa			
	15.VIII.1913			
	Rec'd from Dr. J. B. Botelho			
	"55"			
	1 ♂, 1 ♀ to R. W. Mettam, Weybridge IV.1931.			
	1 ♂, 1 ♀ to H. S. Purchase IV.1931.			
N	2436	N	2436	MISSING
	<u>Amblyomma hebraeum</u> ♂'s, ♀'s			
	Ox			
	Incomati, Portuguese East Africa			
	15.VIII.1913			
	Rec'd from Dr. J. B. Botelho			
	"56"			
	Given to D. S. MacLagan 14/10/38			

ORIGINAL DETERMINATIONCURRENT STATUS

N	2437, a	N	2437, a
	(2437) <u>Rhipicephalus evertsi</u> (a) <u>Amblyomma hebraeum</u> ♂, N's	RML	111262
	Ewe		(2437) 3 ♂, 2 ♀ <u>Rhipicephalus evertsi</u> (a) 1 ♂, 4 N <u>Amblyomma hebraeum</u>
	Incomati		Ewe
	15.VIII.1913		Incomati (25.28 S, 32.02 E), Mozambique
	Rec'd from Dr. J. B. Botelho		15.VIII.1913
	"57"		Rec'd from Dr. J. B. Botelho
			(2437a) cited: Robinson (1926: 107).
N	2438	N	2438
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s	RML	66623
	Bush-Buck		20 ♂, 11 ♀, 2 N <u>Rhipicephalus</u> <u>punctatus</u>
	Umbeluzi		<u>Tragelaphus scriptus</u>
	17.VIII.1913		Umbeluzi River (26.01 S, 32.28 E), Mozambique
	Rec'd from Dr. J. B. Botelho		17.VIII.1913
	"58"		Rec'd from Dr. J. B. Botelho

ORIGINAL DETERMINATIONCURRENT STATUS

N 2439

Amblyomma hebraeum ♂, ♀

Goats

Lourenço Marques

20.VIII.1913

Rec'd from Dr. J. B. Botelho

"59"

N 2439

RML 111263

1 ♂, 1 ♀ Amblyomma hebraeum

Goats

Lourenço Marques (25.58 S,
32.34 E), Mozambique

20.VIII.1913

Rec'd from Dr. J. B. Botelho

Cited: Robinson (1926: 107).

N 2440

Argas persicus larvae

Fowls

Lourenço Marques

20.VIII.1913

Rec'd from Dr. J. B. Botelho

"60"

N 2440

RML 111264

9 L Argas persicus

Fowls

Lourenço Marques (25.58 S,
32.34 E), Mozambique

20.VIII.1913

Rec'd from Dr. J. B. Botelho

ORIGINAL DETERMINATIONCURRENT STATUS

N 2441

Ornithodoros tholozani 4 nymphs

Egyptian camel

Cairo, Egypt

VIII.1913

Rec'd from Dr. F. C. Willcocks,
11.II.1913

[These ticks are known to Bedouin camel dealers as "Dallum" - Camels probably imported from Syria or the Sinai via Khartoum or via Suez Canal]

Note: These ticks "occur amongst the thick hair behind the hump". Wants these lice & Mallophaga det? Frank C. Willcocks
21.X.1913, Post Box 63, Cairo.
Letter destroyed - N.

N 2441

RML 111265

4 N Ornithodoros tholozaniCamelus dromedarius

Cairo (30.03 N, 31.15 E), Egypt

VIII.1913

Rec'd from Dr. F. C. Willcocks,
11.II.1913

Willcocks (1922: 429) stated "the camel was in the Gizeh market and may have been an animal recently imported from the Sinai via Kantara."

Cited: Hoogstraal (1956a: 867) but without Nuttall number.

N 2442

Ornithodoros talaje (3)

From houses

Condoto, Colombia, South America

VIII.1913

Dr. H. E. F. Spurrell

Rec'd from Colonel A. Alcock
(London) 8.X.1913

Note: Said to be common in houses at Condoto, Alcock writes 6.X.1913. He has others of this lot. Letter destroyed. N.

N 2442

RML 111266

2 ♀ Ornithodoros talaje

From houses

Condoto (05.06 N, 76.37 W), Colombia

VIII.1913

Dr. H. E. F. Spurrell

Three tubes of ticks received from Major T. W. Rudd, A.V.C., D.V.O. 5th Mhow
Division, Station Veterinary Hospital, Mhow, Central Provinces, India,
8 October, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2443	N	2443 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Airedale terrier (pup)		
	Mhow, India		
	17.IX.1913		
	Rec'd from Major T. W. Rudd		
N	2444	N	2444
		RML	111267
	<u>Boophilus australis</u> ♂'s, ♀'s		2 ♂, 17 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	Gov't Military Dairy Farm, Mhow, India		Gov't Military Dairy Farm, Mhow (22.33 N, 75.46 E), India
	16.IX.1913		16.IX.1913
	Rec'd from Major T. W. Rudd		Rec'd from Major T. W. Rudd
N	2445	N	2445
		RML	111268
	<u>Boophilus australis</u> ♂, ♀'s		1 ♂, 4 ♀ <u>Boophilus microplus</u>
	Cow (No. 222)		Cow (No. 222)
	Gov't Military Dairy Farm, Mhow, India		Gov't Military Dairy Farm, Mhow (22.33 N, 75.46 E), India
	16.IX.1913		16.IX.1913
	Rec'd from Major T. W. Rudd		Rec'd from Major T. W. Rudd

Four tubes of ticks received from Major F. D. Hunt, A.V.C., Superintendent, Remount Depot, Ahmednagar, Deccan, India, 9 October, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2446	N	2446 MISSING
	Hyalomma aegyptium ♂'s, ♀'s		
	Horse		
	Ahmednagar, India		
	28.VIII.1913		
	Rec'd. from Major F. D. Hunt		
N	2447	N	2447 MISSING
	<u>Rhipicephalus sanguineus</u>		
	♂'s, ♀'s, N's		
	Dog		
	Ahmednagar, India		
	28.VIII.1913		
	Rec'd. from Major F. D. Hunt		
N	2448	N	2448
		RML	111269
	<u>Argas persicus</u>		18 ♂, 16 ♀, 11 N <u>Argas persicus</u>
	Fowls		Fowls
	Ahmednagar, India		Ahmadnagar (19.05 N, 74.44 E), India
	28.VIII.1913		28.VIII.1913
	Rec'd. from Major F. D. Hunt		Rec'd. from Major F. D. Hunt

ORIGINAL DETERMINATIONCURRENT STATUS

N 2449

N 2449 MISSING

Hyalomma aegyptium ♂'s, ♀'s

Cow

Ahmednagar, India

28.VIII.1913

Rec'd. from Major F. D. Hunt

Two tubes of ticks received from L. C. Heath, Esq., Mwendwa, Mumbwa,
N. Rhodesia, B. C. Africa, 8 October, 1913:-

N 2450

N 2450

Boophilus decoloratus ♀

RML 115870

1 ♀ Boophilus decoloratus

Hartebeeste

Alcelaphus lichtensteini

Mwendwa, N. Rhodesia

Mwendwa (15.17 S, 25.59 E), Zambia

VIII.1913

VIII.1913

Rec'd. from L. C. Heath

Rec'd. From L. C. Heath

Note: L. C. Heath writes,
31.VIII.1913, that (tick) "larvae
are always to be found in a pocket
immediately beneath the frontal
horn plate of Lichtensteins
Hartebeest. They seem to blacken
when exposed to light." Many
"animals have no ticks at all
just now. Yesterday a wart-hog
& reedbuck with none."
Letter destroyed.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2451	N	2451 MISSING
	<u>Rhipicephalus sanguineus</u> N's		
	Cane rat		
	Mwengwa, N. Rhodesia		
	VIII.1913		
	Rec'd. from L. C. Heath		
N	2452	N	2452
	<u>Haemaphysalis chordeilis</u> ♀'s	RML	111270
	Cattle		Four tubes of <u>Haemaphysalis chordeilis</u> as follows: +300 L; 1 ♂, 1 ♀, 3 N; 29 N; 261 L.
	Manitoba, Canada		Cattle
	IX.1913		Manitoba, Canada
	Received from J.R.N. Harrison, Esq., Winnipeg, Manitoba, Canada 13.X.1913		IX.1913
	[Used for raising experiments] Figured for book on ticks.		Received from J.R.N. Harrison, Esq., Winnipeg, Manitoba, Canada 13.X.1913
	<u>H. chordeilis</u> raised in Cambridge separated into boxes of adults N & L eggs (a) eggs (put with ova) (b) larvae unfed (c) larvae gorged (d) N's unfed (e) N's gorged (f) ♂'s, ♀ unfed		Cited: Nuttall (1915: 430); cited and figured by Nuttall & Warburton (1915: 373-375).
			There is also one vial of eggs in a separate jar containing eggs of numerous species.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2453	N	2453
		RML	111271
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		4 ♂, 1 ♀ <u>Rhipicephalus kochi</u>
	Bush-buck		<u>Tragelaphus scriptus</u>
	Mwengwa, Mumbwa, N. Rhodesia B. C. Africa		Mwengwa (15.17 S, 25.59 E), Zambia
	3.IX.1913		3.IX.1913
	Rec'd from L. C. Heath, Esq., 3.IX.1913		Rec'd from L. C. Heath, Esq., 3.IX.1913
			Nuttall cited the collection date and date of receipt as the same.
	Three tubes of ticks received from Captain C. A. Murray, A.V.C., Sialkot, Punjab, India		
N	2454	N	2454 MISSING
	<u>Rhipicephalus sanguineus</u> N's		
	Dog (Irish terrier)		
	Sialkot, Punjab, India		
	IX.1913		
	Rec'd from Capt. C. A. Murray		
N	2455	N	2455
		RML	111272
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		16 ♂, 11 ♀ <u>Rhipicephalus sanguineus</u>
	Dog (Irish terrier)		Dog
	Sialkot, Punjab, India		Sialkot, Pakistan (locality not verified; 3 possible localities)
	IX.1913		IX.1913
	Rec'd from Capt. C. A. Murray		Rec'd from Capt. C. A. Murray

ORIGINAL DETERMINATIONCURRENT STATUS

N	2456	N	2456 MISSING
	<u>Hyalomma aegyptium</u> 2 ♀		
	Horse		
	Sialkot, Punjab, India		
	IX.1913		
	Rec'd from Capt. C. A. Murray		
	Ticks received from Dr. W. M. Scott (late of Singapore, F. M. States), Pathological Laboratory, Medical Schools, Cambridge.		
N	2457	N	2457
		RML	111273
	<u>Boophilus australis</u> 1 ♂		1 ♂ <u>Boophilus microplus</u>
	Cattle		Cattle
	Singapore		Singapore (01.17 N, 103.51 E), Republic of Singapore
	III.1913		III.1913
	Rec'd from Dr. W. M. Scott		Rec'd from Dr. W. M. Scott
N	2458	N	2458 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dog		
	Singapore		
	III.1913		
	Rec'd from Dr. W. M. Scott		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2459	N	2459
		RML	111274
	<u>Haemaphysalis bispinosa</u> ♂'s, ♀'s		1 ♂, 6 ♀ <u>Haemaphysalis bispinosa</u>
	Fowls		Fowls
	Singapore		Singapore (01.17 N, 103.51 E), Republic of Singapore
	III.1913		III.1913
	Rec'd from Dr. W. M. Scott		Rec'd from Dr. W. M. Scott
	1 ♂, 1 ♀ to Dr. de Blicck, Java 22.I.1915		Cited: Nuttall & Warburton (1915: 432).
	Six tubes of ticks received from Major R. C. Cochrane, A.V.C., Station Veterinary Hospital, Rawalpindi, Punjab, India, 20 October, 1913:-		
N	2460	N	2460
		RML	111275
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		111 ♂, 34 ♀, 1 N <u>Hyalomma anatolicum anatolicum</u>
			1 ♂ <u>Hyalomma dromedarii</u>
			1 ♂ <u>Hyalomma marginatum isaaci</u>
	Goats		Goats
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan
	IX.1913		IX.1913
	Rec'd from Major R. C. Cochrane		Rec'd from Major R. C. Cochrane
			This collection also contained 1 ♀ <u>Lipoptena capreoli</u> (Insecta: Hippoboscidae)

ORIGINAL DETERMINATIONCURRENT STATUS

N	2461	N	2461 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Rawalpindi, Punjab, India		
	IX.1913		
	Rec'd from Major R. C. Cochrane		
N	2462	N	2462
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s	RML	111276
	Sheep		69 ♂, 15 ♀, 1 N <u>Hyalomma anatolicum</u> <u>anatolicum</u>
	Rawalpindi, Punjab, India		1 ♂ <u>Hyalomma marginatum isaaci</u>
	IX.1913		Sheep
	Rec'd from Major R. C. Cochrane		Rawalpindi (33.36 N, 73.04 E), Pakistan
N	2463	N	2463
	<u>Boophilus australis</u> ♀'s	RML	111277
	Cows		32 ♀ <u>Boophilus microplus</u>
	Rawalpindi, Punjab, India		Cows
	IX.1913		Rawalpindi (33.36 N, 73.04 E), Pakistan
	Rec'd from Major R. C. Cochrane		IX.1913
			Rec'd from Major R. C. Cochrane

ORIGINAL DETERMINATIONCURRENT STATUS

N	2464	N	2464 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Rawalpindi, Punjab, India		
	IX.1913		
	Rec'd from Major R. C. Cochrane		
N	2465	N	2465
		RML	66587
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		9 ♂, 1 ♀ <u>Hyalomma marginatum isaaci</u> 2 ♂, 1 ♀ <u>Hyalomma dromedarii</u>
	Buffaloes		Buffaloes
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan
	IX.1913		IX.1913
	Rec'd from Major R. C. Cochrane		Rec'd from Major R. C. Cochrane
			The <u>H. m. isaaci</u> collection was cited by Kaiser & Hoogstraal (1961: 276).
Ticks received from F. Harker, Esq., Kasindi, Congo Belge, Central Africa, 20 October, 1913:-			
N	2466	N	2466
		RML	111278
	<u>Aponomma exornatum</u> 2 ♂		2 ♂ <u>Aponomma flavomaculatum</u>
	Iguana		Iguana
	Lake Albert Edward, Belgian Congo		Lake Albert (01.40 N, 31.00 E), Zaire
	8.VII.1913		8.VII.1913
	Rec'd from F. Harker		Rec'd from F. Harker

ORIGINAL DETERMINATIONCURRENT STATUS

N	2467	N	2467
		RML	111279
	<u>Ornithodoros moubata</u>		1 N <u>Ornithodoros moubata</u>
	From native hut		From native hut
	Kamatabe, Belgian Congo		Kamatabe, Zaire (locality not verified)
	5.VII.1913		8.VII.1913
	Rec'd from F. Harker		Rec'd from F. Harker
	[native name = "Kimputu"]		Date from vial label
N	2468	N	2468 MISSING
	<u>Rhipicephalus sanguineus</u> 1 ♀		
	Goat		
	Kamatabe, Belgian Congo		
	5.VII.1913		
	Rec'd. from F. Harker		
N	2469	N	2469
		RML	111280
	<u>Rhipicephalus sanguineus</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Goats		Goats
	Bolemo, Belgian Congo		Bolemo (02.25 N, 19.08 E), Zaire
	12.VII.1913		12.VII.1913
	Rec'd. from F. Harker		Rec'd from F. Harker
			Tentative ID

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2470	N	2470 MISSING
	<u>Rhipicephalus sanguineus</u> N (rotten!)		
	Sheep		
	Bolemo, Belgian Congo		
	19.VII.1913		
	Rec'd from F. Harker		
N	2471	N	2471
		RML	111281
	<u>Ornithodoros moubata</u>		2 ♀ <u>Ornithodoros moubata</u>
	From Native hut		From native hut
	E. of Bolemo, Belgian Congo		E. of Bolemo (02.25 N, 19.08 E), Zaire
	26.VII.1913		26.VII.1913
	Rec'd from F. Harker		Rec'd from F. Harker
			Probably <u>O. moubata porcinus</u> . Van der Merwe (1968: 286) cited this collection without Nuttall number and gave the locality as "East of Bolerro."
N	2472	N	2472
		RML	111282
	<u>Rhipicephalus appendiculatus</u> ♀'s		1 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	E. of Bolemo, Belgian Congo		E. of Bolemo (02.25 N, 19.08 E), Zaire
	26.VII.1913		26.VII.1913
	Rec'd from F. Harker		Rec'd from F. Harker

ORIGINAL DETERMINATIONCURRENT STATUS

N	2473	N	2473
		RML	111283
	<u>Rhipicephalus appendiculatus</u> ♂, ♀'s		1 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	Goats		Goats
	Bolemo, Belgian Congo		Bolemo (02.25 N, 19.08 E), Zaire
	26-27.VII.1913		26-27.VII.1913
	Rec'd from F. Harker		Rec'd from F. Harker
N	2474	N	2474 MISSING
	<u>Rhipicephalus sanguineus</u> ♂, ♀		
	Dogs		
	Bolemo, Belgian Congo		
	3.VIII.1913		
	Rec'd from F. Harker		
N	2475	N	2475 MISSING
	<u>Haemaphysalis leachi</u> ♀'s		
	Leopard		
	Kimaka, Belgian Congo		
	4.VIII.1913		
	Rec'd from F. Harker		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2476	N	2476
	<u>Ornithodoros moubata</u>	RML	111284
	From floor of hut		2 ♂, 1 ♀ <u>Ornithodoros moubata</u>
	Kasindi, Belgian Congo		From floor of hut
	1.IX.1913		Either Kasindi (00.03 N, 29.41 E), or (01.39 S, 28.05 E), Zaire
	Rec'd from F. Harker		1.IX.1913
			Rec'd from F. Harker
			Probably <u>O. moubata porcinus</u>
N	2477, a	N	2477, a
	(2477) <u>Rhipicephalus appendiculatus</u>	RML	111285
	(a) <u>Amblyomma variegatum</u> ♂		(2477) 1 ♂, 2 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	Cow		(a) 1 ♂ <u>Amblyomma variegatum</u>
	Kasindi, Belgian Congo		Cow
	1.IX.1913		Either Kasindi (00.03 N, 29.41 E), or (01.39 S, 28.05 E), Zaire
	Rec'd from F. Harker		1.IX.1913
			Rec'd from F. Harker
N	2478	N	2478
	<u>Amblyomma paulopunctatum</u> ♀'s	RML	111286
	Monitor lizard (Local name "Mbambi")		3 ♀ <u>Amblyomma paulopunctatum</u>
	San Salvador, Portuguese Congo, Central Africa		<u>Varanus</u> sp.
	IX.1913		São Salvador do Congo (06.16 S, 14.15 E), Angola
	Rec'd from Dr. Mercier Gamble, 20.X.1913		IX.1913
	L.E.R. det. III.1914		Rec'd from Dr. Mercier Gamble, 20.X.1913

ORIGINAL DETERMINATIONCURRENT STATUS

N 2479

Amblyomma cajennense ♂, ♀

Off ?

Jamaica, West Indies

1913

Rec'd from Colonel A. Alcock,
F.R.S., London, 22.X.1913

N 2479

RML 111287

3 ♂, 2 ♀ Amblyomma cajennense

Off ?

Jamaica, West Indies

1913

N 2480

Ixodes rarus nymph

Man's arm

Chercher Mts. (8,000 ft.) near
Harar, Abyssinia, E. Africa

XII.1912

Mr. Armbruster

Rec'd from Dr. G. Wherry
(Cambridge) 25.X.1913

N 2480

RML 111288

1 N Ixodes sp.Homo sapiensChercher Mts. (08.55 N, 40.35 E),
near Harar, Ethiopia (2438 m)

XII.1912

Mr. Armbruster

Rec'd from Dr. G. Wherry
(Cambridge) 25.X.1913

Cited: Nuttall (1916: 331).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2481

N 2481

RML 111289

Rhipicephalus simus ♂'s, ♀'s, N's9 ♂, 5 ♀, 38 N Rhipicephalus simpsoni

Cane rat

Thryonomys sp.Mwengwa, Mumbwa, N. Rhodesia,
B. C. Africa

Mwengwa (15.17 S, 25.59 E), Zambia

VIII.1913

VIII.1913

Rec'd from L. C. Heath, Esq.,
28.X.1913Rec'd from L. C. Heath, Esq.,
28.X.1913

[Small & not characteristic]

Twenty-six tubes of ticks received from Dr. John Y. Wood, Kaballa, Koinadugu District, Sierra Leone Protectorate, West Africa, 14 October 1913:-

N 2482, a-c

N 2482a, c

RML 111290

(2482) Rhipicephalus sanguineus
♂'s, ♀'s

(2482) MISSING

(a) Rhipicephalus lunulatus ♂(a) 1 ♂ Rhipicephalus lunulatus(b) Haemaphysalis leachi 1 ♀

(b) MISSING

(c) Boophilus australis(c) 1 ♀ Boophilus geigy

Sheep

Sheep

Kasukura, Sierra Leone

Kasukura, Sierra Leone (locality
not verified)

8.IX.1913

8.IX.1913

Rec'd from Dr. J. Y. Wood

Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2483, a	N	2483, a
		RML	111291
	(2483) <u>Dermacentor circumguttatus</u> 4 ♂'s, 1 ♀		(2483) 4 ♂, 1 ♀ <u>Dermacentor circumguttatus</u>
	(a) <u>Amblyomma tholloni</u> ♂'s, ♀'s		(a) 8 ♂, 8 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Ferenkia, Sierra Leone		Ferenkia, Sierra Leone (locality not verified)
	31.VII.1913		31.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
			(2483a) cited: Robinson (1926: 252).
N	2484, a	N	2484, a
		RML	111292
	(2484) <u>Boophilus australis</u> ♀'s		(2484) 26 ♀, 1 N <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus lunulatus</u> ♂'s		(a) 1 ♂ <u>Rhipicephalus lunulatus</u>
			(a) 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Kondambia, Sierra Leone		Either Kondambia (09.09 N, 11.13 W), or (09.23 N, 11.34 N), Sierra Leone
	12.IX.1913		12.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2485, a, b	N	2485, b
	(2485) <u>Boophilus australis</u> ♀'s (a) <u>Amblyomma variegatum</u> ♂ (b) <u>Rhipicephalus lunulatus</u> ♀	RML	111293 (2485) 13 ♀ <u>Boophilus geigy</u> (a) MISSING (b) 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Alakalia, Sierra Leone		Alakalia (09.10 N, 11.24 W), Sierra Leone
	22.VIII.1913		22.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2486, a	N	2486a
	(2486) <u>Haemaphysalis leachi</u> 1 ♂, 3 ♀ (a) <u>Rhipicephalus sanguineus</u> ♂, ♀'s, N	RML	111294 (2486) MISSING (a) 2 ♂, 11 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Fulamanca, Sierra Leone		Fulamanca, Sierra Leone (locality not verified)
	28.VII.1913		28.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2487	N	2487
	<u>Rhipicephalus lunulatus</u> ♂	RML	111295 1 ♂ <u>Rhipicephalus lunulatus</u>
	Man		<u>Homo sapiens</u>
	Kamasiki, Sierra Leone		Either Kamasiki (09.10 N, 11.46 W) or (09.20 N, 11.55 W), Sierra Leone
	9.IX.1913		9.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2488, a, b	N	2488, a
		RML	111296
	(2488) <u>Rhipicephalus sanguineus</u> ♀'s & N's		(2488) 1 ♀, 3 N <u>Rhipicephalus sanguineus</u>
	(a) <u>Amblyomma variegatum</u> ♂'s		(a) 3 ♂ <u>Amblyomma variegatum</u>
	(b) <u>Haemaphysalis leachi</u> 1 ♂		(b) MISSING
	Cattle		Cattle
	MananeoIn, Sierra Leone		MananeoIn, Sierra Leone (locality not verified)
	2.VIII.1913		2.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2489	N	2489
		RML	105676
	<u>Rhipicephalus sanguineus</u> ♂'s		8 ♂, 17 ♀ <u>Rhipicephalus sanguineus</u> 1 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Kamasiki, Sierra Leone		Either Kamasiki (09.10 N, 11.46 W), or (09.20 N, 11.55 W), Sierra Leone
	9.IX.1913		9.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2490, a, b	N	2490a, b
		RML	111297
	(2490) <u>Haemaphysalis leachi</u> ♀		(2490) MISSING
	(a) <u>Rhipicephalus sanguineus</u> ♀		(a) 1 ♀ <u>Rhipicephalus sanguineus</u>
	(b) <u>Boophilus australis</u> ♀		(b) 1 ♀ <u>Boophilus geigy</u>
	Dog		Dog
	Gahnia, Sierra Leone		Gahnia, Sierra Leone (location not verified)
	25.VII.1913		25.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2491	N	2491
		RML	111298
	<u>Boophilus australis</u> ♀'s		32 ♀ <u>Boophilus geigy</u>
	Sheep		Sheep
	Katumbo, Sierra Leone		Possibly Katumpu (09.30 N, 11.54 W), Sierra Leone
	5.IX.1913		5.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
			The vial label for this collection incorrectly bears the collection data for N 2492
N	2492, a, b	N	2492, b
		RML	111299
	(2492) <u>Boophilus australis</u>		(2492) 3 ♀ <u>Boophilus geigy</u>
	(a) <u>Haemaphysalis leachi</u> ♀'s		(a) MISSING
	(b) <u>Rhipicephalus lunulatus</u> ♀		(b) 1 ♀ <u>Rhipicephalus lunulatus</u>
	Dog		Dog
	Gaenikora, Sierra Leone		Gaenikora, Sierra Leone (locality not verified)
	19.VII.1913		19.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2493, a, b	N	2493, b
		RML	111300
	(2493) <u>Boophilus australis</u> ♀'s		(2493) 1 ♂, 6 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(a) MISSING
	(b) <u>Rhipicephalus falcatus</u> ♂'s		(b) 2 ♂ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Ferenkia, Sierra Leone		Ferenkia, Sierra Leone (locality not verified)
	31.VII.1913		31.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2494, a, b	N	2494a, b
		RML	111301
	(2494) <u>Amblyomma variegatum</u> ♂'s, ♀		(2494) MISSING
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 10 ♂, 9 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Boophilus australis</u> ♀'s		(b) 26 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Farandugu, Sierra Leone		Farandugu (09.29 N, 11.27 W), Sierra Leone
	17.VIII.1913		17.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2495, a	N	2495, a
		RML	111302
	(2495) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(2495) 5 ♂, 7 ♀ <u>Rhipicephalus senegalensis</u>
	(a) <u>Rhipicephalus lunulatus</u> ♀'s		(a) 3 ♀ <u>Rhipicephalus lunulatus</u>
	Cattle		Cattle
	Kumala, Sierra Leone		Kumala (09.04 N, 11.24 W), Sierra Leone
	25.VIII.1913		25.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2496, a	N	2496
		RML	111303
	(2496) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's		(2496) 43 ♂, 60 ♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Haemaphysalis leachi</u> ♂'s, ♀'s		(a) MISSING
	Dogs		Dogs
	Yiben, Sierra Leone		Yiben (09.19 N, 11.42 W), Sierra Leone
	11.IX.1913		11.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2497, a-c	N	2497, b
		RML	111304
	(2497) <u>Boophilus australis</u> ♀'s		(2497) 36 ♀ <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		(a) MISSING
	(b) <u>Rhipicephalus falcatus</u> 2 ♂		(b) 2 ♂ <u>Rhipicephalus senegalensis</u>
	(c) <u>Amblyomma variegatum</u> 2 ♀		(c) MISSING
	Cattle		Cattle
	Kulakunko, Sierra Leone		Kulakunk ^o , Sierra Leone (locality not verified)
	24.VIII.1913		24.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2498	N	2498
		RML	111305
	<u>Rhipicephalus falcatus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Konkola, Sierra Leone		Perhaps Konkolia (09.01 N, 10.39 W), Sierra Leone
	15.VIII.1913		15.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2499, a, b	N	2499
		RML	111306
	(2499) <u>Boophilus australis</u> ♀'s		(2499) 10 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> ♂'s		(a) MISSING
	(b) <u>Haemaphysalis leachi</u> ♂, ♀		(b) MISSING
	Cattle		Cattle
	Kakonta, Sierra Leone		Kakonta (09.06 N, 11.43 W), Sierra Leone
	6.IX.1913		6.IX.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2500, a	N	2500a
		RML	111307
	(2500) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(2500) MISSING
	(a) <u>Boophilus australis</u> ♀'s		(a) 4 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Sengunua, Sierra Leone		Sinkunia (09.52 N, 11.26 W), Sierra Leone
	1.VIII.1913		1.VIII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2501, a	N	2501
		RML	111308
	(2501) <u>Boophilus australis</u> ♀'s		(2501) 45 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(2501) 2 ♀ <u>Rhipicephalus lunulatus</u>
			(a) MISSING
	Cattle		Cattle
	Bangka, Sierra Leone		Probably Banka, Sierra Leone (locality not verified; 4 possible localities)
	25.VII.1913		25.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2502, a	N	2502
	(2502) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s	RML	111309
	(a) <u>Haemaphysalis leachi</u> ♂, ♀'s		(2502) 28 ♂, 25 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		(a) MISSING
	Kasukura, Sierra Leone		Dogs
	9.IX.1913		Kasukura, Sierra Leone (locality not verified)
	Rec'd from Dr. J. Y. Wood		9.IX.1913
			Rec'd from Dr. J. Y. Wood
N	2503, a	N	2503, a
	(2503) <u>Amblyomma variegatum</u> ♂'s, ♀'s	RML	111310
	(a) <u>Boophilus australis</u> ♀'s		(2503) 4 ♂, 2 ♀ <u>Amblyomma variegatum</u>
	Cattle		(a) 3 ♀ <u>Boophilus geigy</u>
	Falaka, Sierra Leone		Cattle
	24.IX.1913		Falaka, Sierra Leone (locality not verified)
	Rec'd from Dr. J. Y. Wood		24.IX.1913
			Rec'd from Dr. J. Y. Wood
N	2504, a	N	2504
	(2504) <u>Boophilus australis</u> ♀	RML	111311
	(a) <u>Amblyomma variegatum</u> 2 ♂		(2504) 55 ♀ <u>Boophilus geigy</u>
	Cattle		(a) MISSING
	Katumbo, Sierra Leone		Cattle
	2.IX.1913		Possibly Katumpu (09.30 N, 11.54 W), Sierra Leone
	Rec'd from Dr. J. Y. Wood		2.IX.1913
			Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 2505, a-c

- (2505) Boophilus australis ♀'s
 (a) Amblyomma variegatum ♂'s, ♀'s
 (b) Amblyomma splendidum ♂'s
 (c) Rhipicephalus falcatus ♂, ♀

Cattle

Firawa, Sierra Leone

19.VIII.1913

Rec'd from Dr. J. Y. Wood

N 2505, b, c

RML 111312

- (2505) 4 ♂, 170 ♀ Boophilus geigy
 (a) MISSING
 (b) 4 ♂ Amblyomma splendidum
 (c) 2 ♂, 2 ♀ Rhipicephalus senegalensis

Cattle

Either Firawa (09.21 N, 11.18 W) or
(09.31 N, 10.51 W), Sierra Leone

19.VIII.1913

Rec'd from Dr. J. Y. Wood

(2505b) cited: Robinson (1926: 125).

N 2506, a-c

- (2506) Boophilus australis 1 ♂, ♀'s
 (a) Amblyomma variegatum ♂'s, ♀'s
 (b) Amblyomma splendidum 1 ♂
 (c) Rhipicephalus falcatus 2 ♀

Cattle

Kabunga, Sierra Leone

3.IX.1913

Rec'd from Dr. J. Y. Wood

(2506a) 1 ♂, 1 ♀ to Dr. de Blicck,
 Java, 22.I.1915

N 2506, b, c

RML 111313

- (2506) 1 ♂, 126 ♀ Boophilus geigy
 (a) MISSING
 (b) 1 ♂ Amblyomma splendidum
 (c) 2 ♀ Rhipicephalus senegalensis

Cattle

Kabunga (09.29 N, 11.43 W),
Sierra Leone

3.IX.1913

Rec'd from Dr. J. Y. Wood

(2506b) cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2507	N	2507
		RML	111314
	<u>Amblyomma tholloni</u> ♂'s, ♀'s (many)		23 ♂, 62 ♀, 1 N <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Kalakunko, Sierra Leone		Kalakunko, Sierra Leone (locality not verified)
	22.VII.1913		22.VII.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
			Cited: Robinson (1926: 252).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2508	N	2508
		RML	111315
	<u>Haemaphysalis</u> sp. N		1 N <u>Haemaphysalis</u> sp.
	Green lizard (<u>Lacerta ocellata</u>)		<u>Lacerta lepida</u>
	El Kantara, S. Algeria, North Africa		El Kantara (35.13 N, 05.43 E), Algeria
	15.IV.1913		15.IV.1913
	P. A. Buxton		P. A. Buxton
N	2509	N	2509
		RML	111316
	<u>Ixodes tenuirostris</u> 1 L		1 L <u>Ixodes trianguliceps</u>
	Ear of <u>Microtus arvensis</u>		Ear of <u>Microtus agrestis</u>
	Barton, Cambs, England		Barton (51.59 N, 01.37 W), England
	20.X.1913		20.X.1913
	P. A. Buxton		P. A. Buxton
	(Received from P. A. Buxton, Esq., Trinity College, Cambridge, 3.XI.1913.)		Cited: Nuttall (1916: 334); Thompson (1968: 148).

Collection of ticks received for determination from Dr. C.H.T. Townsend, Director de Estaciones Entomologicas, Direccion de Aguas y Agricultura, Casilla de Correo 1237, Lima, Peru, S. America 22 October 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2510	N	2510
		RML	111317
	<u>Boophilus annulatus</u> ♂'s, ♀'s		1 ♂, 12 ♀ <u>Boophilus annulatus</u>
	Horse		Horse
	Chosica, Peru		Chosica (11.54 S, 76.42 W), Peru
	22.I.1913		22.I.1913
	Rec'd. from C.H.T. Townsend		Rec'd. from C.H.T. Townsend
	Townsend No. A.2157		See comment under N 1830.
			Charles Henry Tyler Townsend (1863-1944), well known Entomologist and author of more than 1000 articles including the "Manual of Myiology" in 12 parts, 3760 pages.
N	2511	N	2511
		RML	111318
	<u>Boophilus annulatus</u> ♀'s		7 ♀ <u>Boophilus annulatus</u>
	Cattle		Cattle
	Santa Ana, Salvador		Santa Ana, Salvador, Peru (locality not verified)
	25.XI.1912		25.XI.1912
	Rec'd. from C.H.T. Townsend		Rec'd. from C.H.T. Townsend
	Townsend No. A.2157		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2512	N	2512
		RML	105773
	<u>Ornithodoros furcosus</u>		4 ♂, 10 ♀, 15 N <u>Ornithodoros furcosus</u>
	"in walls of mud houses"		"in walls of mud houses"
	Chachapoyas, Amazonas		Chachapoyas (06.13 S, 77.51 W), Peru
	1913		1913
	Rec'd. from C.H.T. Townsend		Rec'd. from C.H.T. Townsend
	Townsend No. A.3157		
	C. W. det. 1917		
N	2513	N	2513
		RML	111319
	<u>Ixodes nuttalli</u> N		1 N <u>Ixodes nuttalli</u>
	"Vizcacha"		<u>Lagidium peruanum</u>
	Ninahuanchi, Peru		Ninahuanchi, Peru (locality not verified)
	1.II.1913		1.II.1913
	Rec'd. from C.H.T. Townsend		Rec'd. from C.H.T. Townsend
	Townsend No. A.3158		Cited: Nuttall (1916: 311).
	[mounted by me on a slide]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2514	N	2514
	<u>Ixodes nuttalli</u> L & N's	RML	111320
	"Vizcacha"		2 N, 19 L <u>Ixodes nuttalli</u>
	Ninahuanchi, Peru		<u>Lagidium peruanum</u>
	1.II.1913		Ninahuanchi, Peru (locality not verified)
	Rec'd. from C.H.T. Townsend		1.II.1913
	Townsend No. A.3158		Rec'd. from C.H.T. Townsend
			Cited and figured: Nuttall (1916: 310).
N	2515	2515	MISSING
	<u>Ixodes nuttalli</u> 1 L		
	"Vizcacha"		
	Ninahuanchi, Peru		
	14.V.1913		
	Rec'd. from C.H.T. Townsend		
	Townsend No. A.3158		
	[Height above Mt. Suico 8,000 ft.]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2516	N	2516
		RML	105653
	<u>Argas persicus</u> larvae		7 L <u>Argas</u> sp. nr. <u>dalei</u>
	"Goat-suckers"		"Goat-suckers"
	Mouth of Santa Eulalia Valley, Peru		Santa Eulalia (15.28 S, 74.42 W), Peru
	1.II.1913		1.II.1913
	Rec'd. from C.H.T. Townsend		Rec'd. from C.H.T. Townsend
	Townsend No. A.4157 (Like our African 1574, C. W. det. 1917)		2 larvae mounted on slides and retained at RML. These specimens are similar to <u>A. dalei</u> except for tarsal setae counts.
N	2517	N	2517
		RML	111321
	<u>Ixodes nuttalli</u> ♂, ♀'s		1 ♂, 2 ♀ <u>Ixodes nuttalli</u>
	"Vizcacha"		<u>Lagidium peruanum</u>
	Ninahuanchi, Peru		Ninahuanchi, Peru (locality not verified)
	1.II.1913		1.II.1913
	Rec'd. from C.H.T. Townsend		Rec'd. from C.H.T. Townsend
	Townsend No. A.5157		Cited and figured: Nuttall (1916: 308, 309, 311).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2518	N	2518
		RML	111322
	<u>Ixodes auritulus</u> 1 ♀		1 ♀ <u>Ixodes auritulus</u>
	Head of "thrush"		Head of "thrush"
	Oroya, Peru (12,000 ft.)		Oroya, Peru (3658 m) (locality not verified; 3 possible localities)
	7.III.1913		7.III.1913
	Rec'd. from C.H.T. Townsend		Rec'd. from C.H.T. Townsend
	Townsend No. A.6158		Cited: Nuttall (1916: 314).
N	2519	N	2519
		RML	111323
	<u>Ixodes</u> sp. N's & L		11 N, 38 L <u>Ixodes</u> sp.
	Rat		Rat
	Pachacayo, Peru (12,000 ft.)		Pachacayo (11.46 S, 75.44 W), Peru (3658 m)
	27.III.1913		27.III.1913
	Rec'd. from C.H.T. Townsend		Rec'd. from C.H.T. Townsend
	Townsend No. A.7517		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2520	N	2520
		RML	111324
	<u>Ixodes auritulus</u> 1 ♀, 3 N		1 ♀, 2 N <u>Ixodes auritulus</u>
	Pipit		Pipit
	Junin, Peru (14,000 ft.)		Junin (11.10 S, 76.00 W), Peru (4267 m)
	19.III.1913		19.III.1913
	Rec'd from C.H.T. Townsend		Rec'd from C.H.T. Townsend
	Townsend No. A.7518		Cited: Nuttall (1916: 314). Arthur (1960a: 204) cited the locality as Lunin, Peru.
N	2521	N	2521
		RML	111325
	<u>Argas</u> sp. L		24 L <u>Ornithodoros</u> sp.
	<u>Athlene</u> sp.		<u>Athene</u> sp.
	Chosica, Canyon, Peru (3,500 ft.)		Chosica (11.54 S, 76.42 W), Peru (1067 m)
	30.IV.1913		30.IV.1913
	Rec'd from C.H.T. Townsend		Rec'd from C.H.T. Townsend
	Townsend No. A.8157		Cited: Townsend (1913: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2522	N	2522
	<u>Ornithodoros talaje</u> 1 adult & N's	RML	111326
	Sea-birds		1 ♂, 1 ♀, 15 N <u>Ornithodoros amblyus</u>
	Guano Islands, Peru		Sea-birds
	IV.1913		Islas de Chincha (13.38 S, 76.25 W), Peru
	Rec'd. from C.H.T. Townsend		IV.1913
	Townsend No. A.8158		Rec'd. from C.H.T. Townsend
N	2523	N	2523 MISSING
	<u>Argas</u> sp. L		
	Sea-birds		
	Ancon, Peru		
	12.V.1913		
	Rec'd. from C.H.T. Townsend		
	Townsend No. A.9157		

Ticks received from Dr. Donald W. Carr, Ispahan, Persia, who presented them in person on 10 November, 1913. [Home address: Holbrook Hall, Derby.]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2524	N	2524
		RML	111327
	<u>Ornithodoros lahorensis</u>		4 ♂, 13 ♀ <u>Ornithodoros lahorensis</u>
	From "mud walls of sheep pens"		From "mud walls of sheep pens"
	Ispahan, Persia		Esfahan (32.00 N, 57.30 E), Iran
	IX.1913		IX.1913
	Rec'd. from Dr. Donald W. Carr		Rec'd. from Dr. Donald W. Carr
	Some (sex/stage not stated) to Dr. Adler, Hebrew University, Jerusalem 22.IV.1925.		
N	2525	N	2525
		RML	111328
	<u>Ornithodoros lahorensis</u>		1 ♂, 6 ♀, 24 N <u>Ornithodoros lahorensis</u>
	Sheep and Goats		Sheep and Goats
	Ispahan, Persia		Esfahan (32.00 N, 57.30 E), Iran
	IX.1913		IX.1913
	Rec'd. from Dr. Donald W. Carr		Rec'd. from Dr. Donald W. Carr
N	2526	N	2526
		RML	105706
	<u>Argas persicus</u>		2 ♂, 2 ♀ <u>Argas persicus</u> 2 ♀ <u>Argas hermanni</u>
	Off ?		Off ?
	Ispahan, Persia		Esfahan (32.00 N, 57.30 E), Iran
	5.XII.1910		5.XII.1910
	Rec'd. from Dr. Donald W. Carr		Rec'd. from Dr. Donald W. Carr

ORIGINAL DETERMINATIONCURRENT STATUS

N 2527

N 2527

Dermacentor niveus 1 ♂, 1 ♀1 ♂, 1 ♀ Dermacentor niveus"Coney" (Ochotona rufescens)Ochotona rufescens

Soh, near Ispahan, Persia

Soh (33.26 N, 51.27 E), Iran

VIII.1913

VIII.1913

Rec'd. from Dr. Donald W. Carr

Rec'd. from Dr. Donald W. Carr

Note re 2527. Reexamined 14.VII.1921, we think it a poorly characterized niveus, small possibly underdeveloped. See Neumann's letter of 9.I.1914. [Note: Soh is a small village about 60 miles from Ispahan & is situated at an altitude of 8,000 ft. "Coney" is a small rodent 6-8 inches in length; has no tail; fur brown; & lives in holes amongst stones (usually) under ground.]

N 2528

N 2528

Ixodes canisuga 2 N's2 N Ixodes sp.

Badger

Meles meles

Ispahan, Persia

Esfahan (32.00 N, 57.30 E), Iran

IV.1913

IV.1913

Rec'd. from Dr. Donald W. Carr

Rec'd. from Dr. Donald W. Carr

Cited: Nuttall (1916: 327).

Eight tubes of ticks received from Colonel E.R.C. Butler, A.V.C. Ootacamund, Madras, India, 10 November, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2529, a-c	N	2529a-c
		RML	111331
	(2529) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(2529) MISSING
	(a) <u>Boophilus australis</u> ♂, ♀, N		(a) 1 ♂, 3 ♀, 3 N <u>Boophilus microplus</u>
	(b) <u>Haemaphysalis bispinosa</u> ♂, ♀		(b) 1 ♂, 1 ♀ <u>Haemaphysalis bispinosa</u>
	(c) <u>Rhipicephalus haemaphysaloides</u> ♂, ♀'s		(c) 1 ♂, 4 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Bullocks		Bullocks
	Poona, India		Poona (18.32 N, 73.52 E), India
	X.1913		X.1913
	Major Eassie		Major Eassie
			(2529b) cited: Nuttall & Warburton (1915: 432).
N	2530, a	N	2530
		RML	111332
	(2530) <u>Boophilus australis</u> ♀, N's		(2530) 2 ♀, 1 N <u>Boophilus microplus</u>
	(a) <u>Hyalomma aegyptium</u> ♂		(a) MISSING
	Buffalo		Buffalo
	Poona, India		Poona (18.32 N, 73.52 E), India
	X.1913		X.1913
	Major Eassie		Major Eassie
N	2531	N	2531 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Poona, India		
	X.1913		
	Major Eassie		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2532	N	2532
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s	RML	111333
	Horse		4 ♂, 11 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Hyderabad-Sind, India		Horse
	X.1913		Hyderabad (17.23 N, 78.28 E), India
	Lt. E. G. Turner		X.1913
			Lt. E. G. Turner
N	2533	N	2533 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dog		
	Hyderabad-Sind, India		
	X.1913		
	Lt. E. G. Turner		
N	2534	N	2534 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Bullock & Horse		
	Hyderabad-Sind, India		
	X.1913		
	Lt. E. G. Turner		
N	2535	N	2535 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dogs		
	Trimulgherry, Deccan, India		
	X.1913		
	Capt. A. J. Williams		
	Given to D. S. MacLagan 14/10/38		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2536	N	2536
		RML	111334
	<u>Hyalomma aegyptium</u> ♂'s		2 ♂ <u>Hyalomma marginatum isaaci</u>
	Horses		Horses
	Trimulgherry, India		Trimulgherry (17.28 N, 78.30 E), India
	X.1913		X.1913
	Capt. A. J. Williams		Capt. A. J. Williams
			One of these males is partially deformed.

Four tubes of ticks received from L. C. Heath, Esq., Mwendwa, Mumbwa,
N. Rhodesia, B. C. Africa, 11 November 1913:-

N	2537	N	2537
		RML	111335
	<u>Rhipicephalus simus</u> ♂'s, ♀'s, N's & L		5 ♂, 1 ♀, 15 N <u>Rhipicephalus simpsoni</u>
	Cane rats		<u>Thryonomys</u> sp.
	Yongwe River, Mwendwa District, N. Rhodesia		Yongwe River (14.03 S, 28.57 E), Zambia
	17.IX.1913		17.IX.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath

ORIGINAL DETERMINATIONCURRENT STATUS

N	2538, a	N	2538, a
		RML	111336
	(2538) <u>Boophilus</u> sp. N's		(2538) 9 N <u>Boophilus</u> sp.
	(a) <u>Rhipicephalus capensis</u> 1 ♂		(a) 1 ♂ <u>Rhipicephalus pravus</u>
	Sable antelope		<u>Hippotragus niger</u>
	Near Kampengele's, Mwingwa District, N. Rhodesia		Near Kampengele (15.10 S, 26.29 E), Zambia
	18.IX.1913		18.IX.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
N	2539, a	N	2539, a
		RML	111337
	(2539) <u>Boophilus decoloratus</u> 1 ♀		(2539) 1 ♀ <u>Boophilus decoloratus</u>
	(a) <u>Rhipicephalus</u> sp. 1 N		(a) 1 N <u>Rhipicephalus</u> sp.
	(with beady eyes)		
	Impala		<u>Aepyceros melampus</u>
	Balumbwa, N. Rhodesia		Balumbwa (15.25 S, 26.24 E), Zambia
	23.IX.1913		23.IX.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
N	2540	N	2540
		RML	111338
	<u>Rhipicephalus evertsi</u> N's		20 N <u>Rhipicephalus evertsi</u>
	Reed-buck		<u>Redunca arundinum</u>
	Balumbwa, N. Rhodesia		Balumbwa (15.25 S, 26.24 E), Zambia
	23.IX.1913		23.IX.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath

Ticks received from Captain Ronald E. Todd, R.A.M.C., Public Health Department, Asyut, 17 November 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2541	N	2541
		RML	111339
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		3 ♂, 9 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Minia, Upper Egypt		E1 Minya (28.06 N, 30.45 E), Egypt
	15.II.1913		15.II.1913
	H. Mason		H. Mason
N	2542	N	2542 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Bulls		
	Maghagha, Upper Egypt		
	5.II.1913		
	H. Mason		
N	2543	N	2543
		RML	111340
	<u>Boophilus australis</u> ♀'s		49 ♀ <u>Boophilus annulatus</u>
	Bulls		Bulls
	Maghagha, Upper Egypt		Maghaghah (28.39 N, 30.50 E), Egypt
	5.II.1913		5.II.1913
	H. Mason		H. Mason

Ticks received from Professor A. Berlese, R. Stazione di Entomologia Agraria,
Via Romana N.19, Firenze, Italy, 17 November, 1913:-

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	2544, a, b	N	2544, a, b
		RML	111341
	(2544) <u>Rhipicephalus bursa</u> nymphs		(2544) 565 N <u>Rhipicephalus bursa</u>
	(a) <u>Ixodes ricinus</u> 1 ♂, ♀'s		(a) 17 ♀ <u>Ixodes ricinus</u>
	(b) <u>Haemaphysalis punctata</u> 1 ♂, ♀'s		(b) 1 ♂, 37 ♀, 1 N <u>Haemaphysalis punctata</u>
	Off ? (probably sheep or cattle)		Off ? (probably sheep or cattle)
	Coscana, Maremma, Tuscany, Italy		Coscana, Maremma Region (42.30 N, 11.30 E), Italy
	XI.1913		XI.1913
	A. Berlese		A. Berlese
	(2544a) 1 ♀ to J. de Meza Zomba, Nyasaland 19.II.1916 ♀'s to Prof. Wheeler, Boston, Mass. 20.II.1915. 2 ♀ to Prof. E. Malvoz, Liège 30.V.1929. 2 ♀ to E. T. Boardman, Univ. Florida, Gainesville 30.V.1929.		Antonio Berlese (1863-1927) Expert on Mesostigmata, an excellent scientific artist and one of the fathers of Acarology.
			(2544b) label in vial "4 specimens given to E. B. Britten 27.XI.1959." (2544a) cited: Nuttall (1916: 333). (2544b) cited: Nuttall & Warburton (1915: 386).
N	2545	N	2545 MISSING
	<u>Rhipicephalus bursa</u> nymphs (alive)		
	Off ? (probably sheep or cattle)		
	Coscana, Maremma, Tuscany, Italy		
	XI.1913		
	A. Berlese		
	[No. 2545 used for raising experiments.]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2546	N	2546
		RML	111342
	<u>Ixodes brunneus</u> 1 ♀ (alive)		1 ♀ <u>Ixodes frontalis</u>
	Wagtail (<u>Motacilla lugubris</u>)		<u>Motacilla alba yarrellii</u>
	Near Pulborough, Sussex, England		Near Pulborough (50.57 N, 00.31 W), England
	20.XI.1913		20.XI.1913
	S. Baxter		S. Baxter
	Rec'd. from Dr. A.F.R. Wollaston (London, S.W.), 25.XI.1913 [Used for raising experiments]		Cited: Nuttall (1916: 325); Arthur (1952: 153); Arthur (1963: 118).
<p>Ticks received from C. A. de F. Roofe, Mountcoombe, Surrey, 27.XI.1913, stating that he had just returned from N. Nigeria. (The covering letter was addressed to G. Merriman, Quick Laboratory, "if left, please hand to Professor Nuttall"):-</p>			
N	2547, a, b	N	2547a, b
		RML	111343
	(2547) <u>Rhipicephalus sanguineus</u> 1 ♀		(2547) MISSING
	(a) <u>Rhipicephalus simus</u> ♀		(a) 1 ♀ <u>Rhipicephalus simus</u>
	(b) <u>Boophilus</u> sp. nymph		(b) 1 ♂ <u>Boophilus geigy</u>
	Bull terrier pup		Dog
	Gurum Camp (about 4 miles north of Naraguta), Banchi Province, N. Nigeria		Gurum (10.02 N, 08.50 E) (about 6.6 km N of Naraguta Hausawa), Benue Plateau, Nigeria
	19.IX.1913		19.IX.1913
	Rec'd. from C. A. de F. Roofe (with fleas)		Rec'd. from C. A. de F. Roofe

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2548	N	2548
		RML	111344
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		11 ♂, 3 ♀ <u>Rhipicephalus</u> <u>carnivoralis</u>
	Old leopard		<u>Panthera</u> <u>pardus</u>
	Buji (about 10 miles north of Naraguta), Banchi Province, N. Nigeria		Buji (10.07 N, 08.50 E), (about 16 km N of Naraguta Hausawa), Benue Plateau, Nigeria
	16.I.1913		16.I.1913
	Rec'd. from C. A. de F. Roofe		Rec'd. from C. A. de F. Roofe
	[Ticks found chiefly attached round ears and chest.]		
N	2549	N	2549 MISSING
	<u>Amblyomma</u> <u>variegatum</u> ♀'s		
	(Hausa) Ram		
	Hephham (about 19 miles S.W. of Jos), N. Nigeria		
	10.VI.1913		
	Rec'd. from C. A. de F. Roofe		
	[Tick on neck and breast]		
N	2550	N	2550 MISSING
	<u>Amblyomma</u> <u>variegatum</u> 1 ♂		
	Pagan Bitch		
	Hephham (about 19 miles S.W. of Jos), N. Nigeria		
	20.VI.1913		
	Rec'd. from C. A. de F. Roofe		
	[Ticks found between toes)		
	N. B. Mr. Roofe writes "This Pagan dog was the ordinary pie dog found in most bush villages."		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2551

Amblyomma variegatum 1 ♂

Beagle pup

Hephem N. Nigeria

28.VI.1913

Rec'd from C. A. de F. Roofe

[Tick found on hind leg.]

Four tubes of ticks received from W. H. J. van Heemstra, Oglan-Anassi,
Djumowassi, Smyrna, Asiatic Turkey, 29 November 1913:-

N 2552, a, b,

(2552) Hyalomma aegyptium ♂'s, ♀'s
(a) Boophilus annulatus ♂'s, ♀'s
(b) Haemaphysalis punctata ♀'s

Horses and Cattle

Smyrna, Turkey

XI.1913

Rec'd from W. H. J. van Heemstra

N 2552, 2552b

RML 111345

(2552) 2 ♂, 3 ♀ Hyalomma anatolicum
excavatum
(a) MISSING
(b) 2 ♀ Haemaphysalis punctata

Horses and Cattle

Izmir (38.25 N, 27.09 E), Turkey

XI.1913

Rec'd from W. H. J. van Heemstra

(2552b) incorrectly cited as
2552a by Nuttall & Warburton
(1915: 387).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
Ni	2553, a, b	N	2553, a, b
		RML	111346
	(2553) <u>Ixodes ricinus</u> var <u>gibbosus</u> 5 ♂, 6 ♀		(2553) 5 ♂, 6 ♀ <u>Ixodes gibbosus</u> Lectotype and paralectotypes
	(a) <u>Haemaphysalis punctata</u> ♂'s, ♀'s		(a) 2 ♂, 6 ♀ <u>Haemaphysalis punctata</u>
	(b) <u>Hyalomma aegyptium</u> ♂, ♀		(b) 1 ♀ <u>Hyalomma marginatum</u>
	Goats		Goats
	Smyrna, Turkey		Izmir (38.25 N, 27.09 E), Turkey
	XI.1913		XI.1913
	Rec'd from W.H.J. van Heemstra		Rec'd from W.H.J. van Heemstra
	(2553) Types		Nuttall (1916: 300) original description of <u>I. ricinus gibbosus</u> (2553a) cited: Nuttall & Warburton (1915: 387). Lectotype designated: Keirans & Brewster (1981: 168).
N	2554	N	2554
		RML	111347
	<u>Haemaphysalis punctata</u> ♂, ♀'s		1 ♂, 2 ♀ <u>Haemaphysalis punctata</u>
	Sheep		Sheep
	Smyrna, Turkey		Izmir (38.25 N, 27.09 E), Turkey
	XI.1913		XI.1913
	Rec'd from W.H.J. van Heemstra		Rec'd from W.H.J. van Heemstra
N	2555	N	2555
		RML	111348
	<u>Hyalomma aegyptium</u> ♂, ♀		1 ♂, 1 ♀ <u>Hyalomma anatolicum</u> <u>excavatum</u>
	Camel		<u>Camelus dromedarius</u>
	Smyrna, Turkey		Izmir (38.25 N, 27.09 E), Turkey
	XI.1913		XI.1913
	Rec'd from W.H.J. van Heemstra		Rec'd from W.H.J. van Heemstra

ORIGINAL DETERMINATIONCURRENT STATUS

N 2556

N 2556 MISSING

Hyalomma aegyptium ♂'s, ♀'s

Black buck

Mhow, Central Provinces, India

11.XI.1913

Rec'd. from Major T. W. Rudd,
A.V.C. 29.XI.1913

Collection of ticks received for determination from Dr. Kudicke, Institut für Seuchenbekämpfung, Daressalam, German East Africa, 25 November 1913:-

N 2557

N 2557

RML 111349

Rhipicephalus evertsi7 ♂, 5 ♀ Rhipicephalus evertsi

Cattle

Cattle

Wilhelmstal, G. E. Africa

Lushoto (04.47 S, 38.17 E),
Tanzania

Rec'd. 25.XI.1913

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Rec'd. from Dr. Kudicke

Sixty collections from Dr. Kudicke
which Nuttall numbered "1" - "60"
spanning Nuttall numbers 2557-2616.

N 2558

N 2558 MISSING

Ornithodoros moubata

From Negro huts

Lindi, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2559	N	2559 MISSING
	<u>Ornithodoros moubata</u>		
	From rest-houses		
	Bukoba-Bezirk, German East Africa		
	Rec'd. 25.XI.1913		
	Rec'd. from Dr. Kudicke		
N	2560, a	N	2560, a
		RML	111350
	(2560) <u>Rhipicephalus evertsi</u> ♂		(2560) 6 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	(a) <u>Rhipicephalus neavei</u> 2 ♀		(a) 2 ♀ <u>Rhipicephalus kochi</u>
	Camel		<u>Camelus dromedarius</u>
	Lindi, German East Africa		Lindi (10.00 S, 39.43 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2561	N	2561
		RML	111351
	<u>Rhipicephalus evertsi</u> ♂, ♀		10 ♂, 4 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Wilhemstal, German E. Africa		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2562	N	2562
	<u>Rhipicephalus evertsi</u> ♂, ♀	RML	111352
	Cattle		9 ♂, 7 ♀ <u>Rhipicephalus evertsi</u>
	Wilhelmstal, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
N	2563	N	2563
	<u>Ornithodoros moubata</u>	RML	111353
	From Negro huts		1 ♂, 3 N <u>Ornithodoros moubata</u>
	Lindi, German E. Africa		From Negro huts
	Rec'd. 25.XI.1913		Lindi (10.00 S, 39.43 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
			Probably <u>O. moubata porcinus</u> cited as 1 ♀, 2 N by van der Merwe (1968: 286).
N	2564	N	2564
	<u>Rhipicephalus evertsi</u> ♀	RML	111354
	Cattle		1 ♀ <u>Rhipicephalus evertsi</u>
	Wilhelmstal, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N 2565

Rhipicephalus sanguineus ♂, ♀, N

Dog

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

1 ♂, 1 ♀, 1 N to J. de Meza, Zomba,
Nyasaland 19.II.1916

N 2566, a, b

(2566) Rhipicephalus neavei ♀'s
(a) Rhipicephalus evertsi ♂
(b) Rhipicephalus sanguineus ♀

Cattle

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2565

RML 111355

9 ♂, 13 ♀, 9 N Rhipicephalus sanguineus

Dog

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2566, a, b

RML 111356

(2566) 5 ♀ Rhipicephalus kochi
(a) 1 ♂ Rhipicephalus evertsi
(b) 1 ♀ Rhipicephalus sanguineus

Cattle

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

(2566b) tentative ID. Genital
aperture quite narrow.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2567, a	N	2567, a
	(2567) <u>Amblyomma variegatum</u> ♂, ♀	RML	111357
	(a) <u>Rhipicephalus neavei</u> ♀'s		(2567) 68 ♂, 26 ♀ <u>Amblyomma</u> <u>variegatum</u>
	Cattle		(a) 2 ♀ <u>Rhipicephalus appendiculatus</u>
	Bukoba-Bezirk, German E. Africa		Cattle
	28.XI.1912		Bukoba District (01.35 S, 31.30 E), Tanzania
N	2568	N	2568 MISSING
	<u>Ornithodoros moubata</u>		
	West Ussuri, Bukoba-Bezirk, German E. Africa		
	Rec'd. 25.XI.1913		
	Rec'd. from Dr. Kudicke		
N	2569	N	2569
	<u>Ornithodoros moubata</u>	RML	111358
	From Resting houses		16 ♂, 11 ♀, 16 N <u>Ornithodoros</u> <u>moubata</u>
	Bukoba-Bezirk, German E. Africa		From Resting houses
	Rec'd. 25.XI.1913		Bukoba District (01.35 S, 31.30 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
			Probably <u>O. moubata porcinus</u>

ORIGINAL DETERMINATIONCURRENT STATUS

N	2570, a-d	N	2570, a-d
		RML	66661
	(2570) <u>Rhipicephalus pulchellus</u> σ^1 's, φ^1 's		(2570) 10 σ , 7 φ <u>Rhipicephalus pulchellus</u>
	(a) <u>Hyalomma aegyptium</u> 3 σ		(a) 3 σ <u>Hyalomma rufipes</u>
	(b) <u>Rhipicephalus evertsi</u> σ , φ		(b) 3 σ , 2 φ <u>Rhipicephalus evertsi</u>
	(c) <u>Amblyomma gemma</u>		(c) 1 σ , 1 φ <u>Amblyomma gemma</u>
	(d) <u>Rhipicephalus neavei</u> φ 's		(d) 4 φ <u>Rhipicephalus pravus</u>
	Cattle		Cattle
	Lewäre-Saguta, place in Bezirk Wilhelmstal (Massai Steppe, right bank of Pangani River), Sanitätsdienststelle, Wilhelmstal, German E. Africa		Lewäre-Saguta, Lushoto District (04.40 S, 38.20 E), Tanzania
	16.V.1913		16.V.1913
	Meyer		Meyer
N	2571, a	N	2571, a
		RML	111359
	(2571) <u>Rhipicephalus evertsi</u>		(2571) 2 σ , 3 φ <u>Rhipicephalus evertsi</u>
	(a) <u>Rhipicephalus neavei</u> φ 's		(a) 2 φ <u>Rhipicephalus kochi</u>
	Goat		Goat
	Wilhelmstal, German E. Africa		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2572	N	2572 MISSING
	<u>Ornithodoros moubata</u>		
	From Negro huts		
	Lindi, German E. Africa		
	Rec'd. 25.XI.1913		
	Rec'd. from Dr. Kudicke		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2573, a, b

(2573) Rhipicephalus evertsi ♂, ♀(a) Rhipicephalus pulchellus ♂(b) Rhipicephalus neavei ♂, ♀

Goats

Lewäre-Saguta, place in Bezirk
 Wilhelmstal (Massai Steppe, right
 bank of Pangani River),
 Sanitätsdienststelle, Wilhelmstal,
 German E. Africa

17.V.1913

Meyer

N 2574

Ornithodoros moubata

From Negro huts

Lindi, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2573, a

RML 111360

(2573) 24 ♂, 8 ♀ Rhipicephalus evertsi(a) 1 ♂ Rhipicephalus pulchellus

(b) MISSING

Goats

Lewäre-Saguta, Lushoto District
 (04.40 S, 38.20 E), Tanzania

17.V.1913

Meyer

N 2574

RML 111361

1 ♂, 2 N Ornithodoros moubata

From Negro huts

Lindi (10.00 S, 39.43 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Probably O. moubata porcinus.
 Cited as 3 ♀ by van der Merwe
 (1968: 286).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2575, a

(2575) Rhipicephalus evertsi
(a) Rhipicephalus neavei ♀

Cattle

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2575, a

RML 111362

(2575) 2 ♂, 1 ♀ Rhipicephalus evertsi
(a) 1 ♀ Rhipicephalus kochi

Cattle

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2576

Rhipicephalus evertsi

Cattle

Wilhelmstal, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2576

RML 111363

5 ♂, 3 ♀ Rhipicephalus evertsi

Cattle

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2579	N	2579
		RML	111364
	<u>Rhipicephalus evertsi</u>		4 ♂, 1 ♀ <u>Rhipicephalus evertsi</u>
	Goat		Goat
	Lindi, German E. Africa		Lindi (10.00 S, 39.43 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2580	N	2580
		RML	111365
	<u>Rhipicephalus evertsi</u>		14 ♂, 3 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Wilhelmstal, German E. Africa		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2581, a, b	N	2581, a, b
		RML	111366
	(2581) <u>Rhipicephalus simus</u>		(2581) 7 ♂, 5 ♀ <u>Rhipicephalus simus</u>
	(a) <u>Rhipicephalus sanguineus</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	(b) <u>Haemaphysalis leachi</u>		(b) 1 ♀ <u>Haemaphysalis leachi</u>
	Jackals		<u>Canis adustus</u> or <u>Canis mesomelas</u>
	Kilimabindi, Ngogo, German E. Africa		Kilimatinde (05.51 S, 34.57 E), Tanzania
	14.VII.1913		14.VII.1913
	Dr. W. Bartels		Dr. W. Bartels
	(2581) 1 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916.		(2581b) cited: Nuttall & Warburton (1915: 470).
	(2581b) 1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, German E. Africa 22.IV.1914.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2582	N	2582 MISSING
	<u>Ornithodoros moubata</u>		
	From Native huts		
	Buiko & Ndungo Bezirk Wilhelmstal, German E. Africa		
	28.V.1911		
	Rec'd. from Dr. Kudicke		
	Given to D. S. MacLagan 14/10/38		
N	2583	N	2583
		RML	111367
	<u>Rhipicephalus evertsi</u>		6 ♂, 2 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Wilhelmstal, German E. Africa		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2584	N	2584
		RML	111368
	<u>Ornithodoros moubata</u>		4 ♀, 9 N <u>Ornithodoros moubata</u>
	"Wawindi" (probably the name of a spot or district in Bezirk Iringa, writes Dr. Kudicke 24.IV.1914.)		"Wawindi", Iringa District (08.00 S, 35.30 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2585, a, b	N	2585a
		RML	111369
	(2585) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(2585) MISSING
	(a) <u>Hyalomma aegyptium</u>		(a) 7 ♂, 1 ♀ <u>Hyalomma albiparmatum</u>
	(b) <u>Rhipicephalus appendiculatus</u>		(b) MISSING
	Cattle		Cattle
	Itamba, Bezirk Iringa, German E. Africa		Itamba (08.42 S, 34.13 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2586, a-e	N	2586, a, c, e
		RML	111370
	(2586) <u>Boophilus</u> sp.		(2586) 38 ♀ <u>Boophilus decoloratus</u>
	(a) <u>Hyalomma aegyptium</u>		(a) 6 ♂, 3 ♀ <u>Hyalomma albiparmatum</u>
	(b) <u>Rhipicephalus evertsi</u>		(b) MISSING
	(c) <u>Amblyomma gemma</u>		(c) 3 ♂ <u>Amblyomma gemma</u>
	(d) <u>Amblyomma variegatum</u>		(d) MISSING
	(e) <u>Rhipicephalus appendiculatus</u>		(e) 1 ♂, 5 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Iringa ?, German E. Africa		Iringa ? (07.46 S, 35.42 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
	(2586b) 1 ♂, 1 ♀ to Prof. E. Brumpt, École Médecine, Paris 12.X.1922.		(2586c) Robinson (1926: 122) cited the collector as Dr. Bartels.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2587	N	2587
	<u>Rhipicephalus neavei</u> ♀	RML	111371
	Goat		1 ♀ <u>Rhipicephalus kochi</u>
	Lindi, German E. Africa		Goat
	Rec'd. 25.XI.1913		Lindi (10.00 S, 39.43 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
N	2588, a, b	N	2588, a, b
	(2588) <u>Amblyomma variegatum</u>	RML	111372
	(a) <u>Ornithodoros moubata</u>		(2588) 37 ♂, 29 ♀ <u>Amblyomma variegatum</u>
	(b) <u>Rhipicephalus appendiculatus</u> ♀'s		(a) 1 ♂ <u>Ornithodoros moubata</u>
	Cattle		(b) 6 ♀ <u>Rhipicephalus appendiculatus</u>
	Bukoba-Bezirk, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Bukoba District (01.35 S, 31.30 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
N	2589	N	2589
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s	RML	111373
	Cattle		2 ♂, 3 ♀ <u>Rhipicephalus evertsi</u>
	Wilhelmstal, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N 2590, a

(2590) Hyalomma aegyptium ♂, ♀(a) Rhipicephalus evertsi

Goats

Iringa, German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2590, a

RML 111374

(2590) 2 ♂, 2 ♀ Hyalomma
albiparmatum(a) 1 ♂ Rhipicephalus evertsi

Goats

Iringa (07.46 S, 35.42 E),
Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2591, a, b

(2591) Rhipicephalus evertsi(a) Rhipicephalus neavei ♀(b) Rhipicephalus simus

Cattle

Wilhelmstal

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

(2591) 1 ♂, 1 ♀ to Dr. Lajos
Gozony, Univ. Budapest, Hungary
23.VI.1914.

N 2591, a, b

RML 111375

(2591) 8 ♂, 3 ♀ Rhipicephalus evertsi(a) 2 ♀ Rhipicephalus kochi(b) 1 ♂ Rhipicephalus simus

Cattle

Lushoto (04.47 S, 38.17 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

(2591B) tentative ID

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2592	N	2592
	<u>Amblyomma variegatum</u> ♂, ♀	RML	111376
	Cattle belonging to the Sultan		68 ♂, 14 ♀ <u>Amblyomma variegatum</u>
	Kitorora - near Shirati, German E. Africa		Cattle belonging to the Sultan
	3.VI.1913		Kitorora near Shirati (01.08 S, 33.59 E), Tanzania
	Rec'd. from Dr. Kudicke		3.VI.1913
	1 ♂, 1 ♀ to J. de Meza, Zomba, Nyasaland 19.II.1916.		Rec'd. from Dr. Kudicke
	1 ♂, 2 ♀ to R. W. Mettam, Weybridge, IV.1931.		
	2 ♂, 1 ♀ to H. S. Purchase IV.1931.		
N	2593, a	N	2593, a
	(2593) <u>Amblyomma variegatum</u>	RML	111377
	(a) <u>Boophilus</u> sp. ♀'s		(2593) 32 ♂, 22♀ <u>Amblyomma variegatum</u>
	Cattle		(a) 8 ♀ <u>Boophilus decoloratus</u>
	Singidda, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Singida (04.49 S, 34.45 E). Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke
N	2594	N	2594
	<u>Rhipicephalus evertsi</u>	RML	111378
	Cattle		7 ♂, 6 ♀ <u>Rhipicephalus evertsi</u>
	Wilhelmstal, German E. Africa		Cattle
	Rec'd. 25.XI.1913		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. from Dr. Kudicke		Rec'd. 25.XI.1913
			Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2595, a	N	2595, a
		RML	111379
	(2595) <u>Amblyomma tholloni</u> (a) <u>Rhipicephalus maculatus</u> ♂		(2595) 7 ♂, 4 ♀ <u>Amblyomma tholloni</u> (a) 1 ♂ <u>Rhipicephalus maculatus</u>
	Off ?		Off ?
	Bezirk Lindi, German E. Africa		Lindi District (10.00 S, 39.20 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
	(2595) 1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, German E. Africa 22.VII.1914		(2595) cited: Robinson (1926: 253).
N	2596	N	2596
		RML	111380
	<u>Amblyomma variegatum</u>		33 ♂, 29 ♀, 2 N <u>Amblyomma variegatum</u> 1 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Singidda, German E. Africa		Singida (04.49 S, 34.45 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
	1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, German E. Africa 22.XII.1914.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2597, a	N	2597
		RML	111381
	(2597) <u>Rhipicephalus pulchellus</u> 1 ♂, 2 ♀		(2597) 1 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Rhipicephalus evertsi</u> ♂		(a) MISSING
	Kongoni Antelope		Kongoni antelope
	Schembekuli, Bezirk Wilhelmstal (Massai Steppe, right bank of Pangani River), Sanitätsdienststelle- Wilhelmstal, German E. Africa		Schembekuli, Lushoto District (04.40 S, 38.20 E), Tanzania
	13.V.1913		13.V.1913
	Meyer		Meyer
N	2598, a	N	2598, a
		RML	111382
	(2598) <u>Rhipicephalus sanguineus</u>		(2598) 28 ♂, 22 ♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Rhipicephalus evertsi</u> 1 ♂		(a) 1 ♂ <u>Rhipicephalus evertsi</u>
	Dog		Dog
	Usukuma, German E. Africa		Usukuma, Tanzania (locality not verified)
	V.1913		V.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2599, a	N	2599, a
		RML	111383
	(2599) <u>Amblyomma gemma</u> ♂'s, ♀'s (a) <u>Rhipicephalus pulchellus</u>		(2599) 10 ♂, 1 ♀ <u>Amblyomma gemma</u> (a) 8 ♂, 1 ♀ <u>Rhipicephalus pulchellus</u>
	Eland Antelope		<u>Taurotragus oryx</u>
	Schembekuli, Bezirk Wilhelmstal (Massai Steppe, right bank of Pangani River), Sanitätsdienststelle- Wilhelmstal, German E. Africa		Schembekuli, Lushoto District (04.40 S, 38.20 E), Tanzania
	13.V.1913		13.V.1913
	Meyer		Meyer
			(2599) cited: Robinson (1926: 122).
N	2600, a	N	2600
		RML	111384
	(2600) <u>Rhipicephalus simus</u> (a) <u>Ornithodoros moubata</u>		(2600) 33 ♂, 10 ♀ <u>Rhipicephalus simus</u> (a) MISSING
	Warzenischwein		<u>Phacochoerus aethiopicus</u>
	Tabora, German E. Africa		Tabora, Tanzania (locality not verified; 5 possible localities)
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATION

N 2601, a

(2601) Rhipicephalus sanguineus
 σ^1 's, φ^1 's
(a) Rhipicephalus simus

Wild dog

Usukuma, German E. Africa

V.1913

Rec'd. from Dr. Kudicke

N 2602, a

(2602) Rhipicephalus evertsi
(a) Rhipicephalus pulchellus ♀

Grants gazelle

Marangeek, Bezirk Wilhelmstal
(Massai Steppe, right bank of Pani
River), Sanitätsdienststelle
Wilhelmstal, German E. Africa

16.V.1913

Meyer

CURRENT STATUS

N 2601, a

RML 111385

(2601) 16 ♂, 9 ♀ Rhipicephalus sanguineus
(a) 9 ♂, 12 ♀ Rhipicephalus simus

Lycaon pictus

Sukuma (02.27 S, 33.07 E) or
(02.38 S, 33.31 E), Tanzania

V.1913

Rec'd. from Dr. Kudicke

N 2602, a

RML 111386

(2602) 2 ♂, 1 ♀ Rhipicephalus evertsi
(a) 1 ♀ Rhipicephalus pulchellus

Gazella granti

Marangeek, Lushoto District
(04.40 S, 38.20 E), Tanzania

16.V.1913

Meyer

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	2603, a	N	2603, a
		RML	66682
	(2603) <u>Rhipicephalus pulchellus</u>		(2603) 40 ♂, 26 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Amblyomma gemma</u> ♂		(a) 1 ♂ <u>Amblyomma gemma</u>
	Gnu		<u>Connochaetes taurinus</u>
	Marangeek, Bezirk Wilhelmstal (Massai Steppe, right bank of Pani River), Sanitätsdienststelle Wilhelmstal, German E. Africa		Marangeek, Lushoto District (04.40 S, 38.20 E), Tanzania
	Rec'd 25.XI.1913		Rec'd 25.XI.1913
	Rec'd from Dr. Kudicke		Rec'd from Dr. Kudicke
	(2603) 1 ♂, 1 ♀ to R. W. Mettam, Weybridge IV.1931.		(2603a) cited: Robinson (1926: 122).
	1 ♂, 1 ♀ to H. S. Purchase IV.1931.		
N	2604, a, b	N	2604, a, b
		RML	66678
	(2604) <u>Rhipicephalus pulchellus</u>		(2604) 46 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Rhipicephalus evertsi</u>		(a) 8 ♂, 3 ♀ <u>Rhipicephalus evertsi</u>
	(b) <u>Amblyomma gemma</u>		(b) 15 ♂, 1 ♀ <u>Amblyomma gemma</u>
	Eland antelope		<u>Taurotragus oryx</u>
	Schembekuli, Bezirk Wilhelmstal (Massai Steppe, right bank of Pangani River), Sanitätsdienststelle Wilhelmstal, German E. Africa		Schembekuli, Lushoto District (04.40 S, 38.20 E), Tanzania
	13.V.1913		13.V.1913
	Rec'd from Dr. Kudicke		Rec'd from Dr. Kudicke
	(2604b) 2 ♂, 2 ♀ mounted on slides in cells II.1915		Slides missing. (2604b) cited: Robinson (1926: 122).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2605	N	2605
		RML	111387
	<u>Ornithodoros moubata</u>		3 ♀ <u>Ornithodoros moubata</u>
	From Negro huts		From Negro huts
	Bezirk Lindi, German E. Africa		Lindi District (10.00 S, 39.20 E), Tanzania
	Rec'd 25.XI.1913		Rec'd 25.XI.1913
	Rec'd from Dr. Kudicke		Rec'd from Dr. Kudicke
			Probably <u>O. moubata porcinus</u>
N	2606,a	N	2606, a
		RML	66646
	(2606) <u>Hyalomma aegyptium</u>		(2606) 12 ♂, 7 ♀ <u>Hyalomma rufipes</u>
	(a) <u>Rhipicephalus evertsi</u>		(2606) 1 ♂ <u>Hyalomma albiparmatum</u>
			(a) 54 ♂, 20 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Usukuma, German E. Africa		Sukuma (02.27 S, 33.07 E) or (02.38 S, 33.31 E), Tanzania
	V.1913		V.1913
	Rec'd from Dr. Kudicke		Rec'd from Dr. Kudicke
	(2606) 1 ♂, 1 ♀ to Dr. Kudicke, Dar es Salaam, German E. Africa 22.VII.1914.		
	(2606a) 1 ♂, 1 ♀ to Prof. R. Matheson, Cornell 27.V.1929.		
	1 ♂, 1 ♀ to Dr. A. C. Reed, San Francisco 30.V.1929.		
	1 ♂, 1 ♀ to Prof. J. Drbohlav, Prague 30.V.1929.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2607, a	N	2607, a
		RML	111388
	(2607) <u>Rhipicephalus neavei</u>		(2607) 15 ♂, 10 ♀ <u>Rhipicephalus</u> <u>pravus</u>
	(a) <u>Rhipicephalus pulchellus</u>		(a) 5 ♂, 4 ♀ <u>Rhipicephalus</u> <u>pulchellus</u>
	Sheep		Sheep
	Lewäre-Saguta, place in Bezirk Wilhelmstal (Massai Steppe, right bank of Pangani River), Sanitätsdienststelle, Wilhelmstal, German E. Africa		Lewäre-Saguta, Lushoto District (04.40 S, 38.20 E), Tanzania
	V.1913		V.1913
	Meyer		Meyer
N	2608	N	2608
		RML	111389
	<u>Amblyomma variegatum</u>		53 ♂, 34 ♀ <u>Amblyomma variegatum</u>
	West Ussuri, Bukoba-Bezirk, German E. Africa		West Ussuri, Bukoba District (01.35 S, 31.30 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2609	N	2609
		RML	111390
	<u>Ornithodoros moubata</u>		19 ♂, 1 ♀, 20 N <u>Ornithodoros moubata</u>
	From Native huts		From Native huts
	Kihurio, Bezirk Wilhelmstal, at foot of Pare Mts., Sanitätsdienststelle Wilhelmstal		Kihurio (04.28 S, 38.04 E), Lushoto District, Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
	2 ♂, 2 N to J. de Meza, Zomba, Nyasaland 19.II.1916		Probably 0. <u>moubata porcinus</u>
N	2610	N	2610
		RML	111391
	<u>Rhipicephalus evertsi</u> ♀		1 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Wilhelmstal, German E. Africa		Lushoto (04.47 S, 38.17 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2611	N	2611
		RML	111392
	<u>Rhipicephalus evertsi</u> N & L		91 N, 24 L <u>Rhipicephalus evertsi</u>
	Lire Antelope		Lire Antelope
	Mara Plain, near Bukenje, Shirati, Bezirk Muansa, near British border		Mara (03.30 S, 36.42 E), Tanzania
	19.V.1913		19.V.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke

ORIGINAL DETERMINATIONCURRENT STATUS

N	2612, a	N	2612
		RML	111393
	(2612) <u>Rhipicephalus evertsi</u> ♀'s, N's, & L		(2612) 2 ♀, 82 N, 32 L <u>Rhipicephalus evertsi</u>
	(a) <u>Amblyomma variegatum</u>		(a) MISSING
	Cow antelope		Cow antelope
	High plateau of Viregi Shirati near British-German Frontier		High plateau of Viregi, Shirati (01.08 S, 33.59 E), Tanzania
	24.V.1913		24.V.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
N	2613, a, b	N	2613, a, b
		RML	105677
	(2613) <u>Amblyomma variegatum</u>		(2613) 16 ♂, 15 ♀ <u>Amblyomma variegatum</u>
	(a) <u>Rhipicephalus evertsi</u>		(a) 8 ♂, 2 ♀, 18 N <u>Rhipicephalus evertsi</u>
	(b) <u>Rhipicephalus capensis</u>		(b) 10 ♂, 4 ♀ <u>Rhipicephalus longus</u>
	Horse antelope		Horse antelope
	Mori Plain near Utegi		Mori Plain (01.21 S, 33.59 E), Tanzania
	6.V.1913		6.V.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2614, a-e	N	2614
		RML	111394
	(2614) <u>Rhipicephalus appendiculatus</u>		(2614) 10 ♂, 3 ♀ <u>Rhipicephalus appendiculatus</u>
	(a) <u>Hyalomma aegyptium</u>		(a) 7 ♂, 4 ♀ <u>Hyalomma albiparmatum</u>
	(b) <u>Rhipicephalus sanguineus</u>		(b) 3 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	(c) <u>Rhipicephalus simus</u> ♀'s		(c) 2 ♀ <u>Rhipicephalus simus</u>
	(d) <u>Rhipicephalus evertsi</u> ♀		(d) 1 ♀ <u>Rhipicephalus evertsi</u>
	(e) <u>Amblyomma variegatum</u> ♂		(e) MISSING
	Sheep		Sheep
	Iringa, German E. Africa		Iringa (07.46 S, 35.42 E), Tanzania
	1913		1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
			Vial label for 2614d incorrectly reads 2614b.
N	2615	N	2615
		RML	111395
	<u>Ornithodoros moubata</u>		6 ♂, 6 ♀, 3 N <u>Ornithodoros moubata</u>
	West Ussuri, Bukoba-Bezirk, German E. Africa		West Ussuri, Bukoba District (01.35 S, 31.30 E), Tanzania
	Rec'd. 25.XI.1913		Rec'd. 25.XI.1913
	Rec'd. from Dr. Kudicke		Rec'd. from Dr. Kudicke
	Some (sex/stage not stated) to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.VI.1914.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2616, a

(2616) Amblyomma variegatum(a) Rhipicephalus appendiculatus

Off ?

West Ussuri, Bukoba-Bezirk,
German E. Africa

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

N 2616, a

RML 111396

(2616) 53 ♂, 31 ♀ Amblyomma
variegatum(a) 7 ♂, 8 ♀ Rhipicephalus
appendiculatus

Off ?

West Ussuri, Bukoba District
(01.35 S, 31.30 E), Tanzania

Rec'd. 25.XI.1913

Rec'd. from Dr. Kudicke

Three tubes of ticks received from Colonel A. Alcock, F.R.S., London School of Tropical Medicine, Royal Albert Dock, London, E., 3 December, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2617	N	2617
		RML	111397
	<u>Amblyomma goeldii</u> 1 ♀		1 ♀ <u>Amblyomma rotundatum</u>
	Toad (big)		Toad
	Condoto, Colombia, S. America		Condoto (05.06 N, 76.37 W) Colombia
	1913		1913
	Dr. H.F.G. Spurrell		Dr. H.F.G. Spurrell
N	2618	N	2618
		RML	111398
	<u>Amblyomma varium</u> 1 ♂		1 ♂ <u>Amblyomma varium</u>
	3-toed sloth		<u>Bradypus tridactylus</u>
	Condoto, Colombia, S. America		Condoto (05.06 N, 76.37 W), Colombia
	1913		1913
	Dr. H.F.G. Spurrell		Dr. H.F.G. Spurrell
			Cited: Robinson (1926: 209).
N	2619	N	2619
		RML	111399
	<u>Argas</u> sp. 1 L		1 L <u>Ornithodoros</u> sp.
	Bat		Bat
	Condoto, Colombia, S. America		Condoto (05.06 N, 76.37 W), Colombia
	Dr. H.F.G. Spurrell		Dr. H.F.G. Spurrell

Ticks received back from the Imperial Bureau of Entomology, London, S.W.
(ex. Report No. 29), 3 December, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2620	N	2620
		RML	111400
	<u>Amblyomma humerale</u> 2 ♂'s		2 ♂ <u>Amblyomma humerale</u>
	Turtle		Turtle
	New Amsterdam, Berbice, British Guiana		New Amsterdam (06.15 N, 57.31 W), Guyana
	21.IX.1913		21.IX.1913
	G. E. Bodkin		G. E. Bodkin
	I. B. E. 696		Cited: Santos Dias (1958: 496).
N	2621	N	2621
		RML	111401
	<u>Boophilus australis</u> ? ♀'s		3 ♀ <u>Boophilus microplus</u>
	Toad (<u>Bufo marinus</u>)		<u>Bufo marinus</u>
	Georgetown, British Guiana		Georgetown (06.48 N, 58.10 W), Guyana
	13.IV.1913		13.IV.1913
	G. E. Bodkin		G. E. Bodkin
	I.B.E. 697		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2622	N	2622
		RML	111402
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		1 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Entebbe, Uganda, E. Africa		Entebbe (00.04 N, 32.28 E), Uganda
	20.IV.1913		20.IV.1913
	C. C. Gowdey		C. C. Gowdey
	I.B.E. 705		
	Some (sex/stage not stated) to Prof. O. Duboscq, Montpellier, France 10.II.1914.		
N	2623, a	N	2623, a
		RML	66683
	(2623) <u>Rhipicephalus neavei</u> ♂'s, ♀'s (a) <u>Rhipicephalus supertritus</u> ♂, ♀		(2623) 8 ♂, 4 ♀ <u>Rhipicephalus kochi</u> (a) 3 ♂, 1 ♀ <u>Rhipicephalus supertritus</u>
	Eland		<u>Taurotragus oryx</u>
	Mwanza River, Shire Valley Nyasaland		Mwanza River (16.09 S, 34.54 E), Malawi
	VII.1913		VII.1913
	S. A. Neave		S. A. Neave
	I.B.E. 715, 715a		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2624	N	2624
		RML	111403
	<u>Rhipicephalus neavei</u> ♂'s, ♀'s		3 ♂, 9 ♀ <u>Rhipicephalus kochi</u>
	Bush-buck		<u>Tragelaphus scriptus</u>
	Mwanza River, Shire Valley, Nyasaland		Mwanza River (16.09 S, 34.54 E), Malawi
	VII.1913		VII.1913
	S. A. Neave		S. A. Neave
	I.B.E. 719		
N	2625	N	2625
		RML	87719
	<u>Haemaphysalis aciculifer</u>		1 ♂ <u>Haemaphysalis rugosa</u> Holotype
	Reed-buck		Probably <u>Redunca arundinum</u>
	Wandara, Gold Coast		Wandara (09.02 N, 02.35 W), Ghana
	16.V.1913		16.V.1913
	J. J. Simpson		J. J. Simpson
	I.B.E. 722		Cited: Nuttall & Warburton (1915: 413); Santos Dias (1956: 5), original description of <u>H. a. rugosa</u> . Hoogstraal (1972: 970) gave <u>H.</u> <u>rugosa</u> species status.

Three tubes of ticks received from Dr. J. Preston Maxwell, Yungchun, Via Amoy, China, 6 December, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2626	N	2626
		RML	111404
	<u>Boophilus australis</u> ♂'s, ♀'s, N		5 ♂, 41 ♀, 7 N <u>Boophilus microplus</u>
	Cow		Cow
	South Fukien, south of Amoy, China		Fu-Chien Sheng Province (26.00 N, 118.00 E), Peoples Republic of China
	1913		1913
	Rec'd. from Dr. J. Preston Maxwell		Rec'd. from Dr. J. Preston Maxwell
N	2627	N	2627
		RML	111405
	<u>Boophilus australis</u> ♂'s, ♀'s		13 ♂, 47 ♀, 33 N, 4 L <u>Boophilus microplus</u>
	Goat		Goat
	South Fukien, south of Amoy, China		Fu-Chien Sheng Province (26.00 N, 118.00 E), Peoples Republic of China
	1913		1913
	Rec'd. from Dr. J. Preston Maxwell		Rec'd. from Dr. J. Preston Maxwell
N	2628	N	2628
		RML	113744
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's		53 ♂, 90 ♀, 17 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	South Fukien, south of Amoy, China		Fu-Chien Sheng Province (26.00 N, 118.00 E), Peoples Republic of China
	1913		1913
	Rec'd. from Dr. J. Preston Maxwell		Rec'd. from Dr. J. Preston Maxwell

Nine tubes of ticks received from Major R. Cecil Cochrane, A.V.C., Station Veterinary Hospital, Rawalpindi, Punjab, India, 9 December, 1913:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2629	N	2629	MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s			
	Camel			
	Rawalpindi, Punjab, India			
	X.1913			
	Rec'd. from Major R. C. Cochrane			
N	2630	N	2630	MISSING
	<u>Hyalomma aegyptium</u> ♂, ♀			
	Donkey			
	Rawalpindi, Punjab, India			
	X.1913			
	Rec'd. from Major R. C. Cochrane			
N	2631	N	2631	
		RML	111406	
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		23♂, 4 ♀ <u>Hyalomma dromedarii</u>	
	Bullock		Bullock	
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan	
	X.1913		X.1913	
	Rec'd. from Major R. C. Cochrane		Rec'd. from Major R. C. Cochrane	

ORIGINAL DETERMINATIONCURRENT STATUS

N	2632	N	2632
		RML	111407
	<u>Hyalomma aegyptium</u> N's		20 N <u>Hyalomma</u> sp.
	Goat		Goat
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan
	X.1913		X.1913
	Rec'd. from Major R. C. Cochrane		Rec'd. from Major R. C. Cochrane
N	2633	N	2633
		RML	111408
	<u>Argas persicus</u>		6 ♂, 5 ♀, 62 N <u>Argas persicus</u>
	Fowl		Fowl
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan
	X.1913		X.1913
	Rec'd. from Major R. C. Cochrane		Rec'd. from Major R. C. Cochrane
N	2634	N	2634 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Buffaloes		
	Rawalpindi, Punjab, India		
	X.1913		
	Rec'd. from Major R. C. Cochrane		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2635	N	2635 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Sheep		
	Rawalpindi, Punjab, India		
	X.1913		
	Rec'd. from Major R. C. Cochrane		
N	2636	N	2636 MISSING
	<u>Rhipicephalus sanguineus</u> ♀, N's		
	Dog		
	Rawalpindi, Punjab, India		
	X.1913		
	Rec'd. from Major R. C. Cochrane		
N	2637	N	2637
		RML	111409
	<u>Hyalomma aegyptium</u> ♀'s ♀		7 ♂, 1 ♀ <u>Hyalomma anatolicum</u> <u>anatolicum</u>
	Horse		Horse
	Rawalpindi, Punjab, India		Rawalpindi (33.36 N, 73.04 E), Pakistan
	X.1913		X.1913
	Rec'd. from Major R. C. Cochrane		Rec'd. from Major R. C. Cochrane

Two tubes of ticks received from L. C. Heath, Esq., Mwengwa, Mumbwa, N. Rhodesia, B.C. Africa, 9 December 1913:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2638	N	2638
		RML	111410
	<u>Amblyomma pomposum</u> ♂'s		3 ♂ <u>Amblyomma pomposum</u>
	Roan antelope		<u>Hippotragus equinus</u>
	Shot near Chishila's, Mwengwa, N. Rhodesia		Shot near Chishila's, Mwengwa (15.17 S, 25.59 E), Zambia
	11.X.1913		11.X.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
			Cited: Robinson (1926: 100).
N	2639, a	N	2639, a
		RML	111411
	(2639) <u>Amblyomma pomposum</u> ♂'s		(2639) 4 ♂ <u>Amblyomma pomposum</u>
	(a) <u>Rhipicephalus neavei</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	"Kudu"		<u>Tragelaphus strepsiceros</u>
	Near Chikunis, Mwengwa, N. Rhodesia Rhodesia		Near Chikunis (15.10 S, 25.58 E), Mwengwa, Zambia
	13.X.1913		13.X.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
	(2639) 2 ♂ mounted in cells on slides II.1915.		Slides missing
	(2639) 2 ♂ to Prof. R. Matheson, Cornell 27.V.1929.		Cited: Robinson (1926: 100).

Three tubes of ticks received from J. Murray, Esq., Agent, Compagnie Générale Frigorifique, Ambodimanga Station, Marovoay, Madagascar, Africa, 10 December, 1913.

ORIGINAL DETERMINATION

CURRENT STATUS

N	2640, a	N	2640
		RML	111412
	(2640) <u>Boophilus australis</u> ♂, ♀'s (a) <u>Amblyomma variegatum</u> ♀		(2640) 4 ♀ <u>Boophilus microplus</u> (a) MISSING
	Cattle		Cattle
	Marovoay, Madagascar		Marovoay (16.06 S, 46.39 E), Democratic Republic of Madagascar
	X.1913		X.1913
	J. Murray		J. Murray
N	2641, a	N	2641
		RML	111413
	(2641) <u>Boophilus australis</u> ♀'s (a) <u>Amblyomma variegatum</u> ♀		(2641) 3 ♀ <u>Boophilus microplus</u> (a) MISSING
	Cattle		Cattle
	Marovoay, Madagascar		Marovoay (16.06 S, 46.39 E), Democratic Republic of Madagascar
	X.1913		X.1913
	J. Murray		J. Murray
N	2642	N	2642 MISSING
	<u>Amblyomma variegatum</u> ♂'s, 1 ♀		
	Cattle		
	Marovoay, Madagascar		
	X.1913		
	J. Murray		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2643	N	2643
		RML	111414
	<u>Rhipicephalus haemaphysaloides</u> 1 ♂		1 ♂ <u>Rhipicephalus haemaphysaloides</u>
	Man (Formosan Chinaman)		<u>Homo sapiens</u>
	Tainan, Formosa		T'ai-nan (23.00 N, 120.12 E), Taiwan
	X.1913		X.1913
	Rec'd. from Dr. James L. Maxwell, E.P.M. Hospital, Tainan, Formosa, 19.XII.1913		Rec'd. from Dr. James L. Maxwell, E.P.M. Hospital, Tainan, Formosa, 19.XII.1913
	[Dr. Maxwell writes as follows regarding this tick: "Formosan Chinaman aged 22 years, male (cow-herd) applied for treatment on account of Splenomegaly and Anaemia - possibly an early stage of a little known but very definite disease - Febrile Tropical Splenomegaly. On undoing his clothes to examine abdomen a tick was found firmly adherent to skin of epigastrium - tick not engorged. Removed and placed in weak formalin.]		
	Three tubes of ticks received from Dr. Henry S. Hollenbeck, Kamundongo, Bie, Angola (Benguella), West Africa, 19 December, 1913:-		
N	2644	N	2644
		RML	111415
	<u>Ornithodoros moubata</u>		2 ♂, 4 ♀ <u>Ornithodoros moubata</u>
	Man		<u>Homo sapiens</u>
	Angola		Angola
	X.1913		X.1913
	Rec'd. from Dr. H. S. Hollenbeck		Rec'd. from Dr. H. S. Hollenbeck

ORIGINAL DETERMINATIONCURRENT STATUS

N	2645	N	2645
		RML	111416
	<u>Rhipicephalus tricuspis</u> 3 ♂, 3 ♀		3 ♂, 3 ♀ <u>Rhipicephalus tricuspis</u>
	Rabbit		Rabbit
	Angola		Angola
	X.1913		X.1913
	Rec'd. from Dr. H. S. Hollenbeck		Rec'd. from Dr. H. S. Hollenbeck
	[Doubtfully distinct from <u>R. lunulatus</u>]		
N	2646, a, b	N	2646, a, b
		RML	111417
	(2646) <u>Amblyomma pomposum</u> ♂'s		(2646) 5 ♂, 1 ♀ <u>Amblyomma pomposum</u>
	(a) <u>Boophilus australis</u> ♀'s		(a) 5 ♀ <u>Boophilus decoloratus</u>
	(b) <u>Rhipicephalus evertsi</u> ♀		(b) 1 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Angola		Kamundongo now Comundongo (12.30 S, 17.02 E), Angola
	X.1913		X.1913
	Rec'd. from Dr. H. S. Hollenbeck		Rec'd. from Dr. H. S. Hollenbeck
			Locality name taken from vial label. (2646) cited: Santos Dias (1958: 516). (as <u>A. superbum</u>)

Ticks received back from the Imperial Bureau of Entomology (ex Report No. 30),
London, S.W., 31 December, 1913:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2647	N	2647
		RML	111418
	<u>Rhipicephalus simus</u>		40 ♂, 13 ♀ <u>Rhipicephalus simus</u> 2 ♂ <u>Rhipicephalus sanguineus</u>
	Lioness		<u>Panthera leo</u>
	Shot at Port Herald, Nyasaland		Nsanje (16.55 S, 35.16 E), Malawi
	7.V.1913		7.V.1913
	Dr. J. E. S. Old		Dr. J. E. S. Old
	I.B.E. 727		
N	2648	N	2648
		RML	111419
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		5 ♂, 9 ♀ <u>Rhipicephalus simus</u>
	Dogs		Dogs
	Mwanza River, Shire Valley, Nyasaland		Mwanza River (16.09 S, 34.54 E), Malawi
	VII.1913		VII.1913
	S. A. Neave		S. A. Neave
	I.B.E. 729		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2649	N	2649
		RML	111420
	<u>Amblyomma splendidum</u> ♂'s, ♀'s (different sizes for variation)		3 vials containing 34 ♂, 41 ♂, 54 ♀ <u>Amblyomma splendidum</u>
	Buffalo		<u>Syncerus caffer</u>
	Fukian, San Salvador, Portuguese Congo		Fukian, São Salvador do Congo (06.16 S, 14.15 E), Angola
	1.I.1913		1.I.1913
	Dr. M. Gamble		Dr. M. Gamble
	I.B.E. 736		
	(2 ♂, 2 ♀ mounted in cells on slides V.1915)		Slides missing Cited: Robinson (1926: 125).
N	2650	N	2650
		RML	111421
	<u>Ornithodoros moubata</u>		3 ♂, 3 ♀, 1 N <u>Ornithodoros moubata</u>
	Off ?		Off ?
	Congo, Portuguese		Angola
	1913		1913
	Dr. M. Gamble		Dr. M. Gamble
	I.B.E. 739		
	Under host the word elephant has been crossed out and "wrong host" inserted.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2651	N	2651
		RML	111422
	<u>Rhipicephalus capensis</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Rhipicephalus longus</u>
	Pig		Pig
	Congo, Portuguese		Angola
	1913		1913
	Dr. M. Gamble		Dr. M. Gamble
	I.B.E. 737		
N	2652	N	2652 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Dog		
	Kibokolo do Zombo, Portuguese Congo		
	IV-V-1911		
	Dr. M. Gamble		
	I.B.E. 740		
	1 ♂, 1 ♀ to Dr. Lajos Gozony, Univ. Budapest, Hungary 23.VI.1914.		
	1 ♂, 1 ♀ to Launcelot Harrison, Australia 9.V.1919.		
	1 ♂, 1 ♀ to Prof. M. Jesus Maynar, Zaragoza, Spain 10.V.1919.		
	1 ♂, 1 ♀ to Prof. Poulton, Oxford 26.V.1919.		
	1 ♂, 1 ♀ to Prof. E. Hindle, Cambridge 24.IX.1919.		
	1 ♂, 1 ♀ to Major Lothian, School of Hygiene, Blackpool 25.IX.1919.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2653	N	2653 MISSING
	<u>Ornithodoros megnini</u> nymphs		
	Cattle		
	Kahukii, Oahu, Hawai Islands		
	1.XII.1913		
	Rec'd. from E. M. Ehrhorn, Esq., Division of Entomology, Board of Commissioners of Agriculture & Forestry, Honolulu, Hawai Islands, 23.XII.1913.		
	Seventeen tubes of ticks received from Dr. John Y. Wood, Kaballa, Koinadugu District, Sierra Leone Protectorate, West Africa, 29 December, 1913:-		
N	2654	N	2654 MISSING
	<u>Haemaphysalis leachi</u> ♀		
	Dog, Healthy		
	Mussaiya, Sierra Leone		
	17.XI.1913		
	Rec'd. from J. Y. Wood		
N	2655, a	N	2655, a
		RML	111423
	(2655) <u>Boophilus australis</u> 1 ♂, ♀'s (a) <u>Rhipicephalus falcatus</u> ♂		(2655) 1 ♂, 14 ♀, 1 N <u>Boophilus geigy</u> (a) 1 ♂ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Kombile, Sierra Leone		Kombile (09.41 N, 11.05 E), Sierra Leone
	12.X.1913		12.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2656	N	2656
		RML	111424
	<u>Boophilus australis</u> ♂, ♀'s, N's		9 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Simamaia, Sierra Leone		Simamaia, Sierra Leone (locality not verified)
	28.X.1913		28.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
N	2657	N	2657
		RML	111425
	<u>Boophilus australis</u>		19 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Tilia, Sierra Leone		Probably Talia, Sierra Leone (locality not verified; 9 possible localities)
	13.XI.1913		13.XI.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
N	2658	N	2658
		RML	111426
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		5 ♂, 4 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Tilia, Sierra Leone		Probably Talia, Sierra Leone (locality not verified; 9 possible localities)
	13.XI.1913		13.XI.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
	1 ♀ to Prof. R. Matheson, Cornell 27.V.1929.		Cited: Nuttall & Warburton (1915: 474).
	1 ♀ to Prof. J. Drbohlav, Prague 30.V.1929.		
	1 ♀ to Dr. A. C. Reed, San Francisco 30.V.1929.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2659, a-c	N	2659, a-c
		RML	105782
	(2659) <u>Boophilus australis</u> ♂'s, ♀'s		(2659) 1 ♂, 137 ♀ <u>Boophilus geigy</u>
	(a) <u>Haemaphysalis leachi</u> ♂'s, ♀'s		(a) 1 ♀ <u>Haemaphysalis leachi</u> group
	(b) <u>Amblyomma variegatum</u> ♂, ♀		(b) MISSING
	(c) <u>Rhipicephalus sanguineus</u> ♂, ♀'s		(c) 2 ♂ <u>Rhipicephalus sulcatus</u>
	Cattle		Cattle
	Boulakarafia, Sierra Leone		Boulakarafia, Sierra Leone (locality not verified)
	11.X.1913		11.X.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
			(2659a) cited: Nuttall & Warburton (1915: 474).
N	2660	N	2660
		RML	111427
	<u>Boophilus australis</u> 2 ♀'s		2 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Kaballa, Sierra Leone		Kabala (09.35 N, 11.33 W), Sierra Leone
	20.X.1913		20.X.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood
N	2661	N	2661
		RML	111428
	<u>Boophilus australis</u> ♀'s		100 ♀ <u>Boophilus geigy</u>
	Cattle		Cattle
	Kamba, Sierra Leone		Kamba, Sierra Leone (locality not verified; 5 possible localities)
	16.XI.1913		16.XI.1913
	Rec'd from Dr. J. Y. Wood		Rec'd from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2662, a	N	2662
		RML	111429
	(2662) <u>Boophilus australis</u> 2 ♀ (a) <u>Amblyomma variegatum</u> ♂		(2662) 18 ♀ <u>Boophilus geigy</u> (a) MISSING
	Cattle		Cattle
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	24.X.1913		24.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
			Both catalogue and vial label give the <u>Boophilus</u> collection as containing 2 ♀.
N	2663	N	2663 MISSING
	<u>Haemaphysalis leachi</u> ♀'s		
	Dog		
	Kaballa, Sierra Leone		
	20.X.1913		
	Rec'd. from Dr. J. Y. Wood		
N	2664, a-c	N	2664, a, b
		RML	111430
	(2664) <u>Boophilus australis</u> ♀'s (a) <u>Rhipicephalus falcatus</u> 2 ♂, 1 ♀ (b) <u>Rhipicephalus appendiculatus</u> 2 ♂, 1 ♀ (c) <u>Rhipicephalus sanguineus</u>		(2664) 41 ♀, 1 N <u>Boophilus geigy</u> (a) 2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u> (b) 2 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u> (c) MISSING
	Cattle		Cattle
	Kamaducta, Sierra Leone		Kamaducta, Sierra Leone (locality not verified)
	6.XI.1913		6.XI.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2665, a	N	2665a
		RML	111431
	(2665) <u>Hyalomma aegyptium</u> ♂		(2665) MISSING
	(a) <u>Rhipicephalus falcatus</u> ♀		(a) 1 ♀ <u>Rhipicephalus lunulatus</u>
	"self"		<u>Homo sapiens</u>
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	6.X.1913		6.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
N	2666, a, b	N	2666, a
		RML	111432
	(2666) <u>Boophilus australis</u> ♂'s, ♀'s, N's		(2666) 78 ♀, 2 N <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 4 ♀, 2 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Rhipicephalus sanguineus</u> ♂, ♀		(b) MISSING
	Cow, sick		Cow, sick
	Kamagoto, Sierra Leone		Kamagoto, Sierra Leone (locality not verified)
	1.XI.1913		1.XI.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
N	2667, a, b	N	2667, a, b
		RML	111433
	(2667) <u>Boophilus australis</u> ♂'s, ♀'s, N's		(2667) 5 ♂, 163 ♀, 2 N <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 10 ♂, 14 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		(b) 1 ♂ <u>Rhipicephalus lunulatus</u>
	Cattle, healthy		Cattle, healthy
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	5.X.1913		5.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	2668	N	2668
		RML	111434
	<u>Boophilus australis</u> ♂, ♀'s		2 ♂, 21 ♀, 2 N <u>Boophilus geigy</u>
	Sheep		Sheep
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	6.X.1913		6.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood
N	2669, a, b	N	2669, a
		RML	111435
	(2669) <u>Boophilus australis</u> ♂'s, ♀'s		(2669) 1 ♂, 67 ♀, <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s		(a) 3 ♂, 2 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Amblyomma variegatum</u> ♂		(b) MISSING
	Cattle		Cattle
	Serakoria, Sierra Leone		Possibly Serakolia (09.32 N, 11.05 W), Sierra Leone
	9.X.1913		9.X.1913
	Rec'd. from Dr. J. Y. Wood		Rec'd. from Dr. J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 2670, a-d</p> <p>(2670) <u>Boophilus australis</u> ♂'s, ♀'s</p> <p>(a) <u>Rhipicephalus falcatus</u> ♂'s, ♀'s</p> <p>(b) <u>Rhipicephalus lunulatus</u> ♂</p> <p>(c) <u>Amblyomma splendidum</u> ♂'s</p> <p>(d) <u>Amblyomma variegatum</u> ♂'s</p> <p>Cattle</p> <p>Kamagoto, Sierra Leone</p> <p>1.XI.1913</p> <p>Rec'd. from Dr. J. Y. Wood</p>	<p>N 2670, a-c</p> <p>RML 90931.</p> <p>(2670) 1 ♂, 238 ♀, 1 N <u>Boophilus geigy</u></p> <p>(2670) 1 ♂, 3 ♀ <u>Boophilus annulatus</u></p> <p>(a) 9 ♂, 16 ♀ <u>Rhipicephalus senegalensis</u></p> <p>(a) 1 ♀ <u>Rhipicephalus sanguineus</u></p> <p>(b) 1 ♂ <u>Rhipicephalus lunulatus</u></p> <p>(c) 2 ♂ <u>Amblyomma splendidum</u></p> <p>(d) MISSING</p> <p>Cattle</p> <p>Kamagoto, Sierra Leone (locality not verified)</p> <p>1.XI.1913</p> <p>Rec'd. from Dr. J. Y. Wood</p> <p>The <u>R. senegalensis</u> collection cited: Clifford & Anastos (1962: 21). The <u>B. annulatus</u> and <u>B. geigy</u> (as <u>B. decoloratus</u>) cited by Hoogstraal (1954b: 276).</p>
<p>N 2671</p> <p><u>Boophilus australis</u> ♀'s</p> <p>Cow</p> <p>Kwei Chow Fu, Szechuan, China</p> <p>8.XII.1913</p> <p>Rec'd. from S. A. Stericker, Esq., Szechuan, West China, 7 January 1914.</p>	<p>N 2671</p> <p>RML 111436</p> <p>4 ♀ <u>Boophilus microplus</u></p> <p>Cow</p> <p>Feng-Chieh (31.03 N, 109.31 E), Szechwan Province, Peoples Republic of China</p> <p>8.XII.1913</p> <p>Rec'd. from S. A. Stericker, Esq., Szechuan, West China, 7 January 1914.</p>

Four tubes of ticks received from Albert F. Eichhorn, Esq., Friedrich Wilhelmshaven, German New Guinea, 29 December, 1913:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2672	N	2672
	<u>Ixodes eichhorni</u> 1 ♀ TYPE		1 ♀ <u>Ixodes eichhorni</u> Lectotype.
	Man ("self")		<u>Homo sapiens</u>
	Rook Island		Rook Island now known as Umboi Island (05.36 S, 148.00 E), Papua New Guinea
	IX.1913		IX.1913
	A. F. Eichhorn		A. F. Eichhorn
			Nuttall (1916: 295) original description. Lectotype designated: Keirans & Brewster (1981: 165, 166).
N	2673	N	2673
	<u>Haemaphysalis s-----a</u> var. <u>p-----s</u> 3 ♂, 1 ♀, 5 N TYPES		3 ♂, 1 ♀, 5 N <u>Haemaphysalis novaeguineae</u>
	[Publication of the above name would constitute a <u>nomen nudum</u> - J.E.K.]		
	Bandicoot		Bandicoot
	Manus, Admiralty Islands		Manus Island (02.05 S, 147.00 E), Admiralty Islands
	20.IX.1913		20.IX.1913
	A. F. Eichhorn		A. F. Eichhorn
			Cited and figured: Nuttall & Warburton (1915: 450, 451). These are not type specimens - see Roberts (1963: 57).
N	2674	N	2674 MISSING
	<u>Aponomma</u> sp. 2 ♂'s		
	Iguana		
	Rook Island		
	25.VII.1913		
	A. F. Eichhorn		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2675

N 2675

RML 111439

Ixodes eichhorni 2 N's
TYPES (unengorged)2 N Ixodes eichhorni Paralectotypes

Kingfisher

Kingfisher

Manus, Admiralty Islands

Manus Island (02.05 S, 147.00 E),
Admiralty Islands

IX-X.1913

IX-X.1913

A. F. Eichhorn

A. F. Eichhorn

Nuttall (1916: 295) original description.
Paralectotypes designated:
Keirans & Brewster (1981: 165, 166).Two tubes of ticks received from Professor L. E. Migone, Asuncion, Paraguay,
South America, 8 January, 1914:-

N 2676

N 2676

RML 111440

Ornithodoros rostratus3 ♂, 8 ♀ Ornithodoros rostratus

San Salvador, Paraguay

San Salvador (22.51 S, 57.48 W),
Paraguay

17.I.1913

17.I.1913

Rec'd from Prof. Migone

Rec'd from Prof. Migone

ORIGINAL DETERMINATIONCURRENT STATUS

N	2677	N	2677 MISSING
	<u>Boophilus australis</u> 2 ♂, 1 ♀, N's		
	Cattle		
	Asuncion, Paraguay		
	18.XII.1913		
	With tristeza (<u>Piroplasma bigeminum</u>) "Disease doesn't exist in Paraguay, when it appears it is in animals introduced from Buenos Aires, Santa Fe or provinces of S. Argentina."		
	Ticks received back from the Imperial Bureau of Entomology (ex. Report No. 31), London S. W., 20 January, 1914:-		
N	2678	N	2678 MISSING
	<u>Amblyomma variegatum</u> ♂'s		
	Cattle		
	Antigua, West Indies		
	VI.1913		
	P. T. Saunders		
	I.B.E. 743		
N	2679	N	2679 MISSING
	<u>Amblyomma variegatum</u> ♀'s		
	Cattle		
	Antigua, West Indies		
	VI.1913		
	P. T. Saunders		
	I.B.E. 744		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2680	N	2680
		RML	111441
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Antigua, West Indies		Antigua (17.03 N, 61.48 W), West Indies
	14.VI.1913		14.VI.1913
	P. T. Saunders		P. T. Saunders
	I.B.E. 745		
N	2681	N	2681
		RML	111442
	<u>Dermacentor nitens</u> ♂'s, ♀'s, N, L		5 ♂, 1 ♀, 2 N, 2 L <u>Anocentor nitens</u>
	Horse		Horse
	Montserrat, West Indies		Montserrat (16.45 N, 62.12 W), West Indies
	9.VI.1913		9.VI.1913
	P. T. Saunders		P. T. Saunders
	I.B.E. 751		
N	2682	N	2682
		RML	111443
	<u>Dermacentor nitens</u> 1 ♂, 4 ♀		1 ♂, 4 ♀ <u>Anocentor nitens</u>
	Donkey		Donkey
	Montserrat, West Indies		Montserrat (16.45 N, 62.12 W), West Indies
	10.VI.1913		10.VI.1913
	P. T. Saunders		P. T. Saunders
	I.B.E. 51		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2683	N	2683 MISSING
	<u>Boophilus australis</u> 2 ♂, 2 ♀		
	Cattle		
	St. Kitts, West Indies		
	28.VII.1913		
	P. T. Saunders		
	I.B.E. 752		
N	2684	N	2684
	<u>Argas</u> sp. 1 larva	RML	111444
	Rat (<u>Mus norvegicus</u>)		1 L <u>Ornithodoros</u> sp.
	St. Vincent, West Indies		<u>Rattus norvegicus</u>
	8.VIII.1913		Saint Vincent (13.15 N, 61.12 W), West Indies
	P. T. Saunders		8.VIII.1913
	I.B.E. 757		P. T. Saunders
N	2685	N	2685
	<u>Amblyomma dissimile</u> 4 ♂'s, 1 N	RML	111445
	Coral snake		4 ♂, 1 N <u>Amblyomma dissimile</u>
	British Guiana		<u>Elaps</u> sp.
	6.VI.1913		Guyana
	G. E. Bodkin		6.VI.1913
	I.B.E. 761		G. E. Bodkin

ORIGINAL DETERMINATIONCURRENT STATUS

N	2686	N	2686
		RML	111446
	<u>Amblyomma dissimile</u> ♂'s		12 ♂ <u>Amblyomma dissimile</u>
	Snake (<u>Boa constrictor</u>)		<u>Boa constrictor</u>
	South America		South America
	13.I.1914		13.I.1914
	[Z. S. No. 41]		

Two tubes of ticks received from Dr. A. Carini, Instituto Pasteur de S. Paulo, Avenida Paulista 158, São Paulo, Brazil, South America, 26 January, 1914:-

N	2687	N	2687
		RML	111447
	<u>Ixodes loricatus</u> 1 ♀		1 ♀ <u>Ixodes loricatus</u>
	Gamba		<u>Chironectes minimus</u>
	Brazil, South America		Brazil
	XII.1913		XII.1913
	Dr. A. Carini		Dr. A. Carini
			Cited: Nuttall (1916: 329).

N	2688	N	2688
		RML	111448
	<u>Amblyomma ovale</u> 1 ♂		1 ♂ <u>Amblyomma striatum</u>
	Dog		Dog
	Brazil, South America		Brazil
	I.1914		I.1914
	Rec'd. from Dr. A. Carini		Rec'd. from Dr. A. Carini
			Cited: Robinson (1926: 29). (as <u>A. ovale</u>).

Three tubes of ticks received from Dr. T. L. Bancroft, Eidsvold, Queensland, Australia, 2 February, 1914:

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2689	N	2689
		RML	111449
	<u>Haemaphysalis bancrofti</u> 2 ♀'s, L, eggs TYPES		2 ♀, 223 L <u>Haemaphysalis bancrofti</u> Paralectotypes
	Wallaby (<u>Macropus dorsalis</u>)		<u>Macropus dorsalis</u>
	Eidsvold, Queensland, Australia		Eidsvold (25.22 S, 151.07 E), Queensland, Australia
	XII.1913		XII.1913
	Dr. T. L. Bancroft		Dr. T. L. Bancroft
	[7 larvae in balsam on a slide]		Larval total includes the 7 slide mounted specimens Nuttall & Warburton (1915: 487) original description. Paralectotypes designated: Keirans & Brewster (1981: 159).
N	2690a-c	N	2690a-c
		RML	111450
	(a) <u>Aponomma decorosum</u> 2 ♀'s (b?) <u>Amblyomma albolimbatum</u> (c) <u>Aponomma trimaculatum</u> 1 ♀		(a) 2 ♀ <u>Aponomma decorosum</u> (b?) 3 ♀ <u>Amblyomma moreliae</u> (c) 1 ♀ <u>Aponomma trimaculatum</u>
	<u>Varanus varius</u>		<u>Varanus varius</u>
	Eidsvold, Queensland, Australia		Eidsvold (25.22 S, 151.07 E), Queensland, Australia
	25.X.1913		25.X.1913
	Dr. T. L. Bancroft		Dr. T. L. Bancroft
	N2690b? L.E.R. det. 1926		(2690b) cited and figured: Robinson (1926: 150).

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
<p>N 2691, a</p> <p>(2691) <u>Haemaphysalis bancrofti</u> TYPES 6 ♂, 3 ♀, 2 N (a) <u>Boophilus australis</u> ♀'s, N's</p> <p>Off ?</p> <p>Eidsvold, Queensland, Australia</p> <p>1913</p> <p>Dr. T. L. Bancroft</p>	<p>N 2691, a</p> <p>RML 111451</p> <p>(2691) 6 ♂, 3 ♀, 2 N <u>Haemaphysalis bancrofti</u> Paralectotypes (a) 3 ♀, 5 N <u>Boophilus microplus</u></p> <p>Off ?</p> <p>Eidsvold (25.22 S, 151.07 E), Queensland, Australia</p> <p>1913</p> <p>Dr. T. L. Bancroft</p> <p>Nuttall & Warburton (1915: 487) original description. Paralectotypes designated: Keirans & Brewster (1981: 159).</p>
<p>N 2692</p> <p><u>Haemaphysalis cuspidata</u> 1 ♀, 7 N's, 4 L TYPES</p> <p><u>Paradoxurus niger</u></p> <p>Colombo, Ceylon</p> <p>9.XII.1909</p> <p>Dr. A. Willey</p> <p>[1 N in balsam on a slide]</p>	<p>N 2692</p> <p>RML 111452</p> <p>1 ♀, 7 N, 3 L <u>Haemaphysalis cuspidata</u></p> <p><u>Paradoxurus hermaphroditus</u></p> <p>Colombo (06.56 N, 79.51 E), Sri Lanka</p> <p>9.XII.1909</p> <p>Dr. A. Willey</p> <p>♀ vulva removed and mounted on a slide. 7 N total includes one mounted on a slide. Warburton (1910: 401), original description. Cited: Nuttall & Warburton (1915: 439, 440, figs. 369, 370).</p>

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2693	N	2693
		RML	111453
	<u>Argas persicus</u>		69 ♂, 52 ♀, 32 N <u>Argas persicus</u>
	Fowls		Fowls
	Sohawa, Jhelum District, Punjab, India		Either Sohawa (32.51 N, 73.00 E) or (33.08 N, 73.26 E), Pakistan
	XII.1913		XII.1913
	Rec'd. from H. E. Cross, Esq., B. Sc., etc. Camel Specialist, 3 February 1914.		Rec'd. from H. E. Cross, Esq., B. Sc., etc. Camel Specialist, 3 February 1914.
	Some (sex/stage not stated) to Prof. O. Duboscq, Montpellier, France 10.II.1914.		
	Six tubes of ticks received from Professor W. Rae Sheniffs (Professor of Zoology), Madras Christian College, Balfour Hall, Kilpank, Madras W., India, 2 February, 1914:-		
N	2694	N	2694 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dog		
	Kilpank, Madras, W., India		
	1913		
	Rec'd. from W. Rae Sheniffs		
N	2695	N	2695
		RML	111454
	<u>Rhipicephalus sanguineus</u> eggs		1 vial of eggs <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Kilpank, Madras, W. India		Kilpank, Madras, India (locality not verified)
	1913		1913
	Rec'd. from W. Rae Sheniffs		Rec'd. from W. Rae Sheniffs

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2696	N	2696
		RML	111455
	<u>Rhipicephalus sanguineus</u> larvae		191 L <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Kilpank, Madras, W., India		Kilpank, Madras, India (locality not verified)
	1913		1913
	Rec'd. from W. Rae Sheniffs		Rec'd. from W. Rae Sheniffs
N	2697	N	2697
		RML	111456
	<u>Aponomma gervaisi</u> ♂'s		9 ♂ <u>Aponomma gervaisi</u>
	<u>Varanus bengalensis</u>		<u>Varanus bengalensis</u>
	Kilpank, Madras W., India		Kilpank, Madras, India (locality not verified)
	1913		1913
	Rec'd. from W. Rae Sheniffs		Rec'd. from W. Rae Sheniffs
N	2698	N	2698
		RML	111457
	<u>Aponomma gervaisi</u> ♂'s, ♀'s, N's		14 ♂, 3 ♀, 5 N <u>Aponomma gervaisi</u>
	<u>Varanus bengalensis</u>		<u>Varanus bengalensis</u>
	Kilpank, Madras W., India		Kilpank, Madras, India (locality not verified)
	1913		1913
	Rec'd. from W. Rae Sheniffs		Rec'd. from W. Rae Sheniffs
	1 ♂, 1 ♀, L's to Prof. E. Malvoz, Liège 30.V.1929. 1 ♂, ♀'s to E. T. Boardman, Univ. Florida, Gainesville 30.V.1929.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2699

N 2699

RML 111458

Aponomma laeve var. paradoxum
5 ♂, 1 ♀, 1 N5 ♂, 1 ♀, 2 N Aponomma pattoniCommon rat snake (Zamenis mucosus)Ptyas mucosus

Kilpank, Madras W., India

Kilpank, Madras, India (locality
not verified)

1913

1913

Rec'd. from W. Rae Sheniffs

Rec'd. from W. Rae Sheniffs

Three tubes of ticks received from L. C. Heath, Esq., Mwendwa, Mumbwa,
N. Rhodesia, B. C. Africa, 4 February, 1914:-

N 2700

N 2700

RML 111459

Rhipicephalus sulcatus 4 ♀'s1 ♂, 1 ♀ Rhipicephalus sulcatus
2 ♂ Rhipicephalus sanguineus

Hare

Lepus sp.Shot at Mwendwa Station,
N. RhodesiaShot at Mwendwa (15.17 S, 25.59 E),
Zambia

XII.1913

XII.1913

Rec'd. from L. C. Heath

Rec'd. from L. C. Heath

ORIGINAL DETERMINATIONCURRENT STATUS

N	2701, a, b	N	2701
		RML	111460
	(2701) <u>Rhipicephalus sulcatus</u> 2 ♂, 1 ♀		(2701) 2 ♂, 1 ♀ <u>Rhipicephalus sulcatus</u>
	(a) <u>Ixodes pilosus</u> 2 ♀		(a) MISSING
	(b) <u>Amblyomma variegatum</u> N		(b) MISSING
	Hartebeest		Probably <u>Alcelaphus lichtensteini</u>
	Near Mwengwa Station, N. Rhodesia		Near Mwengwa (15.17 S, 25.59 E), Zambia
	24.XII.1913		24.XII.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
N	2702, a	N	2702, a
		RML	105697
	(2702) <u>Ixodes pilosus</u> 1 ♂, 2 ♀		(2702) 1 ♂, 1 ♀ <u>Ixodes cavipalpus</u>
	(a) <u>Rhipicephalus neavei</u> 1 ♂, 1 ♀		(2702) 1 ♀ <u>Ixodes pilosus</u>
	(not typical)		(a) 1 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	Grysbock		<u>Raphicerus sharpei</u>
	Shot at Mwengwa Station, N. Rhodesia		Shot at Mwengwa (15.17 S, 25.59 E), Zambia
	XII.1913		XII.1913
	Rec'd. from L. C. Heath		Rec'd. from L. C. Heath
			Although far from the known range of <u>I. pilosus</u> , this 2702 female looks like typical South African <u>I. pilosus</u> .
			(2702) cited: Nuttall (1916: 330).

Two Tubes of ticks received from Dr. H. de Beurepaire Aragão, Instituto de Manguinhos, Rio de Janeiro, Brazil, South America, 4 February, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2703	N	2703
		RML	111461
	<u>Amblyomma rotundatum</u> 1 ♀		1 ♀ <u>Amblyomma rotundatum</u>
	Toad		Toad
	Rio de Janeiro, Brazil		Rio de Janeiro (22.54 S, 43.14 W), Brazil
	8.I.1914		8.I.1914
	Rec'd. from Dr. H. de B. Aragão		Rec'd. from Dr. H. de B. Aragão
	Began to oviposit 12.I.1914		Also one vial of eggs in a separate jar containing eggs from numerous species.
	2703 L.E.R. redet. 1926.		
N	2704	N	2704
		RML	111462
	<u>Amblyomma rotundatum</u> 1 ♀		1 ♀, 32 L <u>Amblyomma rotundatum</u>
	Toad		Toad
	Rio de Janeiro, Brazil		Rio de Janeiro (22.54 S, 43.14 W), Brazil
	12.I.1914		12.I.1914
	Rec'd. from H. de B. Aragão		Rec'd. from H. de B. Aragão
	Started ovipositing during transit. [Nos. 2673 & 2674 used for raising experiments.] L.E. Robinson det. 1926.		The 32 L were raised in Cambridge, England. Cited: Robinson (1926: 169).

Six tubes of ticks received from Herrn Professor Dr. Knuth, Hygienisches Institut der Tierärztlichen Hochschule, Luisenstr. 56, Berlin N.W. 6, Germany, 9 February, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2705	N	2705
		RML	111464
	<u>Haemaphysalis cinnabarina</u> 1 ♂, 2 ♀ [also 1 ♀ with small leg IV in sep. tube]		1 ♂, 3 ♀ <u>Haemaphysalis punctata</u>
	Dairy cattle		Cattle, dairy
	Norderney		Norderney (53.42 N, 07.09 E), Federal Republic of Germany
	30.X.1913		30.X.1913
	Rec'd. from Dr. Knuth		Rec'd. from Dr. Knuth
	Knuth No. 1		Cited: Nuttall & Warburton (1915: 386).
N	2706	N	2706
		RML	111465
	<u>Haemaphysalis cinnabarina</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Haemaphysalis punctata</u>
	Cattle		Cattle
	Island of Juist		Island of Juist (53.41 N, 07.00 E), Federal Republic of Germany
	22.XI.1913		22.XI.1913
	Rec'd. from Dr. Knuth		Rec'd. from Dr. Knuth
	Knuth No. 3.		Cited & figured: Nuttall & Warburton (1915: 382, 386). Vulva of ♀ mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2707	N	2707
		RML	111466
	<u>Haemaphysalis cinnabarina</u> 3 ♂, 2 ♀		3 ♂, 3 ♀ <u>Haemaphysalis punctata</u>
	Cattle		Cattle
	Sportplatz, Norderney		Sportplatz, Norderney (53.42 N, 07.09 E), Federal Republic of Germany
	3.XI.1913		3.XI.1913
	Rec'd. from Dr. Knuth		Rec'd. from Dr. Knuth
	Knuth No. 6.		Cited: Nuttall & Warburton (1915: 125).
N	2708	N	2708
		RML	111467
	<u>Haemaphysalis cinnabarina</u> 5 ♂'s (vary!)		5 ♂ <u>Haemaphysalis punctata</u>
	Cattle		Cattle
	Kassö-Feld, Kreis Apenrade		Kassö-Feld, Kreis Apenrade, Federal Republic of Germany (locality not verified)
	IX.1912		IX.1912
	Rec'd. from Dr. Knuth		Rec'd. from Dr. Knuth
	Knuth No. 7.		Cited & figured: Nuttall & Warburton (1915: 381, 385).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2709	N	2709
		RML	111468
	<u>Haemaphysalis cinnabarina</u> 1 ♂ (small!)		1 ♂ <u>Haemaphysalis punctata</u>
	Cattle		Cattle
	Bau, Kreis Tondern		Bau (51.09 N, 06.09 E), Kreis Tondern, Federal Republic of Germany
	IX.1912		IX.1912
	Rec'd. from Dr. Knuth		Rec'd. from Dr. Knuth
	Knuth No. 10.		Cited: Nuttall & Warburton (1915: 385).
N	2710	N	2710
		RML	111469
	<u>Haemaphysalis cinnabarina</u> 2 ♂ (average size!)		2 ♂ <u>Haemaphysalis punctata</u>
	Cattle		Cattle
	Kassö-Hof, Kreis Apenrade		Kassö-Hof, Kreis Apenrade, Federal Republic of Germany (locality not verified)
	XI.1912		XI.1912
	Rec'd. from Dr. Knuth		Rec'd. from Dr. Knuth
	Knuth No. 14.		Cited: Nuttall & Warburton (1915: 385).

Ticks received from Dr. J. R. Allin, West African Medical Staff (posted from Beausite, Rushbrooke, Co. Cork, Ireland), 6 February, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2711	N	2711
		RML	111470
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		17 ♂, 8 ♀ <u>Amblyomma variegatum</u>
	Hausa cattle		Cattle, Hausa
	Obudu, Eastern Province of N. Nigeria, West Africa		Obudu (06.40 N, 09.10 E), South-Eastern Prov., Nigeria
	8.VII.1913		8.VII.1913
	J. R. Allin		J. R. Allin
N	2712	N	2712
		RML	90807
	<u>Boophilus australis</u> ♂'s, ♀'s		6 ♀ <u>Boophilus annulatus</u> 2 ♂, 27 ♀ <u>Boophilus decoloratus</u>
	Hausa cattle		Cattle, Hausa
	Obudu, Eastern Province of N. Nigeria, West Africa		Obudu (06.40 N, 09.10 E), South-Eastern Prov., Nigeria
	8.VII.1913		8.VII.1913
	J. R. Allin		J. R. Allin
			2 ♀ <u>Boophilus annulatus</u> from this lot are in the Dr. H. Hoogstraal collection, NAMRU 3, Cairo, Egypt.
N	2713	N	2713
		RML	111471
	<u>Rhipicephalus falcatus</u> 4 ♂, 1 ♀		4 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Hausa cattle		Cattle, Hausa
	Obudu, Eastern Province of N. Nigeria, West Africa		Obudu (06.40 N, 09.10 E), South-Eastern Prov., Nigeria
	8.VII.1913		8.VII.1913
	J. R. Allin		J. R. Allin

ORIGINAL DETERMINATIONCURRENT STATUS

N	2714	N	2714
		RML	111472
	<u>Dermacentor albipictus</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Dermacentor albipictus</u>
	Horse		Horse
	Honolulu		Honolulu (21.19 N, 157.52 W), Hawaii, U.S.A.
	7.I.1911		7.I.1911
	Dr. S. Hadwen		Dr. S. Hadwen
N	2715	N	2715
		RML	111473
	<u>Haemaphysalis formosensis</u> Nn., 1 ♂ CO-TYPE!		1 ♂ <u>Haemaphysalis formosensis</u> Syntype
	Dog (<u>Canis familiaris</u>)		Dog (<u>Canis familiaris</u>)
	Kosempo, Formosa, Japan		Kosempo, Taiwan (locality not verified)
	IV.1912		IV.1912
	Presented by Professor L. G. Neumann (Toulouse) 13 February 1914		Presented by Professor L. G. Neumann (Toulouse) 13 February 1914
	(Neumann Cat. No. 1792).		Neumann (1913: 35), original description. Cited: Nuttall & Warburton (1915: 402).

Ticks received back from the Imperial Bureau of Entomology (ex. Report No. 32), London, S. W., 24 February, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2716	N	2716
		RML	111474
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s		6 ♀ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Chagwe, Uganda, E. Africa		Chagwe, Uganda (locality not verified)
	10.XI.1913		10.XI.1913
	C.E.H. Brogan coll (No. 3726).		C.E.H. Brogan coll (No. 3726).
	I.B.E. No. 765		Cited: Robinson (1926: 110).
N	2717	N	2717
		RML	111475
	<u>Amblyomma tholloni</u> ♂'s, 1 ♀		7 ♂, 1 ♀ <u>Amblyomma tholloni</u>
	Elephant		<u>Loxodonta africana</u>
	Portuguese Congo, Central Africa		Angola
	1909-1910		1909-1910
	Dr. Mercier Gamble		Dr. Mercier Gamble
	I.B.E., 775.		Cited: Robinson (1926: 253).
N	2718	N	2718 MISSING
	<u>Aponomma exornatum</u> 1 ♀		
	Large lizard		
	Uganda, E. Africa		
	1913		
	Dr. H. B. Owen		
	I.B.E. 776.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2719	N	2719
	<u>Ixodes schillingsi</u> 1 ♀	RML	111476
	Colobus monkey		1 ♀ <u>Ixodes schillingsi</u>
	Nairobi, B.E. Africa		<u>Colobus</u> sp.
	1913		Nairobi (01.17 S, 36.49 E), Kenya
	T. J. Anderson		1913
	I.B.E. 777		T. J. Anderson
			Cited: Nuttall (1916: 333).
N	2720	N	2720
	<u>Boophilus annulatus</u> ? ♀'s	RML	111477
	Cattle		10 ♀ <u>Boophilus microplus</u>
	Fray Bentos, Republic of Uruguay, South America		Cattle
	I.1913		Fray Bentos (33.08 S, 58.18 W), Uruguay
	Rec'd. from Dr. Breitung, 23.II.1914.		I.1913
			Rec'd. from Dr. Breitung, 23.II.1914.
N	2721	N	2721
	<u>Boophilus australis</u> ♂'s, ♀'s	RML	111478
	Buffalo (<u>Buffelus indicus</u>)		2 ♂, 12 ♀ <u>Boophilus microplus</u>
	Thai-ha-ap, près Hanoi, Tonkin, French Indo-China		<u>Bubalus bubalis</u>
	XII.1913		Thai-Ha-Ap (21.00 N, 105.50 E), Vietnam
	Rec'd. from Dr. A. Gauducheau, Directeur de l'Institut Vaccinal de Thai-ha-ap, près Hanoi, 25 February, 1914.		XII.1913
			Rec'd. from Dr. A. Gauducheau, Directeur de l'Institut Vaccinal de Thai-ha-ap, près Hanoi, 25 February, 1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2722, a	N	2722
		RML	111479
	(2722) <u>Ixodes putus</u> ♀ (a) <u>Ixodes unicavatus</u> N		(2722) 1 ♀ <u>Ixodes uriae</u> (a) MISSING
	Albatros (<u>Diomedea exulans</u>)		<u>Diomedea exulans</u>
	Antipodes Island, S. Pacific Ocean		Antipodes Islands (49.40 S, 178.47 E), New Zealand
	1907		1907
	Professor W. B. Benham		Professor W. B. Benham
	(Rec'd. from Professor Chas. Chilton, Canterbury College, Christchurch, New Zealand 23.XI.1913.).		(2722a) A note by L. J. Dumbleton found in the <u>Ixodes unicavatus</u> jar states that the specimen is a nymph of <u>Ixodes auritulus</u> .
			(2722) cited: Nuttall (1916; 330).
N	2723	N	2723
		RML	111480
	<u>Hyalomma aegyptium</u> 4 ♂, 1 ♀		4 ♂, 1 ♀ <u>Hyalomma dromedarii</u>
	Horses		Horses
	Bellary, Madras, South India		Bellary (15.09 N, 76.56 E), India
	II.1914		II.1914
	Rec'd. from Major R. L. Cranford A.V.C., Station Veterinary Hospital, Bangalore, S. India, 2 March, 1914.		Rec'd. from Major R. L. Cranford A.V.C., Station Veterinary Hospital, Bangalore, S. India, 2 March, 1914.
	[Major Cranford writes (12.II.1914):- "There had been no outbreak of disease among horses & no unusual amount of sickness among them at the time these ticks were collected I should be glad to hear from you as to the name of the ticks sent."].		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2724

Ixodes hexagonus nymph

Otter

No other data.

Rec'd. 27.II.1914

Rec'd. from Mr. Hony, Cambridge

N 2724

RML 111481

1 N Ixodes hexagonusLutra lutraCambridge (52.13 N, 00.08 E),
England

Rec'd. 27.II.1914

Rec'd. from Mr. Hony, Cambridge

Cited: Nuttall (1916: 328) who
gave the locality as Cambridge.

Three tubes of ticks received from Dr. H. A. A. Nicholls, C.M.G., Senior
Medical Officer, Kingsland House, Dominica, West Indies, 3 March, 1914:-

N 2725

Rhipicephalus sanguineus ♂'s, ♀'s,
N's

Dogs

Roseau District, Dominica

I.1914

Rec'd. from Dr. H.A.A. Nicholls

N 2725

RML 111482

11 ♂, 36 ♀, 5 N Rhipicephalus
sanguineus

Dogs

Roseau District, Dominica (15.30 N,
61.20 W), West Indies

I.1914

Rec'd. from Dr. H.A.A. Nicholls

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2726 <u>Boophilus australis</u> ♂'s, ♀'s Cattle Lasoye District, Dominica II.1914 Rec'd. from Dr. H.A.A. Nicholls 1 ♂, 2 ♀ to J. de Meza, Zomba, Nyasaland.	N	2726 MISSING
N	2727 <u>Boophilus australis</u> ♀'s Cattle Roseau District, Dominica I.1914 Rec'd. from Dr. H.A.A. Nicholls	N	2727 RML 111483 31 ♀ <u>Boophilus microplus</u> Cattle Roseau District, Dominica (15.30 N, 61.20 W), West Indies I.1914 Rec'd. from Dr. H.A.A. Nicholls
N	2728 <u>Boophilus annulatus</u> ? ♀'s Horse Coahuayana, near Colima, Michoacan, Mexico IV.1913 A. Laughton	N	2728 RML 111484 9 ♀ <u>Boophilus annulatus</u> Horse Coahuayana (18.44 N, 103.41 W), Mexico IV.1913 A. Laughton

ORIGINAL DETERMINATIONCURRENT STATUS

N	2729	N	2729 MISSING but see N 2732.
	Undetermined genus & species 1 ♂		
	Black panther (<u>Felis pardus</u>)		
	Kampong Batu, Negri Sembilan, Federated Malay States		
	XI.1913		
	Rec'd from Dr. _____, 10.March 1914.		
N	2730	N	2730
		RML	111485
	<u>Haemaphysalis formosensis</u> 4 ♂'s [CO-TYPES!]		4 ♂ <u>Haemaphysalis formosensis</u> Syntypes
	Dog (<u>Canis familiaris</u>)		Dog (<u>Canis familiaris</u>)
	Kosempo, Formosa, Japan		Kosempo, Taiwan (locality not verified)
	IV.1912		IV.1912
	(Presented to G.H.F. Nuttall by the Deutsches Entomologisches Museum, Gosslerstrasse 20, Berlin-Dahlem, Germany, 6 March, 1914).		Neumann (1913: 135) original description. Cited & figured: Nuttall & Warburton (1915: 400, 402).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2731	N	2731
		RML	111486
	<u>Haemaphysalis aculeata</u> Lavarra, 1904. 1 ♂ [CO-TYPE!]		1 ♂ <u>Haemaphysalis aculeata</u> Lectotype
	<u>Tragulus meminna</u>		<u>Tragulus meminna</u>
	Bodd, East Indies		Bodd, Indonesia (locality not verified)
	1904		1904
	[Presented to G.H.F. Nuttall by Professor Dr. Leonardo Lavarra, R. Scuola Technica, Cola di Rienzo, V. Governo Vecchio No. 34, Rome, Italy, 10 March 1914.]		Lavarra (1904: 255), original description. Cited: Nuttall & Warburton (1915: 441). Trapido (1965: 154) designated N2731 as the lectotype.
N	2732	N	2732
		RML	111487
	<u>Haemaphysalis leachi</u> 1 ♂		1 ♂ <u>Haemaphysalis koningsbergeri</u>
	Black panther (<u>Felis pardus</u>)		<u>Panthera pardus</u>
	Kampong Batu, Negri Sembilan, Federated Malay States		Kampong Batu (02.35 N, 102.08 E), Negri Sembilan, Malaysia
	XI.1913		XI.1913
	Rec'd from C. Strickland, Esq., M.A., 10 March 1914		Rec'd from C. Strickland, Esq., M.A., 10 March 1914
			Cited: Nuttall & Warburton (1915: 476).

Ticks received from Professor C. S. Walton, Zoology Dep't., University College of Wales, Aberystwyth, Cardiganshire, Wales, 10 March, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2733	N	2733
	<u>Ixodes hexagonus</u> nymph	RML	111488
	From beneath skin of fox		1 N <u>Ixodes hexagonus</u>
	Llanrhystyd, S. of Aberystwyth		From beneath skin of <u>Vulpes vulpes</u>
	III.1914		Llanrhystyd (52.18 N, 04.09 W), Wales
	Rec'd. from Prof. C. S. Walton		III.1914
	Sent back 3 unopened cysts & kept 1 (N 2735).		Rec'd. from Prof. C. S. Walton
			Cited: Nuttall (1914b: 258).
N	2734	N	2734
	<u>Ixodes ricinus</u> 1 ♀	RML	111489
	Found <u>under the skin</u> (below the ear) <u>of a fox</u>		1 ♀ <u>Ixodes ricinus</u>
	Llanrhystyd S. of Aberystwyth		Found under the skin (below the ear) of <u>Vulpes vulpes</u>
	III.1914		Llanrhystyd (52.18 N, 04.09 W), Wales
	Rec'd. from Professor C. S. Walton		III.1914
			Rec'd. from Professor C. S. Walton
			Cited: Nuttall (1914b: 258).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2735	N	2735 MISSING
	<u>Ixodes hexagonus</u> or <u>ricinus</u> N (probably) sack unopened		
	From beneath skin of fox		
	Llanrhystyd, S of Aberystwyth, Wales		
	III.1914		
	Rec'd. from Professor C. S. Walton		
	[See under "Deformities" at end of Cat.]		
N	2736	N	2736
	<u>Ixodes ricinus</u> 3 ♂, 3 ♀ (in copula)	RML	111490
	Sardinian cattle		2 ♂, 2 ♀ <u>Ixodes ricinus</u>
	Slaughterhouse at Rome		Cattle, Sardinian
	Rec'd. 13.III.1914		Slaughterhouse, Rome (41.54 N, 12.29 E), Italy
	Rec'd. from Professor Dr. Leonardo Lavarra, Rome, Italy.		Rec'd. 13.III.1914
	Ticks common on cattle at Sardinia and Campagna Romana.		Rec'd. from Professor Dr. Leonardo Lavarra, Rome, Italy.
			Cited: Nuttall (1916: 333).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2737	N	2737
		RML	111491
	<u>Haemaphysalis chordeilis</u> 1 ♀		1 ♀ <u>Haemaphysalis chordeilis</u>
	Ruffed grouse		<u>Bonansa umbellus</u>
	Catskill Mountain, New York, U. S. America		Catskill Mountains (42.10 N, 74.30 W), New York, U.S.A.
	VII.1909		VII.1909
	(Presented by the Bureau of Entomology, U. S. Dep't. of Agriculture, - per Dr. L. O. Howard, Washington, D. C., 20 March, 1914).		(Presented by the Bureau of Entomology, U. S. Dep't. of Agriculture, - per Dr. L. O. Howard, Washington, D. C., 20 March, 1914).
			Cited: Nuttall & Warburton (1915: 377).
N	2738	N	2738
		RML	111492
	<u>Amblyomma</u> sp. 1 N		1 N <u>Amblyomma</u> sp.
	Porcupine		<u>Atherurus</u> sp. or <u>Hystrix</u> sp.
	Ulu Gombak, Selangor, Federated Malay States		Ulu Gombak Forest Reserve (03.18 N, 101.47 E), Selangor, Malaysia
	II.1914		II.1914
	Rec'd from C. Strickland (Kuala Lumpur), 19.III.1914		Rec'd from C. Strickland (Kuala Lumpur), 19.III.1914
	(T. 59).		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2739

N 2739 MISSING

Ornithodoros coriaceus eggs,
Laid on 8-10.III.1914

Parents collected at San Antonio
Valley, Santa Clara County,
California II.1914

Rec'd. 29.III.1914

Rec'd. from Professor W. B. Herms,
Agricultural Experiment Station,
Univ. of California, Berkeley,
Cal., U.S.A.

Ticks received back from the Imperial Bureau of Entomology (ex. Report
No. 33), London, S. W. 1 April, 1914:-

N 2740

N 2740 MISSING

Rhipicephalus evertsi ♂'s, ♀'s

Off ?

Olorogoti, Masai Reserve,
B. E. Africa

XII.1913

Captain A. O. Luckman
I.B.E. No. 778.

N 2741

N 2741

RML 111493

Rhipicephalus evertsi ♂'s, ♀'s

5 ♂, 5 ♀ Rhipicephalus evertsi

Off ?

Off ?

Olorogoti, Masai Reserve,
B. E. Africa

Olorong'oti (00.29 S, 36.28 E),
Kenya

3.IX.1913

3.IX.1913

Captain A. O. Luckman

Captain A. O. Luckman

I.B.E. No. 786.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2742	N	2742
		RML	111494
	<u>Amblyomma splendidum</u> ♂'s, ♀'s		13 ♂, 12 ♀ <u>Amblyomma splendidum</u>
	Off ?		Off ?
	Portuguese Congo, Central Africa		Angola
	? Date		? Date
	Mr. Larsen		Mr. Larsen
	I.B.E. No. 791.		Cited: Robinson (1926: 125).
N	2743	N	2743
		RML	111495
	<u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus lunulatus</u>
	Eland		<u>Taurotragus oryx</u>
	Kola River, near Mt. Chiperrone, Portuguese East Africa		Kola River, near Mt. Chiperrone, Angola (locality not verified)
	XI.1913		XI.1913
	S. A. Neave		S. A. Neave
	I.B.E. No. 796.		
N	2744	N	2744 MISSING
	<u>Boophilus decoloratus</u> 3 ♂, 2 ♀		
	Sable Antelope		
	Kola River, near Mt. Chiperrone, Portuguese East Africa		
	XI.1913		
	S. A. Neave		
	I.B.E. No. 797.		

Two tubes of ticks received from Captain W. S. Patton, I.M.S., The King Institute of Preventive Medicine, Guindy, Madras, India, 6 April, 1914:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	2745	N	2745
		RML	71475
	<u>Haemaphysalis bispinosa</u> 2 ♀ & eggs		2 ♀, + 60 L <u>Haemaphysalis intermedia</u>
	Calves		Calves
	Guindy, Madras		Guindy, Madras, India
	III.1914		III.1914
	Rec'd. from Captain W. S. Patton		Rec'd. from Captain W. S. Patton
	Larvae raised in Cambridge		Cited: Nuttall & Warburton (1915: 432).-

ORIGINAL DETERMINATIONCURRENT STATUS

N 2746

N 2746

Argas vespertilionis 1 adult, N's
& larvae

RML 111496

4 N, 17 L Argas vespertilionis
(in 3 vials)Bat (Scotophilus kuhli)Scotophilus sp.

Guindy, Madras, India

Guindy, Madras, India
(locality not verified)

XII.1912

XII.1912

Rec'd. from Captain W. S. Patton

Rec'd. from Captain W. S. Patton

[Nos. 2745 & 2746 used for raising
experiments.]

Note: Capt. Patton writes,
19.III.1914, the N's fed on him
26.X.1913, took 20-48 minutes to
feed (shortest & longest time);
the larvae were taken off a bat,
12.XII.1912 so that the N's
(1st stage) fasted until 26.X.1913,
he finds they can fast nearly 1 year.
Without again feeding the 1st stage
N's moulted to 2nd stage N's on
9.XI.1913 & these lived unfed for
4 months. They do not feed well on
pigeons, guinea pigs, etc. On
dissection they show Leishmann's
granules in the Malpighian tubes,
but the bat (Scotophilus kuhli)
has not been found to have
spirochaetosis; he is sceptical
regarding the granules. Letter
destroyed, G.H.F.M.

Three tubes of ticks received from Captain W. S. Patton, I.M.S., Guindy, Madras, India, 14 April, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2746z, a	N	2746z, a
	(2746z) <u>Aponomma gervaisi</u> 2 ♂ (a) <u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s, ♀'s, N's	RML	111497
	Off rat snake, <u>Zamenis mucosus</u>		(2746z) 4 ♂ <u>Aponomma gervaisi</u> (a) 16 ♂, 1 ♀ 16 N, 4 L <u>Aponomma pattoni</u>
	Guindy, Madras, India		<u>Ptyas mucosus</u>
	III.1914		Guindy, Madras, India (locality not verified)
	Rec'd. from Captain W. S. Patton		III.1914
			Rec'd. from Captain W. S. Patton
N	2747	N	2747
	<u>Aponomma gervaisi</u> ♂'s, ♀'s (TYPE variety)	RML	111498
	Rat snake (<u>Zamenis mucosus</u>)		21 ♂, 1 ♀, 2 N <u>Aponomma gervaisi</u>
	Guindy, Madras, India		<u>Ptyas mucosus</u>
	III.1914		Guindy, Madras, India (locality not verified)
	Rec'd. from Captain W. S. Patton		III.1914
			Rec'd. from Captain W. S. Patton
N	2748	N	2748
	<u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s, ♀'s, N's	RML	111499
	<u>Zamenis mucosus</u>		29 ♂, 2 ♀, 16 N <u>Aponomma pattoni</u>
	Guindy, Madras, India		<u>Ptyas mucosus</u>
	III.1914		Guindy, Madras, India (locality not verified)
	Rec'd. from Captain W. S. Patton		III.1914
			Rec'd. from Captain W. S. Patton

Ticks received from Mr. Armbruster (per Dr. G. Wherry, Cambridge),
Abyssinia, E. Africa, 22 April, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2749	N	2749
		RML	111500
	<u>Amblyomma</u> sp. L		1 L <u>Amblyomma</u> sp.
	Man		Man
	Chercher Plateau, near Harar, S. E. Abyssinia		Chercher Plateau (vicinity of 08.55 N, 40.35 E) near Harar (09.19 N, 42.09 E), Ethiopia
	I.1913		I.1913
	Rec'd. from Mr. Armbruster		Rec'd. from Mr. Armbruster
N	2750	N	2750 MISSING
	<u>Amblyomma</u> sp. L		
	Man		
	Gojjam, Abyssinia		
	7.III.1913		
	Rec'd. from Mr. Armbruster		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2751

N 2751

RML 111501

Ixodes anatis Chilton, 1904, 2 ♀'s2 ♀ Ixodes anatisKiwi (Apteryx mantelli)Apteryx australis mantelli

North Island, New Zealand

North Island, New Zealand

III.1914

III.1914

W. W. Smith

W. W. Smith

[Rec'd. from Professor C. Chilton, Biological Laboratory, Canterbury College, Christchurch, New Zealand, 27 April 1914.] Compared with type. G.H.F.N. det.

Cited: Nuttall (1916: 318).

Note: Prof. Chas. Chilton, writes 20.III.1914 "Mr. Smith says he has 2 young kiwis, 2 months old, much subject to the attacks of the Ixodes, which generally attack them about the ears & on the top of the head, while in older birds they are found about the base of the remnants of the wings. He says that in life the Ixodes are dark blue in colour and shining with brilliant red legs." Letter destroyed G.H.F.N.

Ticks retained from the collection sent for examination by M. le Dr. E. Brumpt, Laboratoire de Parasitologie, 15 Rue de l'École de Médecine, Paris (VIe), France, 16 March, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2752	N	2752
		RML	111502
	<u>Haemaphysalis inermis</u> 2 ♀		2 ♀ <u>Haemaphysalis inermis</u>
	Deer		<u>Cervus</u> sp.
	Fontainebleau, France		Fontainebleau (48.24 N, 02.42 E), France
	3.XI.1911		3.XI.1911
	E. Brumpt		E. Brumpt
	Brumpt's No. 2		Cited: Nuttall & Warburton (1915: 367).
N	2753	N	2753
		RML	111503
	<u>Haemaphysalis inermis</u> 2 ♂		2 ♂ <u>Haemaphysalis inermis</u>
	Deer		<u>Cervus</u> sp.
	Fontainebleau, France		Fontainebleau (48.24 N, 02.42 E), France
	16.XII.1911		16.XII.1911
	E. Brumpt		E. Brumpt
	Brumpt's No. 4'		Cited: Nuttall & Warburton (1915: 367).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2754	N	2754
	<u>Haemaphysalis concinna</u> 2 ♂, 1 ♀	RML	111504
	Deer		2 ♂, 1 ♀ <u>Haemaphysalis concinna</u>
	R. Treville		<u>Cervus</u> sp.
	27.II.1912		Treville (43.23 N, 01.57 E), France
	E. Brumpt		27.II.1912
	Brumpt's No. 4		E. Brumpt
			Cited: Nuttall & Warburton (1915: 457).
N	2755	N	2755
	<u>Haemaphysalis concinna</u> 1 ♂, 1 N	RML	111505
	Deer		1 ♂, 1 N <u>Haemaphysalis concinna</u>
	Fontainebleau		<u>Cervus</u> sp.
	20.II.1912		Fontainebleau (48.24 N, 02.42 E), France
	E. Brumpt		20.II.1912
	Brumpt's No. 5		E. Brumpt
			Cited: Nuttall & Warburton (1915: 457).
N	2756	N	2756
	<u>Haemaphysalis inermiss</u> 1 ♀	RML	111506
	Deer		1 ♀ <u>Haemaphysalis inermiss</u>
	Fontainebleau		<u>Cervus</u> sp.
	XI.1910		Fontainebleau (48.24 N, 02.42 E), France
	E. Brumpt		XI.1910
	Brumpt's No. 7		E. Brumpt
			Cited: Nuttall & Warburton (1915: 367).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2757, a	N	2757, a
		RML	111507
	(2757) <u>Haemaphysalis inermis</u> 1 ♀ with eggs & larvae		(2757) 1 ♀, 1 L <u>Haemaphysalis inermis</u>
	(a) <u>Haemaphysalis inermis</u> larvae (dry) raised in Paris by E. Brumpt		(a) 34 L <u>Haemaphysalis inermis</u>
	Deer and Hedgehog		<u>Cervus</u> sp. and <u>Erinaceus europaeus</u>
	Raised in Paris		Raised in Paris (48.52 N, 02.20 E), France
	10.XII.1911		10.XII.1911
	E. Brumpt		E. Brumpt
	Brumpt's No. 13 (2757) Brumpt's No. 30 (2757a)		Cited & figured: Nuttall & Warburton (1915: 365, 366).
N	2758	N	2758
		RML	111508
	<u>Haemaphysalis inermis</u> N & 2 empty nymphal skins; 1 empty L skin		3 N <u>Haemaphysalis inermis</u>
	Raised in Paris		Raised in Paris (48.52 N, 02.20 E), France
	IX.1912		IX.1912
	E. Brumpt		E. Brumpt
	Brumpt's No. 17		Cited: Nuttall & Warburton (1915: 367).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2759	N	2759
		RML	111509
	<u>Haemaphysalis inermis</u> 5 gorged L		5 L <u>Haemaphysalis inermis</u>
	Raised on hedgehog		Raised on <u>Erinaceus europaeus</u>
	Paris		Paris (48.52 N, 02.20 E), France
	1912		1912
	E. Brumpt		E. Brumpt
	Brumpt's No. 25		Cited: Nuttall & Warburton (1915: 367).
N	2760	N	2760
		RML	111510
	<u>Haemaphysalis concinna</u> 1 N (gorged)		1 N <u>Haemaphysalis concinna</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Fontainebleau		Fontainebleau (48.24 N, 02.42 E), France
	7.II.1912		7.II.1912
	E. Brumpt		E. Brumpt
	Brumpt's No. 26		Cited: Nuttall & Warburton (1915: 457).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2761	N	2761
		RML	111511
	<u>Haemaphysalis concinna</u> larvae (unfed & replete)		18 L <u>Haemaphysalis concinna</u>
	Raised in Paris		Raised in Paris (48.52 N, 02.20 E), France
	1912		1912
	E. Brumpt		E. Brumpt
	Brumpt's No. 27		Slide missing
	[1 slide]		Cited: Nuttall & Warburton (1915; 457).
N	2762	N	2762
		RML	111512
	<u>Haemaphysalis inermis</u> N's (fed & unfed)		51 N <u>Haemaphysalis inermis</u>
	No other data		No other data
	1911		1911
	E. Brumpt		E. Brumpt
	Brumpt's No. 34		Slide missing
	[Hypostome of a N in balsam on a slide]		Cited: Nuttall & Warburton (1915; 367).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2763	N	2763
		RML	111513
	<u>Haemaphysalis concinna</u> ♂'s, ♀'s & N's		4 ♂, 6 ♀, 7 N <u>Haemaphysalis concinna</u>
	No data		No data
	[N's raised in Paris, 1912]		N's raised in Paris (48.52 N, 02.20 E), France
	1912		1912
	E. Brumpt		E. Brumpt
	Brumpt's No. 35		Figured: Nuttall & Warburton (1915: 455, 456).
N	2764	N	2764
		RML	111514
	<u>Haemaphysalis inermis</u> ♂'s, ♀'s, N's		9 ♂, 8 ♀ <u>Haemaphysalis inermis</u>
	No data		No data
	E. Brumpt		E. Brumpt
	Brumpt's No. 35		Slides missing
	[N's = slides]		
N	2765	N	2765
		RML	111673
	<u>Haemaphysalis inermis</u> 3 ♂, 5 ♀		4 ♂, 6 ♀ <u>Haemaphysalis inermis</u>
	Raised in Paris		Raised in Paris (48.52 N, 02.20 E), France
	1911		1911
	E. Brumpt		E. Brumpt
	No other data No Brumpt number		
	[See also Nos. 2778, 2779]		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2766	N	2766
		RML	22296
	<u>Haemaphysalis cuspidata</u> 3 ♂, 1 ♀		3 ♂ <u>Haemaphysalis cuspidata</u>
	<u>Herpestes mungo</u>		<u>Herpestes edwardsi</u>
	Peradeniya, Ceylon		Peradeniya (07.15 N, 80.36 E), Sri Lanka
	II.1912		II.1912
	J. S. Fryer		J. S. Fryer
	Gift of C. Warburton 8.V.1914		Three slides of dissections made by R. A. Cooley ♂ hypostome ♂ legs I & IV ♂ spiracular plate
			Note in vial - 1 ♀ given to Sharif, April, 1929.
			Cited: Nuttall & Warburton (1915: 440).
N	2767	N	2767
		RML	111674
	<u>Dermacentor nitens</u> ♀, N, L		1 ♀, 8 N, 6 L <u>Anocentor nitens</u>
	Buck		Probably <u>Odocoileus virginianus</u>
	Barbados, W. Indies		Barbados (13.10 N, 59.32 W), West Indies
	Shot VIII.1912		Shot VIII.1912
	Dr. Lucius Nicholls who presented the specimen of skin with innumerable ticks on it.		Dr. Lucius Nicholls
	(a) ♀, (b) 10 N's, (c) 8 larvae placed in separate tubes. (d) piece of skin preserved with ticks in situ. G.H.F.N.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2768	N	2768
		RML	111675
	<u>Argas reflexus</u> 1 specimen		1 ♀ <u>Argas reflexus</u> group
	Labelled from human habitations		Labelled from human habitations
	Bombay		Bombay (18.58 N, 72.50 E), India
	Found on C. W.'s bench		This specimen looks like good <u>A. reflexus</u> but the collection data are poor and <u>A. reflexus</u> should not be found east of 15° longitude.
N	2769	N	2769
		RML	111676
	<u>Argas reflexus</u> 1 ♀		1 ♀ <u>Argas reflexus</u>
	Canterbury Cathedral		Canterbury Cathedral, Canterbury (51.16 N, 01.05 E), Kent, England
	Rec'd. (dried & dead) 8.V.1914		Rec'd. (dried & dead) 8.V.1914
	Rec'd. from Mr. J. McClemens, Senior Vesturer at the suggestion of Dr. Mason, with a request for information about the tick "we only capture a specimen every 10 or 12 years."		Rec'd. from Mr. J. McClemens
N	2770	N	2770 MISSING
	<u>Ixodes canisuga</u> 1 ♀		Arthur (1963: 91), cited this collection as 1 ♀ <u>Ixodes lividus</u> .
	Sandmartin		
	6.VIII.1909		
	Sent by Mr. R. F. L. Burton of Shrewsbury.		
	(a malformed specimen G.H.F.N. det. 4.X.1915).		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2771

N 2771 MISSING

Haemaphysalis leachi 2 ♀

Dog

Kobondo (near Kapamba?)
Belgian Congo

1914

F. Harker (mission de Prospection)
says ticks scarce, has examined
many goats & sheep with negative
result.) See his letter.
G.H.F.N. det.

N 2772

N 2772

Haemaphysalis leporis - palustris
(Packard, 1867) 10 ♂, 12 ♀

RML 111677

7 ♂, 12 ♀, 3 N Haemaphysalis
leporispalustrisLepus auduboniSylvilagus audubonii

San Francisco, California

San Francisco (37.48 N, 122.24 W),
California, U.S.A.

30.IV.1909

30.IV.1909

Dr. M. B. Mitzmain

Dr. M. B. Mitzmain

A ♂ was sent by C. Warburton to
L. O. Howard [Washington, D.C.]
who submitted it to N. Banks;
L.O.H. cites Banks' opinion
[30.IV.1913]: "We have no ♂ of
H. leporis - palustris which has
the angles as prominent as those
you send.... I think it is hardly
a good variety." The species
clearly varies. (letter destroyed).
G.H.F.N.Cited: Nuttall & Warburton (1915:
394) who listed the collection
as containing only 12 ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2773	N	2773 MISSING
	<p><u>Amblyomma variegatum</u> N's</p> <p>Calf</p> <p>Sicoma Isl., Lake Nyasa, Nyasaland</p> <p>VII.1913</p> <p>Wm. C. Wigan (Luddesdown, Gravesend)</p> <p>(Nutt. det.).</p>		
N	2774	N	2774
	<p><u>Amblyomma ovale</u> 7 σ, 5 φ</p> <p>Jaguar</p> <p>Shot near Villa de San Pedro, Chaco, Paraguay</p> <p>12.XII.1913</p> <p>Sent by Dr. L. E. Migone (Asunción, Paraguay 8.IV.1914)</p> <p>(L.E.R. det.)</p>	RML	<p>111678</p> <p>6 σ, 5 φ <u>Amblyomma ovale</u></p> <p><u>Felis onca</u></p> <p>Shot near Villa de San Pedro, Gran Chaco (23.00 S, 60.00 W), Paraguay</p> <p>12.XII.1913</p> <p>Sent by Dr. L. E. Migone</p> <p>Cited and σ figured: Robinson (1926: 26).</p>
N	2775	N	2775 MISSING
	<p><u>Amblyomma</u> sp. 1 φ (replete)</p> <p>Hunting dog</p> <p>Villa de San Pedro, Chaco, Paraguay</p> <p>II.1914</p> <p>Sent by Dr. L. E. Migone (Asunción, Paraguay, 8.IV.1914).</p>		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2776	N	2776
		RML	111679
	<u>Ixodes hexagonus</u> var. <u>cookei</u> 1 ♀ (replete)		1 ♀ <u>Ixodes rugosus</u>
	Dog		Dog
	Mt. Lehman, B. C., Canada		Mt. Lehman (49.07 N, 122.23 W), British Columbia, Canada
	4.V.1914		4.V.1914
	Gift of S. Hadwen, Agasiz, B.C.		Gift of S. Hadwen, Agasiz, B.C.
	Nutt. & Warb. det. 26.V.14.		Cited: Nuttall (1916: 328).
N	2777	N	2777
		RML	111680
	<u>Ixodes ricinus</u> N and L		1 N, 21 L <u>Ixodes ricinus</u>
	Dead grouse		Grouse, dead
	Scotland		Scotland
	Rec'd. by Dr. A. E. Shipley 22.V.1914 who brought them in to be det'd		Rec'd. by Dr. A. E. Shipley 22.V.1914 who brought them in to be det'd
	(Nuttall det.)		Cited: Nuttall (1916: 331).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2778	N	2778
		RML	111681
	<u>Haemaphysalis concinna</u> larvae, unfed		1 N, 38 L <u>Haemaphysalis concinna</u>
	No data		No data
	Raised in Paris		Raised in Paris (48.52 N, 02.20 E), France
	Dr. E. Brumpt		Dr. E. Brumpt
	Brumpt's No. 28		Cited: Nuttall & Warburton (1915: 457).
	[See entry before N. 2752]		
	Figured for book on ticks.		
N	2779	N	2779
		RML	111682
	<u>Haemaphysalis inermis</u> nymphal skins		4 N skins <u>Haemaphysalis inermis</u>
	From specimens raised by Dr. E. Brumpt		From specimens raised by Dr. E. Brumpt
	Paris		Paris (48.52 N, 02.20 E), France
	No data		No data
	Brumpt's No. 33		
	[See foregoing].		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2780

Haemaphysalis cinnabarina
♀'s (replete)

Sheep

Lydd, Kent

Rec'd. alive 25.V.1914

W. F. Cooper

Some preserved, others to use for
raising (Nutt. det.)Raised in Cambridge, placed in
4 tubes containing: (a) larvæ,
unfed, (b) larvae, gorged on ram
1914, (c) nymphs, unfed, (d) ♀'s
after ovipositing. All put with
immature stages in cabinet.

N 2781

Boophilus australis ca 20 ♀, 2 N

Cattle

Samarai, Papua

30.VIII.1913

G. C. Eichhorn

(Rec'd. 1.VI.1914 his address-
Sariba, Samarai, Papua).

N 2780

RML 111683

6 vials of Haemaphysalis punctata
as follows: 10 ♀; 13 ♀; 7 N;
170 N; 7 L; + 250 L.

Sheep

Parent ♀'s from Lydd (50.57 N,
00.55 E), subsequent generations
reared in Cambridge (52.13 N,
00.08 E), England

Rec'd. alive 25.V.1914

W. F. Cooper

Cited: Nuttall & Warburton
(1915: 384).

N 2781

RML 111684

21 ♀, 2 N Boophilus microplus

Cattle

Samarai (10.37 S, 150.40 E),
Papua, New Guinea

30.VIII.1914

G. C. Eichhorn

ORIGINAL DETERMINATIONCURRENT STATUS

N 2782

N 2782

RML 111685

Boophilus australis ♀'s34 ♀ Boophilus microplus

Cattle

Cattle

Sariba Island, 3 miles from
Samarai, PapuaSariba Island, 3 miles from
Samarai (10.37 S, 150.40 E),
Papua, New Guinea

11-14.XII.1913

11-14.XII.1913

G. C. Eichhorn

G. C. Eichhorn

(Rec'd. 1.VI.1914).

Ticks retained for our collection from the consignment sent for determination by the Königl. Zoologische Museum (per Prof. Dr Dahl), Berlin N4, Germany.

N 2783

N 2783 MISSING

Ornithodoros moubata

From Askari (native) huts

Ussuwi, German East Africa

Dr Neubert

Berlin Mus. No. 1279/1913.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2784	N	2784
		RML	111686
	<u>Dermacentor rhinocerotis</u> 2 ♂		2 ♂ <u>Dermacentor rhinocerinus</u>
	Rhinoceros		<u>Diceros bicornis</u>
	Karagwe, Njkwenda, German East Africa		Karagwe District (01.30 S, 31.00 E), Tanzania
	3.I.1912		3.I.1912
	Dr Neubert		Dr Neubert
	Berlin Mus. No. 1159/1913.		
N	2785	N	2785
		RML	111687
	<u>Amblyomma petersi</u> 3 ♂		2 ♂ <u>Amblyomma rhinocerotis</u>
	Rhinoceros		<u>Diceros bicornis</u>
	Karagwe, Njkwenda, German East Africa		Karagwe District (01.30 S, 31.00 E), Tanzania
	3.I.1912		3.I.1912
	Dr Neubert		Dr Neubert
	Berlin Mus. No. 1159/1912.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2786	N	2786
		RML	105562
	<u>Rhipicephalus capensis</u> ♂, ♀		2 ♂, 2 ♀ <u>Rhipicephalus compositus</u>
	Sumpfböck		<u>Tragelaphus spekei</u>
	Kigarama, German East Africa		Either Kigarama (01.04 S, 31.45 E), or (01.23 S, 30.48 E), Tanzania
	19.II.1912		19.II.1912
	Dr Neubert		Dr Neubert
	Berlin Mus. No. 1159/1913.		
N	2787	N	2787
		RML	111688
	<u>Aponomma exornatum</u> 6 ♂, 2 ♀, 1 N		6 ♂, 1 ♀ <u>Aponomma exornatum</u>
	Off ?		Off ?
	Daressalam, Tangani & Hinterland, German East Africa		Dar es Salaam (06.48 S, 39. 17 E), Tanzania
	? date		? date
	R. Regner		R. Regner
	Berlin Mus. No. 1030/09.		
N	2788	N	2788
		RML	111689
	<u>Rhipicephalus simus</u> 4 ♂, 4 ♀		4 ♂, 4 ♀ <u>Rhipicephalus jeanneli</u>
	Buffalo		<u>Syncerus caffer</u>
	Kissenji, German East Africa		Kissenji, Tanzania (locality not verified)
	II-XI.1908		II-XI.1908
	v. Stegmann & Stein		v. Stegmann & Stein
	Berlin Mus. No. 1496/09.		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	2789	N	2789
		RML	105783
	<u>Rhipicephalus simus</u> 8 ♂, 6 ♀		6 ♂, 5 ♀ <u>Rhipicephalus simus</u> 3 ♂, 2 ♀ <u>Rhipicephalus reichenowi</u> 1 ♀ <u>Rhipicephalus punctatus</u>
	Porcupine		<u>Hystrix</u> sp. or <u>Atherurus</u> sp.
	Mikesse, Bezirk Morogoro, German East Africa		Mikese (06.46 S, 37.54 E), Morogoro Region, Tanzania
	? date		? date
	Dr W. Fanensch		Dr W. Fanensch
N	2790	N	2790 MISSING
	<u>Haemaphysalis leachi</u> 6 ♂, 2 ♀		
	Civet-cat		
	Usumbura, Central Africa		
	15.XI.1907		
	v. Stegmann & Stein		
	Berlin Mus. No. 1496/09.		
N	2791	N	2791
		RML	111690
	<u>Rhipicephalus complanatus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus complanatus</u>
	<u>Potamochoerus</u> sp.		<u>Potamochoerus porcus</u>
	Amani, German East Africa		Amani (05.06 S, 38.38 E), Tanzania
	8.VI.1904		8.VI.1904
	Prof. Vosseler		Prof. Vosseler
	Berlin Mus. No. 1417/08.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2792	N	2792
		RML	111691
	<u>Rhipicephalus neavei</u> 4 ♂, 4 ♀		1 ♂, 1 ♀ <u>Rhipicephalus kochi</u> 3 ♂, 3 ♀ <u>Rhipicephalus pravus</u>
	Kudu		<u>Tragelaphus strepsiceros</u> or <u>Tragelaphus imberbis</u>
	Kilimatinde, German East Africa		Kilimatinde (05.51 S, 34.57 E), Tanzania
	VII.1908		VII.1908
	Dr Claus		Dr Claus
	Berlin Mus. No. 1417/08 (Turu Expedition).		
N	2793	N	2793
		RML	105657
	<u>Rhipicephalus kochi</u> ♂ & ♀		1 ♂, 1 ♀ <u>Rhipicephalus jeanneli</u>
	Off ?		Off ?
	Found at the "Fuss der Hochweiden" am Bismarkhügel oberhalb Maranga, südlich von Mawensi (3000-2500 meters) Kilimandscharo, German East Africa		Mawensi cone (03.06 S, 37.27 E), (3000-2500 m) Mt. Kilimanjaro (03.04 S, 37.22 E), Tanzania
	II.1912		II.1912
	Dr Chr. Schröder		Dr Chr. Schröder
	Berlin Mus. No. 1204/1912.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2794	N	2794
		RML	111692
	<u>Ixodes ugandanus djaronensis</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Ixodes lewisi</u>
	Schira		Schira (name not verified)
	Kilimandscharo, German East Africa		Mt. Kilimanjaro (03.04 S, 37.22 E), Tanzania
	3.V.1907		3.V.1907
	Dr E. H. Förster		Dr E. H. Förster
	Berlin Mus. No. 1325/04.		Cited: Nuttall (1916: 334).
N	2795	N	2795 MISSING
	<u>Haemaphysalis leachi</u> 2 ♂, 1 ♀ (small!)		
	Squirrel (<u>Anomalurus orientalis</u>)		
	Amani, German East Africa		
	X.1907		
	Prof. Vosseler		
	Berlin Mus. No. 1417/08.		
N	2796	N	2796
		RML	111693
	<u>Rhipicephalus falcatus</u> 2 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus pravus</u> 1 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Off ?		Off ?
	Usuisa, German East Africa		Usuisa, Tanzania (locality not verified)
	IV.1912		IV.1912
	Lieut Diesener		Lieut Diesener
	Berlin Mus. No. 1237/1912.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2797

Amblyomma marmoreum 4 ♂'s

Yellow land tortoise

Bagamoyo, German East Africa

6.VI.1908

Prof. Vosseler

Berlin Mus. No. 1417/08.

N 2797

RML 111694

4 ♂ Amblyomma nuttalli

Tortoise, yellow land

Bagamoyo, Tanzania (locality not verified; 11 possible localities)

6.VI.1908

Prof. Vosseler

Santos Dias (1958: 513)
incorrectly gave this collection
Nuttall number 2497.

N 2798

Rhipicephalus lunulatus 2 ♂, 1 ♀

"Flusschwein"

Alsamwialager

? date

Capt. Fromm

No Berlin Mus. No.

N 2798

RML 111695

2 ♂, 1 ♀ Rhipicephalus lunulatusPotamochoerus porcusAlsamwialager, Africa
(locality not verified)

? date

Capt. Fromm

ORIGINAL DETERMINATIONCURRENT STATUS

N	2799	N	2799
		RML	111696
	<u>Ixodes putus</u> 1 N		1 N <u>Ixodes uriae</u>
	From ground, off <u>Eudytes</u> (?)		From ground, off <u>Eudytes</u> sp. (?)
	Kerguelen		Kerguelen Island (49.30 S, 69.30 E)
	Deutsches Tiefsee Expedition, 1898-1899		Deutsches Tiefsee Expedition, 1898-1899
	No Berlin Mus. No.		Cited: Nuttall (1916: 330).
N	2800	N	2800
		RML	111697
	<u>Rhipicephalus complanatus</u> 6 ♂'s		6 ♂ <u>Rhipicephalus complanatus</u>
	"Flusschwein"		<u>Potamochoerus porcus</u>
	Msamwia-Lager		Msamwia-Lager, Africa (locality not verified)
	? date		? date
	Capt. Fromm		Capt. Fromm
	No Berlin Mus. No.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2801	N	2801
		RML	111698
	<u>Rhipicephalus neavei</u> 1 ♂, 1 ♀		1 ♂ <u>Rhipicephalus kochi</u>
	Off ?		Off ?
	Kisenje Niundo, Ruanda		Possibly Nindo (01.23 S, 29.43 E), Rwanda
	1906		1906
	No Berlin Mus. No.		
N	2802	N	2802
		RML	111699
	<u>Amblyomma splendidum</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Amblyomma splendidum</u>
	Buffalo		<u>Syncerus caffer</u>
	Mougang		Mougang, Africa
	25.III.1912		25.III.1912
	Dr. L. Waibel		Dr. L. Waibel
	Berlin Mus. No. 894/1912		Note in vial - "Probably Kamorun not G.E. Africa" - L.E.R.
			Vial label reads G.E. Africa but <u>A. splendidum</u> is not found in Tanzania. I have been unable to find the locality Mougang in Cameroon. - J.E.K.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2803	N	2803
	<u>Ixodes rasmus</u> 2 ♀	RML	111700
	"Schuppentier" (?)		1 ♀ <u>Ixodes rasmus</u>
	Lolodorf		<u>Manis</u> sp. (?)
	29.III.1907		Lolodorf (03.14 N, 10.44 E), Cameroon
	Berlin Mus. No. 1600/07		29.III.1907
			Cited: Nuttall (1916: 331).
N	2804	N	2804
	<u>Rhipicephalus complanatus</u> 2 ♂, 3 ♀	RML	111701
	Wild pigs		2 ♂, 3 ♀ <u>Rhipicephalus complanatus</u>
	Kamerun, German S. W. Africa		<u>Sus scrofa</u>
	? date		Cameroon
	Dr. Schäfer		? date
	Berlin Mus. No. 604/1910		Dr. Schäfer
N	2805	N	2805
	<u>Rhipicephalus sanguineus</u> 2 ♂, 2 ♀	RML	111702
	Leopard		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Lagdo Berge, Lake Chad		<u>Panthera pardus</u>
	25.VI.1909		Lagdo Berge, Lake Chad (13.20 N, 14.00 E), Chad
	Riggenbash		25.VI.1909
	Berlin Mus. No. 1040/09		Riggenbash

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2806	N	2806
	<u>Rhipicephalus simus</u> 1 ♂	RML	111703
	Leopard		1 ♂ <u>Rhipicephalus simus</u>
	Lagdo Berge, Lake Chad		<u>Panthera pardus</u>
	25.VI.1909		Lagdo Berge, Lake Chad (13.20 N, 14.00 E), Chad
	Riggenbash		25.VI.1909
	Berlin Mus. No. 1040/09		Riggenbash
N	2807	N	2807
	<u>Rhipicephalus lunulatus</u> 2 ♂, 2 ♀	RML	111704
	Off ?		2 ♂, 2 ♀ <u>Rhipicephalus lunulatus</u>
	Yako		Off ?
	10.V.1912		Possibly Yako (12.58 N, 02.15 W), Upper Volta
	Dr. L. Waibel & Prof. Thorbecke		10.V.1912
	Berlin Mus. No. 204/1913		Dr. L. Waibel & Prof. Thorbecke
N	2808	N	2808 MISSING
	<u>Amblyomma varium</u> 2 ♂, 1 ♀		
	Sloth		
	David, Panama, Central America		
	11.XI.1911		
	O. Garlepp		
	Berlin Mus. No. 1327/		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2809	N	2809 MISSING
	<u>Rhipicephalus sanguineus</u> 3 ♂, 3 ♀		
	Dog		
	Paramaribo, Surinam, Dutch Guiana, S. America		
	1.VI.1908		
	Heller		
	Berlin Mus. No. 784/08		
N	2810	N	2810
	<u>Ixodes boliviensis</u> 1 ♀	RML	111705
	"Pisote"		1 ♀ <u>Ixodes boliviensis</u>
	Foot of Turrialba (1,600 metres) E. of Cartago, Costa Rica la Trinidad, S. America		<u>Nasua narica</u>
	Garlepp		Foot of Volcan Turrialba (10.02 N, 83.46 W), Costa Rica (1,600 m).
	Berlin Mus. No. 592/1913		O. Garlepp
			Cited: Nuttall (1916: 325).
N	2811	N	2811
	<u>Ixodes bicornis</u> 1 ♀	RML	111706
	<u>Nasua narica</u>		1 ♀ <u>Ixodes boliviensis</u>
	Foot of Turrialba (1,600 m.), E. of Cartago, Costa Rica la Trinidad, S. America		<u>Nasua narica</u>
	Garlepp		Foot of Volcan Turrialba (10.02 N, 83.46 W), Costa Rica (1,600 m.)
	Berlin Mus. No. 619/13		O. Garlepp
			Cited: Nuttall (1916: 325) with Berlin Mus. No. 619/1913.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2812	N	2812
		RML	111707
	<u>Ixodes bicornis</u> 9 ♀		9 ♀ <u>Ixodes boliviensis</u>
	Stag		<u>Odocoileus virginianus</u> or <u>Mazama</u> sp.
	Foot of Turrialba (1,600 m.), E. of Cartago, Costa Rica la Trinidad, S. America		Foot of Volcan Turrialba (10.02 N, 83.46 W), Costa Rica
	Garlepp		O. Garlepp
	Berlin Mus. No. 592/1913.		Cited: Nuttall (1916: 325).
N	2813	N	2813
		RML	111708
	<u>Ixodes boliviensis</u> 1 ♀		1 ♀ <u>Ixodes boliviensis</u>
	Mapatsching		Mapatsching [<u>Procyon lotor</u>]
	Foot of Turrialba (1,600 m.), E. of Cartago, Costa Rica la Trinidad, S. America		Foot of Volcan Turrialba (10.02 N, 83.46 W), Costa Rica (1,600 m.)
	Garlepp		O. Garlepp
	Berlin Mus. No. 592/1913.		Cited: Nuttall (1916: 325).
N	2814	N	2814 MISSING
	<u>Rhipicephalus sanguineus</u> 5 ♂, 5 ♀		
	Dog		
	Amping, Formosa		
	VII.1910		
	H. Sauter		
	Berlin Mus. No. 672/1911.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2815

Ixodes canisuga 6 ♀'s

Young foxes

Näüen, Germany

? date

Geh-Rat Cohn

No. Berlin Mus. No.

N 2815

RML 111709

6 ♀ Ixodes canisugaVulpes vulpesNäüen (51.59 N, 10.14 E), Federal
Republic of Germany

? date

Geh-Rat Cohn

Cited: Nuttall (1916: 326).

N 2816

Haemaphysalis obtusa 1 ♂
(TYPE!)

Off

Island of Réunion, Indian Ocean

No other data

No Berlin Mus. No.

N 2816

RML 111710

1 ♂ Haemaphysalis obtusa
SYNTYPE

Off

Réunion Island (48.27 S, 68.48 E)

Dönitz (1910a: 492) original description.
Cited: Nuttall & Warburton (1915: 477);
Hoogstraal (1953: 42).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2817	N	2817 MISSING
	<u>Rhipicephalus sanguineus</u> 3 ♂, 3 ♀		
	Gazelle		
	Sendschirli am Amanus (Jiaur Dagli), Zwischen Aleppo and Marasch (500 m. elev.), Asiatic Turkey		
	? Date		
	Frau v. Luschan		
	Berlin Mus. No. 152/1912		
N	2818	N	2818
		RML	111711
	<u>Hyalomma syriacum</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Hyalomma aegyptium</u>
	<u>Testudo graeca</u>		<u>Testudo graeca</u>
	Olympia, Greece		Olympus (38.55 N, 24.31 E), Greece
	? Date		? Date
	Dr. E. Moll		Dr. E. Moll
	Berlin Mus. No. 1198/10.		
N	2819	N	2819 MISSING
	<u>Haemaphysalis leachi</u> 2 ♂, 1 ♀		
	<u>Herpestes</u> sp.		
	Eritrea, Abyssinia		
	5.III.1913		
	Dr. Klatt		
	Berlin Mus. No. 676/1913.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2820

N 2820

RML 111712

Rhipicephalus complanatus 3 ♂, 1 ♀
[O-TYPE!]3 ♂, 1 ♀ Rhipicephalus complanatus

"Pinselohrschwein"

Potamochoerus porcus

Molundu, Africa

Probably Molundu, now Moloundou
(02.02 N, 15.13 E), Cameroon

I.1910

I.1910

No. Berlin Mus. No.

Compared 18.VI.1914 with type ♂
No. 1722 in Neumann collection
with which it fully agrees.Nuttall's 0-type was a specimen which
had been compared to a type of a
species. The ♂ is in a separate
small vial.

N 2821

N 2821

RML 111713

Amblyomma ovale Koch, 1844 1 ♂, 1 ♀1 ♂, 1 ♀ Amblyomma ovale

"Ixod 6328"

"Ixod 6328"

S. America

S. America

No other data

No other data

No Berlin Mus. No.

L.E.R. det. 1926.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2822

N 2822

RML 76103

Haemaphysalis parva 3 ♂, 1 ♀3 ♂, 1 ♀ Haemaphysalis intermedia

"Ähnlich der H. neumanni aber ♂ viel kleiner, nur 4 Reihen Zähne bei ♂ & ♀. Coll. Scholde. Fundort unbekannt. (Dönitz label)"

"Similar to H. neumanni but ♂ much smaller, only 4 rows of teeth in ♂ & ♀. Coll. Scholde. Locality unknown (Dönitz label)"

No Berlin Mus. No.

A cotype label for H. parva is in the vial but these do not appear to be syntypes - see N2889.

Cited: Hoogstraal & Trapido (1963b: 838).

N 2823

N 2823

RML 111714

Aponomma exornatum 1 ♂1 ♂ Aponomma trimaculatumVaranus sp.Varanus sp.

Manila, Philippine Islands

Manila (14.35 N, 121.00 E), Philippines

4.IV.1906

4.IV.1906

No Berlin Mus. No.

N 2824

N 2824

RML 111715

Rhipicephalus longicoxatus
1 ♂, 1 ♀1 ♂, 1 ♀ Rhipicephalus muehlensi

Giraffe

Giraffa camelopardalis

Negero, Africa

Probably Negero (05.46 S, 37.48 E), Tanzania

15/6 No other data

15/6 No other data

Dönitz

Corrected 11.XI.35 G.H.F.N.
(C.W. re-det.)

ORIGINAL DETERMINATIONCURRENT STATUS

N	2825, a	N	2825, a
		RML	111716
	(2825) <u>Rhipicephalus ziemanni</u> 4 ♂, 4 ♀		(2825) 2 ♂, 4 ♀ <u>Rhipicephalus jeanneli</u>
	(a) <u>Rhipicephalus longicoxatus</u>		(a) 2 ♂ <u>Rhipicephalus muehlensi</u>
	<u>Strepsiceros kudu</u>		<u>Tragelaphus strepsiceros</u>
	Irangi, Africa		Kondoa Irangi, now Kondoa (04.54 S, 35.47 E), Tanzania
	"Rhip. ohne Randfurche nicht <u>excinctus</u> und nicht <u>kochi</u> " (Donitz's label) "261".		Locality on vial label - Kondoa Irangi
N	2826	N	2826
		RML	111717
	<u>Rhipicephalus complanatus</u> 4 ♂, 4 ♀		4 ♂, 4 ♀ <u>Rhipicephalus complanatus</u>
	"Pinselohrschwein"		<u>Potamochoerus porcus</u>
	Molundu, Haberer		Probably Molundu, now Moloundou (02.02 N, 15.13 E), Cameroon
	No other data.		No other data.
	No Berlin Mus. No.		
N	2827	N	2827
		RML	111718
	<u>Dermacentor auratus</u> 1 ♀		1 ♀ <u>Dermacentor auratus</u>
	Dog		Dog
	Deli, Sumatra, Dutch East Indies		Labuhandeli (03.45 N, 98.41 E), Indonesia
	IIIe. No other data		IIIe. No other data
	No Berlin Mus. No.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2828
Hyalomma aegyptium 4 ♂, 1 ♀
 Buffalo
 Gore, Neu-Kamerun, German
 S.W. Africa
 XII.1912
 Dr. Houy
 Berlin Mus. No. 823/1913.

N 2828 MISSING

N 2829
Amblyomma variegatum 2 ♂
 Buffalo
 Gore, Neu-Kamerun, German
 S.W. Africa
 XII.1912
 Dr. Houy
 Berlin Mus. No. 823/1913.

N 2829 MISSING

N 2830
Rhipicephalus simus 1 ♂
 Buffalo
 Gore, Neu-Kamerun, German
 S. W. Africa
 XII.1912
 Dr. Houy
 Berlin Mus. No. 823/1913.

N 2830
 RML 111719
 1 ♂ Rhipicephalus muhsamae
Syncerus caffer
 Perhaps Gore, Hosere (09.11 N,
 13.52 E), Cameroon
 XII.1912
 Dr. Houy

ORIGINAL DETERMINATIONCURRENT STATUS

N 2831

N 2831 MISSING

Ornithodoros moubataAus Gros-Namaland, Deutsch
S. W. Africa

1912

Dr. Trommsdorff

No. Berlin Mus. No.

N 2832

N 2832

RML 111720

Haemaphysalis spinigera var.
novae-guineae 5 ♂, 5 ♀
(S. Hirst, VI.1915), N & W. 19145 ♂, 5 ♀ Haemaphysalis novaeguineae

Kangaroo

Kangaroo

Northern Territory, Queensland
AustraliaNorthern Territory, Queensland,
Australia

No date

No date

Dr. Georgina Sweet

Dr. Georgina Sweet

ex. tube 463.

Georgina Sweet died 1.I.1946, former
Associate Professor of Zoology,
University of Melbourne and first
woman in Australia to take the degree
of Doctor of Science.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2833	N	2833
		RML	111721
	<u>Haemaphysalis chordeilis</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Haemaphysalis chordeilis</u>
	Meadow lark (<u>Sturnella magna</u>)		<u>Sturnella magna</u>
	Victoria, Texas, U.S.A.		Eastern Victoria County (28.48 N, 97.00 W), Texas, U.S.A.
	1909		15.XI.1909
	(Bishopp (Acc. 888))		J. D. Mitchell
			Cited: Nuttall & Warburton (1915: 377).
			Collection data from Bishopp accession card 888.
N	2834	N	2834
		RML	111722
	<u>Haemaphysalis chordeilis</u> 1 ♀		1 ♀ <u>Haemaphysalis chordeilis</u>
	Meadow lark (<u>Sturnella magna</u>)		<u>Sturnella magna</u>
	Victoria, Texas, U.S.A.		Victoria County (28.48 N, 97.00 W), Texas, U.S.A.
	12.XI.1909		12.XI.1909
	(Bishopp acc. 886)		J. D. Mitchell
	[Lots 2833 & 2834 rec'd. from		Cited: Nuttall & Warburton (1915: 377)
	Mr. F. C. Bishopp, Dallas,		Collection data from Bishopp
	Texas, U.S.A., 2.VI.1914]		Accession card 886.

Ticks received back from the Imperial Bureau of Entomology (ex. Report No. 34), London, S.W., 5 June, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2835	N	2835
		RML	111723
	<u>Rhipicephalus kochi</u> 2 ♂, 2 ♀		3 ♂, 1 ♀ <u>Rhipicephalus jeanneli</u>
	Cattle		Cattle
	Mau, Narok, Masai Reserve, B. E. Africa		Mau (00.10 S, 35.41 E), Kenya
	20.I.1914		20.I.1914
	Captain A. O. Luckman		Captain A. O. Luckman
	I.B.E. No. 842.		
N	2836	N	2836 MISSING
	<u>Haemaphysalis leachi</u> ♂'s, ♀'s		
	Dogs		
	Mau, Narok, Masai Reserve, B. E. Africa		
	15.I.1914		
	Captain A. O. Luckman		
	I.B.E. No. 844.		
N	2837	N	2837
		RML	111724
	<u>Rhipicephalus capensis</u> ♂'s, ♀'s		4 ♂, 4 ♀ <u>Rhipicephalus jeanneli</u>
	Cattle		Cattle
	Mau, Narok, Masai Reserve,		Mau (00.10 S, 35.41 E), Kenya
	20.I.1914		20.I.1914
	Capt. A. O. Luckman		Capt. A. O. Luckman
	I.B.E. No. 848.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2838	N	2838
		RML	111725
	<u>Rhipicephalus capensis</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Rhipicephalus jeanneli</u>
	Cattle		Cattle
	Mau, Narok, Masai Reserve, B. E. Africa		Mau (00.10 S, 35.41 E), Kenya
	20.I.1914		20.I.1914
	Capt. A. O. Luckman		Capt. A. O. Luckman
	I.B.E. No. 849.		
N	2839	N	2839 MISSING
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		
	Dogs		
	S.W. of Lake Chilwa, Nyasaland, B.C. Africa		
	I.1914		
	S. A. Neave		
	I.B.E. No. 852.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2840

N 2840

Rhipicephalus simus ♂'s, ♀'s

RML 111726

2 ♂, 2 ♀ Rhipicephalus simus

Dogs

Dogs

S. W. of Lake Chilwa, Nyasaland,
B. C. AfricaS. W. of Lake Chilwa (15.12 S,
35.50 E), Malawi

I.1914

I.1914

S. A. Neave

S. A. Neave

I.B.E. No. 853.

Note in vial "1 ♂, 1 ♀ removed
Cooley"1 ♂, 1 ♀ to Prof. R. A. Cooley,
Montana V.1928.1 ♂, 1 ♀ to Prof. R. Matheson
Cornell, 27.V.1929.1 ♂, 1 ♀ to Dr. A. C. Reed,
San Francisco 30.V.1929.1 ♂, 1 ♀ to Prof. J. Drbohlav,
Prague 30.V.1929.

N 2841

N 2841

Haemaphysalis leachi ♂'s, ♀'s

RML 111727

7 ♂, 3 ♀ Haemaphysalis leachi

Dogs

Dogs

S. W. of Lake Chilwa, Nyasaland,
B. C. AfricaS. W. of Lake Chilwa (15.12 S,
35.50 E), Malawi

I.1914

I.1914

S. A. Neave

S. A. Neave

I.B.E. No. 854.

Cited: Nuttall & Warburton (1915: 472).

1 ♂, 1 ♀ to J. de Meza, Zomba,
Nyasaland 19.II.1916.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2842

Rhipicephalus lunulatus ♂'s

Dogs

S. W. of Lake Chilwa, Nyasaland,
B. C. Africa

I.1914

S. A. Neave

I.B.E. No. 854b.

N 2842

RML 111728

6 ♂, 2 ♀ Rhipicephalus lunulatus

Dogs

S. W. of Lake Chilwa (15.12 S,
35.50 E), Malawi

I.1914

S. A. Neave

N 2843

Rhipicephalus sanguineus var.
sulcatus 2 ♂, 1 ♀

"Oribi"

Plains S.W. of Lake Chilwa

I.B.E. No. 855.

N 2843

RML 111729

2 ♂, 1 ♀ Rhipicephalus sanguineusOuribia ourebiPlains S.W. of Lake Chilwa (15.12 S,
35.50 E), Malawi

I.1914

S. A. Neave

Date and collector on vial label.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2844	N	2844
		RML	111730
	<u>Ixodes pilosus</u> 1 ♀		1 ♀ <u>Ixodes lewisi</u>
	Reedbuck		<u>Redunca arundinum</u> or <u>R. fulvorufula</u>
	Plains S.W. of Lake Chilwa		Plains S.W. of Lake Chilwa (15.12 S, 35.50 E), Malawi
			I. 1914
			S. A. Neave
	I.B.E. No. 856		Date and collector on vial label and given by Nuttall (1916: 330).
N	2845	N	2845 MISSING
	<u>Boophilus australis</u> 2 ♂, 3 ♀, N's		
	Indian calf		
	Pusin Island, Zanzibar		
	IX.1913		
	Dr. W. M. Aders		
	I.B.E. No. 869.		
N	2846	N	2846
		RML	111731
	<u>Haemaphysalis bispinosa</u> ♂'s		6 ♂ <u>Haemaphysalis bispinosa</u>
	Imported Indian (Bombay) cows		Cows, imported from Bombay, India
	Zanzibar		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	2.IX.1913		2.IX.1913
	Dr. W. M. Aders		Dr. W. M. Aders
	I.B.E. No. 870.		Cited: Nuttall & Warburton (1915: 433).

Ticks received back from the Imperial Bureau of Entomology (per Guy A. K. Marshall, Esq.), London S.W., 11 June, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2847	N	2847
		RML	95816
	<u>Haemaphysalis hoodi</u> var. <u>orientalis</u> Nutt. & Warb., 1914 1 ♀		2 ♂, 1 ♀ <u>Haemaphysalis orientalis</u> Lectotype and paralectotypes
	<u>Procavia manningi</u> Wroughton		<u>Heterohyrax brucei manningi</u>
	S.W. Shore of Lake Nyasa, B.C. Africa		S.W. Shore of Lake Malawi (12.00 S, 34.30 E), Malawi
	III.1910		III.1910
	S. A. Neave		S. A. Neave
	I.B.E. No. 66a.		Nuttall & Warburton (1915: 485), original description. Hoogstraal (1956b: 161) raised <u>H. orientalis</u> to specific rank. Lectotype design- ated: Keirans & Brewster (1981: 161).
N	2848	N	2848
		RML	95816
	<u>Haemaphysalis hoodi</u> var. <u>orientalis</u> N. & W., 1914 2 ♂, 1 ♀ TYPES		3 ♂, 2 ♀ <u>Haemaphysalis orientalis</u> Paralectotypes
	<u>Procavia manningi</u> Wroughton		<u>Heterohyrax brucei manningi</u>
	S.W. Shore of Lake Nyasa, B.C. Africa		S.W. Shore of Lake Malawi (12.00 S, 34.30 E), Malawi
	III.1910		III.1910
	S. A. Neave		S. A. Neave
	I.B.E. No.69.		Nuttall & Warburton (1915: 486), original description. Hoogstraal (1956b: 161) raised <u>H. orientalis</u> to specific rank. Paralectotypes designated: Keirans & Brewster (1981: 161).
			1 ♂ and 1 ♀ hypostome are mounted on slides.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2849	N	2849
		RML	111732
	<u>Argas persicus</u> 2 specimens		1 ♂, 1 ♀ <u>Argas persicus</u>
	Elizabethville, Belgian Congo, Central Africa		Elisabethville (11.40 S, 27.28 E), Zaire
	1914		1914
	Dr. Pulieri		Dr. Pulieri
	[Rec'd. from Professor G. Severin, Musée Royal d'Histoire Naturelle de Belgique, Bruxelles, 12 June 1914.]		Guillaume Severin (1862-1938) Honorary conservator of the Entomological Section, Royal Museum of Natural History of Belgium. He died suddenly of an embolism while he was determining some insects captured by him the day before.
N	2850	N	2850 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		
	Dog (Fox-terrier)		
	Mhow, Central India		
	5.VI.1914		
	Rec'd. from Major T. W. Rudd, A.V.C., Station Veterinary Hospital, Mhow, 22 June 1914.		

Thirteen tubes of ticks received from Dr. Jijournaut, Institut Pasteur
Morocain, Tangier, Morocco, North Africa, 22 June, 1914:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2851, a	N	2851, a
		RML	111733
	(2851) <u>Rhipicephalus bursa</u> ♂'s, ♀'s (a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(2851) 7 ♂, 15 ♀ <u>Rhipicephalus bursa</u> (a) 9 ♂, 4 ♀ <u>Hyalomma marginatum</u>
	Horses		Horses
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	VI.1914		VI.1914
	Rec'd. from Dr. J. Jijournaut		Rec'd. from Dr. J. Jijournaut
N	2852, a	N	2852, a
		RML	111734
	(2852) <u>Hyalomma aegyptium</u> ♂'s, ♀'s (a) <u>Rhipicephalus bursa</u> 1 ♀		(2852) 18 ♂, 13 ♀ <u>Hyalomma marginatum</u> (a) 1 ♀ <u>Rhipicephalus bursa</u>
	Horse		Horse
	Casablanca		Casablanca (33.37 N, 07.35 W), Morocco
	V.1914		V.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2853, a	N	2853, a
		RML	111735
	(2853) <u>Hyalomma aegyptium</u> ♂'s (a) <u>Boophilus australis</u> 2 ♀		(2853) 11 ♂ <u>Hyalomma anatolicum</u> <u>excavatum</u> (a) 2 ♀ <u>Boophilus annulatus</u>
	Dog		Dog
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	IV.1914		IV.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut

ORIGINAL DETERMINATIONCURRENT STATUS

N	2854, a-c	N	2854, a, c
		RML	111736
	(2854) <u>Hyalomma aegyptium</u> 1 ♂, 3 ♀		(2854) 2 ♂, 2 ♀ <u>Hyalomma marginatum</u>
	(a) <u>Rhipicephalus bursa</u> 3 ♂, 4 ♀		(a) 3 ♂, 3 ♀ <u>Rhipicephalus bursa</u>
	(b) <u>Rhipicephalus sanguineus</u> 2 ♂, 3 ♀		(b) MISSING
	(c) <u>Rhipicephalus bursa</u> 1 ♂ (1 lost) with some approach to <u>R. sanguineus</u> C.W. det. 9.I.1915		(c) 1 ♂ <u>Rhipicephalus bursa</u>
	Pig		<u>Sus scrofa</u>
	Casablanca		Casablanca (33.37 N, 07.35 W), Morocco
	V.1914		V.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2855, a	N	2855, a
		RML	111737
	(2855) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(2855) 11 ♂, 5 ♀ <u>Hyalomma marginatum</u>
	(a) <u>Rhipicephalus bursa</u> 1 ♀		(a) 1 ♀ <u>Rhipicephalus bursa</u>
	Horse		Horse
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	IV.1914		IV.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2856	N	2856 MISSING
	<u>Rhipicephalus bursa</u> ♂'s, ♀'s		
	Sheep		
	Casablanca, Morocco		
	V.1914		
	Rec'd. from Dr. Jijournaut		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2857	N	2857
		RML	111738
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		36 ♂, 56 ♀ <u>Rhipicephalus sanguineus</u>
	Dogs		Dogs
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	V-VI.1914		V-VI.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2858	N	2858 MISSING
	<u>Rhipicephalus sanguineus</u> 1 ♂		
	Off ?		
	Tangier, Morocco		
	X.1913		
	Rec'd. from Dr. Jijournaut		
N	2859, a	N	2859, a
		RML	111739
	(2859) <u>Rhipicephalus bursa</u> ♂'s, ♀'s		(2859) 23 ♂, 20 ♀ <u>Rhipicephalus bursa</u>
	(a) <u>Hyalomma aegyptium</u> ♂, ♀		(a) 1 ♂, 1 ♀ <u>Hyalomma marginatum</u>
	Ox		Ox
	Casablanca		Casablanca (33.37 N, 07.35 W), Morocco
	V.1914		V.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut

ORIGINAL DETERMINATIONCURRENT STATUS

N	2860, a	N	2860, a
		RML	111740
	(2860) <u>Hyalomma aegyptium</u> 2 ♂, 3 ♀		(2860) 2 ♂, 3 ♀ <u>Hyalomma marginatum</u>
	(a) <u>Rhipicephalus bursa</u> 1 ♂, 3 ♀		(a) 1 ♂, 3 ♀ <u>Rhipicephalus bursa</u>
	Donkey		Donkey
	Casablanca		Casablanca (33.37 N, 07.35 W), Morocco
	V.1914		V.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut
N	2861	N	2861 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Camels		
	Casablanca, Morocco		
	IV.1914		
	Rec'd. from Dr. Jijournaut		
N	2862, a	N	2862, a
		RML	111741
	(2862) <u>Hyalomma aegyptium</u> 2 ♀		(2862) 2 ♀ <u>Hyalomma marginatum</u>
	(a) <u>Rhipicephalus bursa</u> 2 ♂		(a) 2 ♂ <u>Rhipicephalus bursa</u>
	Camels		<u>Camelus dromedarius</u>
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	VI.1914		VI.1914
	Rec'd. from Dr. Jijournaut		Rec'd. from Dr. Jijournaut

ORIGINAL DETERMINATIONCURRENT STATUS

N 2863, a-c

N 2863, a, c

RML 111742

(2863) Hyalomma aegyptium(2863) 27 ♂, 30 ♀ Hyalomma anatolicum excavatum(a) Boophilus annulatus(a) 1 ♂, 41 ♀ Boophilus annulatus(b) Rhipicephalus sanguineus

(b) MISSING

2 ♂, 4 ♀, 1 N

(c) Rhipicephalus bursa 2 ♂, 4 ♀(c) 2 ♂, 4 ♀ Rhipicephalus bursa

Cattle

Cattle

Tangier

Tangier (35.48 N, 05.48 W), Morocco

IV.1914

IV.1914

Rec'd. from Dr. Jijournaut

Rec'd. from Dr. Jijournaut

Ticks retained from specimens sent for determination by the Indian Museum (per Dr. Annandale), Calcutta, India, 22 June, 1914 (Chilka Survey):-

N 2864

N 2864

RML 71470

Haemaphysalis bispinosa ♂'s, ♀'s11♂, 3 ♀ Haemaphysalis intermediaViverricula malaccensis (Gmel.)Viverricula indica

Satpara, Puri District, Orissa, India

Satpara (19.39 N, 85.26 E), India

17.III.1914

17.III.1914

Dr. N. Annandale

Dr. N. Annandale

Indian Mus. No. $\frac{2140}{17}$

ORIGINAL DETERMINATIONCURRENT STATUS

N	2865	N	2865
		RML	72830
	<u>Haemaphysalis parva</u> 1 ♂, 2 ♀		1 ♂, 2 ♀ <u>Haemaphysalis intermedia</u>
	<u>Felis viverrina</u> Bennett		<u>Felis viverrina</u>
	Satpara, Puri District, Orissa, India		Satpara (19.39 N, 85.26 E), India
	16.III.1914		16.III.1914
	Dr. N. Annandale		Dr. N. Annandale
	Indian Mus. No. $\frac{2141}{17}$		
<p>Ticks CO-TYPES (!) presented by Prof. L. G. Neumann of the École Nationale Vétérinaire, Toulouse, 16.VI.1914 (we sent him co-types of our species in exchange).</p> <p>[Neumann's syntypes comprise Nuttall catalogue numbers 2866-2870, 2872, 2873-2885, 2887-2894, 2896-2898 - J.E.K.]</p>			
N	2866	N	2866
		RML	111743
	<u>Amblyomma albopictum</u> Neumann 1899, 1 ♂		1 ♂ <u>Amblyomma albopictum</u> SYNTYPE
	<u>Cyclura harlani</u>		<u>Cyclura nubila nubila</u>
	Guiana		Havana (23.08 N, 82.22 W), Cuba
	Lucas coll., rec'd. from Paris Museum, being the co-types of <u>Ixodes variegatus</u> Lucas, 1852 of which there were about 40 ♂ in Paris.		Lucas coll., rec'd. from Paris Museum, being the co-types of <u>Ixodes variegatus</u> Lucas, 1852 of which there were about 40 ♂ in Paris.
	Neumann No. 897.		Neumann (1899: 244) original description with locality of Havana. Cited & figured: Robinson (1926: 155, 156).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2867

N 2867

RML 111744

Amblyomma testudinis (Conil, 1877)
1 ♂ [species epithet argentinae
crossed out]

1 ♂ Amblyomma testudinis
Syntype of A. argentinae

Testudo argentinaeGeochelone chilensis

Argentine Republic

Argentina

Received 22.II.1904

Received 22.II.1904

Received from F. Lahille

Received from F. Lahille

Neumann No. 1282

Neumann (1905: 226) original description
of A. argentinae. Cited: Robinson
(1926: 162) but without Nuttall number.

N 2868

N 2868

RML 111745

Amblyomma australiense
Neumann, 1905 1 ♂

1 ♂ Amblyomma australiense
SYNTYPE

Echidna aculeataTachyglossus aculeatus

Mr. Anderson, West Australia

Mt. Anderson (17.58 S, 124.04 E),
Australia

1903

1903

Hon. N. C. Rothschild coll.

Hon. N. C. Rothschild coll.

Neumann No. 1271

Neumann (1905: 224), original description.
Robinson (1926: 137) cited this and
other Neumann specimens but without
Nuttall number and gave the collection
date as 1900 and collector as G. Shaw.
He was actually the author of
Echidna aculeata not the collector
of the ticks.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2869	N	2869
		RML	111746
	<u>Amblyomma calcaratum</u> Neumann, 1899, 1 ♂, 1 ♀		1 ♀ <u>Amblyomma calcaratum</u> SYNTYPE
	<u>Myrmecophaga tetradactyla</u>		<u>Tamandua tetradactyla</u>
	Colonia Alpina, Brazil		Colonia Alpina, Brazil (locality not verified)
	Received 1894		Received 1894
	Received from Prof. Goeldi		Received from Prof. Goeldi
	Neumann No. 828.		Neumann (1899: 226), original description. Cited & Figured: Robinson (1926: 192-194).
N	2870	N	2870
		RML	111747
	<u>Amblyomma coelebs</u> Neumann 1899, 1 ♂		1 ♂ <u>Amblyomma coelebs</u> SYNTYPE
	Off ?		Off ?
	Guanajuato, Mexico		Guanajuato, Mexico (locality not verified; there are 4 populated places and one state with the name Guanajuato)
	Received 1896		Received 1896
	Received from A. Dugès		Received from A. Dugès
	Neumann No. 824.		Neumann (1899: 223), original description. Robinson (1926: 33) incorrectly gave it Nuttall No. 2780.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2871	N	2871
		RML	111748
	<u>Amblyomma coelebs</u> Neumann 1899, 1 ♀		1 ♀ <u>Amblyomma coelebs</u>
	<u>Tapirus</u> sp.		<u>Tapirus</u> sp.
	Province of Chiquitos, Bolivia		Provincia Chiquitos (18.00 S, 60.00 W), Bolivia
	Received 1905		Received 1905
	Received from British Museum		Received from British Museum
	Neumann No. 1370 (see Neumann, 1906 p. 213)		Neumann (1906: 213) first description of ♀. Robinson (1926: 32) figured this specimen but incorrectly gave it Nuttall No. 2781.
N	2872	N	2872
		RML	111749
	<u>Amblyomma concolor</u> Neumann, 1899, 1 ♀		1 ♀ <u>Amblyomma auricularium</u> SYNTYPE of <u>A. concolor</u>
	<u>Dasypus</u> sp.		<u>Dasypus</u> sp.
	Belém Pará , Brazil		Belém (01.27 S, 48.29 W), Brazil
	Received 1896		Received 1896
	M. Rebourgeon Received from Raphael Blanchard		M. Rebourgeon Received from Raphael Blanchard
	Neumann No. 823.		Neumann (1899: 222), original description of <u>A. concolor</u> . Cited & figured: Robinson (1926: 68).
			The capitulum of this ♀ is missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2873	N	2873
		RML	111750
	<u>Amblyomma goeldii</u> Neumann, 1899 1 ♂		1 ♂ <u>Amblyomma goeldii</u> SYNTYPE
	<u>Myrmecophaga tetradactyla</u>		<u>Tamandua tetradactyla</u>
	Belém di Pará , Brazil		Belém (01.27 S, 48.29 W), Brazil
	Received 28.I.1897		Received 28.I.1897
	Received from Prof. Goeldi		Received from Prof. Goeldi
	Neumann No. 849.		Neumann (1899: 238), original description. Cited & figured: Robinson (1926: 242, 244).
N	2874	N	2874
		RML	111751
	<u>Amblyomma goeldii</u> Neumann, 1899 1 ♀		1 ♀ <u>Amblyomma rotundatum</u> Misidentified by Neumann as <u>A. goeldii</u>
	<u>Bufo aqua</u>		<u>Bufo marinus</u>
	Pará, Brazil		Belém (01.27 S, 48.29 W), Brazil
	Rec'd. 28.I.1897		Rec'd. 28.I.1897
	Rec'd. from Prof. Goeldi		Rec'd. from Prof. Goeldi
	Neumann No. 848.		Neumann (1899: 238), original description of <u>A. goeldii</u> . Cited & figured: Robinson (1926: 243,244).
			This specimen is being retained in the jar containing <u>A. goeldii</u> specimens.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2875

Amblyomma nodosum

Naumann, 1899 1 ♂, 1 ♀

Off ?

Costa Rica

Received 1896

de Lafon. Received from the
Paris Museum

Neumann No. 892.

N 2875

RML 111752

1 ♂, 1 ♀ Amblyomma nodosum
SYNTYPES

Off ?

Costa Rica

Received 1896

de Lafon. Received from the
Paris MuseumNeumann (1899: 224) original
description. Cited & figured:
Robinson (1926: 197-199).

N 2876

Amblyomma scutatum

Neumann, 1899, 1 ♂, 1 ♀

Lizard

Guatemala

Received 1885

Received from M. Soula

Neumann No. 896.

N 2876

RML 111753

1 ♂, 1 ♀ Amblyomma scutatum
SYNTYPES

Lizard

Guatemala

Received 1885

Received from M. Soula

Neumann (1899: 237), original
description. Cited & figured:
Robinson (1926: 203, 204) who incorrectly
gave the collector and date as "Sorda
coll., 1855". Whittick (1939: 438)
figured this ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2877

Aponomma ecinctum
Neumann, 1901, 1 ♂

Off ? (stated by W. W. Froggatt
to occur on a beetle: Aulacocyclus
kaupi!)

New South Wales, Australia

Rec'd. 30.I.1900

Rec'd. from W. W. Froggatt

Neumann No. 792.

N 2877

RML 111754

1 ♂ Aponomma fimbriatum
SYNTYPE of A. ecinctum

Off ? (stated by W. W. Froggatt to
occur on a beetle: Aulacocyclus
kaupi!)

New South Wales, Australia

Rec'd. 30.I.1900

Rec'd. from W. W. Froggatt

Neumann (1901: 293) original
description of A. ecinctum.

A second vial contains the right
tarsus I of this male along with the
note - "right tarsus I broken off
but returned to tube.

D.S.B. 2/6/36".

N 2878

Aponomma oudemansi
Neumann, 1910 1 ♂

Zaglossus (Proechidna) bruyni
nigrolineatus Roth.

Fak Fak, New Guinea

Received 1909

Received from Dr. A. C. Oudemans

Neumann No. 1755.

N 2878

RML 111755

1 ♂ Aponomma oudemansi
SYNTYPE

Tachyglossus aculeatus

Fakfak (02.55 S, 132.18 E),
Papua, New Guinea

Received 1909

Received from Dr. A. C. Oudemans

Neumann (1910: 11), original
description. Kaufman (1972) considered
A. oudemansi to be a synonym of A.
concolor. This ♂ definitely has no
ventral lobes on palpal articles II
which makes A. concolor such an easy
species to identify. Kaufman did not
see the types of A. concolor or A.
oudemansi but based his decision on
figures of the species.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2879	N	2879
		RML	111756
	<u>Aponomma pattoni</u> Neumann, 1897, 1 ♂		1 ♂ <u>Aponomma pattoni</u> SYNTYPE
	Snake		Snake
	Saidapet, East Indies		Probably Saidapet (13.02 N, 80.13 E), India
	Rec'd. 1907		Rec'd. 1907
	Rec'd. from Dr. W. S. Patton		Rec'd. from Dr. W. S. Patton
	Neumann No. 1761.		Neumann (1910b: 163), original description.
N	2880	N	2880
		RML	111757
	<u>Dermacentor nitens</u> Neumann, 1897, 2 ♂, 2 ♀		1 ♂, 3 ♀ <u>Anocentor nitens</u> SYNTYPES
	<u>Equus caballus</u>		<u>Equus caballus</u>
	Santa Cruz, Jamaica		Santa Cruz (18.03 N, 77.42 W), Jamaica
	Received 1897		Received 1897
	Received from the Jamaica Institute		Received from the Jamaica Institute
	Neumann No. 1039.		Neumann (1897: 376), original description.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2881

Haemaphysalis ambigua
Neumann 1901, 1 ♀

Off ?

France

Received 1894

Received from E. Simon

(= H. inermis Birula, 1895)
Neumann No. 1039.

N 2881

RML 111758

1 ♀ Haemaphysalis inermis
SYNTYPE of H. ambigua

Off ?

France

Received 1894

Received from E. Simon

Neumann (1901: 262), original
description.

N 2882

Haemaphysalis calcarata
Neumann, 1902 1 ♂Spermosciurus sp.

Sichi, Balz, Abyssinia

Rec'd. 1901

Hilgert coll. Rec'd. from
von Erlanger(Exactly like our N. 1203)
Neumann No. 1292.

N 2882

RML 111759

1 ♂ Haemaphysalis calcarata
SYNTYPEXerus sp.Sichi, Balz, Ethiopia (locality not
verified)

Rec'd. 1901

Hilgert coll. Rec'd. from von Erlanger

Neumann (1902: 113), original
description. Cited: Nuttall &
Warburton (1915: 444); Hoogstraal
(1955: 362).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2883	N	2883
		RML	69995
	<u>Haemaphysalis cornigera</u> Neumann, 1897, 1 ♂		1 ♂ <u>Haemaphysalis cornigera</u> Paralectotype
	<u>Cervus</u> sp.		<u>Cervus</u> sp.
	Borneo		Borneo
	Rec'd. 1894		Rec'd. 1894
	Rec'd. from Raphael Blanchard		Rec'd. from Raphael Blanchard
	Neumann No. 1008.		Neumann (1897: 350), original description. Cited & figured: Nuttall & Warburton (1915: 501, 504). Neumann collection 1008 consisted of 2 ♂. Trapido (1965: 157) selected the ♂ in the collection at Toulouse as lectotype.
N	2884	N	2884
		RML	71067
	<u>Haemaphysalis elongata</u> Neumann, 1897, 1 ♂		1 ♂ <u>Haemaphysalis elongata</u> SYNTYPE
	<u>Centetes madagascariensis</u>		<u>Tenerec ecaudatus</u>
	Zura, Madagascar		Zura, Democratic Republic of Madagascar (locality not verified)
	Rec'd. 1894		Rec'd. 1894
	Rec'd. from Sikora		Rec'd. from Sikora
	Neumann No. 1009.		Neumann (1897: 354), original description. Cited: Nuttall & Warburton (1915: 500); Hoogstraal (1953: 58).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2885	N	2885
		RML	111760
	<u>Haemaphysalis elongata</u> Neumann, 1897, 1 N		1 N <u>Haemaphysalis elongata</u> SYNTYPE
	<u>Erinaceus</u> sp.		<u>Erinaceus</u> sp.
	Madagascar		Democratic Republic of Madagascar
	Rec'd. 1894		Rec'd. 1894
	Rec'd. from Sikora		Rec'd. from Sikora
	Neumann No. 1011.		Neumann (1897: 354) original description. Cited: Nuttall & Warburton (1915: 500).
N	2886	N	2886
		RML	111761
	<u>Haemaphysalis flava</u> , Neumann, 1897, 1 ♀		1 ♀ <u>Haemaphysalis campanulata</u> Misidentified by Neumann as <u>H. flava</u> .
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Tokio, Japan		Tokyo (35.42 N, 139.46 E) Japan
	Rec'd. 1894		Rec'd. 1894
	Rec'd. from Janson		Rec'd. from Janson
	(= <u>H. campanulata</u> Warburton, 1908, not the <u>H. flava</u> descr. by Neumann originally). Neumann No. 990.		Cited: Nuttall & Warburton (1915: 492).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2887	N	2887
		RML	111762
	<u>Haemaphysalis</u> <u>parmata</u> Neumann, 1905, 1 ♂		1 ♂ <u>Haemaphysalis</u> <u>parmata</u> SYNTYPE
	<u>Bos</u> <u>taurus</u>		<u>Bos</u> <u>taurus</u>
	Njanga, Cameroon		Perhaps Nganga (02.56 N, 12.17 E), or (04.19 N, 12.33 E), Cameroon
	Rec'd. 1904		Rec'd. 1904
	Rec'd. from Dr. H. Ziemann		Rec'd. from Dr. H. Ziemann
	Neumann No. 1288.		Neumann (1905: 288), original description. Cited: Nuttall & Warburton (1915: 421).
N	2888	N	2888
		RML	111763
	<u>Haemaphysalis</u> <u>parmata</u> Neumann, 1905, 1 ♀		1 ♀ <u>Haemaphysalis</u> <u>parmata</u> SYNTYPE
	<u>Capra</u> <u>hircus</u>		<u>Capra</u> <u>hircus</u>
	Mbula, Cameroon		Mboula (06.40 N, 13.59 E), Cameroon
	Rec'd. 1904		Rec'd. 1904
	Rec'd. from H. Ziemann		Rec'd. from H. Ziemann
	Neumann No. 1289.		Neumann (1905: 228), original description. Cited: Nuttall & Warburton (1915: 421).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2889	N	2889
		RML	76104
	<u>Haemaphysalis parva</u> Neumann, 1908, 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Haemaphysalis intermedia</u> SYNTYPE of <u>H. parva</u>
	<u>Canis aureus</u>		<u>Canis aureus</u>
	Ceylon		Sri Lanka
	Rec'd. 1907		Rec'd. 1907
	Rec'd. from Prof. Galli-Valerio		Rec'd. from Prof. Galli-Valerio
	Neumann No. 1426.		Neumann (1908a: 89), original description. Cited: Nuttall & Warburton (1915: 437); Hoogstraal & Trapido (1963b: 838).
N	2890	N	2890
		RML	111764
	<u>Haemaphysalis numidiana</u> Neumann, 1905, 1 ♂		1 ♂ <u>Haemaphysalis erinacei</u> SYNTYPE of <u>H. numidiana</u>
	<u>Erinaceus</u> sp.		<u>Erinaceus</u> sp.
	Tebessa, Algeria		Tebessa (35.24 N, 08.07 E), Algeria
	Rec'd. 1894		Rec'd. 1894
	Rec'd. from Fayet		Rec'd. from Fayet
	Neumann No. 999.		Neumann (1905: 230), original description. Cited: Neumann (1897: 349 as <u>H. leachi</u>); Nuttall & Warburton (1915: 479); Hoogstraal (1955c: 221).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2891	N	2891
		RML	71079
	<u>Haemaphysalis simplex</u> Neumann, 1897, 1 ♂		1 ♂ <u>Haemaphysalis simplex</u> SYNTYPE
	<u>Erinaceus</u> sp.		<u>Setifer setosus</u>
	Madagascar		Democratic Republic of Madagascar
	Rec'd. 1894		Rec'd. 1894
	Rec'd. from Sikora		Rec'd. from Sikora
	(The specimen has no lateral grooves). Neumann No. 998.		Neumann (1897: 345), original description. Cited: Nuttall & Warburton (1915: 460); Hoogstraal (1953: 51).
N	2892	N	2892
		RML	111765
	<u>Rhipicentor vicinus</u> Neumann, 1908, 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicentor nuttalli</u> SYNTYPES of <u>R. vicinus</u>
	<u>Erinaceus frontalis</u>		<u>Erinaceus frontalis</u>
	Pretoria, Transvaal		Pretoria (25.45 S, 28.10 E), Republic of South Africa
	Rec'd. 1907		Rec'd. 1907
	Rec'd. from C. W. Howard		Rec'd. from C. W. Howard
	(= <u>R. nuttalli</u> Cooper & Robinson II. 1908). Neumann No. 1727.		Neumann (1905b: 170), original description. ♀ vulva removed and mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2893	N	2893
		RML	111766
	<u>Rhipicephalus appendiculatus</u> Neumann, 1901, 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus appendiculatus</u> SYNTYPES
	<u>Bos caffer</u>		<u>Syncerus caffer</u>
	Tangani, German East Africa		Perhaps Tangeni (06.56 S, 37.36 E), Tanzania
	Rec'd. 1900		Rec'd. 1900
	Rec'd. from Schillings		Rec'd. from Schillings
	Neumann No. 1143.		Neumann (1901: 270), original description.
N	2894	N	2894
		RML	111767
	<u>Rhipicephalus deltoideus</u> Neumann, 1910, 1 ♀		1 ♀ <u>Rhipicephalus deltoideus</u> SYNTYPE
	Off ?		Off ?
	Basutoland, South Africa		Lesotho
	Rec'd. from C. P. Lounsbury		Rec'd. from C. P. Lounsbury
	Neumann No. 1721.		Neumann (1910a: 13), original description.
			The vulva has been removed and mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2895

Rhipicephalus falcatus
Neumann, 1908, 1 ♂, 1 ♀

Off ?

North of Lake Nyasa
Brit. Centr. Africa

Rec'd. 1907

Dr. Old. Rec'd. from
British Museum

Neumann No. 1438.

N 2895 MISSING

N 2896

Rhipicephalus nitens
Neumann, 1904, 1 ♂

Off vegetation

Stellenbosch, southeast of
Cape Colony

Rec'd. 1903

Rec'd. from Mr. C. P. Lounsbury
(a good specimen)

Neumann No. 1783.

N 2896

RML 111768

1 ♂ Rhipicephalus nitens
SYNTYPE

Off vegetation

Stellenbosch (33.56 S, 18.51 E),
Republic of South Africa

Rec'd. 1903

Rec'd. from Mr. C. P. Lounsbury
(a good specimen)

Neumann (1904: 462), original
description.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2897	N	2897
		RML	111769
	<u>Rhipicephalus rossicus</u> Yakimoff, 1911, 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus rossicus</u> SYNTYPES
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Government of Saratow, Russia		Saratov (51.34 N, 46.02 E), U.S.S.R.
	Rec'd. 1910		Rec'd. 1910
	Rec'd. from Yakimoff		Rec'd. from Yakimoff
	Neumann No. 1783.		Yakimov & Kol-Yakimova (1911: 419), original description.
			♀ vulva removed and mounted on a slide.
N	2898	N	2898
		RML	111770
	<u>Rhipicephalus ziemanni</u> Neumann, 1904, 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus ziemanni</u> SYNTYPES
	Cattle		Cattle
	Cameroon		Cameroon
	Dr. Ziemann		Dr. Ziemann
	Neumann No. 1244.		Neumann (1904: 464), original description. Cited: Clifford & Anastos (1962: 31).
			♀ vulva removed and mounted on a slide.

Ticks received back from the Imperial Bureau of Entomology (ex. Report No. 35), London S.W.:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2899	N	2899
		RML	111771
	<u>Amblyomma cajennense</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma cajennense</u>
	Off ?		Off ?
	Greeklands Canje Ch., Brit. Guiana		Perhaps a locality along Canje Creek (06.16 N, 57.31 W), Guyana
	7.VI.1913		7.VI.1913
	Rev. J. Aiken		Rev. J. Aiken
	I.B.E. No. 873.		
N	2900	N	2900
		RML	111772
	<u>Amblyomma splendidum</u> ♂, ♀		5 ♂, 3 ♀ <u>Amblyomma splendidum</u>
	Buffalo		<u>Syncerus caffer</u>
	Tagi, N. Nigeria, West Africa		Tagi, Nigeria (locality not verified)
	27.IV.1913		27.IV.1913
	Dr. G. F. Petrie		Dr. G. F. Petrie
	I.B.E. No. 875.		Cited: Robinson (1926: 125).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2901	N	2901
		RML	111773
	<u>Haemaphysalis bispinosa</u> ♂, ♀, N		1 ♂, 3 ♀, 2 N <u>Haemaphysalis bispinosa</u>
	Goats		Goats
	Hakgala, Ceylon		Hakgala (06.55 N, 80.49 E), Sri Lanka
	27.III.1914		27.III.1914
	A. Rutherford		A. Rutherford
	I.B.E. No. 876a		Cited: Nuttall & Warburton (1915: 432)
N	2902, a	N	2902, a
		RML	111774
	(2902) <u>Amblyomma cohaerens</u> ♂'s, ♀'s (a) <u>Rhipicephalus dux</u> 2 ♀		(2902) 6 ♂, 3 ♀ <u>Amblyomma cohaerens</u> (a) 2 ♀ <u>Rhipicephalus dux</u>
	Buffalo		<u>Syncerus caffer</u>
	Beni, Belgian Congo, Central Africa		Beni (00.30 N, 29.28 E), Nord-Kivu, Zaire
	20.V.1914		20.V.1914
	Rec'd. from F. Harker, Esq., Mission de Prospection, Beni, 29 June, 1914		Rec'd. from F. Harker, Esq., Mission de Prospection, Beni, 29 June, 1914
	F. Harker, in his letter of 20.V.1914 says of Beni: "altitude of present camp 3510 ft., Lat. 0.30'.00N, Long. 29.05'.00E. The country I am in now is dense jungle & game is scarce. Population there is none practi- cally and pigmies are here today & on the trail of a wounded elephant miles away tomorrow." Letter destroyed		(2902) cited: Robinson (1926: 110).
	27.IX.1914 G.H.F.N.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2903

N 2903

Haemaphysalis novae-guineae
Hirst, 1914, 1 ♂, 1 ♀ CO-TYPES

RML 111775

1 ♂, 1 ♀ Haemaphysalis novaeguineae
Paralectotypes

Hydromys sp.Hydromys sp.

Sattelberg, Huon Gulf,
German New Guinea

Sattelberg, Huon Gulf (07.10 S,
147.25 E), Papua, New Guinea

1911

1911

Professor F. Forster coll.

Professor F. Forster

[Presented by the British Museum
(Nat. Hist.), London, 3 July, 1914]

Hirst (1914: 328), original
description. Cited: Nuttall &
Warburton (1915: 452). Roberts
(1963: 57) selected paralectotypes
from specimens in the British Museum
(Nat. Hist.) to which this collection
originally belonged before being
presented to Prof. Nuttall. There-
fore the ♂ & ♀ of this collection
(N2903) are paralectotypes.

Ticks retained from the collection sent for determination by the Deutsches
Entomologisches Museum (per Professor Dr. S. Schenkling), Gossler-Strasse 20,
Berlin-Dahlem, Germany, 6 March, 1914:-

N 2904

N 2904 MISSING

Hyalomma aegyptium 2 ♀

Off ?

Karawaserei, N.W. Persia

No date

Dr. Blau

D.E.M. No. 1

ORIGINAL DETERMINATIONCURRENT STATUS

N	2905	N	2905 MISSING
	<u>Haemaphysalis bispinosa</u> ♀'s		
	Off ?		
	Tsingtau, China		
	No date		
	Professor Hoffmann		
	D.E.M. No. 3.		
N	2905z, a	N	2905z, a MISSING
	(2905z) <u>Haemaphysalis hystericis</u> ♂'s		
	(a) <u>Dermacentor niveus</u> 2 ♂		
	Hedgehog		
	Tsingtau, China		
	No date		
	Prof. Hoffmann		
	D.E.M. No. 13, 13a.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2906, a-c	N	2906, a-c
		RML	90006
	(2906) <u>Rhipicephalus cuneatus</u> ♂'s, ♀'s		(2906) 3 ♂, 3 ♀ <u>Rhipicephalus ziemanni</u>
	(a) <u>Rhipicephalus dux</u> 2 ♂, 1 ♀		(a) 1 ♂, 1 ♀ <u>Rhipicephalus dux</u>
	(b) <u>Amblyomma cohaerens</u> 1 ♂, 2 N's		(b) 1 ♂, 2 N <u>Amblyomma cohaerens</u>
	(c) <u>Haemaphysalis parmata</u> 1 ♂ (large!)		(c) 1 ♂ <u>Haemaphysalis parmata</u>
	Buffalo		<u>Syncerus caffer</u>
	Beni, Belgian Congo, Central Africa		Beni (00.30 N, 29.28 E), Nord-Kivu, Zaire
	31.V.1914		31.V.1914
	F. Harker		F. Harker
			(2906b) cited: Robinson (1926: 110); (2906c) Nuttall & Warburton (1915: 421) gave the collection date as 31.VI.1913.
			Note in vial with (2906a) "Only 2 ticks 26.X.1934."

Collection of ticks received from Dr. M. Miyajima, Imperial Institute for the study of Infectious Diseases, Tokio, Japan, 6 July, 1914:-

N	2907, a	N	2907, a
		RML	111776
	(2907) <u>Dermacentor niveus</u> 2 ♂, 3 ♀		(2907) 2 ♂, 3 ♀ <u>Dermacentor</u> sp.
	(a) <u>Haemaphysalis hystricis</u> ♀'s		(a) 3 ♀ <u>Haemaphysalis longicornis</u>
	Horse		Horse
	Aomori, North-Central Japan		Aomori (40.49 N, 140.45 E), Japan
	15.VII.1912		15.VII.1912
	Rec'd. from Dr. Miyajima		Rec'd. from Dr. Miyajima
	Miyajima No. 1		(2907a) cited: Nuttall & Warburton (1915: 433).
	2907 reexamined 19.VII.21 by G.H.F.N. & referred to <u>niveus</u> as C.W. had previously noted it recalls <u>reticulatus</u> ♂ pattern.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2908, a	N	2908
		RML	111777
	(2908) <u>Haemaphysalis bispinosa</u> ♂'s, ♀'s, larvae		(2908) 8 ♀ <u>Haemaphysalis longicornis</u>
	(a) <u>Ixodes ricinus</u> 1 ♀		(a) MISSING
	Horse		Horse
	Daisen, North-western part of Central Japan		Daisen (35.23 N, 133.32 E), Japan
	2.VIII.1912		2.VIII.1912
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 2.		Cited: Nuttall & Warburton (1915: 433).
	(2908) 1 ♂, 1 ♀ to Prof. E. Brumpt, École Médecine, Paris 12.X.1922.		
N	2909, a, b	N	2909, a
		RML	111778
	(2909) <u>Haemaphysalis bispinosa</u> ♀'s		(2909) 1 ♂, 9 ♀ <u>Haemaphysalis</u> <u>longicornis</u>
	(a) <u>Amblyomma testudinarium</u> 2 ♀		(a) 2 ♀ <u>Amblyomma testudinarium</u>
	(b) <u>Ixodes ricinus</u> 1 ♂, 2 ♀		(b) MISSING
	Horse		Horse
	Takanabe, Kiushiu		Takanabe (32.08 N, 131.30 E), Kyushu, Japan
	5-VI-12.X.1912		5-VI-12.X.1912
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 3.		(2909) Cited: Nuttall & Warburton (1915: 433); Hoogstraal et al (1968: 1206); (2909a) Robinson (1926: 257).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2910	N	2910
		RML	111779
	<u>Boophilus australis</u> ♀'s		4 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Hiroshima, Sanyado		Hiroshima (34.24 N, 132.27 E), Japan
	5.VIII.1910		5.VIII.1910
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 4.		
N	2911, a	N	2911, a
		RML	111780
	(2911) <u>Boophilus australis</u> (a) <u>Haemaphysalis bispinosa</u> 1 ♀		(2911) 6 ♀ <u>Boophilus microplus</u> (a) 1 ♀ <u>Haemaphysalis flava</u>
	Cattle		Cattle
	Tokio, Central Japan		Tokyo (35.42 N, 139.46 E), Japan
	16.X.1911		16.X.1911
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 5.		(2911a) Tentative I.D.
N	2912	N	2912
		RML	111781
	<u>Boophilus australis</u> ♂'s, ♀, L & eggs		3 ♂, 4 ♀, 4 L <u>Boophilus microplus</u>
	Cattle		Cattle
	Taihoku, Formosa		Taihoku, Taiwan (locality not verified)
	23.IV.1911		23.IV.1911
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 6.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2913	N	2913
	<u>Boophilus australis</u> ♀'s, N's	RML	111782
	Cattle		6 ♀, 2 N <u>Boophilus microplus</u>
	Koshin, Formosa		Cattle
	3.IX.1910		Koshin (23.21 N, 121.12 E), Taiwan
	Rec'd. from Dr. M. Miyajima		3.IX.1910
	Miyajima No. 7.		Rec'd. from Dr. M. Miyajima
N	2914, a-c	N	2914, a-c
	(2914) <u>Boophilus australis</u> 2 ♀	RML	22304
	(a) <u>Amblyomma testudinarium</u> 1 ♀		(2914) 2 ♀ <u>Boophilus microplus</u>
	(b) <u>Rhipicephalus sanguineus</u> 1 ♀		(a) 1 ♀ <u>Amblyomma testudinarium</u>
	(c) <u>Haemaphysalis warburtoni</u> 1 ♂		(b) 1 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		(c) 1 ♂ <u>Haemaphysalis formosensis</u>
	Taihoku, Formosa		Cattle
	16.VII.1909		Taihoku, Taiwan (locality not verified)
	Rec'd. from Dr. M. Miyajima		16.VII.1909
	Miyajima No. 8.		Rec'd. from Dr. M. Miyajima
			(2914a) Cited: Robinson (1926: 257).
N	2915	N	2915
	<u>Boophilus australis</u> ♀'s	RML	111783
	Native cattle		8 ♀ <u>Boophilus microplus</u>
	Koshin, Formosa		Cattle
	4.VII.1907		Koshin (23.21 N, 121.12 E), Taiwan
	Rec'd. from Dr. M. Miyajima		4.VII.1907
	Miyajima No. 9.		Rec'd. from Dr. M. Miyajima

ORIGINAL DETERMINATIONCURRENT STATUS

N	2916, a	N	2916, a
		RML	111784
	(2916) <u>Boophilus australis</u> ♀'s, N's (a) <u>Amblyomma testudinarium</u> 1 ♂, 1 ♀		(2916) 9 ♀, 5 N <u>Boophilus microplus</u> (a) 1 ♂, 1 ♀ <u>Amblyomma testudinarium</u>
	Water buffalo		<u>Bubalus bubalis</u>
	Koshin, Formosa		Koshin (23.21 N, 121.12 E), Taiwan
	7.VIII.1911		7.VIII.1911
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 10.		(2916a) Cited: Robinson (1926: 257).
N	2917	N	2917
		RML	111785
	<u>Haemaphysalis campanulatus</u> ♂ & ♀		1 ♂, 1 ♀ <u>Haemaphysalis campanulata</u>
	House rat		<u>Rattus rattus</u> or <u>Rattus norvegicus</u>
	Tokio, Japan		Tokyo (35.42 N, 139.46 E), Japan
	11.IX.1912		11.IX.1912
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 11.		Cited: Nuttall & Warburton (1915: 492).
N	2918	N	2918
		RML	111786
	<u>Boophilus australis</u> ♀'s		4 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Yayeyama, Riu-kiu Islands		Yaeyama-Retto Island (24.20 N, 124.00 E), Ryukyū Islands, Japan
	2.X.1912		2.X.1912
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 12.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2919	N	2919
		RML	111787
	<u>Amblyomma testudinarium</u> 1 ♀		1 ♀ <u>Amblyomma testudinarium</u>
	Off ?		Off ?
	Amamioshima, Kiushiu		Perhaps Amamioshima Island (28.15 N, 129.20 E), Ryukyu Islands, Japan
	20. IV. 1910		20. IV. 1910
	Rec'd. from Dr. M. Miyajima		Rec'd. from Dr. M. Miyajima
	Miyajima No. 13.		Cited: Robinson (1926: 257).
N	2920	N	2920
		RML	111788
	<u>Dermacentor niveus</u> 1 ♀		1 ♀ <u>Dermacentor asper</u>
	Hedgehog		Hedgehog
	China		Peoples Republic of China
	1907		1907
	Rec'd. from Dr. Miyajima		Rec'd. from Dr. Miyajima
	Miyajima No. 14		Tentative ID. Cited: Arthur (1960: 114).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2921	N	2921
		RML	87420
	<u>Haemaphysalis campanulata</u> ♂'s, ♀'s		6 ♂, 6 ♀ <u>Haemaphysalis campanulata</u>
	Dog		Dog
	Tokio, Japan		Tokyo (35.42 N, 139.46 E), Japan
	18.VI.1914		18.VI.1914
	Rec'd from Dr. M. Miyajima		Rec'd from Dr. M. Miyajima
	Miyajima No. 15		These specimens are in the Harry Hoogstraal collection, Cairo, Egypt.
			Cited: Nuttall & Warburton (1915: 492).
N	2922	N	2922
		RML	66557
	<u>Rhipicephalus bursa</u> ♂'s, ♀'s		21 ♂, 6 ♀ <u>Rhipicephalus bursa</u> 1 ♂ <u>Hyalomma marginatum</u>
	Cow		Cow
	"Portezuelo" Farm, Teneriffe, Canary Islands		"Portezuelo" Farm, Tenerife (29.19 N, 16.34 W), Canary Islands
	28.VI.1914		28.VI.1914
	Received from Dr. G. V. Perez ("La Quinto," Santa Ursula, Teneriffe), 10 July, 1914.		Received from Dr. G. V. Perez ("La Quinto," Santa Ursula, Tenerife), 10 July, 1914.

Ticks received from W.H.J. van Heemstra, Esq., Oglan-Anassi, Djumowassi, Smyrna, Asiatic Turkey, 10 July, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2923	N	2923 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	Camel		
	Djumowassi, Smyrna, Asiatic Turkey		
	2.VII.1914		
	Rec'd. from W.H.J. van Heemstra		
N	2924, a, b	N	2924a
	(2924) <u>Hyalomma aegyptium</u> ♂'s, ♀'s	RML	111789
	(a) <u>Rhipicephalus bursa</u> 1 ♀		(2924) MISSING
	(b) <u>Rhipicephalus sanguineus</u> 1 ♀		(a) 1 ♀ <u>Rhipicephalus bursa</u>
	Goats		(b) MISSING
	Djumowassi, Smyrna, Asiatic Turkey		Goats
	2.VII.1914		Djumowassi, Izmir (38.25 N, 27.09 E), Turkey
	Rec'd. from W.H.J. van Heemstra		2.VII.1914
			Rec'd. from W.H.J. van Heemstra
N	2925	N	2925
	<u>Rhipicephalus sanguineus</u> 2 ♂, 1 ♀	RML	111790
	Dogs		2 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Djumowassi, Smyrna, Asiatic Turkey		Dogs
	2.VII.1914		Djumowassi, Izmir (38.25 N, 27.09 E), Turkey
	Rec'd. from W.H.J. van Heemstra		2.VII.1914
			Rec'd. from W.H.J. van Heemstra

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2926	N	2926
		RML	111791
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		2 ♂, 26 ♀ <u>Hyalomma marginatum</u>
	Camel		<u>Camelus dromedarius</u>
	Djumowassi, Smyrna, Asiatic Turkey		Djumowassi, Izmir (38.25 N, 27.09 E), Turkey
	2.VII.1914		2.VII.1914
	Rec'd from W.H.J. van Heemstra		Rec'd from W.H.J. van Heemstra
N	2927	N	2927 MISSING
	<u>Boophilus ? annulatus</u> ♀'s		
	Cow (apparently suffering from piroplasmosis).		
	Djumowassi, Smyrna, Asiatic Turkey		
	3.VII.1914		
	Rec'd from W.H.J. van Heemstra		
	[Used for raising experiments.]		
	Three tubes of ticks presented to Mr. Warburton by J.E.M. Mellor, who collected them in Kashmir, North India, during 1912:-		
N	2928	N	2928
		RML	111792
	<u>Haemaphysalis montgomeryi</u> 1 ♂		1 ♂ <u>Haemaphysalis montgomeryi</u>
	Dog		Dog
	Kashmir, India		Kashmir, India
	1912		1912
	J.E.M. Mellor		J.E.M. Mellor
			Cited: Nuttall & Warburton (1915: 397).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2929	N	2929 MISSING
	<u>Ixodes ricinus</u> 3 ♀		
	Dog		
	Kashmir, India		
	1912		
	J.E.M. Mellor		
N	2930	N	2930
	<u>Dermacentor reticulatus</u> 1 ♀	RML	111793
	Dog		1 ♂ <u>Dermacentor</u> sp.
	Kashmir, India		Dog
	1912		Kashmir, India
	J.E.M. Mellor		1912
			J.E.M. Mellor
Ticks received from the Indian Museum (per Dr. N. Annandale) Calcutta, India, 12 July, 1914:-			
N	2931, a	N	2931, a
	(2931) <u>Rhipicephalus</u> sp. 2 nymphs	RML	22301
	(a) <u>Haemaphysalis parva</u> 2 ♂, 2 ♀		(2931) 2 N <u>Hyalomma</u> sp.
	<u>Lepus ruficaudatus</u>		(a) 2 ♂, 1 ♀ <u>Haemaphysalis intermedia</u>
	Satapara, Puri District		<u>Lepus ruficaudatus</u>
	Orissa, India		Satapara, Puri, Orissa
	16.III.1914		(21.00 N, 84.00 E), India
	Dr. N. Annandale		16.III.1914
	(Ind. Mus. $\frac{2143}{17}$)		Dr. N. Annandale
			(2931a) Cited: Hoogstraal & Trapido (1963b: 838). Collection 2931a was also given RML No. 72829 & 2832.

Ticks presented by the Deutsches Entomol. Museum, Berlin-Dahlem, 13.VII.1914, having been asked for by me, when I returned their specimens numbered 1-48 which were determined by C.W. & me. Pinned specimens:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2932	N	2932
		RML	111794
	<u>Dermacentor reticulatus</u> (Fabr.) 1 ♂		1 ♂ <u>Dermacentor</u> sp.
	Off ?		Off ?
	Sarepta, Russia		Sarepta (49.40 N, 72.23 E), Kazakh S.S.R., U.S.S.R.
	No date		No date
	Kraatz coll.		Kraatz coll.
	D.E.M. No. 40.		A pinned specimen.
N	2933	N	2933
		RML	111795
	<u>Ixodes vespertilionis</u> Koch 1 ♂ (rare!)		1 ♂ <u>Ixodes vespertilionis</u>
	Off ?		Off ?
	Bosnia		Bosnia (44.00 N, 18.00 E), Yugoslavia
	No date		No date
	Roeschke coll.		Roeschke coll.
	D.E.M. No. 42.		A pinned specimen
			Cited: Nuttall (1916: 334).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2934	N	2934
		RML	111796
	<u>Amblyomma integrum</u> Karsch 1879 1 ♀		1 ♀ <u>Amblyomma integrum</u>
	Off ?		Off ?
	Dambulla Ceylon		Either Dambulla (07.21 N, 80.22 E) or (07.51 N, 80.39 E), Sri Lanka
	1899		1899
	W. Horn coll.		W. Horn coll.
	D.E.M. No. 46.		A pinned specimen.
N	2935	N	2935 MISSING
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, N's		
	Dog (suffering from piroplasmosis)		
	Station Veterinary Hospital, Mhow, Central India		
	27.VI.1914		
	Rec'd. from Major T. W. Rudd, A.V.C. 20.VII.1914.		
N	2936, a	N	2936
		RML	111797
	(2936) <u>Argas reflexus</u> (22 spec's.) (a) <u>Argas persicus</u> (2)		(2936) 4 ♂, 7 ♀, 12 N <u>Argas reflexus</u> (a) MISSING
	Fowls (suffering from spirochaetosis)		Fowls
	Budapest, Hungary		Budapest (47.30 N, 19.05 E), Hungary
	VI.1914		VI.1914
	Rec'd. from Prof. Dr. von Ratz, 20.VII.1914.		Rec'd. from Prof. Dr. von Ratz, 20.VII.1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2937	N	2937
		RML	111798
	<u>Dermacentor variabilis</u> eggs		1 vial of eggs <u>Dermacentor variabilis</u>
	Winnipeg, Canada		Winnipeg (49.53 N, 97.10 W), Canada
	Received 21.VII.1914 alive		Received 21.VII.1914
	J.R.N. Harrison		J.R.N. Harrison
	Some preserved, rest to be raised [J.R.N.H. det.]		In a jar containing vials of eggs of various species.
	[Thrown away, they shrivelled up & did not hatch out. G.H.F.N. 8.IX.1914]		
	Collection of type specimens received from W. F. Cooper & L. E. Robinson, Watford (per L. E. Robinson, Esq.), 23 July, 1914:-		
N	2938	N	2938
		RML	111799
	<u>Amblyomma caelaturum</u> C.& R., II.1908 (= <u>A. malayanum</u>)		2 ♂, 1 ♀ <u>Amblyomma geoemydae</u> Lectotype and paralectotypes of <u>A. caelaturum</u>
	Tortoise (<u>Geoemyda spinosa</u>)		<u>Heosemys spinosa</u>
	Kwala Aring, Java, Malay Peninsula		Kwala Aring, Malaysia (locality not verified)
	1899		1899
	F. F. Laidlaw (Skeat Expedition)		Dr. N. Annandale
	Cooper's No. 259 L.E.R. det. 1926.		Cooper & Robinson (1908: 460) original description of <u>A.</u> <u>caelaturum</u> ; Robinson (1926: 230) corrected locality and collector information. Lectotype designated: Keirans & Brewster (1981: 155).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2939	N	2939
		RML	111800
	<u>Amblyomma fiebrigi</u> (= <u>A. pacae</u> Aragao 1911)		1 ♂, 1 ♀ <u>Amblyomma pacae</u> Lectotype and paralectotype of <u>A. fiebrigi</u>
	Off ?		Off ?
	San Bernardino, Paraguay, S. America		San Bernardino (25.16 S, 57.19 W), Paraguay
	1911		1911
	Dr. Karl Fiebrig		Dr. Karl Fiebrig
	Cooper's No. 6.		Robinson (1912: 482) original description of <u>A. fiebrigi</u> ; Cited: Robinson (1926: 211). Lectotype designated: Keirans & Brewster (1981: 156).
N	2940	N	2940
		RML	111834
	<u>Amblyomma longirostrum</u> C. & R., II. 1908 (= <u>A. humerale</u> Koch, 1844)		1 ♀ <u>Amblyomma humerale</u> Holotype of <u>A. longirostrum</u>
	Off ?		Off ?
	British Guiana, S. America		Guyana
	1907		1907
	E. C. Foote, coll.		E. C. Foote
	Cooper's No. 265.		
	L. E. Robinson det. 1926.		Cooper & Robinson (1908: 457) original description of <u>A. longirostrum</u> ; cited: Robinson (1926: 181).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2941	N	2941
	<u>Amblyomma variegatum</u> var. <u>nocens</u> Robinson I. 1912 1 ♂ (= <u>pomposum</u> Dohitz, 1909)	RML	111835
	Off ?		1 ♂ <u>Amblyomma pomposum</u> Lectotype of <u>A. variegatum nocens</u>
	Rhodesia, S. Africa		Off ?
	1911		Zimbabwe
	E. M. Jarvis		1911
	Cooper's No. 371. L.E.R. det. 1926.		E. M. Jarvis
			Robinson (1912: 480) original description of <u>A. variegatum nocens</u> : Robinson (1926: 100) stated collect- ion was "? off cattle"; Hoogstraal (1956a: 243) discussed the question- able locality record of "Southern Rhodesia" for this collection. Lectotype designated: Keirans & Brewster (1981: 157).
N	2942	N	2942
	<u>Aponomma simplex</u> C. & R., II. 1908 1 ♂	RML	111836
	<u>Iguana</u> sp.		1 ♂ <u>Aponomma fimbriatum</u> Holotype of <u>Ap. simplex</u>
	Quambone, New South Wales, Australia		<u>Varanus</u> sp.
	1899		Quambone (30.31 S, 147.38 E), New South Wales, Australia
	W. F. Cooper		1899
	Cooper's No. 275.		W. F. Cooper
			Cooper & Robinson (1908: 466) original description of <u>Ap. simplex</u> ; Roberts (1953: 136) gave the spel- ling Quamborne for the collecting locality.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2943	N	2943
		RML	111837
	<u>Aponomma quadratum</u> C. & R., II.1908 1 ♂		1 ♂ <u>Aponomma varanensis</u> Holotype of <u>Ap. quadratum</u>
	<u>Iguana</u> sp.		<u>Varanus</u> sp.
	Quambone, New South Wales, Australia		Quambone (30.31 S, 147.38 E), New South Wales, Australia
	1899		1899
	W. F. Cooper		W. F. Cooper
	Cooper's No. 280.		Cooper & Robinson (1908: 468) original description of <u>Ap. quadratum</u> cited: Roberts (1953: 137); Kaufman (1972: 355).
N	2944	N	2944
		RML	111838
	<u>Haemaphysalis silacea</u> R., I.1912 2 ♀'s		2 ♀ <u>Haemaphysalis silacea</u> Lectotype and paralectotype
	Cattle		Cattle
	Starvation Camp, Gonubie Park, E. London, South Africa		Starvation Camp, Gonubie Park (32.55 S, 27.59 E), Republic of South Africa
	24.II.1911		24.II.1911
	("R.J.D.")		Mr. R. J. Davys
	Cooper's No. 370.		Robinson (1912: 478) original description; Nuttall & Warburton (1915: 418) added the collector's name. Lectotype designated: Keirans & Brewster (1981: 163).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2945	N	2945
		RML	111839
	<u>Rhipicentor nuttalli</u> C.&R., 1908 1 ♂		1 ♀ <u>Rhipicentor nuttalli</u>
	Off ?		Off ?
	Sandown, Rhodesia, South Africa		Either Sandown (16.58 S, 30.57 E) or (17.33 S, 30.46 E), Zimbabwe
	1907		1907
	J. S. Looseley		J. S. Looseley
	Cooper's No. 282		Cooper & Robinson (1908: 462) original description based on 1 ♂. This ♀ is not the type specimen.

Five tubes of ticks received from F. K. Ward, Esq. (through Mrs. Marshall Ward, Cambridge), 25.VII.1914:-

N	2946	N	2946
		RML	111840
	<u>Ixodes gigas</u> 1 ♂		1 ♂ <u>Ixodes acutitarsus</u>
	Off "self"		<u>Homo sapiens</u>
	Salween Valley jungles (7-8,000 ft), Chamuteng, Tibet		Perhaps vicinity of Salween River (16.31 N, 97.37 E), Tibet Autonomous Republic, Peoples Republic of China (2134-2438 m).
	1914		1914
	F. K. Ward		F. K. Ward
			Cited: Nuttall (1916: 327).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2947, a	N	2947, a
		RML	22288
	(2947) <u>Ixodes japonensis</u> COTYPE ♂, 1 ♂, 1 ♀		(2947) 1 ♂, 1 ♀ <u>Ixodes ovatus</u>
	(a) <u>Haemaphysalis ? warburtoni</u> 1 N		(a) 1 N <u>Haemaphysalis</u> sp.
	Off "self"		<u>Homo sapiens</u>
	Kā-gur-pu forests (11,000 ft) (Yünnan-Tibet border)		Kā-gur-pu Mountains, Yunnan Province (25.00 N, 102.00 E), Peoples Republic of China (3353 m)
	1914		1914
	Dr. F. K. Ward		Dr. F. K. Ward
	Note: Consult map & note to N3019 Kā-gur-pu are mountains near Doker-la in N.W. corner of Yünnan, China on border of Tibet. Atun-tsi is in N.W. Yünnan G.H.F.N.		Nuttall (1916: 305) first description of the ♂ of <u>I. ovatus</u> .
			2947 - 5 slides of dissections ♀ legs I & IV; ♀ spiracular plate; ♂ spiracular plate; ♂ legs I & IV; ♂ hypostome.
N	2948	N	2948
		RML	111841
	<u>Ixodes japonensis</u> 1 ♂, 4 ♀		4 ♀ <u>Ixodes ovatus</u>
	Off "self"		<u>Homo sapiens</u>
	Doker-la (13,000 ft.), (Mts. Yünnan- Tibet border)		Doker-la Mountains Yunnan Province (25.00 N, 102.00 E), Peoples Republic of China (3962 m)
	1914		1914
	F. K. Ward		F. K. Ward
			Cited & figured: Nuttall (1916: 305); Hoogstraal (1970c: 81).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2949	N	2949
		RML	111842
	<u>Ixodes japonensis</u> 5 ♀		5 ♀ <u>Ixodes ovatus</u>
	Cow		Cow
	Kā-gur-pu forests (11,000 ft.)		Kā-gur-pu, Yunnan Tibet border Yunnan Province (25.00 N, 102.00 E), Peoples Republic of China (3353 m).
	VI.1913		VI.1913
	F. K. Ward		F. K. Ward
	Nutt. & Warb. det.		Cited: Nuttall (1916: 306).
N	2950	N	2950
		RML	111843
	<u>Haemaphysalis</u> sp. 1 N like 2947a		1 N <u>Haemaphysalis</u> sp.
	Off "self"		<u>Homo sapiens</u>
	A-tun-tsi (13,000 ft) (N.W. Yunnan, China)		Atuntze-now Te-Chin (28.30 N, 98.52 E) Yunnan Province, Peoples Republic of China
	1914		1914
	F. K. Ward		F. K. Ward

Ticks received from C. Strickland M.B., Malaria Bureau, Bikit Nanas, Kuala Lumpur, Federated Malay States, 27.VII.1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2951	N	2951
		RML	111844
	<u>Haemaphysalis hystrix</u> 1 ♀		1 ♀ <u>Haemaphysalis semermis</u>
	Dog		Dog
	Port Dickinson, N. Sembilan		Port Dickinson (02.31 N, 101.48 E), Negeri Sembilan, Malaysia
	II.1912		II.1912
	Rec'd. from C. Strickland		Rec'd. from C. Strickland
	Strickland No. T.60.		Cited: Nuttall & Warburton (1915: 425); Hoogstraal <u>et al</u> (1965b: 434).
N	2952	N	2952
		RML	111845
	<u>Haemaphysalis hystrix</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Haemaphysalis semermis</u>
	Dog		Dog
	Ulu Gombak, Selangor		Ulu Gombak, Selangor, Malaysia (locality not verified)
	XI.1913		XI.1913
	Rec'd. from C. Strickland		Rec'd. from C. Strickland
	Strickland's No. T 61.		Cited: Nuttall & Warburton (1916: 425).

ORIGINAL DETERMINATIONCURRENT STATUS

N	2953	N	2953
		RML	111846
	<u>Haemaphysalis hystrixis</u> 2 ♀		2 ♀ <u>Haemaphysalis semermis</u>
	<u>Ursus malayensis</u>		<u>Helarctos malayanus</u>
	Ulu Gombak, Selangor		Ulu Gombak, Selangor, Malaysia (locality not verified)
	IV.1913		IV.1913
	Rec'd. from C. Strickland		Rec'd. from C. Strickland
	Strickland's No. T 65b.		Cited: Nuttall & Warburton (1915: 425); Hoogstraal <u>et al</u> (1965b: 435).
N	2954	N	2954
		RML	111847
	<u>Haemaphysalis koningsbergeri</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Haemaphysalis koningsbergeri</u>
	<u>Ursus malayensis</u>		<u>Helarctos malayanus</u>
	Ulu Gombak, Selangor		Ulu Gombak, Selangor, Malaysia (locality not verified)
	IV.1913		IV.1913
	Rec'd. from C. Strickland		Rec'd. from C. Strickland
	Stricklands No. T 65b.		Cited: Nuttall & Warburton (1915: 475).

Ticks presented by the Museo Civico di Storia Naturale di Genova (per Professor Gestro), Genova, Italy 29 July, 1914:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	2955	N	2955
		RML	111848
	<u>Amblyomma sublaeve</u> 1 nymph (deformed!)		1 N <u>Amblyomma</u> sp.
	<u>Manis javanica</u>		<u>Manis javanica</u>
	Karkecet, Burma		Karkecet, Burma (locality not verified)
	L. Fea		L. Fea
	A type of <u>Rhipicephalus javanensis</u> Supino (see Nn II.416)		Supino (1897: 233) original description of <u>R. javanensis</u> . Cited: Neumann (1897: 416)
	Genoa Mus. No. given me 28a.		Nuttall (1914a: 256) figured this specimen.

NOTE: These specimens are of particular interest as they are pickings from those collected by L. Fea on his journey in Burma. They were contained in 2 bottles labelled I "Tipi di Canestrini St. Supino" & II Aecki di Birmaniae (Viaggio Fea)". See F. Supino "Nuovi Ixodes della Birmania," Padova; also G. Canestrini, Ann Museo Civico Genova XXXVII, p. 417-422. I gave the Genova Museum many good specimens in exchange. The original labels give scarcely more data than the names. I have added particulars from Neumann II (1897) pp. 416-418 etc. The collection was sent to me by Prof. Gestro after my visit to Genoa.

G.H.F.N.

Names of places where Fea collected are given in Gestro 1904 pp. 6-8 Leonardo Fea ed i suoi Viaggi Genova: biographia R. Istituto Sordomuti. He reached Bhamo Burma, VI.1885 and collected there for 11 months, then the northernmost point reached by the Yrrawaddy Flotilla. He explored the Catcin Mts., etc. Spent 1 year in Carin Mts. & returned to Genoa 1889.

N.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2956	N	2956
		RML	111849
	<u>Haemaphysalis hystricis</u> 1 ♂ CO-TYPE of <u>H. hystricis</u> Supino 1897		1 ♂ <u>Haemaphysalis hystricis</u> Lectotype
	<u>Hystrix bengalensis</u> & <u>Ursus torquatus</u>		<u>Hystrix hodgsoni</u> & <u>Selenarctos tibetanus</u>
	Yado-Carin-Ascinii-Chebā and Carin-Chebā Burma (900 m elev.)		Yado-Carin-Ascinii-Chebā and Carin-Chebā, Burma (900,1000 m) (locality not verified)
	L. Fea		L. Fea
	(Nn II.342 & Fea cited in Gestro) Genoa Mus. No. given me. 20.		Supino (1897: 237) original description. Cited: Nuttall & Warburton (1915: 425); Hoogstraal et al (1965c: 467, 476). Trapido (1965: 159) designated the lectotype.
N	2957	N	2957
		RML	111850
	<u>Haemaphysalis hystricis</u> 1 ♀ Supino CO-TYPE		1 ♀ <u>Haemaphysalis hystricis</u> Paralectotype
	<u>Hystrix bengalensis</u> & <u>Ursus torquatus</u>		<u>Hystrix hodgsoni</u> & <u>Selenarctos tibetanus</u>
	Yado-Carin-Ascinii-Chebā and Carin-Chebā Burma (900 m elev.)		Yado-Carin-Ascinii-Chebā and Carin-Chebā, Burma (900-1000 m) (locality not verified)
	L. Fea		L. Fea
	Genoa Mus. No. given me. 21.		Supino (1897: 237) original description. Cited: Nuttall & Warburton (1915: 425); Hoogstraal (1965c: 467, 476); Trapido (1965: 159).

ORIGINAL DETERMINATION

N 2958

Haemaphysalis formosensis 1 ♀
In same tube as N 2957
Burma
L. Fea
Genoa Mus. No. given me. 21a.

N 2959

Haemaphysalis leachi 1 ♀

Viverra zibetha or Felis nebulosa
Yado & Caro-Cheba, Burma
(Nn.II.357)
L. Fea
Labelled "Prosopodon gestroi"
(Supino 1897) of which it must
be a COTYPE (in same tube as
R. haemaphysaloides).
Genoa Mus. No. given me. 22.

CURRENT STATUS

N 2958
RML 70007
1 ♀ Haemaphysalis aborensis
In same tube as N 2957
Burma
L. Fea
Cited: Nuttall & Warburton
(1915: 402); Hoogstraal et al
(1971: 758).

N 2959
RML 111851
1 ♀ Haemaphysalis asiaticus
SYNTYPE of Opisthodon gestroi
Viverra zibetha or Neofelis nebulosa
Yado & Caro-Cheba, Burma (locality
not verified)
L. Fea
Supino (1897: 238), original
description of Opisthodon gestroi.
Cited: Neumann (1897: 357);
Nuttall & Warburton (1915: 475).

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	2960	N	2960
	<u>Haemaphysalis leachi</u> 1♂ labelled " <u>Prosopodon canestrinii</u> " (Supino, 1897) a CO-TYPE?	RML	111852
	<u>Centrocoecyx intermedius</u> <u>Felis bengalensis</u> , <u>Nicoria trijuga</u> & <u>Testudo elongata</u>		1♂ <u>Haemaphysalis</u> sp. Syntype of <u>Opisthodon canestrinii</u>
	Bhamo, Burma		<u>Centropus sinensis intermedius</u> , <u>Felis bengalensis</u> , <u>Nicoria trijuga</u> , & <u>Testudo elongata</u> (names obviously unreliable).
	L. Fea		Bhamo (24.16 N, 97.14 E), Burma
	Genoa Mus. No. given me. 23.		L. Fea
			Supino (1897: 237) original description of <u>O. canestrinii</u> . Cited: Neumann (1897: 357); Nuttall & Warburton (1915: 475).
N	2961	N	2961
	<u>Dermacentor auratus</u> 1♂, 2♀ Supino CO-TYPE	RML	111853
	<u>Ursus torquatus</u> & <u>Sus cristatus</u>		1♂, 2♀ <u>Dermacentor auratus</u> Syntypes
	Carin Cheba and Mt. Mooleyit, Burma (Nn II. p. 382 also Gestro p. 8)		<u>Selenarctos thibetanus</u> <u>Sus scrofa cristatus</u>
	L. Fea		Carin Cheba and Mt. Mooleyit, Burma (locality not verified)
	Genoa Mus. No. given me. 26.		L. Fea
			Supino (1897: 235) original description. Cited: Neumann (1897: 382); Arthur (1960b: 157).
			♂ mounted on a slide.
			The ♀'s appear to represent two different species and should be restudied.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2962	N	2962
		RML	86285
	<u>Haemaphysalis birmaniae</u> 4 ♂		2 ♂ <u>Haemaphysalis birmaniae</u> Lectotype & Paralectotype 1 ♂ <u>Haemaphysalis</u> sp. nr. <u>choprai</u>
	<u>Cervulus muntjac</u> & <u>Antherura macrura</u>		<u>Muntiacus muntjac</u> & <u>Antherurus macrourus</u>
	Carin Gheen and Yado-Carin-Ascinii Cheba, Burma		Carin Gheen and Yado Carin Ascinii Cheba, Burma (locality not verified)
	1887-9		1887-9
	L. Fea		L. Fea
	Genoa Mus. No. given me. 27.		Supino (1897: 236) original description. Cited: Neumann (1897: 336); Trapido (1965: 154) selected the lectotype; Hoogstraal et al (1965a: 115); Hoogstraal (1970b: 1228). Hoogstraal & Dhanda (1970: 169) described <u>Haemaphysalis</u> <u>darjeeling</u> , one male of which was from N 2962. This specimen could not be located.
			Note in vial "1 ♂ gone 18.X.1934".
N	2963	N	2963
		RML	111854
	<u>Rhipicephalus haemaphysaloides</u> 1 ♂ Supino CO-TYPE		1 ♂ <u>Rhipicephalus haemaphysaloides</u> Syntype
	Off vegetation		Off vegetation
	Mt. Muleyit, Meteleo also at Thagata, Juva & N.E. of Bomo, Burma		Mt. Muleyit, Meteleo also at Thagata, Juva & N.E. of Bomo, Burma (locality not verified)
	L. Fea		L. Fea
	Genoa Mus. No. given me. 30. (labelled " <u>Rhip. haemaphysaloides</u> <u>ruber</u> ♂").		Supino (1897: 234) original description. Cited: Neumann (1897: 418).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2964

Ixodes globulosus 1 nymph
Supino CO-TYPE

Antherura macrura

Yado Carin Ascinii Cheba, Burma
(Nn III.165)

L. Fea

(labelled "Ix. globulosus ♀")
Genoa Mus. No. given me. 31.

N 2964

RML 111855

1 N Ixodes sp.
SYNTYPE of I. globulosus

Antherurus macrourus

Yado Carin Ascinii Cheba, Burma
(locality not verified)

L. Fea

Supino (1897: 232) original
description. Cited: Neumann
(1899:165).

N 2965

Rhipicephalus haemaphysaloides 1 ♀

Off vegetation

Mt. Muleyit, Meteleo also at
Thagata, Juva & N.E. of Bomo, Burma

L. Fea

Genoa Mus. No. given me. 32.
(labelled "Rhip. haemaphysaloides
ruber Supino ♀. Co-Type)

N 2965

RML 111856

1 ♀ Rhipicephalus haemaphysaloides
SYNTYPE

Off vegetation

Mt. Muleyit, Meteleo also at
Thagata, Juva & N.E. of Bomo, Burma
(locality not verified)

L. Fea

Supino (1897: 234) original
description. Cited: Neumann
(1897: 418).

Vulva removed and mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2966

Ixodes granulatus 4 ♀ CO-TYPESSciurus gordonii, S. rufigenis,
S. striatus, Felis tigrisBhamo, Mooleyis, Tarrawaddy,
Terinzo in Upper & Lower Burma
(Nn. III.165)

L. Fea

Genoa Mus. No. given me. 37.
[Ix. granulatus is a good species
closely allied to Ix. angustus.
G.H.F.M.]

N 2966

RML 111857

4 ♀ Ixodes granulatus SYNTYPESCallosciurus erythraeus gordonii,
Dremomys rufigenis, Tamias sibiricus
striatus, Panthera tigrisBhamo (24.16 N, 97.14 E), Burma
(other localities not verified)

L. Fea

Supino (1897: 232), original
description. Cited: Neumann (1899:
164); figured: Nuttall (1916: 316);
Arthur (1957b: 684).

N 2967

Amblyomma testudinisTestudo elongata, Nicoria trijuga
& Varanus bengalensis

Bhamo, Burma (Nn III.200)

L. Fea

Genoa Mus. No. given me. 38.
("Ixodes testudinis Supino")
Redetermined as Amblyomma supinoi
by L. E. Robinson, 1926.

N 2967

RML 111858

2 ♀ Amblyomma supinoi
SYNTYPES of Ixodes testudinisTestudo elongata, Nicoria trijuga
& Varanus bengalensis (names not
verified)

Bhamo (24.16 N, 97.14 E), Burma

L. Fea

Supino (1897:230), original
description. Cited: Neumann
(1899: 199) as Aponomma testudinis.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2968

Aponomma gervaisi var. lucasi 2 ♂
("Ixodes varanensis Supino" CO-TYPE)

Varanus salvator

Mt. Catcin, Burma (Nn.II.185)

L. Fea

Genoa Mus. No. given me. 39.

N 2968

RML 111859

2 ♂ Aponomma varanensis SYNTYPES
of Ixodes varanensis

Varanus salvator

Mt. Catcin, Burma (locality
not verified)

L. Fea

Supino (1897: 231), original
description. Cited: Neumann
(1897: 185); Kaufman (1972: 336).

N 2969

Amblyomma sublaeve 2 ♂ ("Dermacentor
indicus ♂") CO-TYPE

Off ?

Kokarit, Tenasserim, British Burma

L. Fea

Genoa Mus. No. given me. 40.

Determined as Amblyomma sublaeve
by L. E. Robinson, 1926.

N 2969

RML 111860

2 ♂ Amblyomma javanense SYNTYPES
of Dermacentor indicus

Off ?

Kokarit (spelled Kokarcet in Supino
(1897: 236), Tenasserim Island
(12.35 N, 97.52 E), Burma

L. Fea

Supino (1897: 236), original
description. Cited: Neumann
(1897: 382).

ORIGINAL DETERMINATIONCURRENT STATUS

N 2970

Haemaphysalis birmaniae 1 ♂
1 of 4 TYPESCervulus muntjac & Antheura macruraCarin Gheen and Yado-Carin-Ascini
Cheba, Burma

1887-9

L. Fea

Genoa Mus. No. given me. 44.

[Not H. semermis Nn., as stated by
Neumann, but a good species, distinct
also from H. hystericis].

N 2970

RML 111861

1 ♂ Haemaphysalis birmaniae
ParalectotypeMuntiacus muntjac & Antherurus
macrourusCarin Gheen and Yado Carin Ascini
Cheba, Burma (locality not verified)

1887-9

L. Fea

Supino (1897: 236) original
description. Cited: Neumann
(1897: 336); Trapido (1965: 154)
selected the paralectotype;
Hoogstraal et al (1965a: 115).

N 2971

Rhipicephalus haemaphysaloides 1 ♂
CO-TYPE

Off vegetation

Mt. Muleyit, Meteleo also at Thagata
Juva & N.E. of Bomo, Burma

L. Fea

Genoa Mus. No. given me. 46.

N 2971

RML 111862

1 ♂ Rhipicephalus haemaphysaloides
SYNTYPE

Off vegetation

Mt. Muleyit, Meteleo also at Thagata
Juva & N.E. of Bomo, Burma (locality
not verified)

L. Fea

Supino (1897: 234), original
description. Cited: Neumann
(1897: 418).

ORIGINAL DETERMINATION

N 2972
Amblyomma petersi 1 ♂, 1 ♀
 Off ?
 Uganda, E. Africa
 1909
 Dr. H. Bayon
 Genoa Mus. No. given me. 53.

N 2973
Dermacentor rhinocerotis 2 ♂
 Off ?
 Uganda, E. Africa
 1909
 Dr. H. Bayon
 Genoa Mus. No. given me. A.
 (Picked ex. ca. 40♂)

CURRENT STATUS

N 2972
 RML 111863
 1 ♂, 1 ♀ Amblyomma rhinocerotis
 Off ?
 Uganda
 1909
 Dr. H. Bayon

N 2973
 RML 111864
 2 ♂ Dermacentor rhinocerinus
 Off ?
 Uganda
 1909
 Dr. H. Bayon

ORIGINAL DETERMINATIONCURRENT STATUS

N	2974	N	2974
		RML	111865
	<u>Dermacentor rhinocerotis</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Dermacentor rhinocerinus</u>
	Off ?		Off ?
	Nimula, Uganda, E. Africa		Nimula, Uganda (locality not verified)
	VI.1910		VI.1910
	Dr. H. Bayon		Dr. H. Bayon
	Genoa Mus. No. given me. B		
	(picked ex hundreds in lot)		

Ticks presented by the Deutsches Entomologisches Museum (per Professor Dr. S. Schenkling), Berlin-Dahlem, Germany, 31 July, 1914:-

N	2975	N	2975
		RML	111866
	<u>Hyalomma aegyptium</u> 2 ♀		2 ♀ <u>Hyalomma dromedarii</u>
	Off ?		Off ?
	Kasawaserei, N.W. Persia		Kasawaserei, Iran (locality not verified)
	No date		No date
	Dr. Blau		Dr. Blau
	D.E.M. No. 1		Nuttall apparently entered this collection in his catalogue twice: see N 2904.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2976	N	2976
		RML	111867
	<u>Haemaphysalis bispinosa</u> ♀'s		3 ♀ <u>Haemaphysalis longicornis</u>
	Dog		Dog
	Tsingtau, China		Ching-Tao (36.04 N, 120.19 E), Shantung, Peoples Republic of China
	No date		
	Professor Hoffmann		Professor Hoffmann
	D.E.M. No. 3.		Nuttall apparently entered this collection in his catalogue twice; See 2905.
			Nuttall & Warburton (1915: 433) gave the collection date of 7.VIII.1914 but this is incorrect because the ticks were presented to Nuttall on 31.VII.1914. Cited: Hoogstraal et al. (1968: 1204).
N	2977	N	2977
		RML	111868
	<u>Haemaphysalis hystricis</u> 2 ♀		2 ♀ <u>Haemaphysalis longicornis</u>
	Hedgehog		<u>Erinaceus europaeus</u>
	Tsingtau, China		Ching-Tao (36.04 N, 120.19 E), Shantung, Peoples Republic of China
	No date		No date
	Professor Hoffmann		Professor Hoffmann
	D.E.M. No. 13.		Nuttall apparently entered this collection in his catalogue twice; see 2905z.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2978	N	2978
	<u>Dermacentor niveus</u> 2 ♂'s	RML	111869
	Hedgehog		2 ♂ <u>Dermacentor asper</u> SYNTYPES
	Tsingtau, China		<u>Erinaceus europaeus</u>
	No date		Ching-Tao (36.04 N, 120.19 E), Shantung, Peoples Republic of China
	Professor Hoffmann		No date
	D.E.M. No. 13a.		Professor Hoffmann
	Reexamined 14.VII.1921, <u>not</u> "modestus." We regard it as an atypical variant of <u>D. niveus</u> Nn.		Arthur (1960b:114) original description. Nuttall apparently entered this collection in his catalogue twice; see 2905z, a.
N	2979	N	2979
	<u>Ixodes caledonicus</u> 1 ♀	RML	111870
	Off ?		1 ♀ <u>Ixodes</u> sp.
	Bosnia, Austria-Hungary		Off ?
	No date		Bosnia (44.00 N, 18.00 E), Yugoslavia
	Roeschke coll.		No date
	D.E.M. No. 48.		Roeschke coll.
			Cited: Nuttall (1916: 325).
N	2980	N	2980
	<u>Rhipicephalus sanguineus</u> N's (gorged)	RML	111871
	Dog (Fox-terrier puppy)		23 N <u>Rhipicephalus sanguineus</u>
	Mhow, Central Provinces, India		Dog
	VII.1914		Mhow (22.33 N, 75.46 E), India
	Major T. W. Rudd, A.V.C. Rec'd. 4.VIII.1914.		VII.1914
			Major T.W. Rudd, A.V.C.

Ticks retained from specimens sent for determination by the Indian Museum (per Dr. Annandale), Calcutta, India, 27 July, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2981	N	2981
		RML	111872
	<u>Aponomma gervaisi</u> 3 ♀'s		3 ♀ <u>Aponomma gervaisi</u>
	Bengal Monitor (<u>Varanus bengalensis</u>)		<u>Varanus bengalensis</u>
	Zoological Gardens, Calcutta		Zoological Gardens, Calcutta (22.32 N, 88.22 E), India
	26.I.1914		26.I.1914
	Rec'd. from Dr. N. Annandale		Rec'd. from Dr. N. Annandale
	Indian Mus. No. $\frac{2144}{17}$.		
N	2982	N	2982
		RML	111873
	<u>Amblyomma sublaeve</u> 1 ♂		1 ♂ <u>Amblyomma javanense</u>
	<u>Manis pentadactyla</u>		<u>Manis pentadactyla</u>
	Zoological Gardens, Calcutta		Zoological Gardens, Calcutta (22.32 N, 88.22 E), India
	1.III.1914		1.III.1914
	Rec'd. from Dr. N. Annandale		Rec'd. from Dr. N. Annandale
	Indian Mus. No. $\frac{2145}{17}$		
	L.E.R. det. 1926.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 2983

N 2983

Aponomma gervaisi ♂'s, ♀'s1 ♂, 1 ♀ Aponomma gervaisiVaranus bengalensisVaranus bengalensisNiroddumunai, Trincomali District,
CeylonNiroddumunai (08.31 N, 31.11 E),
Eastern Province, Sri Lanka

II.1914

II.1914

Rec'd. from Dr. N. Annandale

Rec'd. from Dr. N. Annandale

Indian Mus. No. $\frac{CM}{1}$

Slide missing

[2 ♂, 2 ♀ mounted in cells with
other Aponomma sp.]1 ♂, 1 ♀ to Dr. E. Pavlovsky,
Leningrad 9.XI.1925.

Ticks retained from the collection sent for determination by Dr. Georgina Sweet, The Veterinary School, University of Melbourne, Parkville, Melbourne, Victoria, Australia, 18 February, 1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2984	N	2984
		RML	111875
	<u>Ixodes ornithorhynchi</u> 2 ♀, 4 N 0-TYPE		2 ♀, 4 N <u>Ixodes ornithorhynchi</u>
	<u>Platypus</u> sp.		<u>Ornithorhynchus anatinus</u>
	Australia		Australia
	17.IV.1910		17.IV.1910
	Rec'd. from Dr. Georgina Sweet		
	Sweet No. 257		Cited: Nuttall (1916: 329).
	Compared with (a) Lucas' type I. <u>ornithorhynchi</u> Lucas ♀ in the Paris Museum, 31.VII.1914, and found it identical in all respects (The Paris label reads " <u>Ixodes ornithorhynchi</u> ♀, Type Patria ignota," also with (b) a specimen labelled " <u>Ix. ornithorhynchi</u> Lucas ♀, Iles Mariannes, A. Marshe 59.-1888. L. G. Neumann det. 1904." Both (a) & (b) were loaned me by the Paris Museum & were returned by me on 31.VII.1914.		
	G.H.F.N.		
N	2985	N	2985
		RML	111876
	<u>Aponomma trimaculatum</u> 2 N's		2 N <u>Aponomma trimaculatum</u>
	Goanna		<u>Varanus</u> sp.
	Lochinvar, Queensland, Australia		Lochinvar, Queensland, Australia (locality not verified). There is a Lochinvar (32.42 S, 151.29E) in New South Wales.
	Sent 18.II.1914		Sent 18.II.1914
	Rec'd. from Dr. Georgina Sweet		Rec'd. from Dr. Georgina Sweet
	Sweet No. 334.		Tentative ID.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2986	N	2986
		RML	111876
	<u>Aponomma trimaculatum</u> 2 ♂, 2 ♀		3 ♀ <u>Aponomma trimaculatum</u>
	Goanna		<u>Varanus</u> sp.
	Lochinvar, Queensland, Australia		Lochinvar, Queensland, Australia (locality not verified). There is a Lochinvar (32.42 S, 151.29 E) in New South Wales.
	Sent 18.II.1914		Sent 18.II.1914
	Rec'd. from Dr. Georgina Sweet		Rec'd. from Dr. Georgina Sweet
	Sweet No. 334.		Note in vial "1 ♀ missing 2.III.33 G.H.F.N."
N	2987	N	2987
		RML	111877
	<u>Aponomma trimaculatum</u> 3 N		3 N <u>Aponomma trimaculatum</u>
	Brown water snake		Brown water snake
	Lochinvar Station, Queensland, Australia		Lochinvar Station, Queensland, Australia (locality not verified). There is a Lochinvar (32.42 S, 151.29E) in New South Wales.
	Sent 18.II.1914		Sent 18.II.1914
	Rec'd. from Dr. Georgina Sweet		Rec'd. from Dr. Georgina Sweet
	Sweet No. 338		Tentative ID.
N	2988	N	2988
		RML	111878
	<u>Aponomma trimaculatum</u> ♂'s		6 ♂ <u>Aponomma trimaculatum</u>
	On piece of skin, off goanna		On piece of skin, off <u>Varanus</u> sp.
	Adelaide River, Northern Territory S. Australia?		Adelaide River (31.15 S, 131.06 E), Northern Territory, Australia
	Sent 18.II.1914		Sent 18.II.1914
	Rec'd. from Dr. Georgina Sweet		Rec'd. from Dr. Georgina Sweet
	Sweet No. 460.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	2989	N	2989
	<u>Aponomma trimaculatum</u> 2 ♂	RML	111879
	Snake (poisonous, 10 ft. long)		2 ♂ <u>Aponomma trimaculatum</u>
	Sent 18.II.1914		Snake
	Rec'd. from Dr. Georgina Sweet		Australia
	Sweet No. 556.		Sent 18.II.1914
			Rec'd. from Dr. Georgina Sweet
N	2990	N	2990
	<u>Aponomma trimaculatum</u> 2 ♂	RML	111880
	Goanna		2 ♂ <u>Aponomma trimaculatum</u>
	Victoria, W. Australia		<u>Varanus</u> sp.
	Sent 18.II.1914		Victoria, Australia
	Rec'd. from Dr. Georgina Sweet		Sent 18.II.1914
	Sweet No. 1 a. (with N2991).		Rec'd. from Dr. Georgina Sweet
N	2991	N	2991
	<u>Aponomma decorosum</u> 3 ♂	RML	111880
	Goanna		3 ♂ <u>Aponomma decorosum</u>
	Victoria, W. Australia		<u>Varanus</u> sp.
	Sent 18.II.1914		Victoria, Australia
	Rec'd. from Dr. Georgina Sweet		Sent 18.II.1914
	Sweet No. 1. (with N. 2990).		Rec'd. from Dr. Georgina Sweet

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 2992</p> <p><u>Aponomma decorosum</u> 4 ♂, 1 ♀, N's & L</p> <p>On piece of skin of goanna</p> <p>Gunnedah, New South Wales</p> <p>XII.1912</p> <p>Rec'd. from Dr. Georgina Sweet</p> <p>Sweet No. 2.</p>	<p>N 2992</p> <p>RML 111881</p> <p>4 ♂, 1 ♀, 11 N, 2 L <u>Aponomma decorosum</u></p> <p>Attached to 3 pieces of skin of <u>Varanus</u> sp.</p> <p>Gunnedah (30.59 S, 150.15 E), New South Wales, Australia</p> <p>XII.1912</p>
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Ticks received 17.VIII.1914 from Prof. W. B. Herms, Dept. of Entomology, Berkeley, University of California who has had them raised by Mr. Chandler (see his letter or entry in Ticks I ms) extracted:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2993	N	2993
		RML	111882
	<u>Ornithodoros coriaceus</u> eggs & larvae		9 L <u>Ornithodoros coriaceus</u>
	Raised in Berkeley, California		Raised in Berkeley (37.57 N, 122.18 W), California, U.S.A.
	Laid & hatched 4-7.VII.1914		Laid & hatched 4-7.VII.1914
	Rec'd. from Prof. W. B. Herms		Rec'd. from Prof. W. B. Herms
	Extract of Herms' letter of 20.VII.1914. These ticks feed readily on ears of rabbits. Larvae stayed on 5-6 days, nymphs 15-20 minutes. Eggs laid 4.VII.14 had mostly hatched on arrival 17.VIII in Cambridge. The other larvae (all put together in N 2993) hatched out on 7.VII.14. The two N's 2994 (I) fed 19.V.14 as larvae, moulted 6.VI.14 as 1st stage nymphs and <u>without feeding</u> moulted again 26.VI.14 N2994 (ii) are skins of 1st stage N's.		
N	2994	N	2994
		RML	111883
	<u>Ornithodoros coriaceus</u> The 2nd stage N's & first stage N's skins		2 N <u>Ornithodoros coriaceus</u>
	Raised in Berkeley, California		Fed as larvae on ears of rabbit
	Rec'd. 17.VIII.1914		Raised in Berkeley (37.57 N, 122.18 W), California, U.S.A.
	Rec'd. from W. B. Herms		Rec'd. 17.VIII.1914
			Rec'd. from Dr. W. B. Herms.

Ticks from Zoologisches Museum, Berlin, received for determination in 1914. Picked out duplicates as follows:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	2995	N	2995
		RML	111884
	<u>Amblyomma concolor</u> 1 ♀		1 ♀ <u>Amblyomma auricularium</u>
	No data other than "ekt. 6255"		No data other than "ekt. 6255"
			South America
	Berlin No. 240 (L. E. R. det.)		
N	2996	N	2996
		RML	111885
	<u>Haemaphysalis calcarata</u> var. <u>houyi</u> 3 ♂, 1 ♀, 1 N COTYPES		3 ♂, 1 ♀, 1 N <u>Haemaphysalis houyi</u> Lectotype and Paralectotypes
	Off ?		Off ?
	Bate, New Cameroon; Africa		Bade (06.41 N, 17.07 E), Central African Republic
	Dr. Houy coll.		Dr. Houy coll.
	Berlin Mus. No. 279. (leaving 4 ♂, 1 N to return to Berlin)		Nuttall & Warburton (1915: 444), original description. Hoogstraal (1954a: 307) raised the taxon to specific rank; Hoogstraal (1955a: 373) gave coordinates similar to those above. Lectotype designated: Keirans & Brewster (1981: 159).
	[Moritz & Fischer (1981: 351) cited these 4 ♂, 1 N but gave the number 279 as a Nuttall number rather than a Berlin Museum number.-J.E.K.]		♀ vulva removed and mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 2997 N 2997 MISSING

Ixodes ricinus N's, L's

On a lizard Lacerta muralis

Schorfheide, Berlin, Joachimstal,
Germany

8.VI.1888

Möbius coll.

(two lizards rec'd., the more
heavily infested specimen returned;
lizard det'd. by Dr. Gadow here
in Cambridge.)

Berlin Mus. No. 352.

N 2998 N 2998 MISSING

Rhipicephalus sanguineus 1 ♂, 1 ♀

Off ?

Central Mesopotamia

21.III.1913

Dr. Kohl Coll. "1155/1913"

Expedition of Baron von Oppenheim

Berlin Mus. No. 289.

ORIGINAL DETERMINATIONCURRENT STATUS

N	2999	N	2999
		RML	111886
	<u>Rhipicephalus pulchellus</u> 4 ♂, 4 ♀		4 ♂, 4 ♀ <u>Rhipicephalus pulchellus</u>
	Mule		Mule
	Kiomoni, near Tanga		Kiomoni (05.04 S, 39.03 E), Tanga Region, Tanzania
	10.II.1909		10.II.1909
	(Mule had just arrived from Hodeida in Arabia), rec'd. from Biol. Agric. Inst., Amani "644/1909."		
	Berlin Mus. No. 302.		
N	3000	N	3000
		RML	111887
	<u>Amblyomma variegatum</u> 1 ♀		1 ♂ <u>Amblyomma variegatum</u>
	Off ?		Off ?
	Thies, Senegal, Africa		Thies (14.48 N, 16.56 W), Thies Region, Senegal
	1-10.VII.1908		1-10.VII.1908
	F. W. Riegenbach coll. "1393/1908"		
	Berlin Mus. No. 308.		Both catalogue and vial label state that this specimen is a ♀. It is a ♂.

ORIGINAL DETERMINATION

N 3001

Amblyomma eburneum 5 ♂, 3 ♀

Off ?

Amani, G. E. Africa

Sent by Kaiserl. Biol. Inst.,
Amani "1058/1912"

Berlin Mus. No. 312.
(15 ♂ & 5 ♀ returned).

N 3002

Aponomma exornatum 2 ♂

Varanus sp. (inside nostrils)

Chifumbuzi, Portuguese E. Africa

10.X.1905

W. Tiester coll 1092/1905

Berlin Mus. No. 317.

CURRENT STATUS

N 3001

RML 111888

2 ♂, 2 ♀ Amblyomma eburneum
3 ♂, 1 ♀ Amblyomma gemma

Off ?

Amani (05.06 S, 38.38 E), Tanzania

1912

Sent by Kaiserl. Biol. Inst.,
Amani "1058/1912"

The A. eburneum collection
cited by Robinson (1926: 119).

N 3002

RML 111889

2 ♂ Aponomma exornatum

Varanus sp. (inside nostrils)

Possibly Mt. Chifumbazi
(14.20 S, 32.55 E), Mozambique

10.X.1905

W. Tiester coll 1092/1905

ORIGINAL DETERMINATIONCURRENT STATUS

N 3003

Amblyomma splendidum ♂'s, ♀'s

Buffalo

Between Gaza & Baturi
New-Cameroon

No date

Lieut. Naumann coll. "383/1914"

(Picked out of a lot of 49)
Berlin Mus. No. 320.

N 3003

RML 111890

10 ♂, 2 ♀ Amblyomma splendidumSyncerus cafferProbably between Gazi (06.21 N,
14.20 E) and Batouri (07.01 N,
14.53 E), Cameroon

Probably 1914

Lieut. Naumann coll. "383/1914"

N 3004

Dermacentor circumguttatus 2 ♂

Off ?

Hinterland Alen, Spanish Guinea

VII.1906-I.1907

Fessmann coll.

Berlin Mus. No. 321a.
(Had been correctly det'd. by Dönitz,
witness his original label in Berlin
tube returned with 2 ♂).

N 3004

RML 111891

2 ♂ Dermacentor circumguttatus

Off ?

Alen, Equatorial Guinea (locality
not verified; 15 possible localities)

VII.1906-I.1907

Fessmann coll.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3005

Ixodes rasmus 1 ♀

Wild pig

Cameroon

Dr. Schäfer coll. "416/1914"

Berlin Mus. No. 325
(Dönitz's det. correct,
sent back a 2nd ♀).

N 3005

RML 111892

1 ♀ Ixodes rasmusSus scrofa

Cameroon

Probably 1914

Dr. Schäfer coll. "416/1914"

Cited: Nuttall (1916: 331).

N 3006

Rhipicephalus longicoxatus 2 ♂
(N.B. ILL characterized)Hippotragus equinus

German E. Africa

Dr. Schellhase coll. "1186/1912"

Berlin Mus. No. 328
(5 ♂ returned)Determination revised 11.XI.1935
after C. W.'s exam. G.H.F.N.

N 3006

RML 111893

1 ♂ Rhipicephalus muelhensiHippotragus equinus

Tanzania

Probably 1912

Dr. Schellhase coll. "1186/1912"

Cited: Hoogstraal (1954b: 278).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3007	N	3007
		RML	111894
	<u>Ixodes</u> sp. (? <u>brunneus</u> 1 N)		1 N <u>Ixodes</u> sp.
	Birds (No. 3, 1989, 1994, 2004, I.352)		Birds
	German New Guinea		Papua New Guinea
			Probably 1913
	Dr. Bürger's coll. "880/1913"		Dr. Bürger's coll. "880/1913"
	Berlin Mus. No. 344. (2 N returned).		
N	3008	N	3008
		RML	111895
	<u>Haemaphysalis cinnabarina</u> , 1 N		1 N <u>Haemaphysalis</u> sp.
	<u>Turdus viscivorus</u>		<u>Turdus viscivorus</u>
	Gouv. Poltava, Russia		Poltava (49.35 N, 34.34 E), Ukrainian S.S.R., U.S.S.R.
	20.IV.1907		20.IV.1907
	Berlin Mus. No. 353. (No further data, 1 N returned).		
N	3009	N	3009 MISSING
	<u>Ixodes ricinus</u> N		
	<u>Turdus merula</u>		
	Rumowschina Gouv. Poltava, Russia		
	15.IV.1907		
	Berlin Mus. No. 356 (No further particulars, many returned).		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3010

Ixodes putus 1 N, 2 L..... fuliginosus

17.XII.1901

Berlin Mus. No. 364.
 Deutsche Südpolar
 Exped. 1901-1903.
 (Returned the rest: 1 ♀, 2 N, 5 L;
 had been correctly det'd. by
 P. Speiser).

N 3010

RML 111896

1 N, 2 L Ixodes uriae

Possibly Phoebetria fusca (= P. fuliginosa) which ranges between 50° and 30° S. lat. in the southern Atlantic & Indian Oceans.

17.XII.1901

N 3011

Haemaphysalis spinigera var. novae-guineae 4 ♂, 4 ♀, 4 NPerameles dorevanus

Astrolabe Bay, German New Guinea

Kaufmann "8346"

Berlin Mus. No. 185.

N 3011

RML 111897

4 ♂, 4 ♀, 4 N Haemaphysalis novaeguineaeEchymipera kalubu

Astrolabe Bay (05.20 S, 145.50 E), Papua New Guinea

Kaufmann "8346"

Cited: Nuttall & Warburton (1915: 452)

The vial label gives the revised host name.

N 3012

Rhipicephalus cuneatus 4 ♂, 2 ♀

Cattle

Cameroon

Berlin Mus. No. 95.
 (No further data).

N 3012

RML 111898

5 ♂, 2 ♀ Rhipicephalus ziemanni

Cattle

Cameroon

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3013	N	3013
		RML	111899
	<u>Hyalomma aegyptium</u> 2 ♂, 2 ♀		1 ♂, 1 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Wild boar ("No. 547")		<u>Sus scrofa</u>
	Tall Halaf, Central Mesopotamia		Tall Halaf (36.49 N, 40.01 E), Al Hasakah, Syria
	6.VIII.1913		6.VIII.1913
	Dr. Kohl coll. "1155/1913" Exped. of Baron von Oppenheim		Dr. Kohl coll. "1155/1913" Exped. of Baron von Oppenheim
	Berlin Mus. No. 285. (4 ♂, ♀ returned).		
	Ticks from the Imperial Bureau of Entomology. Rec'd. 13.VI.1913.		
N	3014	N	3014
		RML	111900
	<u>Amblyomma cohaerens</u>		36 ♂, 10 ♀, 1 N <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Shot near Villa Maria, Buddu, Uganda		Villa Maria (00.14 S, 31.44 E), District of Buganda, Uganda
	25.XII.1913		25.XII.1913
	F. A. Knowles		F. A. Knowles
	Bureau No. 693. (Picked from about 300 spec's. for variation).		Cited: Robinson (1926: 110). ♂ specimens in separate vial.

ORIGINAL DETERMINATIONCURRENT STATUS

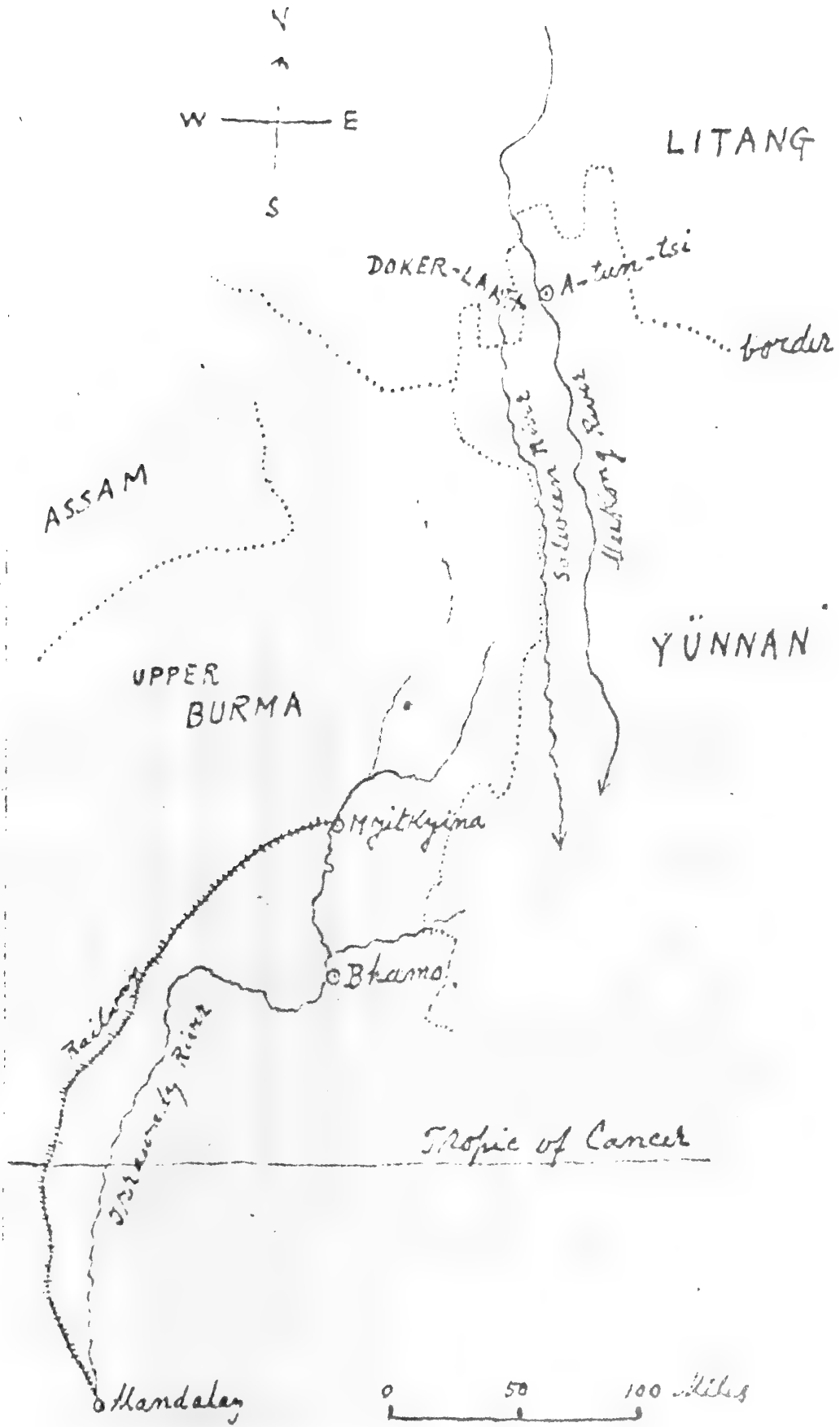
<p>N 3015</p> <p><u>Amblyomma cohaerens</u></p> <p>Buffalo</p> <p>Shot at Mpenga, Gomba, Uganda</p> <p>19.XII.1912</p> <p>F. A. Knowles</p> <p>Bureau No. 694. (picked for variation out of ca. 360). (2 ♂, 2 ♀ mounted in cells on slides II.1915).</p>	<p>N 3015</p> <p>RML 111901</p> <p>23 ♂, 44 ♀, 1 N <u>Amblyomma cohaerens</u></p> <p><u>Syncerus caffer</u></p> <p>Either Mpenja (00.10 N, 32.41 E), or (00.14 N, 32.03 E), District of Buganda, Uganda</p> <p>19.XII.1912</p> <p>F. A. Knowles</p> <p>♂ specimens in separate vial.</p>
<p>N 3016, a</p> <p>(3016) <u>Amblyomma gemma</u> 1 ♂, 1 ♀ [the ♀ mounted on a slide in cell] (a) <u>Hyalomma aegyptium</u> 1 ♂, 3 ♀</p> <p>East Africa</p> <p>Rec'd. alive on 2.IX.1913 from H.S. Leeson (Newstead's Lab'y., Liverpool School of Trop. Med.)</p> <p>(Presented by Prof. Newstead per H. S. Leeson 11.IX.1914) Newstead No. 319. <u>A. gemma</u> ♂, ♀ scutums painted in colours whilst alive by Edwin Wilson 3-4.IX.1914 on my outlines drawn to scale.</p> <p>G.H.F.N.</p>	<p>N 3016, a</p> <p>RML 111902</p> <p>(3016) 1 ♂ <u>Amblyomma gemma</u></p> <p>(a) 1 ♂ <u>Hyalomma dromedarii</u></p> <p>East Africa</p> <p>Rec'd. alive on 2.IX.1913 from H.S. Leeson (Newstead's Lab'y., Liverpool School of Trop. Med.)</p> <p>(3016) Cited & figured: Nuttall (1920: 1, pl I, fig. 5); figure repeated in Robinson (1926, pl I, fig. 5).</p> <p>Slide missing.</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	3017	N	3017
		RML	111903
	<u>Boophilus</u> sp. 1 N		1 ♀ <u>Boophilus microplus</u>
	<u>Pachyura murina</u>		<u>Suncus murinus</u>
	Manila, Philippine Islands		Manila (14.35 N, 121.00 E), Philippines
	3.XI.1910		3.XI.1910
	M. B. Mitzmain (with mites)		M. B. Mitzmain
	Mitzmain No. 33.		
N	3018	N	3018
		RML	111904
	<u>Ornithodoros moubata</u> all stages, alive		6 ♂, 5 ♀, 100 N <u>Ornithodoros</u> <u>moubata</u>
	From native huts		From native huts
	Chitambo Station, Serenje N. Rhodesia		Chitambo Station, Serenje (13.14 S, 30.14 E), Zambia
	Rec'd. 10.IX.1914		Rec'd. 10.IX.1914
	M. Moffat		M. Moffat
	Sent by L. E. Robinson (Watford). Kept for raising.		

Ticks received 26.IX.1914 from F. Kingdon Ward B.A. (Christs), collected off himself (man) in Hpimaw District, Upper Burma, 6000-8000 ft. altitude in the jungle. 3 ticks:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3019, a, b	N	3019, a, b
		RML	22283
	(3019) <u>Ixodes acutitarsus</u> 1 ♀ unfed		(3019) 1 ♀ <u>Ixodes acutitarsus</u>
	(a) <u>Ixodes japonensis</u> 1 ♂		(a) 1 ♂ <u>Ixodes ovatus</u>
	(b) <u>Rhipicephalus haemaphysaloides</u> 1 ♀ unfed		(b) 1 ♀ <u>Rhipicephalus haemaphysaloides</u>
	Man		<u>Homo sapiens</u>
	Hpimaw outpost, Myitkyina, Upper Burma		Hpimaw (26.01 N, 98.37 E), Myitkyina District, Kchin State, Burma
	Rec'd. 26.IX.1914		Rec'd. 26.IX.1914
	F. K. Ward		F. K. Ward
	3019, a (G.H.F.N. det.)		(3019, a) Cited: Nuttall
	3019 b (C. Warburton det.)		(1916: 306, 325); Hoogstraal (1970c: 80).
	<u>Note:</u> This map shows places whence F. K. Ward sent specimens including <u>Mites</u> q. v. Mrs. Ward, his mother writes 29.IX.14 that Hpimaw is a new outpost in the Myitkyina District 12 days journey from Myitkyina itself, where the railway from Rangoon ends (N.N.W. from Bhamo). See the map.		
N	3020	N	3020
		RML	111905
	<u>Argas persicus</u> adults & 1st stage N's, unfed larvae		2 ♀, 28 N, 179 L <u>Argas persicus</u>
	Beni-Ounif, Algeria		Beni Ounif (32.03 N, 01.15 W), Algeria
	Presented 29.IX.1914		Presented 29.IX. 1914
	Presented by Dr. E. Hindle.		Presented by Dr. E. Hindle.



Map 1.--Collecting locality for N 3019, a, b.

ORIGINAL DETERMINATIONCURRENT STATUS

Ticks received 2.X.1914 from H. C. Myers, Ph.D., Box 442, Spokane, Washington, U.S.A.

N	3021	N	3021
		RML	111906
	<u>Dermacentor venustus</u> 1 ♀		1 ♀ <u>Dermacentor andersoni</u>
	Cat		Cat
	Blacktail, Idaho, U.S.A.		Blacktail (48.07 N, 116.30 W), Idaho, U.S.A.
	17.IV.1914		17.IV.1914
	Rec'd from Dr. H. C. Myers (C. Warburton det.).		Rec'd from Dr. H. C. Myers
N	3022	N	3022
		RML	111907
	<u>Dermacentor venustus</u> 2 ♀		2 ♀ <u>Dermacentor andersoni</u>
	Dog		Dog
	Blacktail, Idaho, U.S.A.		Blacktail (48.07 N, 116.30 W), Idaho, U.S.A.
	23.IV.1914		23.IV.1914
	Rec'd from Dr. H. C. Myers (C. Warburton det.).		Rec'd from Dr. H. C. Myers

ORIGINAL DETERMINATIONCURRENT STATUS

N	3023	N	3023
		RML	111908
	<u>Haemaphysalis chordeilis</u> ♂'s, ♀'s		2 ♂, 15 ♀ <u>Haemaphysalis chordeilis</u>
	Calves		Calves
	Ashern, Manitoba, Canada (116 miles N.W. of Winnipeg)		Ashern (51.11 N, 98.21 W), Manitoba, Canada
	17.IX.1914		17.IX.1914
	Rec'd. 4.X.1914 from J.R.N. Harrison		Rec'd. 4.X.1914 from J.R.N. Harrison
	Some of the gorged ♀'s alive & kept for raising but died without result.		Cited: Nuttall & Warburton (1915: 376).
N	3024	N	3024
		RML	111909
	<u>Haemaphysalis humerosa</u> 2 ♀, 2 N		2 ♀, 2 N <u>Haemaphysalis humerosa</u>
	<u>Perameles macrura</u>		<u>Isoodon macrourus</u>
	Stapleton, Northern Territory, Australia		Stapleton, Northern Territory, Australia (locality not verified)
	31.XI.1913		31.XI.1913
	G.F. Hill		G.F. Hill
	Presented by L. Harrison 26.X.1914 Harrison No. 23.		Cited: Nuttall & Warburton (1915: 497).
			Launcelot Harrison (1880-1928) Challis Professor of Zoology, University of Sydney and President, Linnaean Society of New South Wales. He worked for a time in Professor Nuttall's laboratory. He suffered from both typhus and malaria and died at 48.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3025	N	3025
	<u>Haemaphysalis humerosa</u> 6 ♂	RML	111910
	<u>Perameles nasuta</u>		6 ♂ <u>Haemaphysalis humerosa</u>
	Sydney, New South Wales		<u>Perameles nasuta</u>
	III.1913		Sydney (33.52 S, 151.13 E), Australia
	L. Harrison, presented 26.X.1914		III.1913
	Harrison No. 13.		L. Harrison, presented 26.X.1914
			Cited: Nuttall & Warburton (1915: 498)
N	3026	N	3026
	<u>Haemaphysalis chordeilis</u> 2 ♂, 2 ♀	RML	111911
	Cattle		2 ♂, 2 ♀ <u>Haemaphysalis chordeilis</u>
	Stonewall, Manitoba, Canada		Cattle
	14.IX.1911		Stonewall (50.08 N, 97.19 W), Manitoba, Canada
	J. D. Ross		14.IX.1911
	Rec'd. from Dr. S. Hadwen, X.1914.		J. D. Ross
			Cited: Nuttall & Warburton (1915: 376).
N	3027	N	3027
	<u>Haemaphysalis chordeilis</u> 1 ♂	RML	111912
	Man		1 ♂ <u>Haemaphysalis chordeilis</u>
	Kamloops, British Columbia, Canada		<u>Homo sapiens</u>
	IX.1914		Kamloops (50.40 N, 120.20 W), British Columbia, Canada
	Dr. S. Hadwen		IX.1914
			Dr. S. Hadwen
			Cited: Nuttall & Warburton (1915: 376).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3028

Argas persicus

Cannibalism! specimens killed in the act by Dr. S. Hindle. Probably from the lot rec'd. from Beni-Ounif, Algeria, but not noted.

N 3028

RML 111913

2 ♀ Argas persicus

Cannibalism! specimens killed in the act by Dr. S. Hindle. Probably from the lot rec'd. from Beni-Ounif (32.03 N, 01.15 W), Algeria, but not noted.

These specimens are in a jar marked "Tick Abnormalities."

Ticks rec'd. 4.XI.1914 from L. C. Heath, Kalomo, near Livingstone, N.W. Rhodesia, who writes 5.X.1914 that they were collected on a shooting trip in the Namwala District by his friends Mssrs. Scott & Cunningham. [If they are n. sp., Heath says that they might be called after these gentlemen]. Letter destroyed:-

N 3029

Amblyomma pomposum 2 ♂

Sable antelope

Namwala District, N.W. Rhodesia

13.VIII.1914

Scott & Cunningham

N 3029

RML 111914

2 ♂ Amblyomma pomposumHippotragus niger

Namwala District (16.00 S, 26.15 E), Southern Province, Zambia

13.VIII.1914

Scott & Cunningham

Cited: Robinson (1926: 100).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3030	N	3030
	<u>Rhipicephalus evertsi</u> 1 ♂	RML	111915
	Roan antelope		1 ♀ <u>Rhipicephalus evertsi</u>
	Namwala District, N.W. Rhodesia		<u>Hippotragus equinus</u>
	7.IX.1914		Namwala District (16.00 S, 26.15 E), Southern Province, Zambia
	Scott & Cunningham		7.IX.1914
			Scott & Cunningham
N	3031	N	3031
	<u>Rhipicephalus evertsi</u> 1 ♂	RML	111916
	Waterbuck		1 ♂ <u>Rhipicephalus evertsi</u>
	Namwala District, N.W. Rhodesia		<u>Kobus ellipsiprymnus</u>
	13.IX.1914		Namwala District (16.00 S, 26.15 E), Southern Province, Zambia
	Scott & Cunningham		13.IX.1914
			Scott & Cunningham
N	3032	N	3032
	<u>Amblyomma pomposum</u> 2 ♂	RML	111917
	Eland		2 ♂ <u>Amblyomma pomposum</u>
	Kafur River, Namwala District, N.W. Rhodesia		<u>Taurotragus oryx</u>
	18.VIII.1914		Kafur River (15.56 S, 28.55 E), Namwala District, Southern Province, Zambia
	Scott & Cunningham		18.VIII.1914
			Scott & Cunningham
			Cited: Robinson (1926: 100).

ORIGINAL DETERMINATIONCURRENT STATUS

N

3033

Rhipicephalus neavei

Bush pig

Namwala District, N. W. Rhodesia

10. IX. 1914

Scott & Cunningham

26 tubes of ticks rec'd. 3.XI.1914 from Dr. John J. Wood, Kalalla, Koinadugu District, Sierra Leone Protectorate:-

N

3034, a-c

(3034) Rhipicephalus lunulatus ♂'s
& ♀'s
(a) Amblyomma splendidum 1 ♂
(b) Amblyomma variegatum ♂'s & ♀'s
(c) Boophilus australis ♀'s

Cattle

Kulakunko, Sierra Leone

27.VII.1914

Rec'd. from Dr. J. J. Wood

N

3033 MISSING

N

3034, a-c

RML 111918

(3034) 22 ♂, 12 ♀ Rhipicephalus lunulatus
(3034) 1 ♀ Rhipicephalus senegalensis
(3034) 1 ♀ Amblyomma variegatum
(a) 1 ♂ Amblyomma splendidum
(b) 30 ♂, 8 ♀ Amblyomma variegatum
(c) 12 ♀ Boophilus geigy

Cattle

Kulakunko, Sierra Leone (locality not verified)

27.VII.1914

Rec'd. from Dr. J. J. Wood

(3034a) Cited: Robinson (1926: 125).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3035, a	N	3035, a
		RML	111919
	(3035) <u>Rhipicephalus sanguineus</u> 5 ♀'s (a) <u>Haemaphysalis leachi</u> 1 ♂, 3 ♀'s		(3035) 4 ♀ <u>Rhipicephalus sanguineus</u> (a) 1 ♂, 3 ♀ <u>Haemaphysalis leachi</u>
	Dogs		Dogs
	Falaba, Sierra Leone		Falaba, Sierra Leone (locality not verified; 6 possible localities)
	16.VIII.1914		16.VIII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
N	3036, a	N	3036, a
		RML	111920
	(3036) <u>Boophilus australis</u> ♀'s (a) <u>Rhipicephalus falcatus</u> 2 ♂'s		(3036) 3 ♀ <u>Boophilus geigy</u> (a) 2 ♂ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Gbenekoro, Sierra Leone		Binkolo (08.57 N, 11.59 W), Sierra Leone
	15.VIII.1914		15.VIII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
N	3037, a, b	N	3037, b
		RML	111921
	(3037) <u>Rhipicephalus lunulatus</u> ♂'s, ♀'s (a) <u>Amblyomma variegatum</u> 2 ♂'s & 2 ♀'s (b) <u>Boophilus australis</u> 4 ♀'s		(3037) 6 ♂, 7 ♀ <u>Rhipicephalus lunulatus</u> (a) MISSING (b) 4 ♀ <u>Boophilus geigy</u>
	Goat		Goat
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	18.VII.1914		18.VII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	3038	N	3038
		RML	111922
	<u>Haemaphysalis leachi</u>		37 ♂, 12 ♀ <u>Haemaphysalis leachi</u>
	Cerval		<u>Felis serval</u>
	Kaballa, Sierra Leone		Kabala (09.35 N, 11.33 W), Sierra Leone
	17.IX.1914		17.IX.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
	2 ♂, 2 ♀ to Prof. E. Brumpt, Paris.		
N	3039	N	3039
		RML	111923
	<u>Aponomma laeve</u> ♂'s, ♀'s		11 ♂, 3 ♀ <u>Aponomma latum</u>
	Small python		<u>Python</u> sp.
	Kaballa		Kabala (09.35 N, 11.33 W), Sierra Leone
	24.IX.1914		24.IX.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
			Note in vial "5 ♂, 1 ♀ removed 13/6/36 Bertram".
N	3040, a	N	3040, a
		RML	111924
	(3040) <u>Boophilus australis</u> ♀'s		(3040) 21 ♀ <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u> 3 ♂'s, 1 ♀		(a) 3 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Dog		Dog
	Kulakunko, Sierra Leone		Kulakunko, Sierra Leone (locality not verified)
	27.VII.1914		27.VII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3041, a, b

(3041) Boophilus australis ♂ & ♀'s(a) Rhipicephalus sanguineus 3 ♂'s, 2 ♀(b) Haemaphysalis leachi 1 ♂

Dogs

Kinkintumania, Sierra Leone

18.VII.1914

Rec'd. from Dr. J. J. Wood

N 3041, a, b

RML 111925

(3041) 1 ♂, 13 ♀, 1 N Boophilus
geigy(a) 3 ♂, 3 ♀ Rhipicephalus sanguineus(b) 1 ♂ Haemaphysalis leachi

Dogs

Kinkintumania, Sierra Leone
(locality not verified)

18.VII.1914

Rec'd. from Dr. J. J. Wood

N 3037 and others more often spell
the locality Ninkintumania.

N 3042

Amblyomma marmoreum ♂'s

Tortoise

Kaballa, Sierra Leone

23.IX.1914

Rec'd. from Dr. J. J. Wood

N 3042

RML 111926

4 ♂ Amblyomma nuttalli

Tortoise

Kabala (09.35 N, 11.33 W),
Sierra Leone

23.IX.1914

Rec'd. from Dr. J. J. Wood

Cited: Santos Dias (1958: 513);
Theiler & Salisbury (1959: 115).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3045, a	N	3045
		RML	111929
	(3045) <u>Boophilus australis</u> ♀'s & N (a) <u>Amblyomma variegatum</u> ♂ & ♀		(3045) 117 ♀, 2 N <u>Boophilus geigy</u> (a) MISSING
	Cattle		Cattle
	Falaba, Sierra Leone		Falaba, Sierra Leone (locality not verified; 6 possible localities)
	19.VIII. -		19.VIII. -
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
N	3046, a	N	3046
		RML	111930
	(3046) <u>Boophilus australis</u> 11 ♀'s (a) <u>Amblyomma variegatum</u> 10 ♂, 1 ♀		(3046) 11 ♀ <u>Boophilus geigy</u> (a) MISSING
	Goats		Goats
	Gahnia, Sierra Leone		Gahnia, Sierra Leone (locality not verified)
	18.VIII.1914		18.VIII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
N	3047, a	N	3047, a
		RML	111931
	(3047) <u>Boophilus australis</u> 5 ♀'s (a) <u>Haemaphysalis leachi</u> 1 ♀		(3047) 5 ♀ <u>Boophilus geigy</u> (a) 1 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Kombile, Sierra Leone		Kombile, Sierra Leone (locality not verified)
	21.VIII.1914		21.VIII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	3048, a-e	N	3048, a-e
		RML	111932
	(3048) <u>Amblyomma variegatum</u> ♂'s & ♀'s		(3048) MISSING
	(a) <u>Rhipicephalus lunulatus</u> ♂'s & ♀'s		(a) 9♂, 33♀ <u>Rhipicephalus lunulatus</u>
	(b) <u>Rhipicephalus falcatus</u> ♂'s & ♀'s		(a) 4♂, 1♀ <u>Rhipicephalus senegalensis</u>
	(c) <u>Boophilus australis</u> ♂'s & ♀'s		(b) 20♂, 32♀ <u>Rhipicephalus senegalensis</u>
	(d) <u>Rhipicephalus sanguineus</u>		(c) 6♀, 1 N <u>Boophilus geigy</u>
	(e) <u>Haemaphysalis leachi</u> 1♂		(d) 3♂, 2♀ <u>Rhipicephalus sanguineus</u>
	Cattle		(d) 1♂ <u>Rhipicephalus senegalensis</u>
	Dunkiawallia, Sierra Leone		(e) 1♂ <u>Haemaphysalis leachi</u>
	17.VII.1914		Cattle
	Rec'd. from Dr. J. J. Wood		Dunkiawallia, Sierra Leone (locality not verified)
			17.VII.1914
			Rec'd. from Dr. J. J. Wood
N	3049, a	N	3049
		RML	111933
	(3049) <u>Boophilus australis</u> ♀'s		(3049) 1♂, 6♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> ♂'s & ♀'s		(a) MISSING
	Cattle		Cattle
	Gahnia, Sierra Leone		Gahnia, Sierra Leone (locality not verified)
	17-18.VIII.1914		17-18.VIII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J.J. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	3050, a-c	N	3050, b, c
		RML	111934
	(3050) <u>Boophilus australis</u> 1 ♂ & ♀'s		(3050) 1 ♂, 25 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> 2 ♂'s & 2 ♀'s		(a) MISSING
	(b) <u>Rhipicephalus falcatus</u> 3 ♂'s & 3 ♀'s		(b) 3 ♂, 3 ♀ <u>Rhipicephalus senegalensis</u>
	(c) <u>Rhipicephalus lunulatus</u> ♂'s & ♀'s		(c) 7 ♂, 10 ♀ <u>Rhipicephalus lunulatus</u>
	Cattle		Cattle
	Kamadugu, Securella, Sierra Leone		Kamadugu Sokurela (09.26 N, 11. 29 W), Sierra Leone
	30.VII.1914		30.VII.1914
	Rec'd. from Dr. J. J. Wood		Rec'd. from Dr. J. J. Wood
N	3051, a	N	3051, a
		RML	111935
	(3051) <u>Rhipicephalus lunulatus</u> ♀		(3051) 1 ♀ <u>Rhipicephalus lunulatus</u>
	(a) <u>Rhipicephalus sanguineus</u> var. <u>sulcatus</u> ♀		(a) 1 ♀ <u>Rhipicephalus sanguineus</u>
	One off self, one off dispenser in hospital		<u>Homo sapiens</u> (1), Dispenser in hospital (1)
	Sonkonia, Koinadugu District, Sierra Leone		Sonkonia (09.43 N, 11.23 W), Sierra Leone
	Dr. J. Y. Wood		Dr. J. Y. Wood
			As noted earlier Dr. Wood's name was entered into the catalogue as both J. J. and J. Y. His correct middle initial is Y, as cited by Nuttall in his annual report for 1914.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3052, a, b	N	3052 a, b
		RML	111936
	(3052) <u>Amblyomma variegatum</u> 1 ♂, 3 ♀		(3052) MISSING
	(a) <u>Rhipicephalus falcatus</u> 3 ♀		(a) 3 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Rhipicephalus lunulatus</u> 1 ♂, 2 ♀		(b) 1 ♂, 1 ♀ <u>Rhipicephalus lunulatus</u>
			(b) 1 ♀ <u>Rhipicephalus senegalensis</u>
	Cattle		Cattle
	Ninkintumania, Sierra Leone		Ninkintumania, Sierra Leone (locality not verified)
	18.IX.1914		18.IX.1914
	Dr. J. Y. Wood		Dr. J. Y. Wood
N	3053, a-c	N	3053, a, c
		RML	111937
	(3053) <u>Boophilus australis</u>		(3053) 1 ♂, 75 ♀ <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u>		(a) 16 ♂, 16 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Amblyomma variegatum</u>		(b) MISSING
	(c) <u>Haemaphysalis leachi</u> 1 ♂, 1 ♀		(c) 1 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	Cattle		Cattle
	Boalakarafaia, Sierra Leone		Boalakarafaia (09.37 N, 11.00 W), Sierra Leone
	22.VIII.1914		22.VIII.1914
	Dr. J. Y. Wood		Dr. J. Y. Wood
			<u>Haemaphysalis leachi</u> vial label incorrectly numbered 3035C.

ORIGINAL DETERMINATION

N 3054, a-e

(3054) Rhipicephalus lunulatus ♀'s,

(a) Rhipicephalus falcatus ♂'s, ♀'s

(b) Rhipicephalus sanguineus 2 ♂

(c) Boophilus australis 1 ♂, ♀'s

(d) Amblyomma variegatum 4 ♂, 1 ♀

(e) Haemaphysalis leachi 1 ♂

Sheep

Kinkintumania, Sierra Leone

11.VII.1914

Dr. J. Y. Wood

CURRENT STATUS

N 3054, a-c, e

RML 111938

(3054) 17 ♂, 34 ♀ Rhipicephalus lunulatus

(3054) 4 ♂, 2 ♀ Rhipicephalus senegalensis

(a) 11 ♂, 18 ♀ Rhipicephalus senegalensis

(a) 1 ♀ Rhipicephalus sanguineus

(b) 2 ♂ Rhipicephalus sanguineus

(c) 2 ♂, 19 ♀ Boophilus geigy

(d) MISSING

(e) 1 ♂ Haemaphysalis leachi

Sheep

Kinkintumania, Sierra Leone
(locality not verified)

11.VII.1914

Dr. J. Y. Wood

(3054a) cited: Clifford & Anastos (1962: 21). The vial label for this collection bears the data ex cattle, Yeria, Sierra Leone, 21.VII.1912, Dr. J. Y. Wood. The label data are probably incorrect because they correspond to collection data for N3055 immediately following.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3055, a-c	N	3055, a, b
		RML	111939
	(3055) <u>Rhipicephalus lunulatus</u> ♂'s, ♀'s		(3055) 21 ♂, 54 ♀ <u>Rhipicephalus lunulatus</u>
	(a) <u>Rhipicephalus falcatus</u>		(3055) 2 ♀ <u>Rhipicephalus senegalensis</u>
	(b) <u>Boophilus australis</u> ♀'s		(a) 4 ♂, 9 ♀ <u>Rhipicephalus senegalensis</u>
	(c) <u>Amblyomma variegatum</u> 5 ♂		(b) 12 ♀ <u>Boophilus geigy</u>
			(c) MISSING
	Cattle		Cattle
	Yeria, Sierra Leone		Perhaps Yaraia (08.56 N, 11.08 W), Sierra Leone
	21.VII.1912		21.VII.1912
	Dr. J. Y. Wood		Dr. J. Y. Wood
N	3056, a	N	3056, a
		RML	111940
	(3056) <u>Boophilus australis</u> 2 ♂'s ♀'s, N's		(3056) 1 ♂, 34 ♀, 1 N <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u> 1 ♂, 1 ♀		(a) 1 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Goats		Goats
	Kulakunko, Sierra Leone		Kulakunko, Sierra Leone (locality not verified)
	20.VII.1914		20.VII.1914
	Dr. J. Y. Wood		Dr. J. Y. Wood

Ticks received back 28.XI.1914 from Imperial Bureau of Entomology
per Guy A. K. Marshall:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3059	N	3059
		RML	111943
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		3 ♂, 4 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Lorha, Northern Territory, Gold Coast, W. Africa		Perhaps Lora (09.23 N, 01.51 W) Northern Region, Ghana
	4.XI.1913		4.XI.1913
	Dr. Corson		Dr. Corson
	Imp. Bur. Ent. No. 882.		
N	3060	N	3060
		RML	111944
	<u>Rhipicephalus sanguineus</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Mityana, Uganda		Mityana (00.24 N, 32.03 E), District of Buganda, Uganda
	VI.1913		VI.1913
	C. C. Gowday (No. 5087)		C. C. Gowday
	Imp. Bur. Ent. No. 883.		
N	3061	N	3061 MISSING
	<u>Amblyomma variegatum</u> 2 ♂, 2 ♀		
	Cattle		
	Tamale, N. Territory, Gold Coast, W. Africa		
	29.VI.1912		
	Dr. Harpir		
	Imp. Bur. Ent. No. 884.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3062

N 3062

RML 111945

Rhipicephalus falcatus ♂'s, ♀'s24 ♂, 9 ♀ Rhipicephalus senegalensis
1 ♂, 1 ♀ Rhipicephalus lunulatus

Warthog

Phacochoerus aethiopicusDimawa, N. Territory, Gold Coast
W. AfricaPerhaps Dimalla (09.27 N, 00.54 W),
Northern Region, Ghana

Imp. Bur. Ent. No. 885.

N 3063

N 3063 MISSING

Amblyomma variegatum 2 ♂, 2 ♀
(variation)

Off grass

Yapi, N. Territory, Gold Coast,
W. Africa

VI.1914

Dr. J. J. Simpson

Imp. Bur. Ent. No. 886.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3064	N	3064
		RML	111946
	<u>Boophilus australis</u> 4 ♂, 4 ♀		3 ♂, 4 ♀ <u>Boophilus microplus</u>
	"Mpoula" bull dead of Trypanosomiasis		"Mpoula"
	Port Herald, Nyasaland		Port Herald now Nsanje (16.55 S, 35.16 E), Malawi
	10.VIII.1913		10.VIII.1913
	Dr. J.E.S. Old		Dr. J.E.S. Old
	Imp. Bur. Ent. No. 887.		
N	3065	N	3065
		RML	111947
	<u>Haemaphysalis leachi</u> ♀'s (small form with short scutum & concave palps)		4 ♀ <u>Haemaphysalis leachi</u>
	<u>Tachyoryctes audax</u>		<u>Tachyoryctes splendens</u>
	Near Embu, E. of Mt. Kenya, Brit. E. Africa		Near Embu (00.32 S, 37.27 E), Kenya
	2.II.1911		2.II.1911
	S. A. Neave		S. A. Neave
	Imp. Bur. Ent. No. 267.		
N	3066	N	3066
		RML	111948
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		6 ♂, 6 ♀ <u>Rhipicephalus evertsi</u>
	Off ?		Off ?
	Olorogoti, Masai Reserve, Brit. E. Africa		Olorongoti (00.29 S, 36.28 E), Kenya
	XII.1913		XII.1913
	Capt. A. O. Luckman		Capt. A. O. Luckman
	Imp. Bur. Ent. No. 779.		

Ticks received 25.XI.1914 from Indian Museum, Calcutta, per Mr. F. H. Gravely, being pickings from lots of common species to be returned:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	3067	N	3067 MISSING
	<u>Hyalomma aegyptium</u> 2 ♂, 1 ♀, 1 N		
	Mostly off horses		
	Zairat, Baluchistan		
	VIII.1914		
	Major Wilson		
	Ind. Mus. No. $\frac{2165}{17}$.		
N	3068	N	3068
		RML	111949
	<u>Ornithodoros tholozani</u> 5 N		5 N <u>Ornithodoros tholozani</u>
	From empty house		From empty house
	Zairat, Baluchistan		Ziarat, Pakistan (locality not verified; 6 possible localities)
	VIII.1914		VIII.1914
	Major Wilson through Major Stammers		Major Wilson through Major Stammers
	Ind. Mus. No. $\frac{2166}{17}$.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3069	N	3069
		RML	111950
	<u>Amblyomma integrum</u> 4 ♂, 2 ♀		4 ♂, 2 ♀ <u>Amblyomma integrum</u>
	Found under stones and on bushes in jungle (stated to be liable to attack man)		Found under stones and on bushes in jungle (stated to be liable to attack man)
	Barkul, 0-1000 ft., Puri District, Orissa		Barkul, Puri District, Orissa (21.00 N, 84.00 E), India (0-305 m)
	1-3.VIII.1914		1-3.VIII.1914
	F. H. Gravely		F. H. Gravely
	Ind. Mus. No. $\frac{2170}{17}$.		Cited: Robinson (1926: 114); Sharif (1928: 322).
	(picked for variation from ca 15 specimens).		
	L. E. Robinson det. 1926.		
	Found with <u>Haem. spinigera</u> ♂, ♀		
N	3070	N	3070
		RML	111951
	<u>Aponomma gervaisi</u> 2 ♂, 1 ♀, 1 N		1 ♂, 1 ♀, 1 N <u>Aponomma gervaisi</u>
	<u>Varanus bengalensis</u> (venter)		<u>Varanus bengalensis</u> (venter)
	Barkuda Island, Lake Chilka, Ganjam District, Madras Presidency		Barkuda Island, Lake Chilka (19.46 N, 85.20 E), India
	19.VII.1914		19.VII.1914
	Chilka Survey coll.		Chilka Survey coll.
	Ind. Mus. No. $\frac{2171}{17}$.		Cited: Sharif (1928: 337).

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3071</p> <p><u>Haemaphysalis bispinosa</u> var. <u>intermedia</u> 1 ♂, 2 ♀</p> <p><u>Sus cristatus</u> ♀</p> <p>Near Barhi, Hazaribagh District, Chota Nagpur</p> <p>21.VII.1914</p> <p>Major O. A. Smith</p> <p>Ind. Mus. No. $\frac{2172}{17}$.</p> <p>3071 found with (a) <u>Rhip.</u> <u>haemaphysaloides</u> ♀ and (b) ? <u>Hyal. monstrosum</u> ♀.</p>	<p>N 3071</p> <p>RML 111952</p> <p>1 ♂, 2 ♀ <u>Haemaphysalis paraturturis</u> Paratypes</p> <p><u>Sus scrofa cristatus</u> ♀</p> <p>Near Barhi (24.18 N, 85.25 E), India</p> <p>21.VII.1914</p> <p>Major O. A. Smith</p> <p>Cited: Nuttall & Warburton (1915: 435); Hoogstraal et al (1963: 686) original description of <u>H. paraturturis</u>.</p>
<p>N 3072</p> <p><u>Haemaphysalis bispinosa</u> 4 ♂, 2 ♀</p> <p><u>Hemitragus hyllocrius</u> (Nilgiri wild goat)</p> <p>Parambikulam (1700-3200 ft.) Cochin State, South India</p> <p>16-24.IX.1914</p> <p>F. H. Gravely</p> <p>Ind. Mus. No. $\frac{2173}{17}$(a).</p> <p>3072 found with <u>Hyalomma</u> n. sp. ♂'s, ♀'s (to be described).</p>	<p>N 3072</p> <p>RML 111953</p> <p>2 ♂, 2 ♀ <u>Haemaphysalis bispinosa</u> 2 ♂ <u>Haemaphysalis turturis</u></p> <p><u>Hemitragus hyllocrius</u></p> <p>Parambikulam (10.23 N, 76.49 E), India (518-975 m)</p> <p>16-24.IX.1914</p> <p>F. H. Gravely</p> <p>Cited: Nuttall & Warburton (1915: 432).</p> <p>The <u>Hyalomma</u> n. sp. to be described was <u>Hyalomma kumari</u> Sharif (1928: 319).</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	3073	N	3073
		RML	71473
	<u>Haemaphysalis parva</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Haemaphysalis intermedia</u>
	<u>Lepus</u> sp.		<u>Lepus</u> sp.
	Satpara, Lake Chilka, Orissa		Satpara (19.39 N, 85.26 E), Lake Chilka, India
	IX.1914		IX.1914
	Chilka Survey coll.		Chilka Survey coll.
	Ind. Mus. No. $\frac{2176.}{17}$		
	Found with (a) <u>Haem. leachi</u> var. <u>indica</u> ♀, (b) <u>Amblyomma</u> sp. N's, (c) <u>Rhip. haemaphysaloides</u> ♂, ♀.		
N	3074	N	3074
		RML	111954
	<u>Dermacentor auratus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Dermacentor</u> sp.
	<u>Ursus malayensis</u>		<u>Helarctos malayanus</u>
	Ulu Gombak, Selangor		Ulu Gombak Forest Reserve (03.18 N, 101.47 E), Selangor, Malaysia
	1914		1914
	C. Strickland		C. Strickland
	"T 65".		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3075	N	3075
		RML	111955
	<u>Amblyomma lepidum</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Amblyomma lepidum</u>
	Buffalo		<u>Syncerus caffer</u>
	Meshra el Rom		Perhaps Mashra ar Raqq (08.25 N, 29.16 E), Sudan
	21.VI.1909		21.VI.1909
	Rec'd. from H. H. King (Entomologist Khartum)		Rec'd. from H. H. King (Entomologist Khartum)
	L.E.R. det. XII.1914 (1 ♂, 1 ♀ mounted as slides in cells II. 1915).		Slides missing Robinson (1926: 97) gave the collection date 21.VI.1910.
N	3076	N	3076
		RML	111956
	<u>Aponomma trimaculatum</u> ♂'s, ♀'s, N's		7 ♂, 2 ♀, 2 N <u>Aponomma trimaculatum</u>
	"Iguana monitor" lizard		"Iguana monitor" lizard
	Alabang Rizal, Philippine Islands		Alabang (14.25 N, 121.03 E), Philippines
	23.IV.1912		23.IV.1912
	M. B. Mitzmain		M. B. Mitzmain
	Mitzmain No. 14.		
	L.E.R. det. 10.XII.1914.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3077, a	N	3077, a
		RML	111957
	(3077) <u>Aponomma trimaculatum</u> ♂'s, N's (a) <u>Amblyomma helvolum</u> ♂'s		(3077) 7 ♂, 12 N <u>Aponomma trimaculatum</u> (a) 10 ♂ <u>Amblyomma helvolum</u>
	Monitor lizard		Monitor lizard
	Occidental Negros, Philippine Islands		Province of Negros Occidental (10.25 N, 123.00 E), Philippines
	XII.1911		XII.1911
	M. B. Mitzmain		M. B. Mitzmain
	Mitzmain No. 25. [2 ♂ mounted in cells with other <u>Aponomma</u> ♂ spp.]		Note in vials, "♂ ♂ given Sharif Ap. 1929."
	Collector's note reads "the large ticks from caudal region, the small ticks from axillae."		Slide missing.
	L.E.R. det. 10.XII.1914. Redet. of 3077a 1926.		
N	3078	N	3078
		RML	111958
	<u>Aponomma trimaculatum</u> ♀'s, N's		1 ♀, 15 N <u>Aponomma trimaculatum</u>
	Monitor lizard		Monitor lizard
	La Carlota, Occidental Negros Province, Philippine Islds.		La Carlota (10.25 N, 122.55 E), Negros Occidental Province, Philippines
	11.XI.1911		11.XI.1911
	M. B. Mitzmain		M. B. Mitzmain
	Mitzmain No. 26.		

Ticks received from Dr. J. W. Scott-Macfie, Pathologist, Accra Laboratory, Victoriaborg, Accra, Gold Coast Colony, W. Africa 9.XII.1914:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3079, a, b	N	3079
	(3079) <u>Boophilus</u> sp. ♀'s (a) <u>Amblyomma variegatum</u> N's (b) <u>Hyalomma aegyptium</u> 1 ♂	RML	111959
	Sheep		(3079) 5 ♀ <u>Boophilus decoloratus</u> (a) MISSING (b) MISSING
	Accra, Gold Coast		Sheep
	14.XI.1914		Accra (05.33 N, 00.13 W), Ghana
	J. W. Scott-Macfie		14.XI.1914
	Macfie's No. 1.		J. W. Scott-Macfie
	Dr. Macfie writes 15.XI.1914 saying the sheep & cattle are mostly infected with a parasite of the <u>P. mutans</u> type which he thinks some of these ticks must carry.		
	G.H.F.N.		
N	3080, a, b	N	3080, a
	(3080) <u>Amblyomma variegatum</u> ♂'s, ♀'s N's	RML	111960
	(a) <u>Boophilus</u> sp. ♀'s (b) <u>Hyalomma aegyptium</u> 1 ♂, 1 ♀		(3080) 13 ♂, 11 ♀, 2 N <u>Amblyomma variegatum</u> (a) 7 ♀ <u>Boophilus decoloratus</u> (b) MISSING
	Dwarf cattle		Cattle (dwarf)
	Accra, Gold Coast		Accra (05.33 N, 00.13 W), Ghana
	24.X.1914		24.X.1914
	Dr. J. W. Scott-Macfie		Dr. J. W. Scott-Macfie
	Macfie No. 2.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3081	N	3081
	<u>Amblyomma marmoreum</u> N		1 N <u>Amblyomma</u> sp.
	<u>Agama colonorum</u> (lizard)		<u>Agama agama</u>
	Accra, Gold Coast		Accra (05.33 N, 00.13 W), Ghana
	27.VIII.1914		27.VIII.1914
	Dr. J. W. Scott-Macfie		Dr. J. W. Scott-Macfie
	Macfie No. 3.		
N	3082	N	3082
	<u>Amblyomma marmoreum</u> N's, L's		9 N, 1 L <u>Amblyomma</u> sp.
	<u>Varanus niloticus</u> (Monitor)		<u>Varanus niloticus</u>
	Accra, Gold Coast		Accra (05.33 N, 00.13 W), Ghana
	28.VIII.1914		28.VII.1914
	Dr. J. W. Scott-Macfie		Dr. J. W. Scott-Macfie
	Macfie No. 4. "Larvae on ear drums, others on digits."		The nymphs are of two different species of <u>Amblyomma</u> .

ORIGINAL DETERMINATIONCURRENT STATUS

N 3083

Amblyomma marmoreum 1 NDispholidus typus
[Large green snake No. 57]

Accra, Gold Coast

7.IX.1914

Dr. J. W. Scott-Macfie

Macfie No. 5.

Note re 3083 and 3084. Dr. Macfie wrote, later, 28.I.1915 giving the sci. names of the hosts as det'd. by Dr. Boulenger of Brit. Mus.

N 3083

RML 111963

1 N Amblyomma sp.Dispholidus typus

Accra (05.33 N, 00.13 W), Ghana

7.IX.1914

Dr. J. W. Scott-Macfie

N 3084

Aponomma laeve 3 ♂Ramphiophis oxyrhynchus
[Snake, buff coloured back and pale belly, No. 288]

Accra, Gold Coast

15.X.1914

Dr. J. W. Scott-Macfie

Macfie No. 6.

Nos. 3083, 3086 & 3087 are probably Amb. nuttalli Dö.

N 3084

RML 111964

3 ♂ Aponomma latumRamphiophis oxyrhynchus

Accra (05.33 N, 00.13 W), Ghana

15.X.1914

Dr. J. W. Scott-Macfie

ORIGINAL DETERMINATIONCURRENT STATUS

N 3085, a

(3085) Amblyomma nuttalli 1 ♀, 1 N
(a) Haemaphysalis leachi 1 ♀

Hedgehog

Accra, Gold Coast

20.X.1914

Dr. J. W. Scott-Macfie

Macfie No. 7.

(3085) det. L.E.R. 1926.

N 3085, a

RML 111965

(3085) 1 ♀, 1 N Amblyomma nuttalli
(a) 1 ♀ Haemaphysalis leachi

Hedgehog

Accra (05.33 N, 00.13 W), Ghana

20.X.1914

Dr. J. W. Scott-Macfie

(3085) cited: Theiler & Salisbury
(1959: 115). (3085a) cited:
Nuttall & Warburton (1915: 473).

Nymph in separate vial.

N 3086

Amblyomma marmoreum 4 N'sAgama colonorum (lizard)
[No. 351]

Accra, Gold Coast

24.X.1914

Dr. J. W. Scott-Macfie

Macfie No. 8.

N 3086

RML 111966

4 N Amblyomma nuttalliAgama agama

Accra (05.33 N, 00.13 W), Ghana

24.X.1914

Dr. J. W. Scott-Macfie

These nymphs appear identical with
the nymph from N3085.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3087	N	3087
		RML	111967
	<u>Amblyomma marmoreum</u> 3 N's		3 N <u>Amblyomma</u> sp.
	<u>Agama colonorum</u> (lizard) from axillae		<u>Agama agama</u>
	Accra, Gold Coast		Accra (05.33 N, 00.13 W), Ghana
	24.X.1914		24.X.1914
	Dr. J. W. Scott-Macfie		Dr. J. W. Scott-Macfie
	Macfie No. 9.		
N	3088	N	3088
		RML	111968
	<u>Amblyomma nuttalli</u> ♂'s & gorged ♀'s, N's		5 ♂, 6 ♀, 3 N <u>Amblyomma nuttalli</u>
	Hedgehog No.[438]		Hedgehog
	Accra, Gold Coast		Accra (05.33 N, 00.13 W), Ghana
	18.XI.1914		18.XI.1914
	Dr. J. W. Scott-Macfie		Dr. J. W. Scott-Macfie
	Macfie No. 10-11.		Cited: Robinson (1926: 93) who gave the collection number as N3088e. Theiler & Salisbury (1959: 115) listed 5 ♀ in this collection.
	Dr. Macfie writes (18.XI.1914) of N3088 that the ticks were found that moribund, the man who found them said many gorged ♀'s dropped off in carrying animal to the laboratory. The blood "was extremely fluid & looked like pale red water. I could find no parasites in it, but there were great numbers of nucleated red corpuscles. The hedgehog died soon after it was brought to me. On dissection all the tissues & organs were found to be extremely pale, but otherwise healthy. One might almost suspect that the animal had been bled to death by the ticks on its back." G.H.F.N. 11.XII.1914		Collection in 3 vials.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3089	N	3089
		RML	111969
	<u>Ixodes holocyclus</u> 1 N		1 N <u>Ixodes holocyclus</u>
	Dog		Dog
	Gumundi, Australia		Eumundi (26.29 S, 152.57 E), Queensland, Australia
	8.V.1913		8.V.1913
	Sent by Mr. Munro Hull, 13.V.1913		Sent by Mr. Munro Hull, 13.V.1913
	G.H.F.N. det.		Cited: Nuttall (1916: 329).
N	3090	N	3090
		RML	111970
	<u>Haemaphysalis bancrofti</u> 1 ♂, 2 N		1 ♂, 2 N <u>Haemaphysalis bancrofti</u>
	Rat-Kangaroo		Probably <u>Bettongia tropica</u>
	Queensland, Australia		Probably Eidsvold (25.22 S, 151.07 E), Queensland, Australia
	Presented 17.XII.1914		Presented 17.XII.1914
	Presented by L. Harrison		Probably Dr. T. L. Bancroft
	(L.H. says they were probably collected by Dr. T. L. Bancroft at Eidsvold, Queensland (2 ♂, 5 N, 2 L returned to donor)		Cited: Nuttall & Warburton (1915: 490).
	Harrison No. 44.		

Ticks rec'd back as gifts 23.XII.1914 from Imperial Bureau of Entomology per G.A.K. Marshall. Specimens determined by us:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3091	N	3091
	<u>Amblyomma paulopunctatum</u> 1 ♀	RML	111971
	Off grasses		1 ♀ <u>Amblyomma paulopunctatum</u>
	Daro Forest, Toro, Uganda, B.E. Africa		Off grasses
	X.1911		Daro Forest, District of Toro (00.30 N, 30.30 E), Uganda
	S. A. Neave		X.1911
	(L.E.R. det. 1926) I.B.E. No. 460a.		S. A. Neave
			Cited: Robinson (1926: 85).
N	3092	N	3092
	<u>Amblyomma tholloni</u> 1 ♀	RML	111972
	Off grass in forest		1 ♀ <u>Amblyomma tholloni</u>
	Semliki Valley, Uganda, E.A.		Off grass in forest
	XI.1911		Semliki Forest (00.44 N, 30.03 E), Uganda
	S. A. Neave		XI.1911
	I.B.E. No. 468. (L.E.R. det.).		S. A. Neave
			Cited: Robinson (1926: 252).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3093	N	3093
		RML	111973
	<u>Amblyomma nuttalli</u> 1 ♂		1 ♂ <u>Amblyomma nuttalli</u>
	Tortoise		Tortoise
	Upper Shire Valley, Nyasaland, B.C. Africa		Liwonde (15.04 S, 35.13 E), Malawi
	8.X.1911		8.X.1911
	Dr. J. B. Davey		Dr. J. B. Davey
	I.B.E. No. 543. (G.H.F.N. & L.E.R. det.).		
N	3094	N	3094
		RML	111974
	<u>Rhipicephalus ziemanni</u> 7 ♂, 4 ♀		5 ♂, 4 ♀ <u>Rhipicephalus ziemanni</u>
	Harnessed antelope		Antelope (harnessed)
	Port Lokko, Sierra Leone, W. Africa		Port Loko (08.46 N, 12.47 W), Sierra Leone
	11.V.1912		11.V.1912
	Dr. J. J. Simpson		Dr. J. J. Simpson
	I.B.E. No. 584a (C.W. det.).		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3095	N	3095
		RML	111975
	<u>Rhipicephalus masseyi</u> 2 ♂		2 ♂ <u>Rhipicephalus masseyi</u>
	Dogs		Dogs
	Mlanje, Nyasaland, B.C. Africa		Mlanje (16.02 S, 35.30 E), Mlanje District, Malawi
	VIII.1913		VIII.1913
	S. A. Neave		S. A. Neave
	I.B.E. No. 734a (C.W. det.) Not typical.		These males do not agree well with the type series of <u>R. masseyi</u> (N246). However, they are being retained under this name until such time as revisionary work is under- taken on <u>R. masseyi</u> and related species.
<p>Ticks rec'd. 28.XII.1914 from Dr. H. K. Wise, Surgeon General's Office, Georgetown, Demerara, British Guiana. Collected by himself far in the Interior of the Colony in areas where few men penetrate and "where bushes & long grass brush against you at every step" - hitherto unexplored country:-</p>			
N	3096	N	3096
		RML	111976
	<u>Amblyomma cajennense</u> 1 ♀		1 ♀ <u>Amblyomma cajennense</u>
	Man		<u>Homo sapiens</u>
	Rupununi River, British Guiana		Rupununi River (04.03 N, 58.34 W), Guyana
	IX.1913		IX.1913
	Dr. H. K. Wise		Dr. H. K. Wise
	Wise's No. 1609.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3097	N	3097 MISSING
	<u>Amblyomma cajennense</u> 1 ♂, 1 ♀		
	Man		
	Rupununi Forest, British Guiana		
	IX.1913		
	Dr. H. K. Wise		
	Wise's No. 1611, 1620.		
N	3098	N	3098 MISSING
	<u>Amblyomma cajennense</u> 1 N		
	Man		
	Essequebo River, British Guiana		
	IX.1913		
	Dr. H. K. Wise		
	Wise's No. 1648.		
N	3099	N	3099
	<u>Amblyomma cajennense</u> 1 ♂, 1 ♀	RML	111977
	Man		1 ♂, 1 ♀ <u>Amblyomma oblongoguttatum</u>
	Siparuni River, British Guiana		<u>Homo sapiens</u>
	X.1913		Siparuni River (04.50 N, 58.49 W), Guyana
	Dr. H. K. Wise		X.1913
	Wise's No. 1649.		Dr. H. K. Wise
	G.H.F.N. & C.W. det 6.I.15		

Ticks received 7.I.1915 from Mr. F. C. Bishopp, P.O. Box 208, Dallas, Texas, U.S.A.:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3100	N	3100
		RML	57169
	<u>Dermacentor nigrolineatus</u> 2 ♂, 2 ♀, L		1 ♀, 1 L <u>Dermacentor albipictus</u>
	Cattle		Cattle
	Lake, Tennessee, U.S.A.		Lake City (36.13 N, 84.09 W), Tennessee, U.S.A.
	Rec'd. I.1915		6.XII.1911
	Rec'd. from F. C. Bishopp		H. P. Wood
	(Acc. No. 2390).		Collection data taken from Bishopp's accession card. An additional 11 ♂, 4 N are in the RML collection.
N	3101	N	3101
		RML	59961
	<u>Dermacentor nigrolineatus</u> 5 ♀		5 ♀ <u>Dermacentor albipictus</u>
	Cow		Cow
	Larman, Mississippi, U.S.A.		Lorman (31.49 N, 91.03 W), Mississippi, U.S.A.
	Rec'd. I.1915		27.I.1913
	Rec'd. from F. C. Bishopp		A. T. Montgomery
	(Acc. No. 2758).		Collection data taken from Bishopp's accession card.
	(B's det. confirmed C.W. det. 8.I.1915).		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3102	N	3102 MISSING
	<u>Ornithodoros moubata</u> (6, badly preserved)		
	"about 5°40'S and 23°30'E, [Belgian Congo], which is a new locality for them."		
	Rec'd. 2.I.1915		
	Rec'd. from Dr. A. Yale Massey, Belgian Congo Medical Service, Lusambo, Belgian Congo		
	C.W. det. 8.I.1915.		
	Ticks collected by Charles Harpley, Quick Laboratory Assistant whilst in Antigua assisting Dr. E. S. Marshall in work on Ankylostomiasis:-		
N	3103	N	3103
		RML	111978
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s, 1 N		47 ♂, 6 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	St. John's, Antigua, W.I.		Saint John's (17.06 N, 61.51 W), Antigua
	27.VII.1914		27.VII.1914
	C. Harpley		C. Harpley
N	3104	N	3104
		RML	111979
	<u>Rhipicephalus sanguineus</u> N's, L's		9 N, 16 L <u>Rhipicephalus sanguineus</u>
	Puppy dog		Dog
	St. John's, Antigua, W.I.		Saint John's (17.06 N, 61.51 W), Antigua
	2.XI.1914		2.XI.1914
	C. Harpley		C. Harpley

ORIGINAL DETERMINATIONCURRENT STATUS

N	3105	N	3105 MISSING
	<u>Boophilus australis</u> 1 ♂, ♀'s		
	Calf		
	St. John's, Antigua, W.I.		
	17.XI.1914		
	C. Harpley		
	(3103-3105 C.W. det. 8.I.1915).		
N	3106	N	3106 MISSING
	<u>Boophilus australis</u> 1 ♂, ♀'s		
	Cow		
	St. John's Antigua, W.I.		
	15.XI.1914		
	C. Harpley		
	C.W. det. 8.I.1915.		
N	3107	N	3107
		RML	111980
	<u>Boophilus australis</u> ♀'s		83 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	St. John's, Antigua, W.I.		Saint John's (17.06 N, 61.51 W), Antigua
	16.XI.1914		16.XI.1914
	C. Harpley		C. Harpley
	C.W. det. 8.I.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3108

Ixodes hexagonus 1 ♀

Weasel

Swavesey, Cambs.

11.X.1913

G. B. Hony

(found in N. Cunliff's drawer when
putting his place tidy 11.I.1915).
G.H.F.N. & C.W. det.

Ticks rec'd back 19.I.1915 from Imperial Bureau of Entomology, London
per Mr. G.A.K. Marshall:-

N 3109

Rhipicephalus sanguineus
var. sulcatus 1 ♂

Bushcat sp.

Yapi, Northern Territory, Gold
Coast, W. Africa

26.VI.1914

Dr. J. J. Simpson

Imp. Bur. Ent. No. 904.
C.W. det.

N 3108

RML 111981

1 ♀ Ixodes hexagonusMustela nivalis

Swavesey (52.18 N, 0.00), England

11.X.1913

G. B. Hony

Cited: Nuttall (1916: 328).

N 3109

RML 111982

1 ♂ Rhipicephalus sanguineus

Bushcat

Yapei (09.10 N, 01.10 W), Northern
Region, Ghana

26.VI.1914

Dr. J. J. Simpson

ORIGINAL DETERMINATIONCURRENT STATUS

N	3110	N	3110
		RML	111983
	<u>Amblyomma dissimile</u> 1 larva		1 L <u>Amblyomma</u> sp.
	<u>Bufo marinus</u>		<u>Bufo marinus</u>
	Berbice, British Guiana		Berbice (05.27 N, 57.57 W), Guyana
	5.VIII.1914		5.VIII.1914
	Rev. James Aiken		Rev. James Aiken
	Imp. Bur. Ent. 905. C.W. det.		
N	3111	N	3111
		RML	111984
	<u>Boophilus decoloratus</u> 3 ♀		3 ♀ <u>Boophilus geigy</u>
	Dead cow		Cow, dead
	Karene District, Batkano, Sierra Leone		Perhaps either Batkanu (09.05 N, 12.25 W) or (09.47 N, 11.53 W), Sierra Leone
	16.X.1914		16.X.1914
	Dr. P. A. Clearkin		Dr. P. A. Clearkin
	Imp. Bur. Ent. 906. G.H.F.N. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3112, a	N	3112a
		RML	111985
	(3112) <u>Amblyomma variegatum</u> 2 ♂, 1 ♀		(3112) MISSING
	(a) <u>Boophilus decoloratus</u> 4 ♀		(a) 4 ♀ <u>Boophilus decoloratus</u>
	Hump-backed cattle		Cattle, hump backed
	Accra, Gold Coast, W. Africa		Accra (05.33 N, 00.13 W), Ghana
	XI.1914		XI.1914
	Dr. J. W. Scott-Macfie		Dr. J. W. Scott-Macfie
	Imp. Bur. Ent. No. 907, 907a		
	C.W. & G.H.F.N. det.		
N	3113	N	3113
		RML	111986
	<u>Rhipicephalus falcatus</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus</u> sp.
	Warthog		<u>Phacochoerus aethiopicus</u>
	Wasa River, Uganda		Wasa River (01.02 N, 30.30 E), Uganda
	13.IV.1914		13.IV.1914
	Dr. R. E. McConnell		Dr. R. E. McConnell
	Imp. Bur. Ent. No. 888 & 9		Pinned specimens
	C.W. det.		
	(pinned specs.).		

Ticks brought by Dr. de Blicck (Java) 19.I.1915 to Cambridge for us to determine. Specimens collected by him and his colleagues:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3114	N	3114
		RML	111987
	<u>Rhipicephalus haemaphysaloides</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Rhipicephalus pilans</u>
	Horse		Horse
	Docko-Kangean, Madoera Island (N.E. of Java, dry climate)		Docko-Kangean, Madura Island (07.00 S, 113.20 E), Indonesia
	9.V.1914		9.V.1914
	Dr. de Blicck & colleagues		Dr. de Blicck & colleagues
	deB. No. 1 C.W. det.		
N	3115	N	3115
		RML	111988
	<u>Rhipicephalus sanguineus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Buitenzorg, Java		Bogor (06.35 S, 106.47 E), Java, Indonesia
	6.XI.1908		6.XI.1908
	Dr. de Blicck & colleagues		Dr. de Blicck & colleagues
	deB. No. 8 (G.H.F.N. det.).		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3116	N	3116
		RML	111989
	<u>Boophilus australis</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Buitenzorg, Java		Bogor (06.35 S, 106.47 E), Java, Indonesia
	Dr. de Blicck & colleagues		Dr. de Blicck & colleagues
	deB. No. 5 (G.H.F.N. & C.W. det.).		
N	3117, a	N	3117, a
		RML	111990
	(3117) <u>Dermacentor auratus</u> 1 ♂, 1 ♀ (a) <u>Haemaphysalis papuana</u> 1 ♂		(3117) 1 ♂, 1 ♀ <u>Dermacentor</u> sp. (a) 1 ♂ <u>Haemaphysalis papuana</u>
	Wild pig		<u>Sus scrofa</u>
	Tjibarosa, near Buitenzorg, Java		Tjibarusa (06.26 S, 107.04 E), Java, Indonesia
	1914		1914
	Dr. de Blicck & colleagues		Dr. de Blicck & colleagues
	deB. No. 6, 6a (3117) G.H.F.N. det. (a) G.H.F.N. & C.W. det.		(3117a) cited: Nuttall & Warburton (1915: 407).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3118	N	3118
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> 1 ♂	RML	111991
	"leguan"		1 ♂ <u>Aponomma varanensis</u>
	Buitenzorg, Java		"leguan"
	1914		Bogor (06.35 S, 106.47 E), Java, Indonesia
	Dr. de Blicck & colleagues		1914
	deB. No. 8a		Dr. de Blicck & colleagues
	C.W. det.		See also N3123, a
N	3119	N	3119
	<u>Ixodes hexagonus</u> 1 N	RML	111992
	Stoat		1 N <u>Ixodes hexagonus</u>
	Fairhill, Tonbridge, Kent, England		<u>Mustela erminea</u>
	XII.1914		Fairhill, Tonbridge (51.11 N, 00.17 E), Kent, England
	P. A. Buxton		XII.1914
	G.H.F.N. & C.W. det. (Found with flea N. 288 and mites N. 233).		P. A. Buxton
			Cited: Nuttall (1916: 328)
N	3120	N	3120
	<u>Argas persicus</u> N's & adults	RML	111993
	Beni Ounif, Algeria		7 ♂, 8 ♀, 107 N <u>Argas persicus</u>
	Strain raised in Quick Laboratory by Dr. Hindle.		Parents from Beni Ounif (32.03 N, 01.15 W), Algeria; raised at Quick Laboratory, Cambridge (52.13 N, 00.08 E), England
			See also N1561, N1574

ORIGINAL DETERMINATIONCURRENT STATUS

N	3121	N	3121
		RML	111994
	<u>Argas persicus</u> N's & adults		49 ♂, 75 ♀, 162 N, 26 L <u>Argas persicus</u>
	Khartoum, Soudan		Parents from Khartoum (15.36 N, 32.32 E), Sudan raised in Quick Laboratory, Cambridge (52.13 N, 00.08 E), England
	III.1912		III.1912
	(Strain raised in Quick Laboratory).		
N	3122	N	3122 OMITTED CATALOGUE NUMBER
N	3123, a	N	3123, a
		RML	111995
	(3123) <u>Amblyomma helvolum</u> 1 ♂		(3123) 1 ♂ <u>Amblyomma helvolum</u>
	(a) <u>Aponomma gervaisi</u> 4 ♀		(a) 3 ♀ <u>Aponomma varanensis</u>
	"leguan"		"leguan"
	Buitenzorg, Java		Bogor (06.35 S, 106.47 E), Java, Indonesia
	1914		1914
	Dr. de Blicck		Dr. de Blicck
	de Blicck No. 8, 8a		This collection apparently identical to N 3118.
	L.E.R. det. 26.I.1915		

Ticks received 3.II.1915 from Malcolm E. MacGregor, B.A., Wellcome Bureau of Scientific Research, 10 Henrietta St., Cavendish Sq., London, W. (Coll. of Bureau, mostly without data):-

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	3124	N	3124
	<u>Amblyomma albolimbatum</u> 4 ♂	RML	111996
	<u>Trachysaurus rugosus</u> (stump-tailed lizard)		2 ♂ <u>Amblyomma albolimbatum</u>
	Australia		<u>Trachysaurus rugosus</u>
	12.VI.1906		Australia
	Rec'd. from M.E. MacGregor		12.VI.1906
	MacG. No. 6		Rec'd. from M.E. MacGregor
	L.E.R. det., reports 6.III.1915		Cited: Robinson (1926: 227).
	he is retaining 2 ♂.		
N	3125	N	3125
	<u>Amblyomma geayi</u> 2 ♂, 2 ♀	RML	111997
	<u>Bradypus tridactylus</u> (sloth)		1 ♂, 1 ♀ <u>Amblyomma geayi</u>
	Manãos, Brazil		<u>Bradypus tridactylus</u>
	T. P. Beddoes		Manaus (03.08 S, 60.01 W), Brazil
	MacG. No. 9.		T. P. Beddoes
	(Note that our type lot N1149 ♀'s		Note in vial "1 ♂, 1 ♀ retained
	only from same collector & place!		by L.E.R."
	So this must be some of the same		Cited & figured: Robinson
	lot). G.H.F.N. & C.W. det.		(1926: 59, 61) but he incorrectly
	L.E.R. det. 1926		gave the Nuttall number 3215 to
	L.E.R. retains 1 ♂, 1 ♀,		the ♀ figure.
	returned 1 ♂, 1 ♀ 6.III.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3126

Amblyomma clypeolatum 1 ♂Cinyxis erosa [a land tortoise occurs
W. Africa]No further data.
Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

MacG. No. 11
L.E.R. det. 1926.

N 3126

RML 111998

1 ♂ Amblyomma clypeolatumKinixys erosaNo further data
Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

Cited: Robinson (1926: 81) but he
gave collection data for N 1512.

N 3127

Amblyomma testudinarium 3 ♂Tapirus indicus (Malayan tapir)

Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

MacG. No. 13.
C.W. & L.E.R. det.

N 3127

RML 111999

3 ♂ Amblyomma testudinariumTapirus indicus

Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

ORIGINAL DETERMINATIONCURRENT STATUS

N 3128

Amblyomma nodosum 7 ♂Tamandua tetradactyla

(No further data but (!) our types N 36 ♂'s, were from same host, Zool. Soc. Gardens, London. These are probably some of the same lot taken at that time (1905) by Dr. L.W. Sambon).

Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

MacG. No. 16.
G.H.F.N. & C.W. det.
5 ♂ returned, 2 ♂ retained by
L.E.R. 6.III.1915.
L.E.R. det. 1926.

N 3128

RML 112000

5 ♂ Amblyomma nodosumTamandua tetradactyla

(No further data but (!) our types N 36 ♂'s, were from same host, Zool. Soc. Gardens, London. These are probably some of the same lot taken at that time (1905) by Dr. L.W. Sambon).

Rec'd. 3.II.1915

Rec'd. from M.E. MacGregor

Although no Nuttall number was cited, Robinson (1926: 199) listed "♂'s off Tamandua tetradactyla, ? Zool. Soc. Gardens, London, Dr. L. W. Sambon donor, 1905" which probably refers to this collection.

N 3129

Haemaphysalis cinnabarina
var. punctata Larvae

Partridge

? place

15.VIII.1908

H. Smith

MacG. No. 1.
G.H.F.N. & C.W. det.

N 3129

RML 112001

± 200 L Haemaphysalis sp.

Partridge

? place

15.VIII.1908

H. Smith

ORIGINAL DETERMINATIONCURRENT STATUS

N	3130	N	3130
	<u>Aponomma gervaisi</u> ♂'s	RML	112002
	Bengal Monitor		3 ♂ <u>Aponomma gervaisi</u>
	Zool. Soc. Garden, London		<u>Varanus bengalensis</u>
	L. Sambon		Zoological Society Gardens, London (51.30 N, 00.07 W), England
	MacG. No. 3		L. Sambon
	C.W. det.		MacG. No. 3
N	3131, a	N	3131, a
	(3131) <u>Aponomma decorosum</u> ♂	RML	112003
	(a) <u>Aponomma trimaculatum</u> ♀		(3131) 1 ♂ <u>Aponomma fimbriatum</u>
	Lace monitor		(a) 1 ♀ <u>Aponomma trimaculatum</u>
	Zool. Soc. Garden, London		<u>Varanus</u> sp.
	L. Sambon		Zoological Society Gardens, London (51.30 N, 00.07 W), England
	MacG. No. 4, 4a		L. Sambon
	(3131) C.W. det.		(3131a) is an abnormal ♀ with hypostome dentition 4/7 or more.
	(a) L.E.R. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3132

Ixodes vespertilionis 1 ♀
(semi-gorged)Bat (Vespertilio kuhni)

Algiers, Algeria

8.I.1915

Rivet

Gift of Dr. Edmond Sergent (perfect
but for hypostome.
Agrees well with my figure in
"Ticks" Part II.).
G.H.F.N. det.

N 3132

RML 112004

1 ♀ Ixodes vespertilionisPipistrellus kuhli

Algiers (36.47 N, 03.03 E), Algeria

8.I.1915

Rivet

Cited: Nuttall (1916: 334).

N 3133

Ixodes tenuirostris Larvae

Mole

Shrewsbury, England

22.XII.1908

Mr. R.F.L. Burton

Mounted on 4 slides 19.X.1909
(I-IV slides) G.H.F.N. det. 11.II.1915.

N 3133 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	3134	N	3134
			RML 112005
	<u>Argas vespertilionis</u>		2 L <u>Argas reflexus</u>
	Off ?		Off ?
	Zaragoza		Zaragoza (41.38 N, 00.53 W), Spain
	IX.1914		IX.1914
	Sent by Longin Navás S.J. Colegio del Salvador, Apartado Num. 32, Zaragoza, Spain Rec'd. 15.II.1915 [dry]. G.H.F.N. det.		Sent by Longin Navás S.J. Colegio del Salvador, Apartado Num 32, Zaragoza, Spain Rec'd. 15.II.1915 [dry]. G.H.F.N. det.
N	3135	N	3135 MISSING
	<u>Argas transgariepinus</u> 1 ♀ (Rec'd. alive)		
	Found in old wood		
	Valdealgorfa, Tereul, Spain		
	Rec'd. 15.II.1915		
	Rec'd. from Longin Navas		
	Slide G.H.F.N. det.		Hoogstraal (1954: 273) cited this record but was also unable to locate the specimen.
	Tick kept alive since it was captured 4 months ago. (This the first record in Europe! See "Ticks" Part I p. 29; types from S. Africa Gariép = Orange River). G.H.F.N. det.		
	Water colour fig. by Edwin Wilson 11.III.1915, the last he executed for me (he died 15.IV.1915!).		
	13.III.1915 partly fed on fowl for 45 minutes, refused to feed on fowl 28.IV.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3136	N	3136 MISSING
	<u>Hyalomma</u> sp. 1 ♂		
	<u>Capra falconeri</u> (The Markhoar)		
	No further data		
	Gift of Hon. N.C. Rothschild (slide R 958)		
	Note: The host occurs in Kashmir, Afghanistan, Gilgit, etc. [1 slide]		
N	3137	N	3137 MISSING
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		
	India		
	Data lost, mounted as slides by C. Warburton to show diff't. parts: capitulum, spiracles, etc! [7 slides]		
N	3138	N	3138
	<u>Aponomma laeve</u> var. <u>capensis</u> 1 ♂	RML	112006
	<u>Echidna</u>		1 ♂ <u>Aponomma</u> sp.
	No further data		<u>Echidna</u> sp.
	Gift of Hon. N.C. Rothschild		No further data
	(Unmounted by me from a slide R. 926)		Gift of Hon. N.C. Rothschild
	L.E.R. det.		This specimen lacks cervical pits, otherwise it is close to <u>Aponomma pattoni</u> .

ORIGINAL DETERMINATIONCURRENT STATUS

N	3139	N	3139	MISSING
	<u>Hyalomma syriacum</u>			
	Tortoise			
	No further data			
	Gift of Hon. N.C. Rothschild			
	(5 slides R. 1012-1020)			
	[5 slides] (I-V)			
N	3140	N	3140	MISSING
	<u>Hyalomma syriacum</u> 2 ♀			
	<u>Testudo pardalis</u>			
	No further data			
	Gift of Hon. N.C. Rothschild			
	(2 slides: R.1022-1023)			
	[2 slides I, II]			
N	3141	N	3141	MISSING
	<u>Hyalomma syriacum</u>			
	Araconda [sic]			
	Gift of Hon. N.C. Rothschild			
	(2 slides R. 906, 1031)			
	[2 slides I, II]			
	(Evidently bought slides from			
	M. Pillischer, Optician,			
	88 New Bond St., London, W.)			

Ticks received 20.II.1905 [sic. Must be 1915, see collection dates - J.E.K.]
from Dr. John Y. Wood, Kaballa, Koinadugu District, Sierra Leone:-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3142	N	3142
		RML	112007
	<u>Rhipicephalus sanguineus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Karafaia, Sierra Leone		Karafaia (09.17 N, 10.45 W), Sierra Leone
	22.XII.1914		22.XII.1914
	J. Y. Wood		J. Y. Wood
N	3143, a-c	N	3143, b, c
		RML	112008
	(3143) <u>Boophilus australis</u> ♀'s		(3143) 45 ♀, 16 N <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> N's		(a) MISSING
	(b) <u>Rhipicephalus simus</u> ♂		(b) 1 ♂ <u>Rhipicephalus senegalensis</u>
	(c) <u>Rhipicephalus sanguineus</u> ? (large)		(c) 1 ♀ <u>Rhipicephalus sanguineus</u>
	Cattle		Cattle
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	26.XII.1914		26.XII.1914
	J. Y. Wood		J. Y. Wood
N	3144, a	N	3144
		RML	112009
	(3144) <u>Boophilus australis</u> ♀'s		(3144) 8 ♀ <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> N's		(a) MISSING
	Sheep		Sheep
	Tengifera, Sierra Leone		Tengifera (09.38 N, 11.13 W), Sierra Leone
	24.XII.1914		24.XII.1914
	J. Y. Wood		J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	3145, a, b	N	3145, a
		RML	112010
	(3145) <u>Boophilus australis</u> ♀'s		(3145) 4 ♀ <u>Boophilus geigy</u>
	(a) <u>Haemaphysalis leachi</u> 2 ♀		(a) MISSING
	(b) <u>Amblyomma variegatum</u> 3 N's		(b) MISSING
	Dog		Dog
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	25.XII.1914		25.XII.1914
	J. Y. Wood		J. Y. Wood
N	3146	N	3146
		RML	112011
	<u>Boophilus australis</u> ♀'s		21 ♀ <u>Boophilus geigy</u>
	Goats		Goats
	Tengifera, Sierra Leone		Tengifera (09.38 N, 11.13 W), Sierra Leone
	24.XII.1914		24.XII.1914
	J. Y. Wood		J. Y. Wood
N	3147, a	N	3147, a
		RML	112012
	(3147) <u>Boophilus australis</u> ♀'s		(3147) 21 ♀ <u>Boophilus geigy</u>
	(a) <u>Rhipicephalus falcatus</u> ♂		(a) 1 ♂ <u>Rhipicephalus senegalensis</u>
	Cow (sick)		Cow (sick)
	Kombile, Sierra Leone		Kombile (09.41 N, 11.05 W), Sierra Leone
	23.XII.1914		23.XII.1914
	J. Y. Wood		J. Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N 3148, a

(3148) Boophilus australis ♀'s
 (a) Rhipicephalus simus 2 ♂
 (approaching R. falcatus)

Cow

Kombile, Sierra Leone

22.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

N 3148, a

RML 112013

(3148) 22 ♀, 2 N Boophilus geigy
 (a) 2 ♂ Rhipicephalus senegalensis

Cow

Kombile (09.41 N, 11.05 W),
Sierra Leone

22.XII.1914

Dr. John Y. Wood

N 3149, a

(3149) Haemaphysalis leachi 5 ♂, 2 ♀
 (a) Boophilus australis 1 ♂

Dog

Mabonto, Sierra Leone

10.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

N 3149

RML 112014

(3149) 4 ♂, 2 ♀ Haemaphysalis leachi
 (a) MISSING

Dog

Either Mabonto (08.38 N, 12.37 W)
or (08.52 N, 11.49 W), Sierra Leone

10.XII.1914

Dr. John Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	3150	N	3150
		RML	112015
	<u>Boophilus australis</u> ♀'s		20 ♀, 20 N <u>Boophilus geigy</u>
	Cows		Cows
	Tengifera, Sierra Leone		Tingifera (09.38 N, 11.13 W), Sierra Leone
	24.XII.1914		24.XII.1914
	Dr. John Y. Wood		Dr. John Y. Wood
	C.W. det. 24.II.1915		
N	3151, a	N	3151
		RML	112016
	(3151) <u>Boophilus australis</u> ♀'s		(3151) 25 ♀, 12 N <u>Boophilus geigy</u>
	(a) <u>Amblyomma variegatum</u> N's, L		(a) MISSING
	Cow		Cow
	Dunkiawallia, Sierra Leone		Dunkiawallia, Sierra Leone (locality not verified)
	25.XII.1914		25.XII.1914
	Dr. John Y. Wood		Dr. John Y. Wood
	C.W. det. 24.II.1915		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3152, a, b

(3152) Boophilus australis ♀'s
 (a) Amblyomma variegatum 1 ♂, 1 N
 (b) Rhipicephalus simus 1 ♀

Cattle

Karafaia, Sierra Leone

22.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

N 3152, b

RML 112017

(3152) 25 ♀ Boophilus geigy
 (a) MISSING
 (b) 1 ♀ Rhipicephalus senegalensis

Cattle

Karafaia (09.17 N, 10.45 W),
Sierra Leone

22.XII.1914

Dr. John Y. Wood

N 3153

Boophilus australis ♀'s

Dog

Kombile, Sierra Leone

23.XII.1914

Dr. John Y. Wood

C.W. det. 24.II.1915

N 3153

RML 112018

9 ♀ Boophilus geigy

Dog

Kombile (09.41 N, 11.05 W),
Sierra Leone

23.XII.1914

Dr. John Y. Wood

ORIGINAL DETERMINATIONCURRENT STATUS

N	3154, a	N	3154, a
		RML	93730, RML 102188
	(3154) <u>Haemaphysalis leachi</u> ♂'s, ♀'s	(3154) 1 ♂	<u>Haemaphysalis leachi</u> group (RML 93730)
		(3154) 2 ♀	<u>Haemaphysalis</u> sp. (RML 102188)
	(a) <u>Rhipicephalus sanguineus</u>	(a) 2 ♂, 6 ♀, 4 N	<u>Rhipicephalus sanguineus</u> (RML 93730)
	Dog		Dog
	Karafaia, Sierra Leone		Karafaia (09.17 N, 10.45 W), Sierra Leone
1914	1914
	Dr. John Y. Wood		Dr. John Y. Wood
	C.W. det. 24.II.1915		
N	3155	N	3155 MISSING
	<u>Ixodes canisuga</u> 1 ♀		
	<u>Passer domesticus</u> (sparrow)		
	Ingham, Statham, Norfolk, England		
	V. 1914		
	P. A. Buxton		
	C.W. det. 2.III.1915		

ORIGINAL DETERMINATION

N 3156

Amblyomma varium 1 ♀Choloepus hoffmanni (sloth)

Ancon, Panama Canal Zone

31.X.1913

Dr. S. T. Darling

C.W. det. 5.III.1915

Dr. Darling writes, 12.I.1915, it was found in sloth's cage. The ♀ measured 30 X 24 X 15 (deep) mm., weighed 5.9 grammes; began to oviposit 12.XI.1913 & laid on 13, 14, 16, 17, 18, 19, 20, 21, 24, 26th a total (actual count) of 9759 eggs. 25 fresh (24 hrs. old) eggs weighed 2.25 milligrammes; average egg weighed 0.09 milligrammes. On 2.XII.1913 all the eggs weighed 0.9827 grammes (evidently losing moisture). ♀ died 29.XI.1913 her weight on 2.XII = 2.76 grammes. All eggs shrivelled by 17.III.1914. These notes made by L. H. Dunn, Darling's assistant. The sloth's blood contained Endotrypanum schaudinni.
G.H.F.N.

CURRENT STATUS

N 3156

RML 112019

1 ♀ Amblyomma variumCholoepus hoffmanni

Ancon (08.58 N, 79.33 W), Panama

31.X.1913

Dr. S. T. Darling

Cited: Robinson (1926: 209)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3157, a (3157) <u>Rhipicephalus evertsi</u> 3 ♂'s (a) <u>Boophilus decoloratus</u> 1 ♂ Zebra Not stated Gift of Hon. N.C. Rothschild (1908) [Mounted on slides in balsam I-IV] (R 1026-1029) (3157) C.W. det. 18.III.1915 (a) C.W. & G.H.F.N. det. 1915.	N	3157, a MISSING
N	3158 <u>Rhipicephalus haemaphysaloides</u> 1 ♀ India Gift of Hon. N.C. Rothschild (1908) (Prep bought from Fred'k. Enoch) [Mounted on slide in glycerin] (R. 907)	N	3158 MISSING
N	3159 <u>Argas reflexus</u> 3 N's India Gift of Hon. N.C. Rothschild (1908) (3 slides No.s 908-910) Fred'k. Enoch prep., cost 2 shillings each! G.H.F.N. det. III.1915.	N	3159 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 3160

N 3160

RML 112020

Dermacentor reticulatus 2 ♂, 1 ♀, 1 N1 ♂, 1 ♀, 1 N Dermacentor reticulatus

Revelstoke

Stoke Point (50.18 N, 04.01 W),
England

III.1902

III.1902

Gift of Hon. N.C. Rothschild
(tube No. 238)Gift of Hon. N.C. Rothschild
(tube No. 238)

G.H.F.N. & C.W. det. III.1915.

N 3161

N 3161

RML 112021

Amblyomma testudinarium 2 ♂, 2 ♀1 ♂, 2 ♀ Amblyomma testudinarium

Buffalo

Subalus bubalis

Buitenzorg, Java

Bogor (06.35 S, 106.47 E),
Java, Indonesia

1914

1914

Gift of Dr. de Blicck

Gift of Dr. de Blicck

(His No. 7 of which 2 ♂ returned)

L.E.R. det. 1915.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3162

Ornithodoros talaje 2 spec's.

Fowls

Villavalencio, Strato Valley,
Colombia, C. America

26.XI.1914

Gift of Wellcome Bur. Sci.
23.IV.1915

"W. 23"

C.W. det. 28.IV.1915.

N 3162

RML 112022

1 ♂, 1 ♀ Ornithodoros talaje

Fowls

Villavalencio, Strato Valley,
Colombia (locality not verified)

26.XI.1914

Gift of Wellcome Bureau of Science
23.IV.1915

N 3163

Rhipicephalus simus ♂ & ♀

Cattle

Ibadan, S. Nigeria

27.III.1915

Gift of Wellcome Bur. Sci.
23.IV.1915

"W. 29."

C.W. det. 28.IV.1915.

N 3163

RML 112023

1 ♂, 1 ♀ Rhipicephalus senegalensis

Cattle

Probably Ibadan (07.17 N, 3.30 E)
Nigeria (However 6 other populated
places in Nigeria named Ibadan)

27.III.1915

Gift of Wellcome Bureau of Science
23.IV.1915

ORIGINAL DETERMINATIONCURRENT STATUS

N 3164

N 3164 MISSING

Boophilus australis ♂'s, ♀'s

Cattle

Fray Bentos, Uruguay, S. America

Sent me 27.III.1914

Dr. Breitung

C.W. det. 28.IV.1915.

N 3165

N 3165 MISSING

Argas reflexus 2

Valdeatorfa, Teruel, Spain

Rec'd. 14.V.1915

Rev. Longin Navás, S.J. of
Colegio del Salvador,
Saragossa, Spain

G.H.F.N. det. 14.V.1915

Rec'd. alive Slide

ORIGINAL DETERMINATIONCURRENT STATUS

N 3166

Hyalomma aegyptium ♂, ♀'s

Roan antelope

Shot near Kontagora, N. Nigeria

V.1914

Dr. W. B. Johnson
(Hillside, Seaton, Devon)

G.H.F.N. det. 20.V.1915

Note ♂'s differ somewhat from
typical specs.

N 3166

RML 112024

5 ♂, 1 ♀ Hyalomma truncatum

Hippotragus equinus

Shot near Kontagora, (09.06 N,
08.31 E) or (10.24 N, 05.29 E),
Nigeria

V.1914

Dr. W. B. Johnson
(Hillside, Seaton, Devon)

N 3167, a

(3167) Rhipicephalus simus ♂'s, ♀'s

(a) Hyalomma aegyptium 1 ♂

Wart-hog

Shot near Zungeru, N. Nigeria

VI.1914

Dr. W. B. Johnson
(Hillside, Seaton, Devon)

C.W. det. 20.V.1915.

N 3167, a

RML 105658

(3167) 8 ♂, 6 ♀ Rhipicephalus longus
(3167) 1 ♂ Rhipicephalus lunulatus
(3167) 2 ♂, 3 ♀ Rhipicephalus
senegalensis
(3167) 1 ♂ Rhipicephalus simus group
(a) 1 ♂ Hyalomma truncatum

Phacochoerus aethiopicus

Shot near Zungeru (09.48 N,
06.09 E), Nigeria

VI.1914

Dr. W. B. Johnson
(Hillside, Seaton, Devon)

The 1 ♂ Rhipicephalus simus group
specimen is the R. planus of some
authors or a runt R. planus
complanatus.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3168	N	3168 MISSING
	<u>Amblyomma variegatum</u> larvae (gorged)		
	Cat		
	Gondar, Abyssinia		
	XII.1914		
	Mr. C. H. Armbruster (Intelligence Dept., War Office, Cairo, Egypt)		
	Rec'd. 8.VII.1915		
	C.W. det. 8.VII.1915.		
N	3169	N	3169 MISSING
	<u>Amblyomma variegatum</u> larvae (unfed)		
	Man		
	Gondar, Abyssinia		
	XII.1914		
	Mr. C.H. Armbruster (Intelligence Dept., War Office, Cairo, Egypt)		
	Rec'd. 8.VII.1915		
	C.W. det. 8.VII.1915.		
N	3170	N	3170
		RML	112025
	<u>Rhipicephalus simus</u> 1 ♀		1 ♀ <u>Rhipicephalus simus</u>
	Host ?		Host ?
	Gondar, Abyssinia		Gondar (12.34 N, 37.36 E), Ethiopia
	?.XII.1914		?.XII.1914
	Mr. C.H. Armbruster (Intelligence Dept., War Office, Cairo, Egypt)		Mr. C.H. Armbruster
	Rec'd. 8.VII.1915		
	C.W. det. 8.VII.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3171	N	3171
		RML	70967
	(3171) <u>Rhipicephalus haemaphysaloides</u> 3 ♂, 3 ♀		(3171) 2 ♂, 1 ♀ <u>Rhipicephalus haemaphysaloides</u>
	(a) <u>Haemaphysalis montgomeryi</u> 2 ♀ (atypical)		(a) 2 ♀ <u>Haemaphysalis sundrai</u>
	<u>Cervulus muntjac</u>		<u>Muntiacus muntjac</u>
	Peshok, Darjiling District, E. Himalayas (2500-3500 ft. elev.)		Pashok (27.04 N, 88.23 E), Darjeeling District, West Dinajpur, India (762-1067 m)
	30.IV.1915		30.IV.1915
	R. S. Lister		R. S. Lister
	ex Ind. Mus. $\frac{2344}{17}$ & $\frac{2344}{17}$ ^a		(3171a) retained in collection of Dr. H. Hoogstraal, NAMRU-3, Cairo, Egypt.
	C.W. det. VII.1915		
	Received from Indian Museum Calcutta per F.H. Gravely.		
N	3172	N	3172
		RML	112026
	<u>Haemaphysalis bispinosa</u> 3 ♂, 3 ♀, 1 N		3 ♂, 3 ♀, 1 N <u>Haemaphysalis bispinosa</u>
	Dog		Dog
	Paksey, Pubna District, Bengal		Pa ksey, Pubna District, Bengal, India (locality not verified)
	3.III.1915		3.III.1915
	C. Paiva		C. Paiva
	Ind. Mus. No. $\frac{2347}{17}$		
	C.W. det. VII.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3173

Argas vespertilionis 2 larvaeNycticejus kuhlii (bat)

Lahore, Punjab

I.1915

Baini Barshud

Ind. Mus. No. $\frac{2350}{17}$

C.W. & G.H.F.N. det. VII.1915.

N 3173

RML 112027

2 L Argas vespertilionisScotophilus temmincki

Lahore (31.35 N, 74.18 E), Pakistan

I.1915

Baini Barshud

N 3174

Hyalomma aegyptium ? 1 NVidua principalis
(a small bird, off its head)

Accra, W. Africa

27.III.1915

Dr. J.W.S. Macfie

Imp. Bur. Ent. No. 927.

C.W. & G.H.F.N. det. VII.1915.

N 3174

RML 112028

1 N Hyalomma sp.Vidua sp.

Accra (05.33 N, 00.13 W), Ghana

27.III.1915

Dr. J.W.S. Macfie

ORIGINAL DETERMINATIONCURRENT STATUS

N	3175	N	3175
		RML	105641
	<u>Rhipicephalus sanguineus</u> ♂, ♀, N		3 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u> 2 N <u>Hyalomma</u> sp.
	Wild rabbit		Rabbit, wild
	Accra, W. Africa		Accra (05.33 N, 00.13 W), Ghana
	26.I.1915		26.I.1915
	Dr. J.W.S. Macfie		Dr. J.W.S. Macfie
	Imp. Bur. Ent. NO. 928		
	C.W. & G.H.F.N. det. VII.1915.		
N	3176	N	3176 MISSING
	<u>Boophilus australis</u> ♂, ♀, N		
	Cow (dead of anthrax, from inside ear)		
	British Guiana		
	IV.1913		
	G. E. Bodkin		
	Imp. Bur. Ent. No. 930		
	C.W. & G.H.F.N. det. VII.1915.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3177	N	3177
	<u>Rhipicephalus simus</u> or <u>falcatus</u>	RML	112029
	Cattle		2 N <u>Rhipicephalus</u> sp.
	Marimba District, Nyasaland		Cattle
	VII.1912		Marimba District, Malawi (locality not verified)
	J. G. Morgan, M.O.		VII.1912
	Impt. Bur. Ent. No. 931.		J. G. Morgan, M.O.
	C.W. & G.H.F.N. det. VII.1915.		
N	3178	N	3178
	<u>Ixodes auritulus</u> 1 ♀	RML	112030
	<u>Haliaeetus leucocephalus alascanus</u> (eagle)		1 ♀ <u>Ixodes auritulus</u>
	Masset, Queen Charlotte Islands, B.C., Canada		<u>Haliaeetus leucocephalus</u>
	17.VI.1910		Masset (54.01 N, 132.09 W), Queen Charlotte Islands, British Columbia, Canada
	E.M. Anderson (Assistant Curator, Provincial Museum)		17.VI.1910
	Gift of S. Hadwen		E.M. Anderson (Assistant Curator, Provincial Museum)
	G.H.F.N. det. I figured this ♀ [leg 4 of ♀ mounted on slide]		Cited & figured: Nuttall (1916: 313, 314).
	Sent by Dr. S. Hadwen 25.III.1911, labelled by him " <u>I. rutherfordi</u> n. sp." (Ms).		Slide missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3179	N	3179
		RML	112031
	<u>Ixodes auritulus</u> 1 N, L's TYPES		1 N, 1 L <u>Ixodes auritulus</u>
	<u>Cyanocitta stelleri carlotae</u> (jay)		<u>Cyanocitta stelleri</u>
	Masset, Queen Charlotte Islands, B.C., Canada		Masset (54.01 N, 132.09 W), Queen Charlotte Islands, British Columbia Canada
	23.VI.1910		23.VI.1910
	E. M. Anderson (Assistant Curator, Provincial Museum)		E. M. Anderson (Assistant Curator, Provincial Museum)
	Gift of S. Hadwen		Nuttall: (1916: 313, 314), first description and figures of the immature stages.
N	3180	N	3180
		RML	112032
	<u>Ixodes dentatus</u> var. <u>spinipalpis</u>		1 ♀ <u>Ixodes spinipalpis</u> Lectotype of <u>I. dentatus spinipalpis</u>
	<u>Lepus americanus</u>		<u>Lepus americanus</u>
	Mt. Lehman, B.C., Canada		Mount Lehman (94.07 N, 122.23 W), British Columbia, Canada
	1.IX.1910		1.IX.1910
	Dr. S. Hadwen		Dr. S. Hadwen
	Sent by Dr. S. Hadwen 25.III.1911, labelled by him " <u>I. dentatus</u> var. <u>spinipalpis</u> n. var."		Hadwen & Nuttall in Nuttall (1916: 301) original description. Keirans & Clifford (1978: 143) incorrectly cited this specimen as the holotype. Lectotype designated: Keirans & Brewster (1981: 165).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3181

Ixodes dentatus var. spinipalpis
Hadwen & Nuttall 1915

1 N child
1 N Lepus americanus
4 L Lepus americanus

Mt. Lehman, B.C., Canada

5.III.1910

Dr. S. Hadwen

[1 L mounted by me in balsam]

N 3181

RML 112033

2 N, 4 L Ixodes spinipalpis
Paralectotypes of I. dentatus
spinipalpis

1 N ex Homo sapiens
1 N, 4 L ex Lepus americanus

Mount Lehman (49.07 N, 122.23 W)
British Columbia, Canada

5.III.1910

Dr. S. Hadwen

Hadwen & Nuttall in Nuttall (1916: 301) original description. Cited: Keirans & Clifford (1978: 143). The original collection data by Hadwen & Nuttall (1916: 304) listed one nymph from Sciurus hudsonicus. This specimen could not be found and is probably an erroneous listing. Paralectotypes designated: Keirans & Brewster (1981: 165).

N 3182

Ixodes hexagonus 1 ♀
Ovipositing, rec'd. alive

Probably dog, found on steps
of porchFryern, Pulborough, W. Sussex,
England

ca. 28.VII.1915

Edward King

G.H.F.N. det.

Rec'd. from P. Anderson Grahame,
Editor of "Country Life"
20 Tavistock St., Covent Garden,
London, W.D. Reported 31.VII.1915.

N 3182

ORIGINAL DETERMINATIONCURRENT STATUS

N	3183 <u>Ixodes ricinus</u> 1 ♂, 1 ♀ Shepherd dog Wastwater, Cumberland, England 2.IX.1915 G.H.F. Nuttall G.H.F.N. det. 5.IX.1915	N	3183 MISSING
N	3184 <u>Ixodes ricinus</u> 2 L Off my hand (sheep & dogs about) Buttermore, Cumberland, England 17.VIII.1915, 28.VIII.1915 G.H.F. Nuttall G.H.F.N. det. 5.IX.1915	N	3184 MISSING
N	3185 <u>Dermacentor auratus</u> 1 ♂ Collector Doi Sutep, Siam (2500 ft. elev.) 17.V.1914 Dr. A.F.G. Kerr, Chiangmai, Siam G.H.F.N. & C.W. det. 21.IX.1915 Posted 22.VII.1915, rec'd. 11.IX.1915, all taken in neighborhood of Chiangmai.	N	3185 RML 112182 1 ♂ <u>Dermacentor auratus</u> <u>Homo sapiens</u> Ban Bon Doi Suthep (18.48 N, 98.55 E), Chiang Mai, Thailand (762 m.) 17.V.1914 Dr. A.F.G. Kerr, Chiang Mai, Thailand

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3186 <u>Dermacentor auratus</u> Doi Sutep, Siam 1200 metres 25.X.1914 Dr. A.F.G. Kerr, Chiangmai, Siam G.H.F.N. & C.W. det. 21.IX.1915.	N	3186 MISSING
N	3187, a (3187) <u>Dermacentor auratus</u> 1 ♀ (unfed) Collector Chungianen, Siam 1915 Dr. A.F.G. Kerr, Chiangmai, Siam G.H.F.N. & C.W. det. 21.IX.1915.	N	3187, a RML 84499 (3187) 1 ♀ <u>Dermacentor auratus</u> (a) 1 ♂ <u>Haemaphysalis darjeeling</u> <u>Homo sapiens</u> Chunginen, Chiang Mai, Thailand (locality not verified) 1915 Dr. A.F.G. Kerr, Chiang Mai, Thailand (3187a) cited: Hoogstraal & Dhanda (1970: 169).
N	3188 <u>Haemaphysalis hystricis</u> 1 ♀ Collector Doi Sutep, Siam 3000 ft. 21.VI.1914 Dr. A.F.G. Kerr, Chiangmai, Siam G.H.F.N. & C.W. det. 21.IX.1915.	N	3188 RML 84345 1 ♀ <u>Haemaphysalis hystricis</u> 1 ♂ <u>Haemaphysalis koningsbergeri</u> <u>Homo sapiens</u> Ban Bon Doi Suthep (18.48 N, 98.55 E), Chiang Mai, Thailand (914 m.) 21.VI.1914 Dr. A.F.G. Kerr, Chiang Mai, Thailand

ORIGINAL DETERMINATIONCURRENT STATUS

N	3189	N	3189
		RML	112183
	<u>Haemaphysalis leachi koningsbergeri</u> 4 ♂		3 ♂ <u>Haemaphysalis koningsbergeri</u>
	<u>Felis nebulosa</u>		<u>Neofelis nebulosa</u>
	Muar, Johore		Muar (02.02 N, 102.34 E), Johor, Malaysia
	I.1914		I.1914
	? sent by C. Strickland		? sent by C. Strickland
	G.H.F.N. & C.W. det. 21.IX.1915.		
N	3190	N	3190 MISSING
	<u>Ixodes ricinus</u> 1 ♀		
	<u>Lepus variabilis</u> (Mountain hare)		
	Tarvie, Pitlochry, N.B., Scotland		
	21.IX.1915		
	P. A. Buxton		
	G.H.F.N. rec'd. & det. 25.IX.1915.		
N	3191	N	3191
		RML	112184
	<u>Amblyomma lepidum</u> 1 ♂		1 ♂ <u>Amblyomma lepidum</u>
	Cattle		Cattle
	Egypt		Egypt
	? 1915		? 1915
	Dr. L. H. Gough		Dr. L. H. Gough
	Imp. Bur. Ent. No. 935		
	G.H.F.N. det. 22.IX.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3192

N 3192 MISSING

Ixodes rarus 3 ♂, 6 ♀
(1 pair in copula)

Leopard

Near Chininda, S. Rhodesia (3800 ft.)

26.XII.1909

C. F. Swynnerton

Imp. Bur. Ent. No. 932.

Mounted dry on 3 slides

G.H.F.N. det. 22.IX.1915.

N 3193

N 3193

RML 112185

Ixodes granulatus 1 ♀1 ♀ Ixodes granulatusEpimys rufescensRattus rattus rufescens

Peshok, Darjeeling District, India

Pashok (27.04 N, 88.23 E),
West Dinajpur, India

R. S. Lister

R. S. Lister

Ind. Mus. No. $\frac{2345}{17}$ Cited: Nuttall (1916: 316);
Sharif (1928: 237).

2 other ♀'s returned

G.H.F.N. det. 4.X.1915.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3194

Ixodes victoriensis
Nuttall 1915 1 ♀ TYPE!

Wombat

Victoria, Australia

X.1892

Sent by Dr. G. Sweet of Melbourne

(returning 1 ♀ Sweet 236a)

N 3194

RML 112186

1 ♀ Ixodes victoriensis
Lectotype

Doubtless Vombatus ursinus

Victoria, Australia

X.1892

Sent by Dr. G. Sweet of Melbourne

Nuttall (1915: 297) original description. He stated the host was doubtless Phascolomys mitchelli [=V. ursinus]. Lectotype designated: Keirans & Brewster (1981: 168).

N 3195

Aponomma p[-----]s
Robinson 1915 2 ♂, 8 ♀, 2 N
CO-TYPES

Wombat

5.III.1911

Sent by Dr. Sweet = Sweet 3
rest to return

N 3195

RML 112187

1 ♂, 8 ♀, 1 N Aponomma auruginansVombatus ursinus or Lasiorhinus sp

5.III.1911

Sent by Dr. Georgina Sweet

Robinson's species name not recorded here because its publication would constitute a nomen nudum.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3196	N	3196
		RML	112188
	<u>Aponomma p[-----]s</u> 1 ♂, 1 ♀ CO-TYPES		1 ♂, 1 ♀ <u>Aponomma auruginans</u>
	Wombat		<u>Vombatus ursinus</u> or <u>Lasiorhinus</u> spp.
	Zool. Gardens, Melbourne, Victoria, Australia		Zoological Gardens, Melbourne (37.49 S, 144.58 E), Victoria, Australia
	X.1892		X.1892
	Sent by Dr. Sweet = Sweet 5 rest to return		Sent by Dr. Georgina Sweet Robinson's species name not recorded here because its publication would constitute a <u>nomen nudum</u> .
N	3197	N	3197
		RML	112189
	<u>Aponomma p[-----]s</u> 2 ♀ gorged		2♀ <u>Aponomma auruginans</u>
	Wombat		<u>Vombatus ursinus</u> or <u>Lasiorhinus</u> sp.
	Melbourne, Victoria, Australia		Melbourne (37.49 S, 144.58 E), Australia
	X.1892		X.1892
	Sent by Dr. Sweet = Sweet 236 rest to return		Sent by Dr. Georgina Sweet Robinson's species name not recorded here because its publication would constitute a <u>nomen nudum</u> .

ORIGINAL DETERMINATIONCURRENT STATUS

N 3198

Ixodes tasmani 1 ♀

Dasyurus maculatus

Zool. Gardens, Melbourne,
Victoria, Australia

11.VIII.1910

Dr. Stapley

Sent by Dr. G. Sweet = Sweet 325

G.H.F.N. det. & fig'd.

N 3198

RML 112190

1 ♀ Ixodes tasmani

Dasyurus maculatus

Zoological Gardens, Melbourne
(37.49 S, 144.58 E), Victoria,
Australia

11.VIII.1910

Dr. Stapley

Cited & figured: Nuttall (1916: 323)
who gave the collection date
as 11.VII.1910.

N 3199

Aponomma gervaisi 5 ♂

Uromastix hardwickii

Origin India. In Zool. Soc.
Gard's., London

X.1915

Prof. Plimmer, F.R.S.

Nutt. & Warb. det. 5.X.1915
10 ♂ returned with report.
= Z.S. 41.

N 3199

RML 112191

5 ♂ Aponomma gervaisi

Uromastix hardwickii

Origin India. In Zoological Society
Gardens, London (51.30 N, 00.07 W),
England

X.1915

Prof. Plimmer, F.R.S.

ORIGINAL DETERMINATION

N 3200

Ixodes oldi 2 ♀

Leopard

Near Chirinda, S. Rhodesia
3800 ft.

26.XII.1909

C.F.M. Swynnerton

G.H.F.N. det. 11.X.1915.
Imp. Bur. Ent. No. 932CCURRENT STATUS

N 3200

RML 112192

2 ♀ Ixodes sp.Panthera pardusPerhaps Chirinda hill (20.05 S,
31.28 E), Zimbabwe (1158 m.)

26.XII.1909

C.F.M. Swynnerton

Mutilated specimens
Cited: Nuttall (1916: 329).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3201	N	3201
		RML	112193
	<u>Dermacentor</u> sp. 11 ♂'s, 11 ♀'s, unfed		9 ♂, 9 ♀ <u>Dermacentor niveus</u>
	On grass		On grass
	Estere1 Mts., Cannes, S. France (South African Hospital, France)		Estere1 Mts. (43.30 N, 06.50 E), Cannes, France
	Rec'd. 25.X.1915		Rec'd. 25.X.1915
	Dr. H. Bayon		Dr. H. Bayon
	C.W. det. 28.X.1915		1 ♂, 1 ♀ of above total mounted on a slide.
N	3202, a	N	3202, a
		RML	112194
	(3202) <u>Hyalomma aegyptium</u> 2 ♂ (a) <u>Rhipicephalus sanguineus</u> 3 N		(3202) 2 ♂ <u>Hyalomma marginatum</u> (a) 3 N <u>Rhipicephalus sanguineus</u>
	Rabbit		Rabbit
	Estere1 Mts., Cannes, S. France (South African Hospital, France)		Estere1 Mts. (43.30 N, 06.50 E), Cannes, France
	Rec'd. 25.X.1915		Rec'd. 25.X.1915
	Dr. H. Bayon		Dr. H. Bayon
	C.W. det. 28.X.1915.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3203

Aponomma gervaisi var. lucasi 1 ♂Found in tube with termites (Termes carbonarius Hazen) in a nest

Kampong, Jahor, Malay Peninsula

19.XI.1901

Skeat Expedition (presented by Hugh Scott, M.A., Cambridge XI.1915).

G.H.F.N. det. 2.XI.1915

N.B.: - lizards feed on termites which would explain ticks presence.
G.H.F.N.

N 3203

RML 112195

1 ♂ Aponomma varanensisFound in tube with termites, Macrotermes carbonarius (Hagen), in a nest.

? Kampong ? perhaps state of Johor (02.00 N, 103.30 E), Malaysia

19.XI.1901

Skeat Expedition (presented by Hugh Scott, M.A., Cambridge XI.1915).

N 3204

Amblyomma variegatum ♂'s, ♀'s

On skin of cow (& then preserved)

South Nigeria

22.VII.1910

Dr. J. G. Copland

G.H.F.N. det. for I. Bureau of Entomol. = E. 421.

N 3204 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	3205	N	3205 MISSING
	<u>Ixodes ricinus</u> 5 N		
	From nose of sheep		
	Llwyngwinan, Cardiganshire, Wales		
	15.VI.1915		
	Prof. C. W. Walton, (Zool. Dept. Univ. of Wales, Aberystwyth)		
	G.H.F.N. & C.W. det.		
N	3206	N	3206 MISSING
	<u>Ixodes ricinus</u> 2 ♀		
	Cat		
	Crosswood, Llwyngwinan, Cardiganshire, Wales		
	24.V.1915		
	Prof. C. W. Walton (Zool. Dept. Univ. of Wales, Aberystwyth)		
	G.H.F.N. & C.W. det.		
N	3207	N	3207 MISSING
	<u>Ixodes ricinus</u> 5 N		
	Squirrel		
	Brought in from Goginnan Cardiganshire to Aberystwyth		
	VI.1915		
	Messrs. Hutchings, taxidermists, Aberystwyth (gift of C.W. Walton)		
	G.H.F.N. & C.W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3208	N	3208 MISSING
	<u>Ixodes ricinus</u> 1 ♀		
	Ear of ewe		
	Llwyngwinan, Cardiganshire, Wales		
	15.VI.1915		
	Prof. C. W. Walton		
	G.H.F.N. & C.W. det.		
N	3209	N	3209 MISSING
	<u>Ixodes hexagonus</u> 1 ♂!		
	Found attached to ear of badger, <u>Meles taxus</u>		
	Rec'd from Llanrhystyd, Cardiganshire, Wales		
	VI.?.1915		
	Messrs. Hutchings, taxidermists, Aberystwyth (Gift of C.W. Walton)		
	G.H.F.N. & C.W. det.		
N	3210	N	3210
		RML	112196
	<u>Amblyomma variegatum</u> 2 ♂		2 ♂ <u>Amblyomma variegatum</u>
	Host ?		Host ?
	Namasagali, Uganda		Namasagali (01.01 N, 32.57 E), Uganda
	1915		1915
	Commander H. Hutchinson		Commander H. Hutchinson
	Imp. Bur. Ent. 949, 950 G.H.F.N. det. 19.XI.1915.		Pinned specimens
	(pinned spec's.).		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3211	N	3211
		RML	112197
	<u>Amblyomma cohaerens</u> 3 ♂, 2 ♀		3 ♂, 2 ♀ <u>Amblyomma cohaerens</u>
	Elephant		<u>Loxodonta africana</u>
	Chagwe, Uganda		Chagwe, Uganda (locality not verified).
	24.VII.1915		24.VII.1915
	Mr. C. C. Gowdey		Mr. C. C. Gowdey
	Imp. Bur. Ent. E. 951.		Cited: Robinson (1926: 110).
	G.H.F.N. det. 19.XI.1915.		
N	3212, a	N	3212, a
		RML	112198
	(3212) <u>Dermacentor nitens</u> 2 ♂, 2 ♀		(3212) 2 ♂, 2 ♀ <u>Anocentor nitens</u>
	(a) <u>Amblyomma maculatum</u> 1 ♀		(a) 1 ♀ <u>Amblyomma triste</u>
	Cattle		Cattle
	Guayaquil, Ecuador		Guayaquil (02.10 S, 79.50 W), Ecuador
	1915		1915
	Dr. Espiroso - Tamaye		Dr. Espiroso - Tamaye
	Rec'd. 1.XII.1915 from Prof. B. Galli Valerio, Univ. of Lausanne in a tube labelled "garrapatas"		
	G.H.F.N. & C.W. det. 2.XII.1914. Reported 2.XII.1915 & asked for particulars.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3213	N	3213
		RML	112199
	<u>Dermacentor reticulatus</u> var. <u>niveus</u> CO-TYPE		1 ♂, 1 ♀ <u>Dermacentor niveus</u> SYNTYPES
	1 ♂, 1 ♀		
	Sheep		Sheep
	10 leagues from Teheran, Persia		48.3 km. from Teheran (35.40 N, 51.26 E), Iran
	Tholozan coll. Gift of Paris Mus. 11.XII.1915		Tholozan coll. Gift of Paris Mus. 11.XII.1915
	No. 19.		Neumann (1897: 365) original description.
N	3214	N	3214
		RML	112200
	<u>Dermacentor nitens</u> 2 ♂, 3 ♀, 2 N		1 ♂, 4 ♀, 2 N <u>Anocentor nitens</u>
	Mules		Mules
	Grenada, W. Indies		Grenada (12.07 N, 61.40 W), British Lesser Antilles
	Rec'd. 27.I.1916		Rec'd. 27.I.1916
	? Gift of Wellcome Bur. Sci. (per M. E. MacGregor)		? Gift of Wellcome Bur. Sci. (per M. E. MacGregor)
	G.H.F.N. & C.W. det. 27.I.1916. Reported 28.I.1916 to M.E. MacGregor & rest of lot returned.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3215a-i

N 3215a-g, i

RML 66590

- (a) Rhipicephalus pulchellus ♂'s, ♀'s
 (b) Rhipicephalus evertsi 3 ♂
 (c) Rhipicephalus maculatus 10 ♂, 3 ♀
 (d) Rhipicephalus neavei 1 ♂, 1 ♀
 (e) Amblyomma gemma 4 ♂, 2 ♀
 (f) Amblyomma marmoreum 4 ♂
 (g) Amblyomma petersi 1 ♀
 (h) Amblyomma variegatum 5 ♂
 (i) Dermacentor rhinocerotis 1 ♂

- (a) Eland antelope
 (g, i) Rhinoceros
 (b,c,d,e,f,h) Unknown

Mombasa or Makindu, B.E. Africa

Rec'd. 22.I.1916

Sent by Dr. J. O. Shircore
 Mombasa (collected by himself
 or friends)

- (a,b,e,f,g,h,i) G.H.F.N. det.
 (c) G.H.F.N. & C.W. det.
 (d) C.W. det.

3215c N.B. especially good for
 variation.

- (a) 79 ♂, 49 ♀ Rhipicephalus pulchellus
 (b) 3 ♂ Rhipicephalus evertsi
 (c) 11 ♂, 3 ♀ Rhipicephalus maculatus
 (d) 1 ♂, 1 ♀ Rhipicephalus pravus
 (e) 4 ♂, 2 ♀ Amblyomma gemma
 (f) 3 ♂ Amblyomma sparsum
 (g) 1 ♀ Amblyomma rhinocerotis
 (h) MISSING
 (i) 1 ♂ Dermacentor rhinocerinus

- (a) Taurotragus oryx
 (g, i) Diceros bicornis
 (b,c,d,e,f,h) Unknown

Mombasa (04.03 S, 39.40 E) or
 Makindu (02.17 S, 37.49 E), Kenya

Rec'd. 22.I.1916

Sent by Dr. J. O. Shircore
 Mombasa (collected by himself
 or friends)

- (3215e) Robinson (1926: 122) stated
 the specimens of A. gemma
 were from an eland.
 (f) cited: Theiler & Salisbury
 (1958: 112) who spelled the
 collector's name Shircow.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3216	N	3216
		RML	112201
	<u>Ornithodoros moubata</u> 4 N's		4 N <u>Ornithodoros moubata</u>
	Warthog's hole		Burrow of <u>Phacochoerus aethiopicus</u>
	Monkey Bay, Nyasaland		Monkey Bay (14.05 S, 34.55 E), Malawi
	27.VIII.1915		27.VIII.1915
	Dr. W. A. Lamborn		Dr. W. A. Lamborn
	G.H.F.N. & C.W. det.		
	Reported 15.III.1916 to Ent. Bur.		
	There were 64 specimens in the original lot. = E 956-7.		
N	3217	N	3217
		RML	112202
	<u>Dermacentor niveus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Dermacentor niveus</u>
	Maremma, Toscana, Italy		Maremma Region (42.30 N, 11.30 E), Italy
	Rec'd. 1916		Rec'd. 1916
	From Prof. Dr. Guido Paoli, Florence		From Prof. Dr. Guido Paoli, Florence
	G.H.F.N. & C.W. det.		Guido Paoli (1881-1947) noted phytopathologist of Genoa, Italy
	Sender Prof. Dr. Guido Paoli, Inspettore per le Malattie delle Piante, R. Storzione di Entomologia Agraria, Via Romana 19, Firenze, Italy.		

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3218</p> <p><u>Haemaphysalis birmaniae</u> 6 ♂</p> <p>Porcupine</p> <p>Naksiyidiniya, S.P., India</p> <p>2.V.1913</p> <p>Major E. W. Mayor</p> <p>G.H.F.N. & C.W. det. 31.I.1916; gift of Brit. Mus.</p> <p>Reported 31.I.1916 vide Rep. Bk. p. 181.</p>	<p>N 3218 MISSING</p>
<p>N 3219</p> <p><u>Haemaphysalis pammata</u> 1 ♂, 3 ♀</p> <p>Bush buck</p> <p>Nyeri District, Brit. E. Africa</p> <p>17.VIII.1914</p> <p>W. J. Street</p> <p>G.H.F.N. & C.W. det. 31.I.1916; gift of Brit. Mus.</p> <p>Reported 31.I.1916 vide Rep. Bk. p. 181.</p>	<p>N 3219</p> <p>RML 69934, RML 72605</p> <p>1 ♀ <u>Haemaphysalis aciculifer</u> (RML 69934)</p> <p>1 ♂, 1 ♀ <u>Haemaphysalis pammata</u> (RML 72605)</p> <p><u>Tragelaphus scriptus</u></p> <p>Nyeri District (00.25 S, 27.00 E), Central Region, Kenya</p> <p>17.VIII.1914</p> <p>W. J. Street</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N 3220

Haemaphysalis cuspidata 2 ♂, 4 N

Mouse deer

Cheddi Kulam, N.P., India

17.XI.1913

Major E. W. Mayor

G.H.F.N. & C.W. det. 31.I.1916;
gift of Brit. Mus.Reported 31.I.1916 vide
Rep. Bk. p. 181.

N 3220

RML 112203

2 ♂, 2 N Haemaphysalis cuspidataTragulus meminnaCheddi Kulam, N.P., India (locality
not verified)

17.XI.1913

Major E. W. Mayor

Note in vial "1 ♂, 1 N-M. Sharif"

N 3221

Haemaphysalis parva 2 ♂

Tame rabbit

Colombo, Ceylon

1.X.1914

G.H.F.N. & C.W. det. 31.I.1916;
gift of Brit. Mus.

N 3221

RML 76101

2 ♂ Haemaphysalis intermedia

Rabbit, tame

Colombo (06.56 N, 79.51 E), Sri Lanka

1.X.1914

ORIGINAL DETERMINATIONCURRENT STATUS

N	3222	N	3222
		RML	112204
	<u>Haemaphysalis bancrofti</u> 2 ♀		1 ♀ <u>Haemaphysalis bancrofti</u>
	Wild pig		<u>Sus scrofa</u>
	Cape York, Queensland		Cape York (10.43 S, 142.28 E), Queensland, Australia
	VII.1912		VII.1912
	R. Kemp		R. Kemp
	G.H.F.N. & C.W. det. 31.I.1916; gift of Brit. Mus.		Note in vial "1 ♀ found 1933"
N	3223	N	3223
		RML	112205
	<u>Haemaphysalis bancrofti</u> 1 ♂		1 ♂ <u>Haemaphysalis bancrofti</u>
	<u>Canis familiaris</u>		<u>Canis familiaris</u>
	Kelsey Creek, N. Queensland		Kelsey Creek (20.26 S, 148.27 E), Queensland, Australia
	1911		1911
	A. Fontaine		A. Fontaine
	G.H.F.N. & C.W. det. 31.I.1916; gift of Brit. Mus.		This specimen undoubtedly came from the Rothschild tick collection donated to the British Museum (Nat. Hist.). See collection K 60 in Keirans (1982:25)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3224

N 3224 MISSING

Ixodes tenuirostris 1 N, 1 LArvicola nivalisMayens di Van, Vallei de Salvan,
Canton du Valais, Switzerland

VII.1914

Prof. B. Galli - Valerio

[On 2 slides in balsam]

G.H.F.N. det. 13.IV.1916; gift of
Prof. B. Galli-Valerio, Univ.
of Lausanne.Reported 14.IV.1916 returning
9 slides containing 1 ♀, 1 N, 7 L
from same source and 1 L from
Hypudaeus glareolus, Cesy,
near Lausanne, Switzerland, ca. 1914.

N 3225

N 3225 MISSING

Dermacentor occidentalis, 3 ♂, 1 ♀
unfed

Captured on collector's clothes

Foot Hills behind Santa Barbara,
California

14.III.1916

Mrs. Zelia Nuttall

[on 2 slides dry in cells]

C.W. & G.H.F.N. det. 13.IV.1916.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3226	N	3226
		RML	101313
	<u>Hyalomma aegyptium</u> ♂, ♀		1 ♂, 7 ♀ <u>Hyalomma lusitanicum</u> 1 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Fuerteventura Isl. & Teneriffe		Isla de Fuerteventura (28.20 N, 12.00 W) & Isla de Tenerife (28.19 N, 16.34 W), Canary Islands
	Sent 25.V.1916		Sent 25.V.1916
	Dr. Geo. V. Perez		Dr. Geo. V. Perez
	C.W. & G.H.F.N. det. VI.1916.		An additional 1 ♂, 2 ♀ <u>H. lusitanicum</u> are in the collection of Dr. H. Hoogstraal, NAMRU-3, Cairo, Egypt.
			Cited: Hoogstraal (1956a: 885); Hoogstraal & Kaiser (1959: 256).
N	3227	N	3227
		RML	112206
	Undetermined genus N		1 N <u>Amblyomma</u> sp.
	<u>Crax alector</u>		<u>Crax alector</u>
	British Guiana		Guyana
	Rec'd. VII.1916		Rec'd. VII.1916
	E. Bodkin		E. Bodkin
	Genus pro tem undet. Gift of Ent. Comm. (E. 968) 7.VII.1916.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3228

Haemaphysalis sp. 1 ♀, N'sSpermophilus citellus

Harbin, Manchuria, China

Sent me 16.VIII.1915

Dr. Wu Lien Tep (=Dr. Tuck)

(1 tube & 2 slides)
C.W. det.C. Warburton noted 23.IX.1916.
Only 1 ♀ of leachi type closely
resembling our koningsbergeri,
but dentition ? 3/3. Asking
sender to send more adults.

N 3228

RML 112207

1 ♂, 1 ♀, 6 N Haemaphysalis
verticalisCitellus citellusHa-erh-pin (45.45 N, 126.39 E),
Heilungkiang, Peoples Republic
of China

Sent me 16.VIII.1915

Dr. Wu Lien Tep (=Dr. Tuck)

Slides missing

An additional 3 N are in the
Dr. Harry Hoogstraal collection,
NAMRU-3, Cairo, Egypt.

N 3229

Ixodes ricinus 2 larvaeOff my hand on pasture where
sheep were.

Capel Carig, N. Wales

2.IX.1916

G.H.F. Nuttall

G.H.F.N. det.

N 3229 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	3230	N	3230
		RML	112208
	<u>Rhipicephalus sculptus</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Rhipicephalus sculptus</u>
	Zebra		<u>Equus burchelli</u>
	Ngara, Nyasaland		Ngara (10.14 S, 34.07 E), Karonga District, Malawi
	4.I.1915		4.I.1915
	Dr. J. B. Davey		Dr. J. B. Davey
	C.W. det. Gift of Imp. B. Ent. (=E. 996) III.1917.		Cited: Santos Dias (1958: 479).
N	3231	N	3231
		RML	112209
	<u>Ixodes hexagonus</u> Many ♀ gorged		26 ♀ <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	14.V.1917		14.V.1917
	Prof. J. S. Gardiner		Prof. J. S. Gardiner
	C.W. & G.H.F.N. [det.]		
	2 ♀ to Prof. R. Matheson, Cornell 27.V.1929.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3232	N	3232
	<u>Ixodes hexagonus</u> 1 ♀, gorged	RML	112210
	<u>Canis familiaris</u>		1 ♀ <u>Ixodes hexagonus</u>
	Cambridge		<u>Canis familiaris</u>
	22.V.1917		Cambridge (52.13 N, 00.08 E), England
	S. W. Cole		22.V.1917
	G.H.F.N. & C.W. [det.].		S. W. Cole
N	3233	N	3233 MISSING
	<u>Ixodes ricinus</u> 1 N, unfed		
	Creeping on girl's hand off grass, sheep about.		
	Easedale Tarn, Cumberland		
	9.IX.1917		
	G.H.F. Nuttall		
	G.H.F.N. det.		
N	3234	N	3234
	<u>Hyalomma aegyptium</u> 2 ♂, 2 ♀ unfed	RML	112211
	Off collector's clothing		2 ♂, 2 ♀ <u>Hyalomma anatolicum anatolicum</u>
	Sollum, near Tripoli, W. frontier of Egypt		<u>Homo sapiens</u>
	XI.1916		Sollum (31.34 N, 25.09 E), Egypt
	E. S. Hay whilst on active service (my secretary)		XI.1916
	G.H.F.N. det.		E. S. Hay whilst on active service (my secretary)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3235	N	3235
		RML	112212
	<u>Argas reflexus</u> 2 adults		2 ♀ <u>Argas reflexus</u>
	Canterbury		Canterbury (51.16 N, 01.05 E), England
	Rec'd. 2.V.1917 alive		Rec'd. 2.V.1917 alive
	Correspondent of donor Mr. Brockett (Zool. Dept., Cambridge)		Correspondent of donor Mr. Brockett (Zool. Dept., Cambridge)
	C.W. & G.H.F.N. det. 2.V.1917.		
N	3236	N	3236
		RML	112213
	<u>Ixodes hexagonus</u> 3 ♀		3 ♀ <u>Ixodes hexagonus</u>
	<u>Erinaceus europaeus</u>		<u>Erinaceus europaeus</u>
	Grantchester, Cambs.		Grantchester (52.10 N, 00.06 E), England
	27.XI.1917		27.XI.1917
	N.D.F. Pearce		N.D.F. Pearce
	C.W. det.		
N	3237	N	3237
		RML	112214
	<u>Ixodes hexagonus</u> 10 N		11 N <u>Ixodes hexagonus</u>
	Dog & cat		Dog & cat
	Grantchester, Cambs		Grantchester (52.10 N, 00.06 E), England
	27.XI.1917		27.XI.1917
	N.D.F. Pearce		N.D.F. Pearce
	C.W. & G.H.F.N. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3238	N	3238
		RML	112215
	<u>Amblyomma dissimile</u> 5 N, 1 L		5 N, 2 L <u>Amblyomma dissimile</u>
	Snake		Snake
	in forest, Peru, S. America		Peru, in forest
	Posted 23.X.1917		Posted 23.X.1917
	Dr. Ramon E. Ribeyro		Dr. Ramon E. Ribeyro
	C.W. det.		
	Rect. acknowledged 18.XII.1917, determination to follow if possible to make it. G.H.F.N.		
	Address: Dr. Ramon E. Ribeyro, Direccion Instituto Nacional de Vacuna, Lima, Peru R. 8.VIII.1919		
N	3239	N	3239
		RML	112216
	<u>Hyalomma aegyptium</u> ♂, N's		1 ♂ <u>Hyalomma impeltatum</u>
	<u>Lepus</u> sp.		<u>Lepus</u> sp.
	Amara, R. Tigris, Mesopotamia		Al Amarah (31.50 N, 47.09 E), Iraq
	30.X.1917		30.X.1917
	P. A. Buxton, Lieutenant, R.A.M.C.		P. A. Buxton, Lieutenant, R.A.M.C.
	Rec'd 14.I.1918. Det'd. by C.W.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3240	N	3240
		RML	112217
	<u>Hyalomma aegyptium</u> ♂, ♀, N		1 ♂ <u>Hyalomma impeltatum</u>
			1 ♀ <u>Hyalomma anatolicum excavatum</u>
	<u>Ruticilla phoenicurus</u> (Redstart)		<u>Phoenicurus phoenicurus</u>
	Amara, R. Tigris, Mesopotamia		A1 Amarah (31.50 N, 47.09 E), Iraq
	25.X.1917		25.X.1917
	P. A. Buxton, Lieutenant, R.A.M.C.		P. A. Buxton, Lieutenant, R.A.M.C.
	Rec'd. 14.I.1918 Det'd. by C.W.		
N	3241	N	3241
		RML	112218
	<u>Rhipicephalus sanguineus</u>		3 ♂, 1 ♀, 2 N <u>Rhipicephalus sanguineus</u>
	Hedgehog, ? <u>Erinaceus calligoni</u> (Satunin)		? <u>Hemiechinus auritus</u>
	Amara, R. Tigris, Mesopotamia		A1 Amarah (31.50 N, 47.09 E), Iraq
	8.XI.1917		8.XI.1917
	P. A. Buxton, Lieutenant, R.A.M.C.		P. A. Buxton, Lieutenant, R.A.M.C.
	Rec'd 14.I.1918. Det'd by C.W.		
N	3242	N	3242
		RML	112219
	<u>Hyalomma aegyptium</u> N		1 N <u>Hyalomma</u> sp.
	Lark (<u>Glarida</u> sp.)		<u>Glarida</u> sp.
	Amara, R. Tigris, Mesopotamia		A1 Amarah (31.50 N, 47.09 E), Iraq
	IX.1917		IX.1917
	P. A. Buxton, Lieutenant, R.A.M.C.		P. A. Buxton, Lieutenant, R.A.M.C.
	Rec'd. 14.I.1918. Det'd. by C.W.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3243	N	3243
		RML	112220
	<u>Amblyomma mantiquirense</u> 3 ♂, 2 ♀		3 ♂, 2 ♀ <u>Amblyomma naponense</u>
	<u>Dicotyles labiatus</u> (wild hog)		<u>Tayassu pecari</u>
	Tkuraka Lake, Ttiribiacci Creek, Essequibo, British Guiana		Tkuraka Lake, Ttiribiacci Creek ^k , Essequibo (05.24 N, 58.33 W), Guyana
	G. E. Bodkin (from I. B.E. VI.1918. No. 1043)		G. E. Bodkin (from I. B.E. VI.1918. (No. 1043)
	C.W. det.		
N	3244	N	3244
		RML	112221
	<u>Argas persicus</u>		9 ♂, 2 ♀, 12 N <u>Argas arboreus</u>
	Queenstown, C.P., S. Africa		Queenstown (31.54 S, 26.53 E), Republic of South Africa
	3.XI.1917		3.XI.1917
	Chas. K. Brain, M. Sc., M.A., Dept. of Agr., Pretoria		Chas. K. Brain, M. Sc., M.A., Dept. of Agr., Pretoria
	G.H.F.N. det.		These specimens have more compact ridges, more numerous mamillae, and are consistantly longer and wider than <u>A. arboreus</u> - Tentative ID.
N	3245 - 3254 OMITTED CATALOGUE NUMBERS	N	3245 - 3254 OMITTED CATALOGUE NUMBERS

ORIGINAL DETERMINATIONCURRENT STATUS

N	3255	N	3255
		RML	112222
	<u>Boophilus australis</u>		2 ♀ <u>Boophilus decoloratus</u>
	"Cattle & dogs"		"Cattle & dogs"
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	1917		1917
	E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia		E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia
	C.W. det.		
N	3256	N	3256
		RML	112223
	<u>Ixodes pilosus</u>		2 ♂, 2 ♀ <u>Ixodes cavipalpus</u>
	"Cattle & dogs"		"Cattle & dogs"
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	1917		1917
	E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia		E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia
	C.W. det.		1 ♂ had its mouthparts embedded in the dorsum of an engorged ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3257	N	3257 MISSING
	<u>Haemaphysalis leachi</u>		
	"Cattle & Dogs"		
	Broken Hill, N. Rhodesia		
	1917		
	E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia		
	C.W. det.		
	2 ♀ to Prof. D'Arcy Thompson XI.1931.		
N	3258	N	3258
		RML	112224
	<u>Rhipicephalus sanguineus</u>		7 ♀ <u>Rhipicephalus sanguineus</u>
	"Cattle & dogs"		"Cattle & dogs"
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	1917		1917
	E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia.		E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia.
N	3259	N	3259
		RML	112225
	<u>Rhipicephalus simus</u>		1 ♂, 2 ♀ <u>Rhipicephalus simus</u> 1 ♀ <u>Rhipicephalus punctatus</u>
	"Cattle & Dogs"		"Cattle & Dogs"
	Broken Hill, N. Rhodesia		Kabwe (14.27 S, 28.27 E), Zambia
	1917		1917
	E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia		E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia
	C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3260	N	3260 MISSING
	<u>Ornithodoros moubata</u> ??		
	"Cattle & dogs"		
	Broken Hill, N. Rhodesia		
	1917		
	E. A. Copeman, District Commissioner, Broken Hill, N. Rhodesia		
	C. W. Det.		
N	3261, a-c	N	3261, a-c
	(3261) <u>Amblyomma lepidum</u> ♂'s, ♀'s	RML	66673
	(a) <u>Boophilus australis</u> 2 ♀		(3261) 8 ♂, 2 ♀ <u>Amblyomma lepidum</u>
	(b) <u>Rhipicephalus pulchellus</u> 2 ♂, 3 ♀		(a) 2 ♀ <u>Boophilus microplus</u>
	(c) <u>Rhipicephalus neavei</u> 1 ♀		(b) 2 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	Zanzibar		(c) 1 ♀ <u>Rhipicephalus pravus</u>
	1.V.1917		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	W. Mansfield Aders, Econ. Entomologist, Med. Dept., Publ. Health Division, Biol. Section, Zanzibar (He wrote 13.V.1918).		1.V.1917
	C.W. det.		W. Mansfield Aders
			(3261) cited: Robinson (1926: 97).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3262	N	3262
		RML	105678
	<u>Rhipicephalus sanguineus</u>		126 ♂, 77 ♀ <u>Rhipicephalus sanguineus</u> 1 ♂ <u>Haemaphysalis parvata</u>
	Dogs		Dogs
	Zanzibar		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	9.VI.1916		9.VI.1916
	W. Mansfield Aders		W. Mansfield Aders
	C.W. det.		
N	3263, a, b	N	3263, a, b
		RML	112226
	(3263) <u>Amblyomma gemma</u> ♂'s, ♀'s, N (a) <u>Boophilus australis</u> 10 ♀ (b) <u>Amblyomma variegatum</u> ♂'s, ♀'s		(3263) 15 ♂ <u>Amblyomma gemma</u> (a) 10 ♀ <u>Boophilus microplus</u> (b) 2 ♂, 2 ♀ <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Zanzibar (Mr. Kunduchi)		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	29.IV.1918		29.IV.1918
	W. Mansfield Aders		W. Mansfield Aders
	L. E. Robinson det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3267	N	3267
		RML	112229
	<u>Rhipicephalus maculatus</u> 1 ♂		1 ♂ <u>Rhipicephalus humeralis</u>
	Ox		Ox
	Zanzibar Town		Zanzibar City (06.10 S, 39.11 E), Zanzibar Island, Tanzania
	2.IV.1912		2.IV.1912
	W. Mansfield Aders		W. Mansfield Aders
	C.W. det.		
	3267 Note " <u>maculatus</u> of sorts with rather a distinct variation of pattern" C.W.		
N	3268	N	3268
		RML	112230
	<u>Rhipicephalus kochi</u> 4 ♂		4 ♂ <u>Rhipicephalus kochi</u>
	Leopard		<u>Panthera pardus</u>
	Zanzibar		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	15.III.1918		15.III.1918
	W. Mansfield Aders		W. Mansfield Aders
	C.W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3271	N	3271
		RML	105784
	<u>Aponomma laeve</u> (?)		6 ♂, 2 ♀, 1 N <u>Aponomma latum</u> 1 ♀ <u>Haemaphysalis parvata</u>
	<u>Naia naia</u>		<u>Naja naja</u>
	Zanzibar		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	13.V.1918		13.V.1918
	W. Mansfield Aders		W. Mansfield Aders
	C.W. det.		
N	3272, a-c	N	3272, a-c
		RML	112233
	(3272) <u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		(3272) 42 ♂, 2 ♀ <u>Rhipicephalus pulchellus</u>
	(a) <u>Hyalomma aegyptium</u> ♂'s, ♀'s		(a) 8 ♂, 3 ♀ <u>Hyalomma dromedarii</u>
	(b) <u>Amblyomma lepidum</u> 4 ♂		(a) 5 ♂, 2 ♀ <u>Hyalomma rufipes</u>
	(c) <u>Rhipicephalus maculatus</u>		(b) 4 ♂ <u>Amblyomma lepidum</u>
	Camels (imported)		(c) 4 ♂ <u>Rhipicephalus humeralis</u>
	Zanzibar		<u>Camelus dromedarius</u>
	1.V.1918		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	W. Mansfield Aders		1.V.1918
	C.W. det.		W. Mansfield Aders
	3272c "like 3267 ? n. sp."		(3272b) cited: Robinson (1926: 97)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3276, a	N	3276a
		RML	112235
	(3276) <u>Rhipicephalus appendiculatus</u> ♀'s, N's		(3276) MISSING
	(a) <u>Boophilus australis</u> 3 ♀		(a) 3 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Zanzibar		Zanzibar Island (06.10 S, 39.20 E), Tanzania
	22.IV.1911		22.IV.1911
	W. Mansfield Aders		W. Mansfield Aders
	C.W. det.		
N	3277	N	3277
		RML	112236
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		8 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Hedgehog sp.		Hedgehog
	Amara, Mesopotamia		Al Amarah (31.50 N, 47.09 E), Iraq
	7.III.1918		7.III.1918
	P. A. Buxton, Capt. R.A.M.C.		P. A. Buxton, Capt. R.A.M.C
	C.W. det.		
N	3278	N	3278
		RML	112237
	<u>Hyalomma aegyptium</u> N's, ♂'s, ♀		1 ♂, 2 ♀, 6 N <u>Hyalomma marginatum</u>
	Hare		Hare
	Kumait, R. Tigris, 32°N		Al Kumayt (32.02 N, 46.52 E), Iraq
	XI.1917		XI.1917
	P. A. Buxton, Capt. R.A.M.C.		P. A. Buxton, Capt. R.A.M.C.
	C.W. & N. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3279	N	3279
		RML	112238
	<u>Hyalomma aegyptium</u> N's		7 N <u>Hyalomma</u> sp.
	Hare		Hare
	Amara, Mesopotamia		A1 Amarah (31.50 N, 47.09 E), Iraq
	28.XII.1917		28.XII.1917
	P. A. Buxton, Capt. R.A.M.C.		P. A. Buxton, Capt. R.A.M.C.
	C.W. & N. det.		
N	3280	N	3280
		RML	112239
	<u>Hyalomma aegyptium</u> N's		9 N <u>Hyalomma</u> sp.
	Hare		Hare
	Amara, Mesopotamia		A1 Amarah (31.50 N, 47.09 E), Iraq
	1.II.1918		1.II.1918
	P. A. Buxton, Capt.R.A.M.C. No. 144		P. A. Buxton, Capt. R.A.M.C.
	C.W. & N. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3281	N	3281
		RML	112240
	<u>Hyalomma ? syriacum</u> N's (<u>not aegyptium</u>)		1 N <u>Hyalomma</u> sp.
	Magpie		<u>Pica pica</u>
	R. Vardar near Karasouli, Salonika		Vardar River (40.35 N, 22.50 E), Greece
	10.VIII.1917		10.VIII.1917
	Lt. J. Waterston, R.A.M.C. (B.E. Force)		Lt. J. Waterston, R.A.M.C. (B.E. Force)
	C.W. det. 1918.		Rev. James Waterston (1879-1930) born in Paisly, Scotland, educated at Edinburgh University. He was a minister in the Shetland Islands where he became an authority on British Mallophaga. In 1914 he joined the staff of the Imperial Bureau of Entomology. In May 1917 he received a temporary commission in the R.A.M.C. as entomologist to the Malaria Commission in Macedonia.
N	3282	N	3282
		RML	112241
	<u>Hyalomma ? syriacum</u> N (<u>not aegyptium</u>)		2 N <u>Hyalomma</u> sp.
	Little owl		<u>Athene noctua</u>
	Kalamaria, Salonika		Kalamaria (40.35 N, 22.58 E), Macedonia, Greece
	14.VIII.1917		14.VIII.1917
	Lt. J. Waterston, R.A.M.C. (B.E. Force)		Lt. J. Waterston, R.A.M.C. (B.E. Force)
	C.W. det. 1918.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3283	N	3283
	<u>Hyalomma ? syriacum</u> L	RML	112242
	Jackdaw		1 N, 1 L <u>Hyalomma</u> sp.
	T.E.F. Mikra, Salonica		<u>Corvus monadula</u>
	15-22.VII.1917		T.E.F. Mikra, Salonica, Greece (locality not verified)
	Lt. J. Waterston, R.A.M.C. (B.E. Force)		15.22.VII.1917
	C.W. det. 1918.		Lt. J. Waterston, R.A.M.C. (B.E. Force)
N	3284	N	3284
	<u>Hyalomma ? syriacum</u> N's, L (not <u>aegyptium</u>)	RML	112243
	Magpie		2 N, 1 L <u>Hyalomma</u> sp.
	Vardar River, Gumendze Bridge, Salonika		<u>Pica pica</u>
	26.VII.1917		Gumendze Bridge, Vardar River (40.35 N, 22.50 E), Greece
	Lt. J. Waterston, R.A.M.C. (B.E. Force)		26.VII.1917
	C.W. det. 1918.		Lt. J. Waterston, R.A.M.C. (B.E. Force)
N	3285	N	3285
	<u>Hyalomma ? syriacum</u> N's (not <u>aegyptium</u>)	RML	112244
	Partridge		1 N <u>Hyalomma</u> sp.
	Near Lohana, Salonika		1 N <u>Haemaphysalis</u> sp.
	3.IX.1917		Partridge
	Lt. J. Waterston, R.A.M.C. (B.E. Force)		Near Laxhanas (40.58 N, 23.12 E), Macedonia, Greece
	C.W. det. 1918.		3.IX.1917
			Lt. J. Waterston, R.A.M.C. (B.E. Force)

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3286</p> <p><u>Haemaphysalis cinnabarina</u> N's</p> <p>Partridge</p> <p>Near Lehana, Salonica</p> <p>3.IX.1917</p> <p>Lt. J. Waterston, R.A.M.C. (B.E. Force)</p> <p>C.W. det. 1918.</p>	<p>N 3286</p> <p>RML 112245</p> <p>2 N <u>Haemaphysalis</u> sp.</p> <p>Partridge</p> <p>Near Lakhana (40.58 N, 23.12 E), Macedonia, Greece</p> <p>3.IX.1917</p> <p>Lt. J. Waterston, R.A.M.C. (B.E. Force)</p>
<p>N 3287</p> <p><u>Ixodes brunneus</u> N</p> <p>Chaffinch</p> <p>Oneovica, Salonika</p> <p>30.X.1917</p> <p>Lt. J. Waterston, R.A.M.C. (B.E. Force)</p> <p>C.W. det. 1918.</p> <p>Returned</p>	<p>N 3287 MISSING</p>
<p>N 3288</p> <p><u>Argas vespertilionis</u> l.</p> <p><u>Desmodus rufus</u></p> <p>Lima, Peru</p> <p>Rec'd. by me 11.IV.1916</p> <p>Dr. Ramon E. Ribeyro (see address at No. 3238)</p> <p>C.W. det. 1917.</p>	<p>N 3288</p> <p>RML 112246</p> <p>5 L <u>Ornithodoros</u> sp.</p> <p><u>Desmodus rotundus</u></p> <p>Lima (12.03 S, 77.03 W), Peru</p> <p>Rec'd. by me 11.IV.1916</p> <p>(Dr. Ramon E. Ribeyro (see address at No. 3238)</p>

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3289</p> <p><u>Boophilus australis</u> ♀</p> <p>Cow</p> <p>Lima, Peru</p> <p>Rec'd. by me 11.IV.1916</p> <p>Dr. Ramon E. Ribeyro (see address at No. 3238)</p> <p>C.W. det. 1917.</p>	<p>N 3289</p> <p>RML 112247</p> <p>1 ♂, 9 ♀ <u>Boophilus annulatus</u></p> <p>Cow</p> <p>Lima (12.03 S, 77.03 W), Peru</p> <p>Rec'd. by me 11.IV.1916</p> <p>Dr. Ramon E. Ribeyro (see address at No. 3238)</p>
<p>N 3290</p> <p><u>Ornithodoros megnini</u> N's, ♂'s, ♀'s</p> <p>Dog (ears)</p> <p>Huancayo, Peru</p> <p>Rec'd. by me 11.IV.1916</p> <p>Dr. Ramon E. Ribeyro (see address at No. 3238)</p> <p>C.W. det. 1917.</p> <p>Given to D.S. MacLagan 14/10/38.</p>	<p>N 3290 MISSING</p>
<p>N 3291</p> <p><u>Boophilus</u> sp. ♀'s</p> <p>Belgian Congo, Labelled "Stipley"</p> <p>Rec'd. 27.VII.1915</p> <p>W. F. Cooper (sent by L. M. Long from Tshinsinda for W.F.C. to me)</p> <p>C.W. det.</p> <p>[Thrown away]</p>	<p>N 3291 MISSING</p>

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3292	N	3292 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		
	Belgian Congo, labelled "Stipley"		
	Rec'd. 27.VII.1915		
	W. F. Cooper (sent by L. M. Long, from Tshinsinda, for W.F.C. to me)		
	C.W. det.		
	[Thrown away]		
N	3293	N	3293
		RML	112248
	<u>Rhipicephalus neavei</u> var. <u>punctatus</u> 2 ♂, 3 ♀ (very typical)		2 ♂, 3 ♀ <u>Rhipicephalus pravus</u>
	Belgian Congo, labelled "Stipley"		Zaire
	Rec'd. 27.VII.1915		Rec'd. 27.VII.1915
	W. F. Cooper (sent by L. M. Long, from Tshinsinda for W.F.C. to me)		W. F. Cooper (sent by L. M. Long, from Tshinsinda for W.F.C. to me)
	C.W. det.		
N	3294	N	3294
		RML	112249
	<u>Boophilus australis</u> ♂'s, ♀'s, N's		5 ♂, 19 ♀, 1 N <u>Boophilus microplus</u>
	Cow		Cow
	Queensland, Australia		Queensland, Australia
	12.IV.1913		12.IV.1913
	Munroe Hull		Munroe Hull
	C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3295	N	3295
		RML	112250
	<u>Boophilus australis</u> 2 ♂, 2 young ♀, N's		3 ♂, 3 ♀, 17 N <u>Boophilus microplus</u>
	Cow		Cow
	Queensland, Australia		Queensland, Australia
	12.IV.1913		12.IV.1913
	Munroe Hull		Munroe Hull
	C.W. det.		
N	3296	N	3296
		RML	112251
	<u>Boophilus australis</u> 2 ♀		2 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	Queensland, Australia		Queensland, Australia
	8.IV.1913		8.IV.1913
	Munroe Hull		Munroe Hull
	C.W. det.		

Collection of ticks from German East Africa, posted to me on 31.VIII.1918 by Lt-Col. H. B. Newham, R.A.M.C. (of Lond. School of Trop. Med.) from c/o D.D.M.S., E. Africa Exped. Force who wrote of the tubes: "The history of them will interest you. In going over a lot of old things stowed away in the German Laboratory here we came across this box with your name on, so they had evidently been collected for you & probably the outbreak of war had prevented them being sent. I spoke to the D.D.M.S. here (Col. Tate) & he agreed with me that they ought to be sent to you so here you are." I am sure the ticks were collected for me by Dr. Kudicke of the Institut für Senchenbekämpfung, Daressalam, G.E.A. who had previously sent specimens.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3297	N	3297
		RML	112252
	<u>Rhipicephalus evertsi</u> ♂, ♀		16 ♂, 11 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Kondoa - Irangi		Kondoa (04.54 S, 35.47 E), Dodoma Region, Tanzania
	5.X.1913		5.X.1913
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		This collection also contained 1 ♂, 1 N <u>Haematopinus quadripertusus</u> (Insecta: Anoplura) Det. Dr. K.C. Kim.
N	3298	N	3298
		RML	112253
	<u>Ornithodoros moubata</u>		1 ♂, 1 ♀, 2 N <u>Ornithodoros moubata</u>
	Jumbe Makwayila		Jumbe Makwayila, Tanzania (locality not verified)
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		These specimens are <u>Ornithodoros porcinus porcinus</u> according to Walton (1962: 126).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3299

Ornithodoros moubata

Jumbe Sawanga

Dr. Kudicke

C. Warburton det.

N 3299

RML 112254

3 ♂, 1 ♀, 11 N Ornithodoros moubataJumbe Sawanga, Tanzania
(locality not verified)

Dr. Kudicke

These specimens are Ornithodoros
porcinus porcinus according to
Walton (1962: 126).

N 3300

Ornithodoros moubata

Kajanja

Dr. Kudicke

C. Warburton det.

N 3300

RML 112255

5 N Ornithodoros moubataKajanja, Tanzania
(locality not verified)

Dr. Kudicke

These specimens are Ornithodoros
porcinus porcinus according to
Walton (1962: 126).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3301, a-d

N 3301, a-d

RML 112256

(3301) Haemaphysalis leachi
 (a) Rhipicephalus simus
 (b) Rhipicephalus sanguineus
 (c) Amblyomma tholloni
 (d) Rhipicephalus kochi (small)

(3301) 7 ♂, 1 ♀ Haemaphysalis leachi
 (a) 11 ♂, 2 ♀ Rhipicephalus simus
 (b) 6 ♂, 1 ♀ Rhipicephalus sanguineus
 (c) 8 ♂, 7 ♀ Amblyomma tholloni
 (d) 2 ♂, 2 ♀ Rhipicephalus punctatus

2 leopards

Panthera pardus (2)

Lindi District

Lindi District (10.00 S, 39.44 E),
Mtwara Region, Tanzania

1913

1913

Dr. Kudicke

Dr. Kudicke

C. Warburton det.

Tentative ID on ♀ of Rhipicephalus
sanguineus

(3301c) cited: Robinson (1926: 253).

3301 H. leachi to:

1 ♂, 1 ♀ to Prof. Sadeo Yoshida at Cambridge 21.XII.1920.

1 ♂, 1 ♀ to P. A. Buxton at Cambridge 10.II.1921.

1 ♂, 1 ♀ to Prof. Dr. D. A. deYong at Cambridge 8.IV.1921.

1 ♂, 1 ♀ to Prof. G. Hedger-Wallace, Univ. Wales, Cardiff 1921.

1 ♂, 1 ♀ to S. H. Dankes, Wellcome Bureau, London 9.I.1924.

1 ♂, 1 ♀ to Dr. E. Roubaud, Inst. Pasteur, Paris 12.X.1922.

1 ♂, 1 ♀ to Prof. J. Hjort, Univ. Christiana, Norway 12.X.1922

1 ♂, 1 ♀ to Dr. A. Watkins Pitchford, Army Vet. Sch., Thornhill, Aldershot
12.X.1922.

1 ♂, 1 ♀ to L.P.W. Renouf, Biol. Dept., Univ. Coll., Cork, Ireland 12.X.1922.

1 ♂, 1 ♀ to W. A. Pool, Indian Civil Vet. Dept. 12.X.1922.

1 ♂, 1 ♀ to Dr. Wm. Parry Morgan, Publ. Hlth, Lab, Cardiff, Wales 12.X.1922.

1 ♂, 1 ♀ to J.E.M. Mellor, Malvern College, Malvern 16.X.1922.

1 ♂, 1 ♀ to Prof. A. Bettencourt, Inst. Camara Pestana, Lisbon 7.XI.1922.

1 ♂, 1 ♀ to Prof. E. Brumpt, L'École de Médecine, Paris, 12.X.1922.

1 ♂, 1 ♀ to I. C. Ross, Univ. of Sydney, Australia.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3302	N	3302
		RML	112257
	<u>Rhipicephalus simus</u>		11 ♂, 22 ♀ <u>Rhipicephalus simus</u>
	Lion		<u>Panthera leo</u>
	Lake Nyasa		Lake Nyasa (12.00 S, 34.30 E), Tanzania
	1913		1913
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		
N	3303, a	N	3303a
		RML	112258
	(3303) <u>Amblyomma variegatum</u> ♂, ♀		(3303) MISSING
	(a) <u>Boophilus australis</u>		(a) 12 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Daressalam		Daressalaam (06.48 S, 39.17 E), Coast Region, Tanzania
	1912		1912
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		
N	3304	N	3304
		RML	112259
	<u>Boophilus australis</u>		2 ♂, 62 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Ssongea		Ssongea (10.41 S, 35.39 E), Ruvuma Region, Tanzania
	1913		1913
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3305	N	3305
		RML	112260
	<u>Rhipicephalus evertsi</u>		13 ♂, 2 ♀ <u>Rhipicephalus evertsi</u>
	Goat		Goat
	Kondoa - Irangi		Kondoa (04.54 S, 35.47 E), Dodoma Region, Tanzania
	5.X.1913		5.X.1913
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		
N	3306	N	3306
		RML	112261
	<u>Rhipicephalus sanguineus</u> 2 ♂		2 ♂ <u>Rhipicephalus sanguineus</u>
	Dog (with piroplasmosis)		Dog
	Kondoa - Irangi		Kondoa (04.54 S, 35.47 E), Dodoma Region, Tanzania
	IX.1913		IX.1913
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		
N	3307	N	3307
		RML	112262
	<u>Rhipicephalus evertsi</u>		16 ♂, 4 ♀ <u>Rhipicephalus evertsi</u>
	Sheep		Sheep
	Kondoa - Irangi		Kondoa (04.54 S, 35.47 E), Dodoma Region, Tanzania
	5.X.1913		5.X.1913
	Dr. Kudicke		Dr. Kudicke
	C. Warburton det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3308, a

N 3308, a

RML 112263

(3308) Haemaphysalis leachi
(a) Rhipicephalus sanguineus(3308) 11 ♂, 2 ♀ Haemaphysalis leachi
(a) 4 ♂, 2 ♀ Rhipicephalus sanguineus

Wild dog

Lycæon pictus

Lindi

Lindi (10.00 S, 39.43 E),
Mtwara Region, Tanzania

18.X.1913

18.X.1913

Dr. Kudicke

Dr. Kudicke

C. Warburton det.

ORIGINAL DETERMINATION

N 3309

Ixodes vespertilionis L, N
Rhinolophys ferrum-equinum
 Zaragoza, Spain

Sent alive on 25.III.1919

Prof. Jesus Maynar, Faculty of
 Sci. at Z. Sent by M. Longin
 Navas, S.J.

Determined by G.H.F. Nuttall.

N 3310

Dermacentor variabilis 1 ♂, 1 ♀
 Long-tailed wild cat
 Monterey, California

6.VIII.1895

Sent by Prof. Vernon Kellogg
 ex his No. 266

C.W. det.

CURRENT STATUS

N 3309

RML 112264

2 N, 2 L Ixodes vespertilionis
Rhinolophus ferrumequinum
 Zaragoza (41.38 N, 00.53 W), Spain

Sent alive on 25.III.1919

Prof. Jesus Maynar, Faculty of
 Sci. at Z. Sent by M. Longin
 Navas, S.J.

N 3310

RML 112265

1 ♂, 1 ♀ Dermacentor variabilis
Felis concolor
 Monterey (36.37 N, 121.55 W),
 California, U.S.A.

6.VIII.1895

Sent by Prof. Vernon Kellogg
 ex his No. 266

Spiracular plate dissected from
 one side of both ♂ & ♀.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3311	N	3311
		RML	112266
	<u>Dermacentor albipictus</u> 2 ♂, 4 ♀		2 ♂, 4 ♀ <u>Dermacentor albipictus</u>
	Horse		Horse
	Menlo Park, California		Menlo Park (37.28 N, 122.13 W), California, U.S.A.
	VI.1892		VI.1892
	Sent by Prof. Vernon Kellogg ex his No. 271		Sent by Prof. Vernon Kellogg ex his No. 271
	C.W. det.		
<p>Ticks collected by Dr. W. B. Johnson on his travels in Nigeria & sent to me 8.I.1917 from "Scotch Cottage, Hanworth, Norfolk." He also sent insects, but desired none returned:-</p>			
N	3312, a	N	3312, a
		RML	112267
	(3312) <u>Hyalomma aegyptium</u> (a) <u>Rhipicephalus falcatus</u>		(3312) 6 ♂, 2 ♀ <u>Hyalomma truncatum</u> (a) 11 ♂, 1 ♀ <u>Rhipicephalus senegalensis</u>
	Roan antelope		<u>Hippotragus equinus</u>
	Zungeru, Nigeria		Zungeru (09.48 N, 06.09 E), Nigeria
	17.X.1915		17.X.1915
	Dr. W. B. Johnson (His No. 1)		Dr. W. B. Johnson (His No. 1)
	C. Warburton det. 1917.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3313	N	3313
	<u>Rhipicephalus simus</u> 2 ♂	RML	112268
	The collector		2 ♂ <u>Rhipicephalus muhsamae</u>
	Zungeru, Nigeria		<u>Homo sapiens</u>
	14.XI.1915		Zungeru (09.48 N, 06.09 E), Nigeria
	Dr. W. B. Johnson (His No. 5)		14.XI.1915
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 5)
N	3314	N	3314
	<u>Rhipicephalus sanguineus</u> 1 ♂, 1 N	RML	112269
	Hare		1 ♂, 1 N <u>Rhipicephalus sanguineus</u>
	Zungeru, Nigeria		<u>Lepus</u> sp.
	7.XII.1915		Zungeru (09.48 N, 06.09 E), Nigeria
	Dr. W. B. Johnson (his No. 9)		7.XII.1915
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 9)
N	3315	N	3315
	<u>Aponomma laeve</u> ♂'s	RML	112270
	Snake No. 34		6 ♂, 1 N <u>Aponomma latum</u>
	Zungeru, Nigeria		Snake
	30.III.1916		Zungeru (09.48 N, 06.09 E), Nigeria
	Dr. W. B. Johnson (His No. 35)		30.III.1916
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 35)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3316	N	3316
	<u>Rhipicephalus simus</u>	RML	112271
	Wart-hog		8 ♂, 11 ♀ <u>Rhipicephalus longus</u> 1 ♂ <u>Rhipicephalus cuspidatus</u>
	Zungeru, Nigeria		<u>Phacochoerus aethiopicus</u>
	2.IV.1916		Zungeru (09.48 N, 06.09 E), Nigeria
	Dr. W. B. Johnson (His No. 40)		2.IV.1916
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 40)
N	3317	N	3317
	<u>Aponomma exornatum</u>	RML	112272
	Monitor		17 ♂, 2 ♀, 3 N <u>Aponomma flavomaculatum</u>
	Zungeru, Nigeria		<u>Varanus</u> sp.
	3.IV.1916		Zungeru (09.48 N, 06.09 E), Nigeria
	Dr. W. B. Johnson (His No. 41)		3.IV.1916
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 41)
			Vial label locality spelled Zungaru.
N	3318, a	N	3318, a
	(3318) <u>Hyalomma aegyptium</u>	RML	112273
	(a) <u>Rhipicephalus simus</u>		(3318) 18 ♂, 28 ♀ <u>Hyalomma truncatum</u> (a) 35 ♂, 27 ♀ <u>Rhipicephalus muhsamae</u> (a) 1 ♂, 3 ♀ <u>Rhipicephalus cuspidatus</u>
	8 wart-hogs		8 <u>Phacochoerus aethiopicus</u>
	Katagum, Nigeria		Katagum (12.17 N, 10.21 E), Nigeria
	V-X.1916		V-X.1916
	Dr. W. B. Johnson (His No. 45)		Dr. W. B. Johnson (His No. 45).
	C. Warburton det. 1917.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3319	N	3319
	<u>Hyalomma aegyptium</u>	RML	112274
	5 Roan antelope		77 ♂, 15 ♀ <u>Hyalomma truncatum</u>
	Katagum, Nigeria		5 <u>Hippotragus equinus</u>
	V-VII.1916		Katagum (12.17 N, 10.21 E), Nigeria
	Dr. W. B. Johnson (His No. 46)		V-VII.1916
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 46).
N	3320, a-c	N	3320 a-c
	(3320) <u>Rhipicephalus simus</u>	RML	112275
	(a) <u>Rhipicephalus sanguineus</u>		(3320) MISSING
	(b) <u>Hyalomma aegyptium</u>		(a) 49 ♂, 42 ♀, 4 N <u>Rhipicephalus sanguineus</u>
	(c) <u>Haemaphysalis leachi</u>		(b) 5 ♂, 4 ♀ <u>Hyalomma truncatum</u>
	"Dog & hares & collector"		(c) 3 ♂, 6 ♀ <u>Haemaphysalis leachi</u>
	Katagum, Nigeria		Dog & <u>Lepus</u> sp. & <u>Homo sapiens</u>
	X-XI.1916		Katagum (12.17 N, 10.21 E), Nigeria
	Dr. W. B. Johnson (His No. 60)		X-XI.1916
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 60).
N	3321, a	N	3321, a
	(3321) <u>Rhipicephalus sanguineus</u>	RML	112276
	(a) <u>Amblyomma</u> sp. N's		(3321) 41 ♂, 19 ♀ <u>Rhipicephalus sanguineus</u>
	4 Hares		(a) 7 N <u>Hyalomma</u> sp.
	Katagum, Nigeria		4 <u>Lepus</u> sp.
	VI-VII.1916		Katagum (12.17 N, 10.21 E), Nigeria
	Dr. W. B. Johnson (His No. 62)		VI-VII.1916
	C. Warburton det. 1917.		Dr. W. B. Johnson (His No. 62).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3322	N	3322
		RML	112277
	<u>Rhipicephalus sanguineus</u> 5 ♂		5 ♂ <u>Rhipicephalus sanguineus</u>
	2 Senegal gazelle & 2 Duiker buck & <u>Echestypus sepiaceus</u>		2 Senegal gazelle & 2 Duiker buck
	Katagum, Nigeria		Katagum (12.17 N, 10.21 E), Nigeria
	V-VII.1916		V-VII.1916
	Dr. W. B. Johnson (His No. 64)		Dr. W. B. Johnson (His No. 64)
	C. Warburton det. 1917.		<u>Echestypus sepiaceus</u> is now <u>Lipoptena sepiacea</u> (Insecta:Hippoboscidae).
N	3323	N	3323
		RML	112278
	<u>Rhipicephalus simus</u> 2 ♂, 5 ♀		5 ♀ <u>Rhipicephalus muhsamae</u>
	Jackal		Probably <u>Canis adustus</u>
	Katagum, Nigeria		Katagum (12.17 N, 10.21 E), Nigeria
	30.VI.1916		30.VI.1916
	Dr. W. B. Johnson (His No. 66)		Dr. W. B. Johnson (His No. 66).
	C. Warburton det. 1917.		
N	3324	N	3324
		RML	112279
	<u>Rhipicephalus sanguineus</u> ♂, ♀		10 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Zungaru, Nigeria		Zungeru (09.48 N, 06.09 E), Nigeria
	I-IV.1916		I-IV.1916
	Dr. W. B. Johnson (His No. 67)		Dr. W. B. Johnson (His No. 67).
	C. Warburton det. 1917.		

ORIGINAL DETERMINATION

N 3325, a
 (3325) Rhipicephalus simus ♂, ♀
 (a) Haemaphysalis leachi 1 ♀
 Hyena
 Katagum, Nigeria
 28.X.1916
 Dr. W. B. Johnson (His No. 74)
 C. Warburton det. 1917.

N 3326
Amblyomma integrum 2 ♂
 Pig
 Ceylon
 29.III.1915
 Indian Mus. $\frac{GMH}{1}$ (2 returned)
 C. Warburton det. 1917.

CURRENT STATUS

N 3325, a
 RML 112280
 (3325) 31 ♂, 5 ♀ Rhipicephalus muhsamae
 (a) 1 ♀ Haemaphysalis leachi
Crocuta crocuta
 Katagum (12.17 N, 10.21 E), Nigeria
 28.X.1916
 Dr. W. B. Johnson (His No. 74).

N 3326
 RML 112281
 1 ♂ Amblyomma integrum
Sus scrofa
 Sri Lanka
 29.III.1915
 Cited: Robinson (1926: 114).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3327	N	3327
		RML	112282
	<u>Amblyomma helvolum</u> 2 ♀		2 ♀ <u>Amblyomma helvolum</u>
	<u>Coluber decoratus</u>		<u>Dendrelaphis pictus</u>
	Singora, Siam		Probably Singgora now Songkhla (07.12 N, 100.36 E), Thailand
	27.I.1916		27.I.1916
	N. Annandale		N. Annandale
	Ind. Mus. $\frac{2388}{17}$ (2 returned)		Cited: Sharif (1928:326).
	C. Warburton det. 1917. L.E.R. det. 1926.		
N	3328	N	3328
		RML	112283
	<u>Dermacentor variabilis</u> 1 ♂		1 ♂ <u>Dermacentor variabilis</u>
	Fox		<u>Vulpes fulva</u> or <u>Urocyon</u> <u>cinereoargenteus</u>
	Palo Alto, California		Palo Alto (37.27 N, 122.09 W), California, U.S.A.
	V.1895		V.1895
	Sent for det. by Prof. V. Kellogg		Sent for det. by Prof. V. Kellogg.
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3329	N	3329
		RML	112284
	<u>Derma-centor auratus</u> ♂'s, ♀'s		5 ♂, 2 ♀ <u>Derma-centor</u> sp.
	Malay bear		<u>Helarctos malayanus</u>
	Kuala Lumpur, F. Malay States		Kuala Lumpur (03.10 N, 101.42 E), Malaysia
	III.1915		III.1915
	? C. Strickland		? C. Strickland
	C. W. det.		
N	3330	N	3330
		RML	112285
	<u>Derma-centor auratus</u> 1 ♀		1 ♀ <u>Derma-centor</u> sp.
	No particular		No particular
	Gift of Hon. N.C. Rothschild "R. 243"		Gift of Hon. N.C. Rothschild "R. 243"
	C. W. det.		
N	3331	N	3331
		RML	112286
	<u>Haemaphysalis montgomeryi</u> 2 ♂		2 ♂ <u>Haemaphysalis montgomeryi</u>
	Hill goat		Goat, hill
	Rawalpindi		Rawalpindi (33.36 N, 73.04 E), Pakistan
	V.H. Woodley, Supt. C.V.O.		V.H. Woodley, Supt. C.V.O.
	Rec'd. from Mr. F. M. Howlett "6"		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3332	N	3332
		RML	112287
	<u>Boophilus australis</u>		9 ♂, 134 ♀, 10 N <u>Boophilus geigy</u>
	Cattle		Cattle
	Kamabai, Sierra Leone, W. Africa		Kamabai (09.09 N, 11.58 W), Northern Province, Sierra Leone
	14.XII.1913		14.XII.1913
	Dr. J. Y. Wood		Dr. J. Y. Wood.
	C. W. det.		
N	3333	N	3333
		RML	22289
	<u>Ixodes ornithorhynchi</u> ♀, N's		1 ♀, 11 N <u>Ixodes ornithorhynchi</u>
	Platypus		<u>Ornithorhynchus anatinus</u>
	W. Australia		Western Australia, Australia
	12.VII.1911		12.VII.1911
	From G. Sweet "No. 763"		From G. Sweet "No. 763".
	G.H.F.N. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3334	N	3334
	<u>Haemaphysalis bispinosa</u> var. <u>intermedia</u>	RML	71471
	Pittapur, E. India		10 ♂, 21 ♀ <u>Haemaphysalis intermedia</u>
	3.VII.1906		Pittapur, E. India (locality not verified)
	"J. R. $\frac{87}{IV}$ "		3.VII.1906
	C. W. det.		"J. R. $\frac{87}{IV}$ "
			Cited: Hoogstraal & Trapido (1963: 838).
			There are an additional 3 ♂, 4 ♀ of this collection in the R.M.L. collection (RML 27165).
N	3335	N	3335
	<u>Ornithodoros piriformis</u> 5 CO-TYPES	RML	112288
	Mahabaleshwar, Satara Distr., ca. 4200 ft. (ex Robber Cave)		1 ♂, 3 ♀ <u>Ornithodoros piriformis</u> Lectotype and paralectotypes
	13-16.IV.1912		Robbers Cave, Mahabaleshwar (17.55 N, 73.40 E), Maharashtra, India (ca 1280 m)
	"F.H.G."		13-16.IV.1912
	Ind. Mus. $\frac{SPA}{10}$		"F.H.G." [F.H. Gravely]
	C.W. det.		Warburton (1918: 285) original description. Lectotype designated: Keirans & Brewster (1981: 154).
			Label in vial with data "Hypostome, palp & leg I on slide." Slide missing.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3336

Aponomma laeve var. paradoxum ♂, ♀

Naia tripudians

Bangalore, India

18.VII.1917

Dr. H. H. Marshall "8"

C. W. det.

N 3336

RML 112289

1 ♂, 2 ♀ Aponomma pattoni

Naja naja

Bangalore (12.59 N, 77.35 E), India

18.VII.1917

Dr. H. H. Marshall "8".

N 3337

Aponomma laeve 3 ♂

Naia tripudians

Rangoon, Burma

16.I.1916

Dr. H. H. Marshall "11"

C. W. det.

N 3337

RML 112290

2 ♂ Aponomma pattoni

Naja naja

Rangoon (16.47 N, 96.10 E), Burma

16.I.1916

Dr. H. H. Marshall "11".

ORIGINAL DETERMINATIONCURRENT STATUS

N 3338, a, b

(3338) Amblyomma testudinarium
2 ♂, 3 ♀(a) Haemaphysalis leachi 1 ♀(b) Haemaphysalis kinneari 1 ♀Felis tigris

Pugyi, Burma

10.VI.1918

Mr. Christopher "R. 22"

N & C.W. det.

N 3338, a, b

RML 87364

(3338) 2 ♂, 3 ♀ Amblyomma
testudinarium(3338) 1 ♂ Haemaphysalis japonica(a) 1 ♀ Haemaphysalis sp.(b) 1 ♀ Haemaphysalis kinneariPanthera tigris

Pugyi (17.15 N, 96.01 E), Burma

10.VI.1918

Mr. Christopher "R. 22"

(3338) cited: Robinson (1926: 257).

Ticks sent by Dr. de Greef, méd cin vétérinaire dans le Haut Ituri, ca. 50 miles W. of Lake Edward, Belgian Congo, Central Africa. Communicated by M. Smeyers (of the Belgian Agric. Dept., residing pro tem in Cambridge).

N 3339

Amblyomma variegatum ♂, ♀

Cattle

Dolo, Lower Congo

1916

R. van Saceghem

C.W. det.

N 3339 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	3340	N	3340 MISSING
	<u>Amblyomma variegatum</u> (1 queer)		
	Cattle		
	Haut-Ituri, near Lake Edward, Belgian Congo		
	1916		
	Dr. de Greef		
	C. W. det.		
N	3341	N	3341 MISSING
	<u>Amblyomma variegatum</u>		
	Cattle		
	Haut-Ituri, near Lake Edward, Belgian Congo		
	1916		
	Dr. de Greef		
	C. W. det.		
N	3342	N	3342
	<u>Boophilus decoloratus</u>	RML	112291
	Cattle		2 ♀ <u>Boophilus decoloratus</u>
	Zambi, Lower Congo		Cattle
	12.II.1916		Zambi, Zaire (locality not verified; 4 possible localities)
	R. van Saceghem		12.II.1916
	C. W. det.		R. van Saceghem.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3343	N	3343
		RML	112292
	<u>Rhipicephalus evertsi</u> var. with banded legs		4 ♂, 4 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Zambi, Lower Congo		Zambi, Zaire (locality not verified; 4 possible localities)
	12.II.1916		12.II.1916
	R. van Saceghem		R. van Saceghem.
	C. W. det.		
N	3344	N	3344
		RML	112293
	<u>Rhipicephalus appendiculatus</u> 4 ♀ small not typical		4 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Zambi, Lower Congo		Zambi, Zaire (locality not verified; 4 possible localities)
	12.II.1916		12.II.1916
	R. van Saceghem		R. van Saceghem.
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3345	N	3345
		RML	112294
	<u>Rhipicephalus duttoni</u> with others ranging to <u>appendiculatus</u> (d. a variant of <u>a.</u> ?)		4 ♂, 1 N <u>Rhipicephalus duttoni</u>
	Cattle		Cattle
	Haut-Ituri nr. Lake Edward, Belgian Congo		Ituri (01.51 N, 29.58 E), Zaire
	1916		1916
	Dr. de Greef		Dr. de Greef
	C. W. det.		Nymph tentatively this species. Cited: Santos Dias (1958: 474).
N	3346	N	3346
		RML	112295
	<u>Aponomma gervaisi</u> var. <u>lucasi</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Aponomma varanensis</u>
	<u>Varanus nebulosus</u>		<u>Varanus bengalensis</u>
	Ko Yaw near Singora Taté Sap, Siam		Ko Yaw near Songkhla (07.12 N, 100.36 E), Thailand
	2.I.1916		2.I.1916
	N. Annandale		N. Annandale
	Ind. Mus. $\frac{2401}{17}$ (rest returned)		
	C. W. det.		

ORIGINAL DETERMINATION

N 3347

Hyalomma aegyptium 10 ♂, 7 ♀Hemitragus hilocrius (Ogilby) the Nilgiri wild goat

Parambikulan, Cochin State (1700-3200 ft.)

16.24.IX.1914

F. H. Graveley

Ind. Mus. $\frac{2173}{17}$ the bulk returned

Also a deformed ♀ separately bottled

C. W. & N. det.

No.3347 described by L. E. Robinson in Parasitology XII (1920)

N.B. The ♀'s normal, the ♂'s aberrant; with anal plates broad behind, accessory anal plates laterally placed, no posterior "points" (so typical of the species), but otherwise indistinguishable from the Indian H. aegyptium.CURRENT STATUS

N 3347

RML 112296

10 ♂, 7 ♀ Hyalomma kumariHemitragus hyllocrius

Parambikulam (10.23 N, 76.49 E), India (518-975m)

16.24.IX.1914

F. H. Graveley

1 ♀ of the above total in a jar marked "Tick Abnormalities"

Figured: Robinson (1920: 178).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3348	N	3348
		RML	66611
	<u>Hyalomma aegyptium</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Hyalomma hussaini</u>
	Buffalo		Buffalo
	Bangalore		Bangalore (12.59 N, 77.35 E), India
	5.V.1913		5.V.1913
	W. Baillie. Rec'd from Dr. H. H. Marshall, 8 Voyle Road, Rangoon, Burma		W. Baillie. Rec'd from Dr. H. H. Marshall, 8 Voyle Road, Rangoon, Burma
	C. W. & N. det. N.B. The ♀'s normal, the ♂'s aberrant; with anal plates broad behind, accessory anal plates laterally placed, no posterior "points" (so typical of the species), but otherwise indistinguishable from the Indian <u>H. aegyptium</u> .		
	Picked out of many typical ♂'s & ♀'s that were returned to Dr. Marshall 5.V.1916. See Report book p. 183.		
N	3349	N	3349
		RML	112297
	<u>Ornithodoros talaje</u> 14 spec's (rec'd. alive)		1 N <u>Ornithodoros</u> sp.
	Jamaica		Jamaica
	Rec'd IX.1916		Rec'd IX.1916
	Anderson		Anderson
	C. W. & N. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3350	N	3350
		RML	112298
	<u>Haemaphysalis</u> sp. ♀		1 ♀ <u>Haemaphysalis</u> sp.
	N. Auckland, N. Zealand		Auckland (36.52 S, 174.46 E), New Zealand
	IV.1917		IV.1917
	C.S.M. Hopkirk		C.S.M. Hopkirk
	G.H.F.N. det.		
	Said to be <u>punctata</u> . Rec'd. in bad condition treated with caustic & no capitulum found, scutum & coxae as in <u>punctata</u> .		
N	3351	N	3351 MISSING
	<u>Amblyomma</u> <u>varium</u> ♀		
	<u>Bradypus</u> <u>tridactylus</u> (Sloth)		
	No record of locality		
	Gift of Hon. N. C. Rothschild years ago		
	L. E. Robinson det. 26.III.1919		
	3 slides, scutum, legs, spiracle.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3352	N	3352
	<u>Rhipicephalus maculatus</u> 6 ♂ atypical	RML	112299
	No record of locality		5 ♂ <u>Rhipicephalus humeralis</u>
	Gift 15.IV.1919		Africa
	Gift of I.B.E. "498"		Gift 15.IV.1919
	C. W. det.		Gift of I.B.E. "498".
	Reports 23 & 68 to Bureau		
	Note: ornamentation limited to front of scutum.		
N	3353	N	3353 MISSING
	<u>Ixodes ricinus</u> 1 ♀		
	Horse (from neck)		
	Ty Gwyn, a farm 5 miles from Machynlleth, Montgomeryshire, Wales (a mountain sheep farm)		
	2.VII.1919		
	C. L. Walton (now at Fisheries Lab. University, Liverpool)		
	G.H.F.N. det.		
N	3354	N	3354 MISSING
	<u>Dermacentor reticulatus</u> var. <u>niveus</u> 2 ♂, 2 ♀		
	G.H.F.N. det.		
	Rec'd. alive		
	On 1 slide dry.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3355

N 3355

RML 107233

Ornithodoros talaje 1 ♂, 2 N1 ♂, 2 N Ornithodoros coniceps

Pigeon (in lab'y.)

Columba livia

France

France

1916

1916

E. Brumpt, Paris

E. Brumpt, Paris

C. W. det.

Note to 3355: 1 ♂ & 2 N picked from a lot totalling 3 ♂ 1 ♀ 7 N sent 16.VI.1916 to me by Dr. E. Brumpt of Paris, then with the army at Héricourt, Haute Saonne, France. He is studying their biology & finds:
Larvae gorge in 4-8 days on pigeon, placed at 25°C. they moult to nymphs in 5-6 days.
Nymphs (1st st.) refuse to feed, and whilst fasting moult after some days. The subsequent developpt. to adults is normal, takes some months. Brumpt asks if we still consider O. coniceps only a var. of talaje.
 C.W. remarks (Vii.19) coniceps & capensis are light racial varieties of O. talaje, all 3 are essentially alike.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3356

N 3356

RML 112300

Amblyomma tuberculatum 2 ♂, 4 ♀, 1 N
(preserved dry)2 ♂, 4 ♀ Amblyomma tuberculatum
(dry)Gopherus polyphemusGopherus polyphemus

Washington County, Alabama, U.S.A.

Washington County (31.28 N, 88.16 W),
Alabama, U.S.A.

Posted 18.VII.1919

Posted 18.VII.1919

C. A. Cary, State Veterinarian
Livestock Sanitary Dept. of
Alabama, Auburn, Ala., U.S.A.C. A. Cary, State Veterinarian
Livestock Sanitary Dept. of
Alabama, Auburn, Ala., U.S.A.

L. E. Robinson det. 3.VIII.1919

Cited & figured: Robinson (1926:
175-177)."Land turtle commonly called 'gopher'
[ticks] attached to legs, head, neck
& soft part of body" many ticks
present.An additional 1 ♂, 1 ♀ (pinned)
are in the BMNH collection.Note N3356. Rec'd in box with
wool, 1 ♀ feebly alive, had
oviposited on journey. Shall try
to hatch eggs (This failed, G.H.F.N.
23.X.1919).Rec'd. ackn'd. & Report sent 6.VIII.
1919.Mr. Cary wrote 24.VIII.1919 giving
scientific name of host & stating
that it "is rather common on the
pine barrens & high lands in the
Southern States. It is quite a
large turtle & is often eaten by
natives..."

ORIGINAL DETERMINATIONCURRENT STATUS

N	3357	N	3357
		RML	112301
	<u>Ornithodoros marocanus</u> ♂'s, ♀'s, N's		4 ♂, 1 ♀, 5 N <u>Ornithodoros erraticus</u>
	Bit pigs at night		<u>Sus scrofa</u>
	Collected in the Casba, Casablanca, Morocco (in chinks of walls)		Casablanca (33.37 N, 07.35 W), Morocco
	1.XII.1918		1.XII.1918
	H. Velu, Major de 2 ^e Classe, Chef du Laboratoire de Recherches du Service de l'Élevage, Casablanca, Morocco (Service Zootechnique et des Epizootics)		H. Velu
	Velu det., who presented them (at my request) 4.X.1919		
	(a) pickled when dead (badly preserved)		
	(b) ♂'s killed in hot 70% alcohol		
	(c) ♀'s killed in hot 70% alcohol		
	Note: N3357. Very closely allied to <u>O. talaje</u> , some seen to have moveable "cheeks" at capitulum sides, the cheeks as though fragmented C.W. & G.H.F.N.		
N	3358	N	3358 MISSING
	<u>Aponomma gervaisi</u> ♂'s		
	<u>Varanus bengalensis</u> (on piece of skin)		
	Madras, India		
	1916		
	Dr. Sheriffs (Gift of Prof. White, Dept. of Zool, Univ. of Wales, Bangor, 7.I.1920 per C. L. Walton).		
	C. W. det. 4.XII.1919.		

3359-61. Sent by Mr. Buxton from Fairhill, Tonbridge, in 3 tubes, rec'd.
22.XII.1919:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	3359	N	3359
		RML	112302
	<u>Hyalomma ? syriacum</u> N's		9 N <u>Hyalomma</u> sp.
	<u>Hypocolius ampelinus</u>		<u>Hypocolius ampelinus</u>
	Amara, Mesopotamia		A1 Amarah (31.50 N, 47.09 E), Iraq
	24.VI.1918		24.VI.1918
	P. A. Buxton		P. A. Buxton
	C. W. det. 27.I.1920.		
N	3360	N	3360
		RML	112303
	<u>Rhipicephalus sanguineus</u> ♂		1 ♂ <u>Rhipicephalus sanguineus</u>
	<u>Felis chaus</u> ?		<u>Felis chaus</u> ?
	Amara Mesopotamia		A1 Amarah (31.50 N, 47.09 E), Iraq
	2.XII.1917		2.XII.1917
	P. A. Buxton		P. A. Buxton
	C. W. det. 27.I.1920.		
N	3361	N	3361
		RML	112304
	<u>Ixodes tenuirostris</u> ♀		1 ♀ <u>Ixodes alluaudi</u>
	<u>Crocidura</u> sp. (shrew)		<u>Crocidura</u> sp.
	Umkomoas, Natal		Umkomaas (30.12 S, 30.48 E), Republic of South Africa
	16.VII.1917		16.VII.1917
	P. A. Buxton		P. A. Buxton
	C. W. det. 27.I.1920.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3362	N	3362
	<u>Boophilus australis</u> 1 ♂ ♀'s gorged & ung.	RML	112305
	Cattle		11 ♀ <u>Boophilus microplus</u>
	Torilla Plains, Queensland, Australia		Cattle
	15.V.1911		Probably vicinity of Torilla hill (22.23 S, 150.03 E), Queensland, Australia
	C. A. Rogers		15.V.1911
	C. W. det. 27.I.1920		C. A. Rogers
	Note: From the collection of F.S.W. Raikes, a Cambridge student killed in the war. Sent by his mother to Dr. A. E. Shipley, F.R.S. ca. 1917, who passed them onto me with other specimens 24 Jan. 1920. Raikes was a student at Trinity Coll. Camb., he took up Geology after showing promise at Zoology. A notebook that accompanied the specimens bore the date 1913.		
	G.H.F.N. 28.I.1920		
N	3363	N	3363
	<u>Hyalomma syriacum</u> 2 ♂'s	RML	112306
	Tortoise		2 ♂ <u>Hyalomma aegyptium</u>
	Spagge-Brandon, Suffolk, England		Tortoise
	27.III.1911		Spagge-Brandon (52.22 N, 01.24 W) Suffolk, England
	F.S.W. Raikes		27.III.1911
	C. W. Det. 27.I.1920.		F.S.W. Raikes

ORIGINAL DETERMINATIONCURRENT STATUS

N	3364	N	3364
		RML	112307
	<u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s		7 ♂, 4 L <u>Aponomma pattoni</u>
	<u>Zaocys mucosus</u> (snake)		<u>Ptyas mucosus</u>
	Bangalor, India		Bangalor (12.59 N, 77.35 E), India
	1920		1920
	Lt. Col. F. Wall, I.M.S.		Lt. Col. F. Wall, I.M.S.
	C. W. det. 5.II.1920.		Cited: Wall (1921: 186)
N	3365	N	3365
		RML	112308
	<u>Aponomma laeve</u> var. <u>paradoxum</u> N		1 N <u>Aponomma</u> sp.
	<u>Coluber helena</u> (snake)		<u>Elaphe helena</u>
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	1920		1920
	Lt. Col. F. Wall, I.M.S.		Lt. Col. F. Wall, I.M.S.
	C. W. det. 5.II.1920		
N	3366	N	3366
		RML	112309
	<u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s, N, L's		5 ♂, 3 N, 4 L <u>Aponomma pattoni</u>
	<u>Naia tripudians</u> (snake)		<u>Naja naja</u>
	Bangalore, India		Bangalore (12.59 N, 77.35 E), India
	1920		1920
	Lt. Col. F. Wall, I.M.S.		Lt. Col. F. Wall, I.M.S.
	C. W. det. 5.II.1920.		

3367-3369a rec'd. 3.III.1920 from L. C. Heath, Esq., Namwala District. "All collected within 100 miles of Mumbwa-on the banks of the Kafue." Letter destroyed, dat. 20.I.1920. His address: see N 3029:-

ORIGINAL DETERMINATIONCURRENT STATUS

N	3367	N	3367 MISSING
	<u>Amblyomma variegatum</u> ♂'s		
	Reed-buck		
	Namwala Distr. North Rhodesia		
	XII.1919		
	L. C. Heath		
	C. Warburton det. 5.III.1920.		
N	3368	N	3368
		RML	112310
	<u>Rhipicephalus tricuspis</u> 6 ♂, 3 ♀		6 ♂, 3 ♀ <u>Rhipicephalus tricuspis</u>
	Spring hare		<u>Pedetes capensis</u>
	Namwala Distr., North Rhodesia		Namwala District (16.00 S, 26.15 E), Zambia
	1919		1919
	L. C. Heath		L. C. Heath
	C. Warburton det. 5.III.1920.		
N	3369, a	N	3369a
		RML	112311
	(3369) <u>Amblyomma variegatum</u> ♂, ♀		(3369) MISSING
	(a) <u>Boophilus australis</u> 1 ♀		(a) 1 ♀ <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Namwala Distr. North Rhodesia		Namwala District (16.00 S, 26.15 E), Zambia
	I.1920		I.1920
	L. C. Heath		L. C. Heath
	C. Warburton det. 5.III.1920.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3370

Hyalomma scupense 2 ♂, 2 ♀

Cattle

Usküb, Macedonia

II.1918

Determined by Dr. P. Schulze,
 Berlin Zool. Inst.
 Invalidenstr. 43, Berlin N.4.
 or Schillingstr. 80,
 Charlottenburg

Wrote & thanked 7.V.1920.

N 3370

RML 112312

2 ♂, 2 ♀ Hyalomma detritum
 SYNTYPES of H. scupense

Cattle

Skopje (42,00 N, 21.29 E),
 Macedonia, Yugoslavia

II.1918

Schulze (1918: 62) original
 description of H. scupense

Note in vial "vulva on slide"

Prof. Dr. Leopold Ernst Paul
 Schulze (30.XI.1887 - 13.V.1949)
 well known authority on ticks.
 For an obituary see Hase (1950).

N 3371

Dermacentor reticulatus 26 ♂♂, 3 ♀♀,
 17 LL (unfed) with pinned specimens

Dog (experimentally raised)

Parasitol. Lab. Paris

Sent on 31.XII.1919

Prof. E. Brumpt

Determined by E. Brumpt & confirmed
 by C.W. & G.H.F.N. on our spec's.

Note to No. 3371. These caused
 piroplasmosis in Brumpt's dog No. 62
 (see his papers in Bull. Soc. Path.
 Exot.) The few larvae gummed on
 card by me here had issued from eggs
 laid by 2 ♀♀ en route. A fine series
 of ♂♂, graded sizes.

N 3371

RML 112313

23 ♂, 2 ♀, 16 L Dermacentor
reticulatus

Dog

Paris (48.52 N, 02.20 E), France

Sent on 31.XII.1919

Prof. E. Brumpt

Pinned specimens.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3372

N 3372 MISSING

Ornithodoros rostratus
4 adults with pinned spec's.

Raised in Paris through several generations

Originally from Matto Grosso, Brazil

Sent on 8.III.1920

Prof. E. Brumpt

Determined by Brumpt & confirmed by C.W. & G.H.F.N. on our spec's.

Note to N. 3372. Rec'd. dead & dry. Compared with N 1895 rec'd. from Aragão.

N 3373

N 3373

RML 22292

Haemaphysalis bancrofti

3 ♀ Haemaphysalis bancrofti

Wallaby (near vent)

Wallaby

Queensland

Queensland, Australia

VII.1919

VII.1919

Dr. J. F. Illingworth

Dr. J. F. Illingworth

C. W. det. ex I.B.E. No. 1107.

Six slides of dissections; 2 each of ♀ hypostome, legs I & IV, and spiracular plate.

3374-3385 From collection sent us for determination by the Musée du Congo Belge, Section des Sci. Nat. Tervuren, Belgium. Posted on 22.IV.1920 (Dr. H. Schouteden).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3374	N	3374
		RML	112314
	<u>Aponomma laeve</u> 5 ♂		5 ♂ <u>Aponomma latum</u>
	Snake (n. 535)		Snake (n. 535)
	Bufwasenda		Bafwasende (01.05 N, 27.16 E), Haut-Congo, Zaire
	4.IX.1912		4.IX.1912
	Dr. Christy		Dr. Christy
	L.E.R. det. ex No. 7. Coll. No. 7.		
N	3375	N	3375
		RML	112315
	<u>Rhipicephalus simpsoni</u> 2 ♂'s, ♀		2 ♂, 1 ♀ <u>Rhipicephalus simpsoni</u>
	<u>Aulacodus swinderianus</u> (Rodent)		<u>Thryonomys swinderianus</u>
	Congo du Lemba		Congo du Lemba, Zaire (locality not verified)
	10.II.1914		10.II.1914
	R. Mayne'		R. Mayne'
	C. W. det. Coll. No. 11a.		Cited: Santos Dias (1958: 477) who stated that these specimens were "wrongly considered as types." [?]

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3376	N	3376
	<u>Amblyomma splendidum</u> 2 ♂	RML	112316
	Udder of Buffalo		2 ♂ <u>Amblyomma splendidum</u>
	Lukula		<u>Syncerus caffer</u>
	VIII.1911		Either Lukula (05.23 S, 12.57 E) or (06.09 S, 26.41 E), Zaire
	Daniel		VIII.1911
	L.E.R. det. Coll. No. 14.		Daniel
N	3377	N	3377
	<u>Ixodes cavipalpus</u> ♀	RML	112317
	Kapiri		1 ♀ <u>Ixodes cavipalpus</u>
	1912		Either Kapiri (09.42 S, 27.13 E) or (10.18 S, 26.10 E), Nord-Katanga, Zaire
	Agric. Meiss.		1912
	C. W. Det. Coll. No. 29.		Agric. Meiss.
N	3378	N	3378
	<u>Ixodes cavipalpus</u> 2 ♀'s	RML	112318
	<u>Cephalophus</u> sp.		2 ♀ <u>Ixodes cavipalpus</u>
	Katanga		<u>Cephalophus</u> sp.
	XI.1912		Katanga, Zaire (locality not verified; 16 possible localities)
	Legros		XI.1912
	C. W. det. Coll. No. 30.		Legros

ORIGINAL DETERMINATIONCURRENT STATUS

N	3379	N	3379
	<u>Amblyomma cuneatum</u> 4 ♂'s, 4 ♀'s, 2 N's (n. 132)	RML	112319
	Pangolin		4 ♂, 4 ♀, 2 N <u>Amblyomma compressum</u>
	Avakubi		<u>Manis</u> sp.
	28.IX.1912		Avakubi (01.19 N, 27.33 E), Haut-Congo, Zaire
	Dr. Christy		28.IX.1912
	L.E.R. det. Coll. No. 32.		Dr. Christy
			Cited: Robinson (1926: 143).
N	3379X	N	3379X
	See abnormalities	RML	112320
			1 ♀ <u>Boophilus decoloratus</u>
			Either Banana (01.22 N, 28.52 E), or (06.01 S, 12.24 E), Zaire
			11.I.1910
			Dr. Etienne
			This specimen is in a jar marked "Tick Abnormalities".
N	3380	N	3380
	<u>Aponomma exornatum</u>	RML	112321
	Oshwe		5 ♂ <u>Aponomma exornatum</u>
	fin de XII.1913		Either Oshwe (02.45 S, 18.59 E) or (03.24 S, 19.30 E), Mai-Ndombe, Zaire
	Dr. J. Naes		End of.XII.1913
	L.E.R. det. Coll. No. 33.		Dr. J. Naes

ORIGINAL DETERMINATIONCURRENT STATUS

N	3381	N	3381
		RML	99177
	<u>Amblyomma tholloni</u> ♂'s, ♀'s		8 ♂, 5 ♀ <u>Amblyomma tholloni</u>
	Region des Lacs		Region des Lacs, Zaire (locality not verified)
	Dr. Sagona		Dr. Sagona
	L.E.R. det. Coll. No. 53a.		Cited & figured: Robinson (1926: 250, 251, 252); Hoogstraal (1956a: 258). An additional 1 ♂, 1 ♀ from this lot are in the collection of Dr. Harry Hoogstraal, NAMRU-3, Cairo, Egypt.
N	3382	N	3382
		RML	112322
	<u>Amblyomma cohaerens</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Amblyomma cohaerens</u>
	Region des Lacs		Region des Lacs, Zaire (locality not verified)
	Dr. Sagona		Dr. Sagona
	L.E.R. det. Coll. No. 53b.		
N	3383	N	3383
		RML	112323
	<u>Dermacentor circumguttatus</u> ♂'s, ♀'s		2 ♂, 2 ♀ <u>Dermacentor circumguttatus</u>
	Region des Lacs		Region des Lacs, Zaire (locality not verified)
	Dr. Sagona		Dr. Sagona
	C. W. det. Coll. No. 53c.		The above total includes 1 ♀ mounted on a slide with 1 ♂ from N1902.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3384	N	3384
	<u>Amblyomma tholloni</u> ♂'s, ♀'s	RML	112324
	Region des Lacs		4 ♂, 7 ♀ <u>Amblyomma tholloni</u>
	Dr. Sagona		Region des Lacs, Zaire (locality not verified)
	L.E.R. det. Coll. No. 54.		Dr. Sagona
			Cited: Robinson (1926: 252).
N	3385	N	3385 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		
	Prov. Elisabethville, Belgian Congo		
	12.XI.1911		
	Valdonis		
	L.E.R. det. Coll. No. 61.		
N	3386	N	3386
	<u>Haemaphysalis hystricis</u> 1 ♂, 1 ♀	RML	112325
	Pashok, Darjiling district		1 ♂, 1 ♀ <u>Haemaphysalis hystricis</u>
	E. Himalayas, 2500 ft.		Pashok (27.04 N, 88.23 E), Darjeeling District, India (762 m)
	L. C. Hartless		L. C. Hartless
	C. W. det. 27.V.1920		Cited: Hoogstraal et al (1965c: 476) with the collecting locality spelled Pashol.
	Ind. Mus. No. $\frac{2439}{17}$		
	(2 ♂, 1 ♀ ret'd.)		
	3386-33. Pickings from collection of Indian Museum, Calcutta, posted to me by Dr. N. Annandale 17.V.1919. G.H.F.N.		

ORIGINAL DETERMINATION

N 3387

Rhipicephalus haemaphysaloides 1 ♂

Pashok, Darjeeling district,
E. Himalayas, 2500 ft.

L. C. Hartless

C. W. det. 27.V.1920

Ind. Mus. No. $\frac{2439}{17}$ ^a
(1 ♂ returned).

N 3388

Haemaphysalis birmaniae 13 ♂, 6 ♀

Nemorhaedus bubalinus Hodg. (Bovidae)

Pashok, Darjiling district,
E. Himalayas, at 1800 ft.

L. C. Hartless

C. W. det. 27.V.1920

Ind. Mus. No. $\frac{2441}{17}$
(25 ♂, 6 ♀ returned)

N. B. ♀ new to science.

CURRENT STATUS

N 3387

RML 112326

1 ♂ Rhipicephalus haemaphysaloides

Pashok (27.04 N, 88.23 E), Darjeeling
District, India (762 m).

L. C. Hartless

N 3388

RML 70139

11 ♂, 4 ♀ Haemaphysalis darjeeling
Including 1 ♂ Holotype, 1 ♀
Allotype and 10 ♂, 3 ♀ paratypes

Capricornis sumatraensis

Pashok (27.04 N, 88.23 E), Darjeeling
District, India (626 m).

L. C. Hartless

An additional 2 ♂, 2 ♀ paratypes
are in the collection of Dr. H.
Hoogstraal, NAMRU-3, Cairo, Egypt

Hoogstraal & Dhanda (1970: 169)
original description.

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3389</p> <p><u>Aponomma gervaisi</u> var. <u>lucasi</u> 5 ♂, 1 ♀, 4 N</p> <p><u>varanus nebulosus</u></p> <p>Calcutta</p> <p>3.VII.1916</p> <p>C. W. det. 27.V.1920</p> <p>Ind. Mus. No. $\frac{2430}{17}$ (many returned).</p>	<p>N 3389</p> <p>RML 112327</p> <p>5 ♂, 1 ♀, 3 N <u>Aponomma varanensis</u></p> <p><u>Varanus bengalensis</u></p> <p>Calcutta (22.32 N, 88.22 E), India</p> <p>3.VII.1916</p> <p>Cited: Sharif (1928: 338).</p>
<p>N 3390</p> <p><u>Dermacentor auratus</u> 1 ♂</p> <p>Upper Burma</p> <p>1916</p> <p>W. G. Rogers</p> <p>C. W. det. 27.V.1920</p> <p>Ind. Mus. No. $\frac{2435}{17}$ (1 ♂ returned)</p> <p>Specimen missing L.E.R. 5.VIII.1928.</p>	<p>N 3390</p> <p>RML 112328</p> <p>1 ♂ <u>Dermacentor</u> sp.</p> <p>Burma</p> <p>1916</p> <p>W. G. Rogers</p> <p>Cited: Sharif (1928: 292).</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	3391	N	3391
		RML	112329
	<u>Amblyomma supinoi</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Amblyomma supinoi</u>
	<u>Testudo elongata</u>		<u>Testudo elongata</u>
	Baradighi, Jalpaiguri district, Bengal		Baradighi (26.48 N, 88.44 E), India
	VIII.1916		VIII.1916
	W. L. Travers		W. L. Travers
	L.E.R. det. 29.V.1920		Cited: Sharif (1928: 325).
	Ind. Mus. No. $\frac{2424}{17}$		
	(Many ret'd.).		
N	3392	N	3392
		RML	22317
	<u>Amblyomma supinoi</u> 2 ♂, 1 N		2 ♂, 1 N <u>Amblyomma supinoi</u>
	<u>Testudo elongata</u>		<u>Testudo elongata</u>
	Baradighi, Jalpaiguri district, Bengal		Baradighi (26.48 N, 88.44 E), India
	VII.1916		VII.1916
	W. L. Travers		W. L. Travers
	L.E.R. det. 29.V.1920		Cited & figured: Robinson (1926: 184, 186); Sharif (1928: 325).
	Ind. Mus. No. $\frac{2431}{17}$		
	(1 ♀ & ♂'s ret'd.).		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3393

Haemaphysalis cinnabarina
var. punctata 1 ♂

Free (sheep about)

On Downs, Eastbourne, England

1.VI.1920

F. V. Rigal

G.H.F.N. det. 3.VI.1920.

N 3393

RML 112330

1 ♂ Haemaphysalis punctata

Free (sheep about)

On Downs, Eastbourne (50.48 N,
00.15 E), England

1.VI.1920

F. V. Rigal

N 3394

Ixodes anatis (?) ♂Apteryx KiwiFar North of New Zealand: Mt. Ratea,
North Hokianga, near Broadwood
village, North Auckland, N.Z.

I.1920

Sent by G. Harris (a farmer) to
Prof. Charles Chilton, who gave it
to us. 18.IX.1920

C. W. & G.H.F.N. det.

N. B. Probably the unknown ♂ of
I. anatis (= I. eudyptidis
Maskell ? type lost?).

N 3394

RML 112331

1 ♂ Ixodes anatisApteryx australis mantelliNear Broadwood (35.16 S, 173.23 E),
Hokianga County, New Zealand

I.1920

Sent by G. Harris (a farmer) to
Prof. Charles Chilton, who gave it
to us. 18.IX.1920.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3395

Haemaphysalis bispinosa 2 ♀

Cattle

N. Island, New Zealand

I.1920

Sent by G. Harris, a farmer,
to Prof. Chas. ChiltonNote by C.W. A large variant,
larger than type & with more
punctate scutum; similar to
Japanese form.Note by C.C. This "tick is giving
the farmers a lot of trouble just
now" writes the farmer to C.C.

N 3395

RML 112332

2 ♀ Haemaphysalis longicornis

Cattle

North Island, New Zealand

I.1920

Sent by G. Harris, a farmer,
to Prof. Chas. Chilton

N 3396

Ixodes ricinus 1 1Lacerta sp. attached in axilla

Marburg A/L. Germany

Sent 19.VIII.1920

Sent by Dr. Maynar, S. J.
Affällersstr. 3, Marburg A/L. Germany

G.H.F.N. det. 9.IX.1920.

N 3396

RML 112333

1 L Ixodes ricinusLacerta sp.Marburg (50.49 N, 08.46 E),
Federal Republic of Germany

Sent 19.VIII.1920

Sent by Dr. Maynar, S.J.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3397	N	3397	MISSING
	<u>Argas persicus</u>			
	Kazvin, N.W. Persia			
	VII.1919			
	P.A. Buxton.			
N	3398	N	3398	
		RML	112334	
	<u>Boophilus australis</u> 4 ♂'s (typic.), but ♂'s have no caudal appendage		4 ♂ <u>Boophilus microplus</u>	
	Cattle		Cattle	
	Remuna Horona		Remuna (06.41 N, 80.04 E), Sri Lanka	
	4.VII.1920		4.VII.1920	
	Mr. J. C. Hutson, Govt. Entomologist Ceylon, India. Gift of Imperial Bureau of Entomology, London		Mr. J. C. Hutson.	
	C. W. det. X.1920.			
N	3399	N	3399	
		RML	112335	
	<u>Amblyomma cyprium</u> 1 ♀		1 ♀ <u>Amblyomma cyprium</u>	
	<u>Cyclemis flav.</u>		<u>Geoemyda flavomarginata</u>	
	Kankan, Formosa		Kankan, Taiwan (locality not verified)	
	VII.1908		VII.1908	
	H. Sauter Ns. No. 157		H. Sauter Ns. No. 157	
	Berlin Mus. No. 672/1911		Cited & figured: Robinson (1926: 236).	
	L.E.R. det. XII.1920.			

ORIGINAL DETERMINATION

N 3400

Amblyomma triguttatum 1 ♂, 4 ♀'s

Kangaroo

Herberton Dist. Hinterland
von Colans Silver Valley,
North Queensland

Dr. Edlinger S.G. Ns, No. 272

Berlin Mus. No. 364/1913

L.E.R. det. XII.1920.

CURRENT STATUS

N 3400

RML 22319

1 ♂, 4 ♀ Amblyomma triguttatum

Kangaroo

Herberton (17.24 S, 145.23 E),
Queensland, Australia

Dr. Eddinger, S.G.

Robinson (1926: 57) incorrectly
gave this collection Berlin Museum
Number 364/1903 and Nuttall
number 272.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3401	N	3401
		RML	112338
	<u>Amblyomma cuneatum</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Amblyomma compressum</u>
	<u>Schuppentier</u> ?		<u>Manis</u> sp.
	Lolodorf, Kamerun		Lolodorf (03.14 N, 10.44 E), Cameroon
	29.III.1907		29.III.1907
	Lt. Jacob		Lt. Jacob
	Prof. Ziemann, G., Ns No. 89 Berlin Mus. No. 1600/07		Cited: Robinson (1926: 143).
	L.E.R. det. XII.1920.		
N	3402	N	3402
		RML	112339
	<u>Argas vespertilionis</u>		1 ♂ <u>Argas vespertilionis</u>
	Off collector's leg		<u>Homo sapiens</u>
	Amara on Tigris		A1 Amarah (31.50 N, 47.09 E), Iraq
	VII.1918		VII.1918
	W. E. Evans, Esq. (late Capt., R.A.M.C.) 38 Morningside Park, Edinburgh, Scotland.		W. E. Evans
	C. W. det. I.1921.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3403

Amblyomma variegatum ♂

Nyasaland

20.X.1919

Dr. W. A. Lambourn

"This tick placed in a box with Aucheromyia larvae promptly impaled one on its proboscis. Larva showed blood in its interior."

Gift of I.B.E. ex tube No. 1134

C. W. det. X.1920.

N 3403 MISSING

N 3404

Amblyomma ovale 2 ♂'sEars of Galictis vittataJoinville, Humboldt Prov.,
Sta. Catharina, Brazil

22.XI.1915

W. Ehrhardt

L.E.R. det.

N 3404

RML 112340

2 ♂ Amblyomma ovaleEars of Galictis vittataJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

22.XI.1915

W. Ehrhardt

Cited: Robinson (1926: 29).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3405	N	3405
	<u>Amblyomma ovale</u> 2 ♂'s	RML	112341
	<u>Nasus familiaris</u> ? <u>Canis familiaris</u> or <u>Nasua socialis</u>		2 ♂ <u>Amblyomma ovale</u>
	Humboldt Joinville, Sta. Catharina, Brazil		<u>Nasua nasua</u> or <u>Canis familiaris</u>
	5.VIII.1918		Joinville (26.18 S, 48.50 W), Humboldt, Estado de Santa Catharina, Brazil
	W. Ehrhardt		5.VIII.1918
	L.E.R. det.		W. Ehrhardt
			Cited: Robinson (1926: 29).
N	3406, a	N	3406
	(3406) <u>Rhipicephalus</u> 2 N	RML	112342
	(a) <u>Hyalomma</u> L's		(3406) 2 N <u>Rhipicephalus</u> sp. (3406) 1 N, 3 L <u>Haemaphysalis</u> sp. (a) MISSING
	Fieldmouse		<u>Mus musculus</u>
	Tagbha, Tiberias, Palestine		En Sheva (32.52 N, 35.32 E), Israel
	10.IX.1919		10.IX.1919
	P. E. Schmitz		P. E. Schmitz
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3407

Ixodes loricatus ♀Didelphys cancrivoraJoinville, Humboldt, Prov. Sta.
Catharina, Brazil

10.XII.1915

W. Ehrhardt

C. W. det.

N 3407

RML 112343

1 ♀ Ixodes loricatusDidelphis marsupialisJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

10.XII.1915

W. Ehrhardt

N 3408

Ixodes loricatus ♀Didelphys auritaJoinville, Humboldt, Prov. Sta.
Catharina, Brazil

16.XII.1915

W. Ehrhardt

C. W. det.

N 3408

RML 112344

1 ♀ Ixodes loricatusDidelphis marsupialis auritaJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

16.XII.1915

W. Ehrhardt

ORIGINAL DETERMINATIONCURRENT STATUS

N 3409

Amblyomma longirostre NRamphastos discolorsJoinville, Humboldt, Prov. Sta.
Catharina, Brazil

18.X.1915

W. Ehrhardt

L.E.R. det.

N 3409

RML 112345

2 N Amblyomma longirostreRamphastos dicolorusJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

18.X.1915

W. Ehrhardt

N 3410

Amblyomma longirostre 2 N'sRamphastos discolorsJoinville, Humboldt, Prov. Sta.
Catharina, Brazil

4.VIII.1916

W. Ehrhardt

L.E.R. det.

N 3410

RML 112346

2 N Amblyomma longirostreRamphastos dicolorusJoinville (26.18 S, 48.50 W),
Humboldt, Estado de Santa
Catharina, Brazil

4.VIII.1916

W. Ehrhardt

ORIGINAL DETERMINATIONCURRENT STATUS

N	3411	N	3411
		RML	112347
	<u>Amblyomma calcaratum</u> 2 ♂'s		2 ♂ <u>Amblyomma calcaratum</u>
	<u>Tamandua tetradactyla</u>		<u>Tamandua tetradactyla</u>
	Joinville, Humboldt, Prov. Sta. Catharina, Brazil		Joinville (26.18 S, 48.50 W), Humboldt, Estado de Santa Catharina, Brazil
	25.XI.1915		25.XI.1915
	W. Ehrhardt		W. Ehrhardt
	L.E.R. det.		
N	3412	N	3412
		RML	112348
	<u>Amblyomma</u> N		1 N <u>Amblyomma</u> sp.
	Rats & Mice		Rats & Mice
	Joinville, Humboldt, Prov. Sta. Catharina, Brazil		Joinville (26.18 S, 48.50 W), Humboldt, Estado de Santa Catharina, Brazil
	VII.1918		VII.1918
	W. Ehrhardt		W. Ehrhardt
	L.E.R. det.		
N	3412Z	N	3412Z MISSING
	<u>Ixodes ricinus</u> N		
	<u>Lacerta</u> sp., attached to right axilla		
	Brieselang, near Berlin, Germany		
	17.IV.1921		
	Rev. Dr. J. Maynar, S.J., Kaiserallee 96 III, Berlin-Friedenau		
	G.H.F.N. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3413

Hyalomma aegyptium ♂'s, ♀

Cattle

Socotra Island prior to landing
at Zanzibar

15.III.1921

W. Mansfield-Aders, Economic
Biologist, Public Health Division,
Biological Section, Zanzibar,
E. Africa

C. W. & G.H.F.N. det.

N 3413

RML 112349

7 ♂ Hyalomma dromedarii
100 ♂, 8 ♀ Hyalomma impeltatum
5 ♂ Hyalomma truncatum

Cattle

Suqutra Island (12.30 N, 54.00 E),
Peoples Democratic Republic of Yemen,
prior to landing at Zanzibar Island
(06.10 S, 39.20 E), Tanzania

15.III.1921

W. Mansfield-Aders

Yeoman & Walker (1967) do not list
H. dromedarii as occurring in
Tanzania and I am aware of the remark
by Hoogstraal (1956a: 460) concerning
this species. However H. dromedarii
is found in Yemen and could easily
be imported on cattle.

N 3414

Dermacentor reticulatus var. niveus

Sheep

Ciudad Lineal Madrid, Spain

2.IV.1920

L. E. Robinson

N 3414

RML 112350

1 ♂ Dermacentor niveus

Sheep

Ciudad Lineal Madrid (40.24 N,
03.41 W), Spain

2.IV.1920

L. E. Robinson

A pinned specimen.

ORIGINAL DETERMINATION

N 3415

Amblyomma ovale 3 ♂, 3 ♀, 3 N

Canis azarae

Assuncion, Paraguay

1904

Gift of Dr. A. Kotlán, Lecturer in Parasitology, R. Hungarian Veterinary College, Budapest (rec'd. 9.VI.1921)

L.E.R. det. 9.VI.1921
L.E.R. det. 1926.

Reply sent 9.VI.1921 to Dr. Kotlán, who kept duplicates & let me keep these Nos.

N 3416

Amblyomma clypeolatum 2 ♂

Not known (probably tortoise)

Zool. Gdns., Budapest, Hungary

Date not known

Gift of Dr. A. Kotlan

L.E.R. det.

CURRENT STATUS

N 3415

RML 112351

3 ♂, 3 ♀ Amblyomma ovale

Dusicyon gymnocercus

Asuncion (25.16 S, 57.40 W), Paraguay

1904

Gift of Dr. A. Kotlán

Cited: Robinson (1926: 29).

N 3416

RML 112352

2 ♂ Amblyomma clypeolatum

Not known (probably tortoise)

Zoological Gardens, Budapest (47.30 N, 19.05 E), Hungary

Date not known

Gift of Dr. A Kotlán

Cited: Robinson (1926: 81) but without Nuttall number.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3417	N	3417
		RML	112353
	<u>Dermacentor parumapertus</u> 4 ♂, 4 ♀		4 ♂, 4 ♀ <u>Dermacentor parumapertus</u>
	Rabbit		Rabbit
	California		California, U.S.A.
	1904		1904
	Sent for det. by L'pool School of Trop. Med. (Prof. Newstead F.R.S. No. 34, bulk returned)		Sent for determination by Liverpool School of Tropical Medicine (Prof. Newstead F.R.S., No. 34, bulk returned.)
	C.W. & G.H.F.N. det.		
N	3418, a	N	3418, a
		RML	75981
	(3418) <u>Haemaphysalis bispinosa</u> ♀ (a) <u>Hyalomma aegyptium</u> ♂, ♀		(3418) 2 ♂ <u>Haemaphysalis bispinosa</u> (a) 2 ♂ <u>Hyalomma anatolicum anatolicum</u>
	Hill mules		Mules, hill
	India		India
	Sent X.1912		Sent X.1912
	Sent by F. M. Howlett (No. 2)		Sent by F. M. Howlett (No. 2)
	Sent by F. M. Howlett, B.A. X.1912 from India, no further particulars. He died 1921. Had not called for return of these ticks so I now incorporate them. His No's. 1, 6, 9, 12 are already incl. in part or wholly under No's. 1903, 1904, 1979, 3331 q.v.		
	C.W. & G.H.F.N. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3419, a

(3419) Rhipicephalus sanguineus ♂, ♀(a) Haemaphysalis bispinosa ♂, ♀

Hill dog

India

Sent X.1912

Sent by F. M. Howlett (No. 3)

C.W. & G.H.F.N.

N 3419, a

RML 112354

(3419) 2 ♂, 2 ♀ Rhipicephalus
sanguineus(a) 3 ♂, 1 ♀ Haemaphysalis bispinosa

Dog, hill

India

Sent X.1912

Sent by F. M. Howlett (No. 3)

N 3420, a

(3420) Hyalomma aegyptium ♀(a) Rhipicephalus haemaphysaloides
♂, ♀

Hill pony

India

Sent X.1912

Sent by F. M. Howlett (No. 4)

C.W. & G.H.F.N. det.

N 3420, a

RML 112355

(3420) 1 ♂ Hyalomma marginatum isaaci(a) 2 ♂, 1 ♀ Rhipicephalus
haemaphysaloides

Pony, hill

India

Sent X.1912

Sent by F. M. Howlett (No. 4)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3421, a	N	3421, a
		RML	75983
	(3421) <u>Rhipicephalus sanguineus</u> ♂, ♀		(3421) 1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	(a) <u>Haemaphysalis bispinosa</u> ♀		(a) 1 ♀ <u>Haemaphysalis bispinosa</u>
	Dog		Dog
	India		India
	Sent X.1912		Sent X.1912
	Sent by F. M. Howlett (No. 5)		Sent by F. M. Howlett (No. 5)
	C. W. & G.H.F.N. det.		
N	3422	N	3422
		RML	112356
	<u>Boophilus australis</u>		4 ♀, 1 N <u>Boophilus microplus</u>
	Hill cows		Cows, hill
	India		India
	Sent X.1912		Sent X.1912
	Sent by F. M. Howlett (No. 7)		Sent by F. M. Howlett (No. 7)
	C.W. & G.H.F.N. det.		
N	3423	N	3423
		RML	112357
	<u>Hyalomma aegyptium</u> ♀		2 ♂, 1 ♀ <u>Hyalomma anatolicum anatolicum</u> 1 ♂ <u>Hyalomma marginatum isaaci</u>
	Hare		<u>Lepus</u> sp.
	India		India
	Sent X.1912		Sent X.1912
	Sent by F. M. Howlett (No. 8)		Sent by F. M. Howlett (No. 8)
	C.W. & G.H.F.N. det.		Cited: Kaiser & Hoogstraal (1964: 277).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3424, a	N	3424, a
		RML	112358
	(3424) <u>Hyalomma</u> sp. larvae (a) <u>Rhipicephalus sanguineus</u> ♂		(3424) 5 N, 3 L <u>Hyalomma</u> sp. (a) 1 ♂ <u>Rhipicephalus sanguineus</u>
	Hill pony		Pony, hill
	India		India
	Sent X.1912		Sent X.1912
	Sent by F. M. Howlett (No. 9)		Sent by F. M. Howlett (No. 9)
	C.W. & G.H.F.N. det.		
	3424 & 3424a out of same lot as N. 1979. q.v.		
N	3425	N	3425
		RML	112359
	<u>Hyalomma aegyptium</u>		5 ♂, 3 ♀ <u>Hyalomma anatolicum anatolicum</u> 8 ♂, 20 ♀ <u>Hyalomma dromedarii</u>
	Bullocks		Bullocks
	Lahore, India		Lahore (31.35 N, 74.18 E), Pakistan
	Sent X.1912		Sent X.1912
	Sent by F. M. Howlett		Sent by F. M. Howlett
	C.W. & G.H.F.N. det.		
	3 lots combined by G.H.F.N.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3426	N	3426
		RML	66651
	<u>Rhipicephalus sanguineus</u> ♂, ♀		26 ♂, 22 ♀, 10 N, 1 L <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Manila, Philippine Islds.		Manila (14.35 N, 121.00 E), Philippines
	Rec'd. 17.II.1912		17.IV.1911
	M. B. Mitzmain		M. B. Mitzmain
	C.W. det.		Collecting date taken from vial label.
N	3427	N	3427
		RML	112360
	<u>Boophilus australis</u> ♀'s		1 ♂, 37 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Manila, Philippine Islds.		Manila (14.35 N, 121.00 E), Philippines
	17.IV.1911		17.IV.1911
	M. B. Mitzmain (Rec'd. 17.II.1912)		M. B. Mitzmain (Rec'd. 17.II.1912)
	C. W. det.		
	Note: 3 other lots of <u>B. australis</u> thrown away 27.VII.1921 by me.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3428	N	3428
		RML	112361
	<u>Ixodes putus</u> ♂'s, ♀'s, N's, L's & eggs		1 ♂, 1 ♀, 2 N, 2 L <u>Ixodes uriae</u>
	Jan Mayen, Is. N. of Iceland		Jan Mayen Island (71.00 N, 08.20 W), Norway
	VIII.1921		VIII.1921
	W. S. Bristowe		W. S. Bristowe
	L.E.R. det. 18.X.1921		William Syer Bristowe (1901-1979). Authority on spiders and pompilid wasps. Author of "The Comity of Spiders." Also an authority on Sherlock Holmes.
	Found on stones at foot of cliff upon which sea-birds had been resting.		
N	3429	N	3429
		RML	112362
	<u>Amblyomma petersi</u> 1 ♀		1 ♀ <u>Amblyomma rhinocerotis</u>
	On acanthaceous shrub near stream edge.		On acanthaceous shrub near stream edge.
	Kibwezi Kenia 2900 ft.		Kibwezi (02.25 S, 37.58 E), Eastern Region, Kenya (884m)
	R. A. Dummer		R. A. Dummer
	C. Warburton det.		
N	3430	N	3430
		RML	112363
	<u>Amblyomma testudinarium</u> 2 ♀'s		2 ♀ <u>Amblyomma testudinarium</u>
	Lushai Hills, Assam		Lushai Hills (23.10 N, 92.50 E), Assam, India
	X.1921		X.1921
	W.L.F. Nuttall		W.L.F. Nuttall
	C. Warburton det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3431	N	3431
		RML	112364
	<u>Hyalomma aegyptium</u> ♀		1 ♀ <u>Hyalomma dromedarii</u>
	Camel		<u>Camelus dromedarius</u>
	Sibi, Baluchistan		Sibi (29.33 N, 67.53 E), Pakistan
	XII.1921		XII.1921
	W.L.F. Nuttall		W.L.F. Nuttall
	C. Warburton det.		
N	3432	N	3432
		RML	112365
	<u>Rhipicephalus maculatus</u> var. (like our 3352)		2 ♂ <u>Rhipicephalus humeralis</u>
	Kenya Colony No particulars		Kenya
	Col. Stordy (H.W. No. 12)		Col. Stordy
	Sent by H. Wilkinson, Ent. Lab. Kabete 14.IV.1922. Tubes sent without particulars. Coll. by Col. Stordy on Marsabit track but diary lost.		
	C. Warburton det.		

ORIGINAL DETERMINATION

N 3433

Rhipicephalus kochi

Cattle

Nairasha, Kenya Colony

10.X.1921

H. Wilkinson (H.W. No. 7)

C. Warburton det.

N 3434

Rhipicephalus masseyi ♂, ♀, N

Inyala (an antelope) Tragelaphus angasi

Nkuzi R.

1.VIII.1921

H. H. Curson, Vet. Reg. Officer
Zululand (H.H.C.'s. No. 1234)

C. Warburton det.

CURRENT STATUS

N 3433

RML 112366

4 ♂, 4 ♀ Rhipicephalus hurti

Cattle

Naivasha (00.43 S, 36.26 E), Kenya

10.X.1921

H. Wilkinson (H.W. No. 7)

N 3434

RML 112367

3 ♂, 3 ♀ Rhipicephalus muehlensi

Tragelaphus angasi

Perhaps Nkuzi Mt. (28.50 S, 29.21 E),
Zululand, Republic of South Africa

1.VIII.1921

H. H. Curson

ORIGINAL DETERMINATIONCURRENT STATUS

N 3435

Ixodes dentatus 6 ♂, 10 ♀
♂'s new. ♀'s show the var.
spinipalpis [lapás?] = dentatus

Rabbit

20.III.?

Presented by E. A. Chapin to whom
Fisher had given these.

Hadwen det. VII.1922.

N 3435

RML 112368

6 ♂, 10 ♀ Ixodes dentatus

Rabbit

U.S.A.

20.III.?

Presented by E. A. Chapin to whom
Fisher had given these.

N 3436

Rhipicephalus dux

Congo

From Hadwen's 720

C. W. det.

2 ♂, 1 ♀ (1 ♂ to be returned) to
Dr. F. Larousse, Brumpt's Laboratory
31.X.1927. Wrote him that his R.
schwetzi = R. dux in our opinion;
stated we had 2 other lots in our
collection (N1716, N2902a) of which
I gave him particulars. Also gave
him full reference to Donitz, W. 1910
p. 275.

N 3436

RML 112369

9 ♂, 5 ♀ Rhipicephalus dux

Zaire

From Hadwen's 720

ORIGINAL DETERMINATIONCURRENT STATUS

N	3437	N	3437
	<u>Amblyomma paulopunctatum</u>	RML	112370
	Red River hogs		5 ♂, 4 ♀ <u>Amblyomma paulopunctatum</u>
	Congo		<u>Potamochoerus porcus</u>
	Presented VII.1922		Zaire
	Presented by Hadwen		Presented VII.1922
	C. W. det.		Presented by Hadwen
	L.E.R. det. 1926		This and other tick collections from the Lang-Chapin expedition were sent to S. Hadwen for identification. Bequaert (1930: 6) said that Hadwen sent part of this collection to Nuttall. Robinson (1926: 85) listed this collection from West Africa although the catalogue indicates Congo and collection data for another 5 ♂, 5 ♀ <u>A. paulopunctatum</u> in the RML collection cite Medje, Belgian Congo as the locality.
N	3438	N	3438
	<u>Ornithodoros talaje</u>	RML	112371
	S. W. Africa		2 ♂, 5 ♀, 1 N <u>Ornithodoros capensis</u>
	From Michaelsens 12.		Penquins
	C. W. det.		Namibia
			1911
			From Michaelsens 12.
			Host and date taken from vial label.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3439, a	N	3439
		RML	112372
	(3439) <u>Argas reflexus</u> (a) <u>Argas reflexus</u> 6 sp. alive		(3439) 1 ♀ <u>Argas reflexus</u> (a) MISSING
	Found between leaden roof and stone roof of King's College Chapel		Found between leaden roof and stone roof of King's College Chapel, Cambridge (52.13 N, 00.08 E), England
	(3439) 4.VIII.1922 (a) IV-V.1923		4.VIII.1922
	L. H. Mathews, King's A.D. Hobson Christ's College, Cambridge		L. H. Mathews, King's A.D. Hobson Christ's College, Cambridge
			Cited: Matthews & Hobson (1922: 313).
	C.W. det.		C.W. det.
N	3440	N	3440
		RML	112373
	<u>Amblyomma ovale</u> ♂		1 ♂ <u>Amblyomma ovale</u>
	Man		<u>Homo sapiens</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 1) Medical Director, Surinam Bauxite Co., Moengo, Surinam, S. America		Dr. C. Bonne
	C. Warburton det. L.E.R. det. 1926		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3441	N	3441
		RML	112374
	<u>Amblyomma cajennense</u> ♀		1 ♀ <u>Amblyomma cajennense</u>
	Man		<u>Homo sapiens</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 2)		Dr. C. Bonne
	C. Warburton det.		
N	3442	N	3442
		RML	112375
	<u>Boophilus australis</u> ♂'s, ♀'s		2 ♂, 10 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 3)		Dr. C. Bonne
	C. Warburton det.		
N	3443	N	3443
		RML	112376
	<u>Amblyomma mantiquirens</u> ♂, ♀		2 ♀ <u>Amblyomma naponense</u>
	<u>Dicotyles torquatus</u> "Pakira"		<u>Tayassu tajacu patira</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 4)		Dr. C. Bonne
	L. E. Robinson det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3444	N	3444
		RML	112377
	<u>Aponomma</u> sp. N		1 N <u>Amblyomma</u> sp.
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 5)		Dr. C. Bonne
	C. W. det.		
N	3445	N	3445
		RML	112378
	<u>Amblyomma ovale</u>		1 ♀ <u>Amblyomma ovale</u>
	Jaguar		<u>Felis onca</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 6)		Dr. C. Bonne
	L.E.R. det.		
	L.E.R. redet. 1926.		
N	3446	N	3446
		RML	112379
	<u>Amblyomma goeldii</u> ♀'s		2 ♀ <u>Amblyomma rotundatum</u>
	<u>Boa</u> sp.		<u>Boa</u> sp.
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 7)		Dr. C. Bonne
	L.E.R. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3447	N	3447
	<u>Ixodes loricatus</u> var. <u>spinosus</u> ♀	RML	112380
	<u>Didelphis</u> sp.		2 ♀ <u>Ixodes luciae</u>
	Surinam		<u>Didelphis</u> sp.
	Posted 15.V.1922		Surinam
	Dr. C. Bonne (No. 8)		Posted 15.V.1922
	C. W. det.		Dr. C. Bonne
N	3448	N	3448
	<u>Haemaphysalis cinnabarina</u> larvae	RML	112501
	<u>Dasyprocta agouti</u>		4 L <u>Haemaphysalis</u> sp.
	Surinam		<u>Dasyprocta aguti</u>
	Posted 15.V.1922		Surinam
	Dr. C. Bonne (No. 9)		Posted 15.V.1922
	C. W. det.		Dr. C. Bonne
N	3449	N	3449
	<u>Amblyomma mantiquirens</u> ♂, ♀	RML	112502
	<u>Dicotyles torquatus</u>		1 ♂, 1 ♀ <u>Amblyomma naponense</u>
	Surinam		<u>Tayassu tajacu patira</u>
	Posted 15.V.1922		Surinam
	Dr. C. Bonne (No. 10)		Posted 15.V.1922
	L.E.R. det.		Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N	3450	N	3450
		RML	112503
	<u>Amblyomma mantiguirens</u>		1 ♀ <u>Amblyomma naponense</u>
	<u>Dicotyles labiatus</u> "Pingo"		<u>Tayassu pecari</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 11)		Dr. C. Bonne
	L.E.R. det.		
N	3451	N	3451
		RML	112504
	<u>Amblyomma oblongoguttatum</u>		1 ♀ <u>Amblyomma oblongoguttatum</u>
	<u>Dicotyles labiatus</u> "Pingo"		<u>Tayassu pecari</u> .
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 12)		Dr. C. Bonne
	L.E.R. det.		
N	3452	N	3452
		RML	112505
	<u>Amblyomma ovale</u> ♂		1 ♂ <u>Amblyomma ovale</u>
	<u>Galictus</u> sp. (Carnivore: Mustelidae) "Aira"		Probably <u>Eira barbara</u> subsp.
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 15)		Dr. C. Bonne
	L.E.R. det.		
	L.E.R. redet. 1926.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3453	N	3453
		RML	112506
	<u>Amblyomma ovale</u> ♂, ♀		2 ♂, 1 ♀ <u>Amblyomma ovale</u>
	Dog		Dog
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 16)		Dr. C. Bonne
	L.E.R. det.		
	L.E.R. redet. 1926.		
N	3454	N	3454
		RML	112507
	<u>Amblyomma calcaratum</u> ♂		1 ♂ <u>Amblyomma calcaratum</u>
	<u>Cicloturus didactylus</u> ?		<u>Cyclopes didactylus</u>
	Small ant-eater		
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 17)		Dr. C. Bonne
	L.E.R. det.		
N	3455	N	3455 MISSING
	<u>Amblyomma cajennense</u>		
	Surinam		
	Posted 15.V.1922		
	Dr. C. Bonne (No. 18)		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3456	N	3456
	<u>Amblyomma ovale</u>	RML	112508
	<u>Galictus</u> sp.		1 ♀ <u>Amblyomma ovale</u>
	Surinam		Probably <u>Eira barbara</u> subsp.
	Posted 15.V.1922		Surinam
	Dr. C. Bonne (No. 19)		Posted 15.V.1922
	L.E.R. det.		Dr. C. Bonne
	L.E.R. redet. 1926.		
N	3457	N	3457
	<u>Amblyomma ovale</u>	RML	112509
	Jaguar		2 ♀ <u>Amblyomma ovale</u>
	Surinam		<u>Felis onca</u>
	Posted 15.V.1922		Surinam
	Dr. C. Bonne (No. 20)		Posted 15.V.1922
	L.E. Robinson det.		Dr. C. Bonne
	L.E.R. redet. 1926.		
N	3458	N	3458
	<u>Amblyomma mantiquirensis</u>	RML	112510
	<u>Dicotyles torquatus</u> "Pakira"		1 ♂ <u>Amblyomma naponense</u>
	Surinam		<u>Tayassu tajacu patira</u>
	Posted 15.V.1922		Surinam
	Dr. C. Bonne (No. 21)		Posted 15.V.1922
	L. E. Robinson det.		Dr. C. Bonne

ORIGINAL DETERMINATIONCURRENT STATUS

N	3459	N	3459
		RML	112511
	<u>Amblyomma humerale</u>		2 ♂, 1 ♀ <u>Amblyomma humerale</u>
	<u>Testudo tabulata</u> (Land turtle)		<u>Geochelone denticulata</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 22)		Dr. C. Bonne
	L. E. Robinson det.		Cited: Santos Dias (1958: 496).
N	3460	N	3460
		RML	112512
	<u>Amblyomma</u> sp. (larvae)		1 L <u>Amblyomma</u> sp.
	Man		<u>Homo sapiens</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 14)		Dr. C. Bonne
	L. E. Robinson det.		
N	3461	N	3461
		RML	112513
	<u>Amblyomma cajennense</u> ♂, ♀ (in copula)		1 ♀ <u>Amblyomma cajennense</u>
	Tapir		<u>Tapirus</u> sp.
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 23)		Dr. C. Bonne
	C. Warburton det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3462	N	3462
		RML	112514
	<u>Amblyomma calcaratum</u>		1 ♂, 1 ♀ <u>Amblyomma calcaratum</u>
	<u>Cycloturus didactylus</u> Small ant-eater		<u>Cyclopes didactylus</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 24)		Dr. C. Bonne
	L.E.R. det.		
N	3463	N	3463
		RML	112515
	<u>Amblyomma ovale</u>		1 ♂ <u>Amblyomma ovale</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 25)		Dr. C. Bonne
	L.E.R. det.		
	L.E.R. redet. 1926		
N	3464	N	3464
		RML	112516
	<u>Amblyomma cajennense</u>		1 ♂ <u>Amblyomma cajennense</u>
	Man (on ear)		<u>Homo sapiens</u>
	Surinam		Surinam
	Posted 15.V.1922		Posted 15.V.1922
	Dr. C. Bonne (No. 26)		Dr. C. Bonne
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3465 <u>Amblyomma cajennense</u> ♂, N Surinam Posted 15.V.1922 Dr. C. Bonne (No. 28) L.E.R. det.	N	3465 MISSING
N	3466 <u>Amblyomma</u> sp. N's Surinam Posted 15.V.1922 Dr. C. Bonne (No. 29) C. W. det.	N	3466 RML 112517 1 N <u>Amblyomma</u> sp. Surinam Posted 15.V.1922 Dr. C. Bonne
N	3467 <u>Amblyomma cajennense</u> Surinam Posted 15.V.1922 Dr. C. Bonne (No. 30) C. W. Det.	N	3467 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 3468

Amblyomma coelebs

Tapir (young)

Surinam

Posted 15.V.1922

Dr. D. Bonne (No. 36)

L.E.R. det.

N 3468

RML 112518

2 ♂ Amblyomma coelebsTapirus sp.

Surinam

Posted 15.V.1922

Dr. C. Bonne

N 3469

Amblyomma testudinarium ♀

Found free

In jungle, Tripura State, India

1921

W.L.F. Nuttall, D.F.C.
Son of G.H.F.N.

L.E.R. & C.W. det.

N 3469

RML 112519

1 ♀ Amblyomma testudinarium

Found free

Tripura State (24.00 N, 92.00 E),
India

1921

W.L.F. Nuttall

ORIGINAL DETERMINATIONCURRENT STATUS

N 3470

Boophilus annulatus 2 ♀Bos taurus

Jacksonville, Florida, U.S.A.

1918

U.S. Bureau of Animal Industry,
Washington, D.C.

Gift of Dr. S. Hadwen, 1922.

No. 18774 B.A.I. (Staff det'd.)

N 3470

RML 112520

2 ♀ Boophilus microplusBos taurusJacksonville (30.20 N, 81.40 W),
Florida, U.S.A.

1918

U.S. Bureau of Animal Industry,
Washington, D.C.

Gift of Dr. S. Hadwen, 1922.

N 3471, a, b

(3471) Rhipicephalus falcatus ♂, ♀
(leaning to supertritus)(a) Rhipicephalus simus 1 ♀(b) Haemaphysalis leachi

Africa ? Nyasaland

Rec'd. by me 7.V.1921. Parcel
"Damaged by sea water," no stamps,
sender unknown up to now. 4.X.1922

C. W. det.

(b) 1 ♂ to Prof. R. Matheson, Cornell
27.V.19291 ♂ to Dr. A. C. Reed,
San Francisco 30.V.19291 ♂ to Prof. J. Drbohlav, Prague
30.V.19291 ♂ to Prof. E. Malvoz, Liège
30.V.19291 ♂ to E. T. Boardman, Univ. of
Florida, Gainesville 30.V.1929.

N 3471, a, b

RML 112521

(3471) 19 ♂, 9 ♀ Rhipicephalus kochi(a) 1 ♂ Rhipicephalus simus(b) 14 ♂, 8 ♀ Haemaphysalis leachi

Africa ? Malawi

Rec'd. by me 7.V.1921. Parcel
"Damaged by sea water," no stamps,
sender unknown up to now. 4.X.1922Two females of R. kochi with genital
apertures removed. Tentative ID.
Possibly R. hurti also in this
collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3472

Ornithodoros crossi

Camelus. Many in cracks of walls in stables.

Murree Hills, ca 5000 ft alt., ca 30 miles north of Rawalpindi, N. Punjab, India

Sent me on 1.VIII.1922

Capt. H. E. Cross, I.C.V.D., Camel specialist, Sohawa District, Jhelum, Punjab, India

C. W. det. XI.1922

Note: Captain Cross writes (1.VIII.1922) that Prof. E. Brumpt informs him that he "proposes to name them O. crossi." Mr. Pool now (5.X.1922) working in the Molteno Institute tells me that Cross has published a paper in India on "the cyclical transmission of Surra in camels" by this tick. I am writing to Cross about this. See Warburton (1918) Parasitology X. p. 287, fig. 3.

N 3472

RML 112522

2 ♂, 2 ♀, 3 N Ornithodoros tholozani

Camelus dromedarius. Many in cracks of walls in stables.

Murree (33.54 N, 73.24 E), Pakistan (1524 m)

Sent me on 1.VIII.1922

Capt. H. E. Cross, I.C.V.D., Camel specialist, Sohawa District Jhelum, Punjab, India

The publication referred to is Cross & Patel (1921).

N 3473

Haemaphysalis cinnabarina

Bos taurus

Jaffa, Palestine

III.1922

P. A. Buxton, M.A. (Cantab.)
Jerusalem

G.H.F.N. & C.W. det.

N 3473

RML 112523

1 ♀ Haemaphysalis punctata

Bos taurus

Tel Aviv (32.04 N, 34.46 E), Israel

III.1922

P. A. Buxton

Tentative ID. Cited: Buxton (1924: 329).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3474, a-c	N	3474, a-c
		RML	112524
	(3474) <u>Rhipicephalus maculatus</u>		(3474) 18 ♂, 6 ♀ <u>Rhipicephalus maculatus</u>
	(a) <u>Rhipicephalus simus</u>		(3474) 1 ♂ <u>Rhipicephalus appendiculatus</u>
	(b) <u>Rhipicephalus appendiculatus</u>		(a) 6 ♂, 2 ♀ <u>Rhipicephalus simus</u>
	(c) <u>Amblyomma hebraeum</u> 2 ♂		(b) 1 ♂, 2 ♀ <u>Rhipicephalus longus</u>
	<u>Phacochoerus aethiopicus</u> (Wart Hog)		<u>Phacochoerus aethiopicus</u>
	Lower Omfolozi, Zululand, Natal		Lower Omfolozi, Zululand (28.00 S, 32.00 E), Republic of South Africa
	25.V.1922		25.V.1922
	Laurence Hill (No. 36), Vet. Res. Dept., P.O. Box 405, Pietermaritzburg, S. Africa		Laurence Hill
	Sent 31.VII.1922		
	C. W. det.		
N	3475, a	N	3475, a
		RML	112525
	(3475) <u>Amblyomma hebraeum</u> 3 ♂		(3475) 3 ♂ <u>Amblyomma hebraeum</u>
	(a) <u>Rhipicephalus appendiculatus</u> ♀		(a) 1 ♀ <u>Rhipicephalus appendiculatus</u>
	<u>Tragelaphus scriptus sylvaticus</u> (Bushbuck)		<u>Tragelaphus scriptus</u>
	Lower Omfolozi, Zululand, Natal		Lower Omfolozi, Zululand (28.00 S, 32.00 E), Republic of South Africa
	21.V.1922		21.V.1922
	Laurence Hill (No. 283)		Laurence Hill
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3476, a (3476) <u>Amblyomma hebraeum</u> (a) <u>Amblyomma marmoreum</u> (v. fine spec.) <u>Rhinoceros bicornis</u> (Black Rhinoceros) Lower Omfolozi, Zululand, Natal 29.V.1922 Laurence Hill (No. 305) C. W. det.	N	3466, a MISSING
N	3477 <u>Amblyomma hebraeum</u> <u>Bos caffer</u> (Cape Buffalo) Lower Omfolozi, Zululand, Natal 18.V.1922 Laurence Hill (No. 252) C. W. det.	N	3477 MISSING
N	3478 <u>Aponomma exornatum</u> Tree Iguana Empangeni, Zululand, Natal 30.I.1922 Laurence Hill (No. 73) C. W. det.	N	3478 RML 112526 5 ♂, 1 ♀ <u>Aponomma exornatum</u> Iguana, tree Empangeni (28.45 S, 31.54 E), Zululand, Republic of South Africa 30.I.1922 Laurence Hill

ORIGINAL DETERMINATIONCURRENT STATUS

N 3479, a

(3479) Haemaphysalis leachi
 (a) Rhipicephalus sanguineus N's

Herpestes gracilis typicus (Mongoose)

Empangeni, Zululand, Natal

VI.1921

Laurence Hill (No. 167)

C. W. det.

N 3479, a

RML 112527

(3479) 2 ♀ Haemaphysalis leachi
 (a) 2 N Rhipicephalus sp.

Herpestes sp.Empangeni (28.45 S, 31.54 E),
Zululand, Republic of South Africa

VI.1921

Laurence Hill

N 3480

Rhipicephalus evertsi

Zebra

Empangeni, Zululand, Natal

23.IX.1921

Laurence Hill (No. 171)

C. W. det.

N 3480 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	<p>3481, a, b</p> <p>(3481) <u>Amblyomma hebraeum</u> (a) <u>Rhipicephalus evertsi</u> (b) <u>Boophilus decoloratus</u> ♂'s, ♀'s</p> <p>Cattle, Horses, Dog</p> <p>Empangeni, Zululand, Natal</p> <p>IX.1922</p> <p>Laurence Hill (No. 186)</p> <p>C. W. det.</p> <p>(3481) 1 ♂ to Prof. D'Arcy Thompson XI.1931 (a) 2 ♂, 2 " to Prof. R. A. Cooley, Montana V.1928.</p>	N	<p>3481, a, b MISSING</p> <p>The ticks were sent from South Africa on 31.VII.1922 (see N 3474). Therefore the collection date is in error and should probably be IX.1921.</p> <p>The specimens sent to Prof. Cooley are now in the RML collection (RML 66883).</p>
N	<p>3482, a</p> <p>(3482) <u>Rhipicephalus sanguineus</u> (a) <u>Haemaphysalis leachi</u> <u>Erinaceus roumanicus</u></p> <p>Jerusalem, Palestine</p> <p>3.VII.1922</p> <p>P. A. Buxton, M.A. (No. 528)</p> <p>C. W. det.</p>	N	<p>3482, a</p> <p>RML 112528</p> <p>(3482) 1 ♂, 3 N <u>Rhipicephalus sanguineus</u> (a) 1 ♂ <u>Haemaphysalis erinacei</u> <u>Erinaceus europaeus</u></p> <p>Jerusalem (31.46 N, 35.14 E), Israel</p> <p>3.VII.1922</p> <p>P. A. Buxton, M.A.</p> <p>Cited: Buxton (1924: 329). (a) cited: Hoogstraal (1955c: 223).</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	3483	N	3483
		RML	112529
	<u>Boophilus annulatus</u> ♀		1 ♀ <u>Boophilus annulatus</u>
	<u>Bos taurus</u>		<u>Bos taurus</u>
	Beisan, Palestine		Bet Shean (32.30 N, 35.30 E), Israel
	VII.1922		VII.1922
	P. A. Buxton, M.A.		P. A. Buxton, M.A.
N	3484	N	3484
		RML	112530
	<u>Rhipicephalus sanguineus</u> ♀		1 ♀ <u>Rhipicephalus sanguineus</u>
	On grass		On grass
	Jerusalem, Palestine		Jerusalem (31.46 N, 35.14 E), Israel
	15.III.1922		15.III.1922
	P. A. Buxton, M.A.		P. A. Buxton, M.A.
	C. W. det.		
N	3485	N	3485
		RML	112531
	<u>Rhipicephalus sanguineus</u> ♂, ♀'s		1 ♂ <u>Rhipicephalus sanguineus</u> 2 ♀ <u>Rhipicephalus turanicus</u>
	<u>Equus caballus</u>		<u>Equus caballus</u>
	Nazareth, Galilee		Nazareth (32.42 N, 35.18 E), Israel
	24.V.1922		24.V.1922
	P. A. Buxton, M.A.		P. A. Buxton, M.A.
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3486

Hyalomma syriacumAgama

Nazareth, Galilee

24.V.1922

P. A. Buxton, M.A.

C. W. det.

N 3486

RML 112532

1 ♀ Hyalomma aegyptiumAgama sp.

Nazareth (32.42 N, 35.18 E), Israel

24.V.1922

P. A. Buxton, M.A.

Cited: Buxton (1924: 330).

N 3487

Rhipicephalus sanguineus ♂'s, ♀'s,
N's

Honolulu, Hawaiian Isl's.

Rec'd. 12.IX.1921

Dr. E. M. Ehrhorn, Division of
Entomol., Board of Commissioners
of Agric. & Forestry, Honolulu,
Hawaiian Islands.

C. Warburton det.

N 3487

RML 112533

8 ♂, 9 ♀, 93 N, 1 L Rhipicephalus
sanguineusHonolulu (21.19 N, 157.52 W),
Hawaii, U.S.A.

Rec'd. 12.IX.1921

Dr. E. M. Ehrhorn

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3488</p> <p>Undetermined genus</p> <p>Havana Cuba in Caves on ground among bat dung</p> <p>Sent to me 26.VIII.1922</p> <p>Dr. Cabrera</p> <p>Sent by Dr. Walther Horn, Gosslerstr. 20. Berline-Dahlem, Germany for determination.</p> <p>Note: 10 specimens of a remarkable new genus or family of ticks of which we may keep 1/3. Dr. Cabrera, according to Dr. Horn could not find out if they lived on bats. We should ask Horn the name of the cave & to try & get more specimens as these rotted & most filthy having to be scraped off.</p>	<p>N 3488 MISSING</p> <p>These were undoubtedly specimens of the genus <u>Antricola</u> Cooley & Kohls, 1942.</p>
<p>N 3489</p> <p><u>Amblyomma supinoi</u> 2 ♀</p> <p>Tortoise</p> <p>In sender's garden, Rangoon, Burma</p> <p>Sent to me 30.VI.1922</p> <p>Dr. H. H. Marshall 16 Kokine Road, Rangoon</p> <p>L.E.R. det. X.1922.</p>	<p>N 3489</p> <p>RML 112534</p> <p>1 ♀ <u>Amblyomma supinoi</u></p> <p>Tortoise</p> <p>Rangoon (16.47 N, 96.10 E), Burma</p> <p>Sent 30.VI.1922</p> <p>Dr. H. H. Marshall</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	3490	N	3490
		RML	112535
	<u>Amblyomma tuberculatum</u> 1 ♂, 1 ♀		1 ♂, 1 ♀, 1 N <u>Amblyomma tuberculatum</u>
	Land tortoise		Tortoise, land
	Pensacola, Florida, U.S.A.		Pensacola (30.25 N, 87.13 W), Florida, U.S.A.
	1916		1916
	C. A. Carey		C. A. Carey
	Gift of S. Hadwen X.1922		
	C. W. det.		
N	3491	N	3491
		RML	112536
	<u>Amblyomma cuneatum</u> 1 ♀		1 ♀ <u>Amblyomma compressum</u>
	<u>Hylochoerus</u>		<u>Hylochoerus meinertzhageni</u>
	Congo Exped.		Zaire
	X.1913		X.1913
	American Mus. of Nat. Hist. "672" "A. kull" (= illegible at end) Lang-Chapin		American Museum of Natural History "672"
	Gift of S. Hadwen X.1922		Cited: Robinson (1926: 143).
	L.E.R. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3492

Amblyomma dissimile 2 ♂Iguana iguana

Central America

W. L. Brown

Gift of S. Hadwen X.1922

L.E.R. det.

N 3492

RML 112537

2 ♂ Amblyomma dissimileIguana iguana

Central America

W. L. Brown

N 3493

Amblyomma maculatum 1 ♂Bos taurus

Baton Rouge, La., U.S.A.

VIII.1916

S. Hadwen

Gift of S. Hadwen X.1922

C. W. det.

N 3493

RML 112538

1 ♂ Amblyomma maculatumBos taurusBaton Rouge (30.23 N, 91.11 W),
Louisiana, U.S.A.

VIII.1916

S. Hadwen

N 3494

Aponomma pattoni 2 ♂, 1 ♀

Snake

India

Major W. S. Patton

Gift of S. Hadwen X.1922

W. S. Patton, det.

N 3494

RML 112539

2 ♂, 1 ♀ Aponomma pattoni

Snake

India

Major W. S. Patton

Cited: Kaufmann (1972: 318)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3495	N	3495
	<u>Dermacentor auratus</u> 2 ♂	RML	112540
	"Pig"		2 ♂ <u>Dermacentor</u> sp.
	Tennascrinis, Tanjong Badek		Pig
			Tennascrinis, Tanjang Badek (locality not verified) Questionably Malaysia
	IX.1897		IX.1897
	Abbott		Abbott
	Gift of S. Hadwen X.1922		
	C. W. det.		
N	3496	N	3496
	<u>Dermacentor nitens</u>	RML	112541
	Bishopp's gift to S. Hadwen		4 ♂, 3 ♀ <u>Anocentor nitens</u>
	Gift of S. Hadwen X.1922		Bishopp's gift to S. Hadwen
	C. W. confirmed.		
N	3497	N	3497
	<u>Dermacentor nitens</u> ♂, ♀	RML	112542
	Hayti		1 ♀, 1 N <u>Anocentor nitens</u>
	N. Banks' gift to S. Hadwen		Haiti
	C. W. det.		N. Banks' gift to S. Hadwen

ORIGINAL DETERMINATIONCURRENT STATUS

N 3498

Dermacentor nigrolineatus
1 ♀ (unpinned)

Catskills, New York, U.S.A.

N. Banks' gift to S. Hadwen

Gift of S. Hadwen X.1922

C. W. det.

N 3498

RML 112543

1 ♀ Dermacentor albipictusCatskill Mountains (42.10 N,
74.30 W), New York, U.S.A.

N. Banks' gift to S. Hadwen

N 3499

Dermacentor parumapertus 3 ♂

Santa Rosa Mts., California, U.S.A.

N. Banks' gift to S. Hadwen

Gift of S. Hadwen X.1922.

N 3499

RML 112544

3 ♂ Dermacentor parumapertusSanta Rosa Mountains, California,
U.S.A. (locality not verified).
Perhaps vicinity of Santa Rosa
(38.26 N, 122.43 W).

N. Banks' gift to S. Hadwen

N 3500

Dermacentor marginatus 1 ♂, 3 ♀

Brownsville, Texas, U.S.A.

N. Banks' gift to S. Hadwen

Gift of S. Hadwen X.1922

C. W. det.

N 3500

RML 112545

1 ♂, 2 ♀ Dermacentor parumapertusBrownsville (25.54 N, 97.30 W),
Texas, U.S.A.

N. Banks' gift to S. Hadwen

List of Abnormalities in Collection

- 186b Boo. australis 1 ♂, with reduced anal plates on one side. See Fig. 21, Parasitology, Vol. II, p. 74. (1909). Off cat, Borlasgama, Ceylon, XII.1906. Colonel B. Skinner. Slide!
- 654 Rhip. sanguineus 1 ♂, off dog, Accra, West Africa, VI.1908. Dr. W. M. Graham. [Two ani and three spiracles.] Slide! Described in Parasitology II, 75, figs. 25-26- (1909).
- 306 Boo. decoloratus 1 ♂, raised in Cambridge, II.1908; stock rec'd. from Mr. C. P. Lounsbury, Cape Colony, S. Africa, VII.1907. [Two ani and two spines]. Slide! Described in Parasitology, II, 74, fig. 22 (1909).
- 2153 Haem. bispinosa 1 ♂, "22b" from India. No data. [With unequal palps]. Slide! Mentioned in Parasitology, II, p. 70 (foot), 1909).
- 26c Hyal. aegyptium 1 ♂, off goat, Germiston, Transvaal, S. Africa, IV.1906. Dr. G. Y. Brock. [Showing abnormality of posterior portion of venter]. Described in Parasitology, II, 71, fig. 18, (1909).
- 2151 Haem. punctata 1 ♀, off sheep, Lydd, Kent, 23.III.1905. Mentioned in Parasitology, II, 71, (1909)
- 2152 Haem. punctata ♀, off sheep, Littlebourne, Kent; rec'd. 15.IV.1905. Mentioned in Parasitology, II.71, (1909).
- 918 Ix. hexagonus 1 ♀, off hedgehog, Grantchester, Cambs, 15.VIII.1906. [Possesses a curious scutum.]
- 948 Rhip. appendiculatus 1 ♂, rec'd. from Mr. C. P. Lounsbury, Cape Colony, S. Africa, 20.XII.1909. [Possesses two anal orifices.] Described in Parasitology (Oct. 1914) vol. VII, p. 250, fig. 1.
- 1085 Haem. leachi 1 ♂, off Canis aureus, Museum Compound, Calcutta, India, 1911. (Ex Indian Mus. coll $\frac{5994}{10}$ - $\frac{5995}{10}$)
[Deformed]
Described in Parasitology (Oct. 1914) vol. VII, p. 252, fig. 3.
- 1210 Rhip. sanguineus 1 ♂ off dog, Puri, Orissa Coast, Bengal, India; 1911. (Ex Ind. Mus. $\frac{819}{197}$ a). [Abnormal]
Described in Parasitology (Oct. 1914) vol. VII, p. 252, fig. 4.

- 1446 Rhip. pulchellus 1 ♂, off rhinoceros, Yatta Plains, Ukamba Province, B.E. Africa, 6.VIII.1910. S.W.J. Scholefield coll. [Deformed: Described in Parasitology (Oct. 1914) vol. VII, p. 255, fig. 8.]
- 1542b Ix. caledonicus 1 ♀, from dove-cot, Dunipace, Stirlingshire Scotland, 25.V.1911. W. Evans coll. [Deformed: Described in Parasitology (Oct. 1914) vol. VII, p. 251, fig. 2.]
- 1581 Rhip. appendiculatus 1 ♂, off cattle, Nbars, Ankole, Uganda, Africa, I.1911. Dr. C. H. Marshall. [Abnormal: (not worth fig. or descr., adanal plates poorly developed.)]
- 1596 Boo. annulatus 1 ♂, off cattle, Boston, Mass, U.S. America, 1912. "T.F.R." [Deformed: (not worth fig. or descr., adanal plates poorly developed, p. 255, fig. 9.)]
- 1605 Boo. decoloratus 1 ♂, off "Kudu," Mombiras, N. Nyasa, B.C. Africa, 25.II.1908. Dr. J. B. Davey. [Abnormal: (not worth fig. or descr. adanal plates not well developed.)]
- 2150 Hyal. aegyptium 1 ♂, off bullock Lahore, Punjab, India, IV.1913. Major G. K. Walker. [Abnormal: 5 legs on one side]. (not worth fig. or descr. adanal plates not well developed p. 257, fig. 11.)
- 1683 Rhip. sanguineus 1 ♂, off Vulpes cucopus, Bhey, Cutch, India, 1911. C. A. Crump. "Kinnear 441." [Deformed: (not worth fig. or descr. adanal plates not well developed, p. 253, fig. 5.)]
- 2286 Rhip. bursa 1 ♀ (unfed), off horse, Tangiers, Morocco, North Africa, VII.1913. Dr. I. Jejamant. [Normal unfed ♀ with spermtophore attached to vulva]. Not abnormal!
- 2622 Haem. leachi 1 ♀, off dog, Entebbe, Uganda, E. Africa, 20.IV.1913 C. C. Gowdey. [Normal partly-fed ♀ with spermatophore]. Not abnormal!
- 2553 Ix. ricinus ♂'s ♀'s, off goats, Smyrna, Asiatic Turkey, XI.1913. W.H.J. van Heemstra. [Specimens possess humped tarsi.]. Not abnormal!
- 2553a Haem. punctata ♂'s ♀s, off goats, Smyrna, Asiatic Turkey, XI.1913. Not abnormal!
- 2554 Haem. punctata ♂ 2 ♀s, off sheep, Smyrna, Asiatic Turkey, XI.1913. W.H.J. van Heemstra. [♂ with spine.]. Not abnormality.

- 2735 Ixodes hexagonus or ricinus sp. N (probably) found beneath the skin of a fox (sack unopened) (below the ear), at Llanrhystyd, Cardiganshire, Wales, III.1914. Rec'd from Professor C. L. Walton, University College of Wales, Aberystwyth, 10 March 1914. Not abnormality.
- 240 Ambly. marmoreum 1 ♂, off ? Khartoum, Sudan, 1908. Dr. A. Balfour (abnormal!) coll. (specimen pinned). Described in Parasitology (Oct. 1914) vol. VII, p. 254, fig. 7.
- 2413a Ambly. hebraeum 1 ♀ abnormal. off cow, Namachacha, Portuguese E. Africa, 28.VII.1913, Dr. J. B. Botelks coll. (Worth describing some day, has much deformed scutum & spiracle). 2413a, Described by L. E. Robinson in Parasitology XII (1920) p. 175.
- 351 Rhipicephalus longiceps Nuttall & Warburton 1 ♂ from type lot, off Klippspringer bok, Cephalophus grimmi, Benguela, Angola, 1907, Dr. F. C. Wellman coll. Described by L. E. Robinson in Parasitology XII.(1920) p. 253, fig. 6.
- 3347 Hyalomma aegyptium 1 ♀ deformed off Hemitragus hitocrius, Cochin State 1914. Indian Museum. Described by L. E. Robinson, in Parasitology XII.(1920) p. 178.
- 3379 Boophilus decoloratus 1 ♀ from Banana, Belgian Congo, 11.I.1910, Dr. Etienne, No. 1 Envoi. "191" at 025 (our no.) rec'd April 1920 from Musee du Congo Belge, Tervueren, Belgium (Dr. H. Schouteden) shows abnormality of leg: triplicated!

The Nuttall Tick Catalogue
Volume III, Nos. 3501-3972

Catalogue of Ticks

Vol. III

collected by

George H. F. Nuttall

Quick Professor of Biology, Director of the Molteno Institute
for Research in Parasitology, Cambridge.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3501

N 3501

RML 112546

Ornithodoros lahorensis 1 N1 N Ornithodoros lahorensis

On goat-skin mat

On goat-skin mat

Lahore, Punjab, India

Lahore (31.35 N, 74.18 E), Pakistan

Gift of S. Hadwen 1922

Gift of S. Hadwen 1922

S. H. det. C. W. confirmed.

This tick procured for Dr. Hadwen the local reputation of a Sherlock Holmes. A friend in Canada brought it to him with the remark "Well you can't tell me what this is." Dr. Hadwen said "It is Ornithodoros lahorensis, which infects goats in the Punjab:" The friend had found it in a goat-skin mat which his father had recently sent him from Lahore!

C. W. 4.XII.1922.

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3502</p> <p><u>Dermacentor andersoni</u> ♂'s, ♀'s</p> <p>Okanagan Falls, B.C., Canada</p> <p>V.1913</p> <p>Rothschild coll.</p> <p>Gift of S. Hadwen, 1922</p> <p>S. H. det. C. W. conf.</p>	<p>N 3502</p> <p>RML 112547</p> <p>7 ♂, 9 ♀ <u>Dermacentor andersoni</u></p> <p>Okanagan Falls (49.21 N, 119. 31 W), British Columbia, Canada</p> <p>V.1913</p> <p>Rothschild coll.</p>
<p>N 3503</p> <p><u>Dermacentor andersoni</u> 1 ♂, 1 ♀</p> <p>Boseman, Montana, U.S.A.</p> <p>Gift of N. Banks to S. Hadwen & latter's gift to us 1922</p> <p>N. Banks det. (C. W. & S. H. confirmed).</p>	<p>N 3503</p> <p>RML 112548</p> <p>1 ♂, 1 ♀ <u>Dermacentor andersoni</u></p> <p>Bozeman (45.41 N, 111.02 W), Montana, U.S.A.</p> <p>Gift of N. Banks to S. Hadwen & latter's gift to us 1922.</p> <p>Nathan Banks (1868-1953) with Division of Entomology, U.S. Department of Agriculture (1890-1916), Curator of Insects, Museum of Comparative Zoology, Harvard (1916-1944).</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	3504	N	3504
		RML	112549
	<u>Dermacentor variabilis</u> 1 ♂, 1 ♀ ("Oregon form" C.W.)		1 ♂, 1 ♀ <u>Dermacentor variabilis</u>
	Man		<u>Homo sapiens</u>
	Aweme, Manitoba		Aweme (49.43 N, 99.36 W), Manitoba, Canada
	V.1910		V.1910
	N. Criddle		N. Criddle
	Gift of S. Hadwen 1922		I believe N 1148 is also part of this collection.
	S. H. & C. W. det.		
N	3505	N	3505
		RML	112550
	<u>Dermacentor variabilis</u> ♂'s, ♀'s		3 ♂, 3 ♀ <u>Dermacentor variabilis</u>
	Falls Church, Virginia, U.S.A.		Falls Church (38.53 N, 77.11 W), Virginia, U.S.A.
	Gift of N. Banks & passed on to us by S. Hadwen, 1922		Gift of N. Banks & passed on to us by S. Hadwen, 1922
	N. Banks del. S. H. & C. W. conf.		I believe N 704 is also part of this collection.
N	3506	N	3506
		RML	112551
	<u>Dermacentor occidentalis</u> 1 ♂, 3 ♀		2 ♂, 3 ♀ <u>Dermacentor occidentalis</u>
			Either California or Oregon, U.S.A.
	Rec'd from Bishopp by S. Hadwen (donor to us, 1922)		Rec'd from Bishopp by S. Hadwen (donor to us, 1922).
	S. H. & C. W. conf.		

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3507</p> <p><u>Dermacentor occidentalis</u> 4 ♂, 3 ♀</p> <p>Horses</p> <p>Las Lomas, California, U.S.A.</p> <p>4.V.1915</p> <p>Gift of S. Hadwen, 1922</p> <p>S.H. & C.W. conf.</p>	<p>N 3507</p> <p>RML 112552</p> <p>4 ♂, 3 ♀ <u>Dermacentor occidentalis</u></p> <p>Horses</p> <p>Las Lomas (36.52 N, 121.44 W), California, U.S.A.</p> <p>4.V.1915</p> <p>Gift of S. Hadwen, 1922</p> <p>Las Lomas is no longer a town but a marshy area located 3.2 km S of Watsonville, California [J.E.K.]</p>
<p>N 3508</p> <p><u>Dermacentor hunteri</u> 1 ♂, 3 ♀</p> <p>Rec'd from Bishopp by S. Hadwen (donor to us, 1922)</p> <p>S.H. & C.W. conf.</p>	<p>N 3508</p> <p>RML 112553</p> <p>1 ♂, 3 ♀ <u>Dermacentor hunteri</u></p> <p>Southwestern U.S.A. or northern Mexico</p> <p>Rec'd from Bishopp by S. Hadwen (donor to us, 1922)</p>
<p>N 3509</p> <p><u>Argas persicus</u> alive</p> <p>Fowls infected with spirochaetosis</p> <p>Ouargla, Sahara Constantinois [Algeria]</p> <p>10.V.and 11-14.VI.1922. Rec'd 24.XI.1922 hungry</p> <p>Gift of Dr. Edm. Sergent Inst. Pasteur, Algiers, Algeria, N. Africa.</p>	<p>N 3509 MISSING</p>

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	3510	N	3510 MISSING
	<u>Argas persicus</u> alive		
	Fowls		
	Beni-Ounif de Figuig, Sahara Oranais [Algeria]		
	XI.1922 Rec'd 24.XI.1922		
	Gift of Dr. Edm. Sergent Inst. Pasteur, Algiers, Algeria, N. Africa.		
N	3511	N	3511
		RML	112554
	<u>Amblyomma testudinarium</u> 4 ♂'s, 4 ♀'s		2 ♂ <u>Amblyomma testudinarium</u> 1 ♂, 4 ♀ <u>Amblyomma crenatum</u>
	<u>Rhinoceros sondaicus</u>		<u>Rhinoceros sondaicus</u>
			Quite possibly Java, Indonesia
	Rec'd 17.X.1922		Rec'd 17.X.1922
	Rec'd from Dr. K. W. Dammerman, Director, Islands Plantation, Zoologisch Museum en Laboratorium, Buitenzorg, Java.		Rec'd from Dr. K. W. Dammerman, Director, Islands Plantation, Zoologisch Museum en Laboratorium, Buitenzorg, Java
			Java ? is locality on vial label.
N	3512	N	3512 MISSING
	<u>Hyalomma aegyptium</u> (3) deprived of Haller's organs (from my raised strain)		
	Attached to dead rat's skin		
	Cambridge (Quick Lab'y.)		
	1912		
	Hindle & Merriman		
	See Parasitology V.215.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3513	N	3513
		RML	112555
	<u>Ixodes vespertilionis</u>		3 N <u>Ixodes vespertilionis</u>
	Horse-shoe Bat		<u>Rhinolophus ferrumequinum</u> or <u>Rhinolophus hipposideros</u>
	Dundry, Somerset		Dundry (51.24 N, 02.38 W), Somerset, England
	26.XII.1922		26.XII.1922
	L. H. Matthers		L. H. Matthers
	C. W. det.		Vial label indicates hosts are Greater & Lesser horseshoe bat.
N	3514	N	3514
		RML	112556
	<u>Amblyomma sublaeve</u> ♂ (= <u>badium</u>)		1 ♂ <u>Amblyomma javanense</u>
	From groin of Semnopithicus monkey		<u>Presbytis</u> sp.
	Mountains of Borneo		Borneo, mountains of
	VII.1920		VII.1920
	Dr. Chas. Hose		Dr. Chas. Hose
	Dissected in the Anatomy School, Cambridge. Rec'd from L. H. Matthers, Cambridge		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3515	N	3515
		RML	71005, RML 71138
	<u>Haemaphysalis elongata</u>		2 ♂, 3 ♀ <u>Haemaphysalis elongata</u> (RML 71005)
			4 ♂ <u>Haemaphysalis subelongata</u> (RML 71138)
	Preserved tenerec demonstration specimen		Tenerec
	Zoological Laboratory, Cambridge		Zoological Laboratory, Cambridge (52.13 N, 00.08 E), England
	XII.1922		XII.1922
	L. H. Matthers, Cambridge		L. H. Matthers, Cambridge
	C. W. det.		Cited: Hoogstraal <u>et al</u> (1974: 481).
N	3516	N	3516
		RML	112557
	<u>Aponomma hydrosauri</u> ♂		1 ♂ <u>Aponomma hydrosauri</u>
	<u>Tiliqua scinoides</u>		<u>Tiliqua scinoides</u>
	Seaforth, Victoria		Seaford (38.06 S, 145.08 E), Victoria, Australia
	Sent 23.I.1923		Sent 23.I.1923
	W. F. Hill		W. F. Hill
	Sent to Prof. R. Newstead, Liverpool Sch. of Trop. Med. who sent them to us for identification.		
	C. W. & L.E.R. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3517

N 3517

Aponomma hydrosauri

RML 112558

4 ♀ Aponomma concolor

Echidna

Tachyglossus aculeatus

Undoubtedly Australia

1911

1911

W. F. Hill, Australia.
Sent to Prof. R. Newstead,
Liverpool School of Trop. Med.
who sent them to us for
identification Jan. 23, 1923.

W. F. Hill.

C. W. & L.E.R. det.

N 3518

N 3518

Amblyomma triguttatum ♀♀

RML 112559

3 ♀ Amblyomma triguttatumMacropus rufusMegaleia rufa

Pentland, N. Qld.

Pentland (20.32 S, 145.24 E),
Queensland, Australia

Sent 23.I.1923

Sent 23.I.1923

W. F. Hill, Australia. Sent to
Prof. R. Newstead, Liverpool Sch.
of Trop. Med. who sent them to
us for identification.

W. F. Hill.

L.E.R. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3519

N 3519

RML 112560

Aponomma trimaculatum3 σ , 1 φ Aponomma trimaculatumPython spilotesPython spilotes

Tvl.

Tvl. in all probability is
Townsville (19.14 S, 146.49 E),
Queensland, Australia

21. VII.1913

21.VII.1913

W. F. Hill, Australia. Sent to
Prof. R. Newstead, Liverpool
Sch. of Trop. Med. who sent them
to us for identification
Jan. 23, 1923

W. F. Hill

L.E.R. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3520

Aponomma p[-----]sPhascolomys mitchelli

N.S.W.

1911

W. F. Hill, Australia. Sent to Prof. R. Newstead, Liverpool Sch. of Trop. Med. who sent them to us for identification Jan. 23, 1923.

L.E.R. det.

N 3520

RML 112561

1 ♂ Aponomma auruginansVombatus ursinus

New South Wales, Australia

1911

W. F. Hill

See comment under 3195

Note in vial "1 N removed 13/6/36 Bertram".

N 3521

Dermacentor albipictus

Deer

New Caledonia

Sent 23.I.1923

W. F. Hill, Australia. Sent to Prof. R. Newstead, Liverpool Sch. of Trop. Med. who sent them to us for identification.

C. W. det.

N 3521

RML 112562

2 ♂, 1 N Dermacentor sp.

Deer

New Caledonia

Sent 23.I.1923

W. F. Hill

These specimens look like true D. albipictus. There is perhaps a mix-up in specimens or labelling or, more unlikely, an introduction of deer into New Caledonia from North America with D. albipictus attached.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3522	N	3522
		RML	112563
	<u>Amblyomma australiense</u>		3 ♂ <u>Amblyomma echidnae</u>
	Echidna		<u>Tachyglossus aculeatus</u>
	Tvl.		Tvl. in all probability is Townsville (19.14 S, 146.49 E) Australia
	Sent 23.I.1923		Sent 23.I.1923
	W. F. Hill, Australia. Sent to Prof. R. Newstead, Liverpool Sch. of Trop. Med. who sent them to us for identification.		W. F. Hill
	C. W. & L.E.R. det.		
N	3523	N	3523
		RML	112564
	<u>Amblyomma albolimbatum</u> (atypical says L.E.R. 1926)		1 ♂, 1 ♀ <u>Amblyomma moreliae</u>
	Carpet snake		Perhaps <u>Python spilotes variegatus</u> , the carpet python
	Koolpinyak, N.T.		Koolpinyah (12.23 S, 131.10 E), Northern Territory, Australia
	22.VIII.1911		22.VIII.1911
	W. F. Hill, Australia. Sent to Prof. R. Newstead, Liverpool Sch. of Trop. Med. who sent them to us for identification Jan. 23, 1923.		W. F. Hill
	L.E.R. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3524	N	3524
	<u>Aponomma hydrosauri</u>		2 ♂ <u>Aponomma hydrosauri</u>
	Blue-tongued lizard		<u>Tiliqua scinoides</u>
	Seaford, Vic.		Seaford (38.06 S, 145.08 E), Victoria, Australia
	Sent 23.I.1923		Sent 23.I.1923
	W. F. Hill, Australia. Sent to Prof. R. Newstead, Liverpool Sch. of Trop. Med. who sent them to us for identification.		W. F. Hill.
	L.E.R. det.		
N	3525	N	3525 MISSING
	<u>Amblyomma dissimile</u> 1 ♀		
	<u>Bufo marinus</u>		
	? West Indies		
	Rec'd 7.XII.1922		
	Gift of Dr. S. H. Dankes of Wellcome Bur. Sci.		
	G.H.F.N. det.		
	Note to No. 3525. Rec'd at Wellcome Bur. Sci. London, during war, no particulars available. Tick & toad & possible origin det'd. by me G.H.F.N. 11.V.1923.		
	Host with gorged tick attached mounted as <u>Museum Specimen</u> .		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3526	N	3526 MISSING
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		
	Sheep		
	Jinja, Nyasaland, B.E. Africa		
	Rec'd 26.VI.1923		
	Gift of Thos. Bowhill, Esq.		
	C. W. det.		
N	3527	N	3527 MISSING
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		
	Sheep		
	Jinja, Nyasaland, B.E. Africa		
	Rec'd 26.VI.1923		
	Gift of Thos. Bowhill, Esq.		
	C. W. det.		
N	3528	N	3528
		RML	112566
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		6 ♂, 5 ♀ <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	Jinja, Nyasaland, B.E. Africa		Probably Jinja (00.26 N, 33.12 E), Uganda
	Rec'd 26.VI.1923		Rec'd 26.VI.1923
	Gift of Thos. Bowhill, Esq.		Gift of Thos. Bowhill, Esq.
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3529	N	3529
		RML	112567
	<u>Haemaphysalis bispinosa</u> ♀		1 ♀ <u>Haemaphysalis aciculifer</u>
	Sheep		Sheep
	Jinja, Nyasaland, B.E. Africa		Probably Jinja (00.26 N, 33.12 E), Uganda
	Rec'd 26.VI.1923		Rec'd 26.VI.1923
	Gift of Thos. Bowhill, Esq.		Gift of Thos. Bowhill, Esq.
N	3530	N	3530
		RML	112568
	<u>Amblyomma splendidum</u>		6 ♂, 2 ♀ <u>Amblyomma splendidum</u>
	Bush cow		Cow, bush
	Mabonto		Either Mabonto (08.38 N, 12.37 W) or (08.52 N, 11.49 W), Sierra Leone
	VI.1923		VI.1923
	Mr. M. J. Dawe, Sierra Leone (His No. 1363)		Mr. M. J. Dawe
	C. W. det.		
N	3531	N	3531
		RML	112569
	<u>Ixodes vespertilionis</u> 3 nymphs		1 N, 2 L <u>Ixodes vespertilionis</u>
	Lesser horseshoe bat		<u>Rhinolophus hipposideros</u>
	Clifton (England)		Clifton, England (locality not verified; 6 possible localities).
	25.XI.1923		25.XI.1923
	Coldstream Tuckett, Esq. coll. & gift		Coldstream Tuckett, Esq. coll. & gift
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3532	N	3532
		RML	112570
	<u>Ixodes tenuirostris</u> 1 ♀		1 ♀ <u>Ixodes trianguliceps</u>
	<u>Arvicola arvalis</u>		<u>Microtus arvalis</u>
	Weissenstein, Jura, Switzerland		Weissenstein (47.15 N, 07.32 E), Switzerland
	16.VIII.1917		16.VIII.1917
	Gift of Dr. K. Jordan, 1923		Gift of Dr. K. Jordan, 1923
	C. W. det.		
N	3533	N	3533
		RML	112571
	<u>Ixodes tenuirostris</u> 2 ♀		1 ♀ <u>Ixodes trianguliceps</u>
	<u>Hypudaeus glareolus</u>		<u>Clethrionomys glareolus</u>
	Weissenstein, Jura, Switzerland		Weissenstein (47.15 N, 07.32 E), Switzerland
	26.VIII.1917		26.VIII.1917
	Gift of Dr. K. Jordan, 1923		Gift of Dr. K. Jordan, 1923
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3534	N	3534
		RML	112572
	<u>Ixodes tenuirostris</u> 2 ♀, 3 N		1 ♀, 2 N <u>Ixodes trianguliceps</u>
	<u>Hypudaeus glareolus</u>		<u>Clethrionomys glareolus</u>
	Goslar, Harz, Germany		Goslar (51.54 N, 10.26 E), Harz Mountains, Federal Republic of Germany
	12.VII.1921		12.VII.1912
	Gift of Dr. K. Jordan, 1923		
	C. W. det.		
	1 ♀ to Dr. E. Pavlovsky, Leningrad 9.X.1925.		
N	3535	N	3535
		RML	112573
	<u>Ixodes tenuirostris</u> 2 N		1 N, 1 L <u>Ixodes trianguliceps</u>
	<u>Hypudaeus glareolus</u>		<u>Clethrionomys glareolus</u>
	Goslar, Harz, Germany		Goslar (51.54 N, 10.26 E), Harz Mountain, Federal Republic of Germany
	12.VII.1921		12.VII.1912
	Gift of Dr. K. Jordan, 1923		Gift of Dr. K. Jordan, 1923
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3536	N	3536 MISSING
	<u>Argas persicus</u> 1 ♀		
	Found on wall Djama, Algeria		
	25.II.1920		
	Hon. N.C. Rothschild & K. Jordan		
	Gift of Dr. K. Jordan, 1923		
	C. W. det.		
N	3537	N	3537
	<u>Haemaphysalis leachi</u> N's	RML	112574
	<u>Dipodillus campestris</u>		10 N <u>Haemaphysalis erinacei</u>
	Timgad, Algeria		<u>Gerbillus campestris</u>
	15.IV.1920		Timgad (35.30 N, 06.35 E), Algeria
	Hon. N.C. Rothschild & K. Jordan		15.IV.1920
	Gift of Dr. K. Jordan, 1923		Hon. N.C. Rothschild & K. Jordan
	C. W. det.		Cited: Hoogstraal (1955c: 222, 223). See note under N3539.
N	3538	N	3538
	<u>Haemaphysalis leachi</u> N's	RML	112575
	<u>Dipodillus campestris</u>		11N <u>Haemaphysalis erinacei</u>
	Timgad, Algeria		<u>Gerbillus campestris</u>
	15.IV.1920		Timgad (35.30 N, 06.35 E), Algeria
	Hon. N.C. Rothschild & K. Jordan		15.IV.1920
	Gift of Dr. K. Jordan, 1923.		Hon. N.C. Rothschild & K. Jordan
	C. W. Det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3539

Haemaphysalis leachi N'sDipodillus campestris

Timgad, Algeria

17.IV.1920

Hon. N.C. Rothschild & K. Jordan

Gift of Dr. K. Jordan, 1923.

C. W. det.

N 3539

RML 112576

4 N Haemaphysalis erinaceiGerbillus campestris

Timgad (35.30 N, 06.35 E), Algeria

17.IV.1920

Hon. N.C. Rothschild & K. Jordan

Cited: Hoogstraal (1955c: 223) who gave the Nuttall number 3739 for this collection and gave a total number of nymphs as 17 for N 3537 and N 3539.

N 3540

Amblyomma dissimile ♀'s, N's, L'sFrom skin of large toad
(sp. incert.)Sacco de São Francisco Nictheroy,
Estado do Rio, Brazil

17.VII.1923

L. H. Matthews

L.E.R. & C.W. det.

N 3540

RML 112577

3 ♀, 7 N, 12 L Amblyomma dissimileFrom skin of large toad
(sp. incert.)Saco de São Francisco (22.55 S, 43.06 W)
Estado do Rio de Janeiro, Brazil

17.VII.1923

L. H. Matthews

ORIGINAL DETERMINATIONCURRENT STATUS

N	3541	N	3541 MISSING
	<u>Amblyomma cajennense</u> ♀'s & N's "carapatas"		
	Sacco de São Francisco Nictheroy, Estado do Rio, Brazil		
	1.IX.1923		
	L. H. Matthews		
	L.E.R. & C.W.		
	(A most troublesome pest - one gets covered with them by walk- ing through thick herbage in dry weather).		
N	3542	N	3542
	<u>Hyalomma aegyptium</u> ♂, ♀	RML	112578
			1 ♂, 1 ♀ <u>Hyalomma impressum</u> Tentative ID
	<u>Camelus dromedarius</u>		<u>Camelus dromedarius</u>
	Mauritania, N. Africa		Mauritania
	♂ XII.1922		♂ XII.1922
	♀ 1.III.1923		♀ 1.III.1923
	Dr. Belleu. Received from Th. Monod. Mus. Hist. Nat. Paris		Dr. Belleu
	C. W. det. 3.II.1924		
	From collections of Zoological Mission to Mauritania Th. Monod 1922. 23.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3543	N	3543
		RML	112579
	Undetermined genus 2 N		2 N <u>Dermacentor</u> sp.
	<u>Sciurus brooki</u>		<u>Sundasciurus brookei</u>
	Mt. Dulit, Sarawak, Borneo		Banjaran Dulit (03.15 N, 114.15 E), Sarawak, Malaysia
	Dr. E. Mjöberg, Curator of Sarawak Museum, Kuching Sarawak		Dr. E. Mjöberg
	C. W. det. I.1924		
	3543 <u>Rhipicephalus</u> like. They don't quite agree with <u>R. sanguineus</u> , & the only other oriental <u>Rhipicephalus</u> (<u>haemaphysaloides</u>) has unknown mature [sic] stages: but we cannot distinguish <u>Rhipicephalus</u> nymphs from <u>Dermacentor</u> nymphs and these may possibly be the unknown immature forms of <u>D. auratus</u> .		
N	3544	N	3544
		RML	112580
	<u>Ixodes granulatus</u> 2 ♀		2 ♀ <u>Ixodes granulatus</u>
	<u>Sciurus prevostii</u>		<u>Callosciurus prevostii</u>
	Mt. Dulit 3,500 ft. Sarawak, Borneo		Banjaran Dulit (03.15 N, 114.15 E), Sarawak, Malaysia (1067 m)
	Rec'd I.1924		Rec'd I.1924
	Rec'd from Dr. E. Mjöberg, Sarawak Museum, Kuching, Borneo		Rec'd from Dr. E. Mjöberg
	C. W. det		

<u>ORIGINAL DETERMINATION</u>	<u>CURRENT STATUS</u>
<p>N 3545, a</p> <p>(3545) <u>Ornithodoros normandi</u> 11 CO-TYPES v. states (a) <u>Ornithodoros normandi</u> 2 slides larvae & N's</p> <p>Found in burrows of small rodents Le Kef, Tunisia VII-IV.1922 Dr. Larrousse, Lab. de Parasit., Faculte de Med., Paris. Donor Dr. Larousse det.</p> <p>See Larrousse, F. (VI, 1923) Ann. de Parasitol. I.170-177, figs. 1-4</p>	<p>N 3545, a</p> <p>RML 112581</p> <p>(3545) 7 ♀, 3 N <u>Ornithodoros normandi</u> (a) 5 N, 1 L <u>Ornithodoros normandi</u> (slide) (a) 8 L <u>Ornithodoros normandi</u> (slide) SYNTYPES</p> <p>Found in burrows of small rodents Al Kaf (36.11 N, 08.43 E), Tunisia VII.IX.1922 Dr. Larrousse Larrousse (1923: 170) original description. Fernand Larrousse (1888-1937) Received his MD in 1921. Professor on the medical faculty at Strasbourg; worked primarily on phlebotomine sandflies, especially north African species.</p>
<p>N 3546</p> <p><u>Rhipicephalus neavei</u> var. <u>punctatus</u></p> <p>Cattle Karamaja, Uganda 1923 H. Hargreaves C. W. Det.</p> <p>Gift of Imperial Bureau of Entomology, No. 1368b. Sent by Dr. G.A.K. Marshall 29.IV.1924</p>	<p>N 3546</p> <p>RML 112582</p> <p>2 ♂, 2 ♀ <u>Rhipicephalus pravus</u></p> <p>Cattle District of Karamoja (02.45 N, 34.15 E), Uganda 1923 H. Hargreaves</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	3547	N	3547
		RML	112583
	<u>Argas vespertilionis</u> 1 N		1 N <u>Argas vespertilionis</u>
	Bat (in hollow tree inhabited by)		Bat (in hollow tree inhabited by)
	Verinag, Kashmir 6000 ft.		Vernag (33.33 N, 75.15 E) Kashmir, India (1829 m)
	2.VIII.1923		2.VIII.1923
	Dr. T. Bainbrigge Fletcher (No. 7)		Dr. T. Bainbrigge Fletcher (No. 7)
	C. W. det.		
	Dr. Bainbrigge Fletcher, Imperial Entomologist, Agric. Res. Inst. Pusa, Bihar, India. Letter rec'd. 2.I.1924. Report on this & other specimens sent 16.IX.1924.		
N	3548	N	3548
		RML	78392
	<u>Ornithodoros crossi</u>		5 ♂, 7 ♀ <u>Ornithodoros tholozani</u>
	Camel		<u>Camelus dromedarius</u>
	Punjab, India		Punjab, Pakistan
	VIII.1924		VIII.1924
	Capt. H. E. Cross.		Capt. H. E. Cross.
N	3549	N	3549
		RML	71385
	<u>Ornithodoros lahorensis</u>		4 ♂, 13 ♀, 6 N <u>Ornithodoros lahorensis</u>
	Punjab, India		Punjab, Pakistan
	VIII.1924		VIII.1924
	Capt. H. E. Cross coll. & gift.		Capt. H. E. Cross coll. & gift.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3550 <u>Argas persicus</u> Punjab, India VIII.1924 Capt. H. E. Cross coll. & gift.	N	3550 MISSING
N	3551 <u>Hyalomma aegyptium</u> Calf Punjab, India VII.1924 Capt. H. E. Cross coll. & gift.	N	3551 RML 66610 1 ♂, 4 ♀ <u>Hyalomma anatolicum excavatum</u> Calf Punjab, Pakistan VII.1924 Capt. H. E. Cross coll. & gift.
N	3552 <u>Hyalomma aegyptium</u> 3 ♀ Sheep Punjab, India VII.1924 Capt. H. E. Cross coll. & gift.	N	3552 RML 71486 2 ♀ <u>Hyalomma anatolicum anatolicum</u> Sheep Punjab, Pakistan VII.1924 Capt. H. E. Cross coll. & gift. This collection also contained 1 ♀ <u>Hyalomma</u> now in the collection of Dr. H. Hoogstraal, NAMRU-3, Cairo, Egypt which was cited: Kaiser & Hoogstraal (1964: 262).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3553

Ornithodoros sp.

From ground around small trees
where kangaroos camp (not
found on kangaroos or sheep)

Sesbania, Corfield
Queensland, Australia

Sent 14.VII.1924

L. E. Cooling, Entomologist

3 slides
C. W. det.

Sender: Lancelot E. Cooling,
Entomologist Australian Inst.
of Trop. Med. Townsville,
N. Queensland, Australia.

N 3553 MISSING

Lancelot E. Cooling (1893-1924).
Served in France in W.W.I. then
worked in Laboratory of Tropical
Medicine, Egypt. In 1921, he
conducted a mosquito survey of
Western Australia and the Northern
Territory.

N 3554

Aponomma exornatum ♂'s & N's

Iguana (attached to pieces of
skin)

(a) small piece
(b) large piece
(a) Wiltshire Estate
(b) Nairira Native Reserve
S. Rhodesia

Posted to us 15.V.1924

Sent us by J. D. Coutts, Vet.
Dpt. Enkeldoork. S. Rhodesia

C. W. det.

Mounted for Museum.

N 3554 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	3555	N	3555
		RML	112584
	<u>Ixodes spinicoxalis</u> ♀		1 ♀ <u>Ixodes spinicoxalis</u>
	<u>Martes flavigula henricii</u>		<u>Martes flavigula</u>
	Andalas (Tanjung) W. Coast, Sumatra		Andalas (00.07 S, 100.41 E), Sumatra, Indonesia
	1924		1924
	Gift of E. Jacobson, Esq. Fortde-Kock, Sumatra, Dutch East Indies		Gift of E. Jacobson, Esq.
	January 1925		
	C. W. det.		
N	3556	N	3556 MISSING
	Undetermined genus		
	<u>Sphenadon punctatum</u> "The Tuatura" (a lizard)		
	New Zealand		
	24.XI.1924		
	C. Lindsay Gift 1.II.1925 from Prof. R. J. Tillyard, The Cawthron Institute, Nelson, New Zealand.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3557	N	3557
		RML	112585
	<u>Rhipicephalus sanguineus</u> ♂		1 ♂ <u>Rhipicephalus sanguineus</u>
	<u>Erinaceus roumanicus socer</u> (from ear)		<u>Erinaceus europaeus</u>
	Jerusalem, Palestine		Jerusalem (31.46 N, 35.14 E), Israel
	8.II.1925		8.II.1925
	S. Adler		S. Adler
	C. W. & G.H.F.N. det.		
	The hedgehog showed a heavy infection with parasites like <u>Piroplasma ninense</u> Yakimof 1909 and <u>Nuttalia ninense</u> Sinlon 1921 as also <u>Anaplasma</u> , according to letter of S. Adler dated 11.II.1925 from address: Microbiological Institute, Hebrew University P.O. Box 250, Jerusalem, Palestine.		Saul Adler (1895-1966) MD Leeds Univ (1919). Researcher on <u>Leishmania</u> , <u>Isospora</u> , <u>Theileria</u> and <u>Babesia</u> at Hebrew University.
N	3558	N	3558
		RML	112586
	<u>Argas vespertilionis</u> N		1 N <u>Argas vespertilionis</u>
	Pusa, India		Pusa (25.59 N, 85.41 E), India
	2.VII.1923		2.VII.1923
	C. S. Muir		C. S. Muir
	Rec'd by C. W. & particulars lost by him. G.H.F.N. 24.III.1925		
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3659	N	3559
		RML	112587
	<u>Ornithodoros lahorensis</u> 2nd N		1 N <u>Ornithodoros lahorensis</u>
	Cow		Cow
	Jerusalem, Palestine		Jerusalem (31.46 N, 35.14 E), Israel
	20.II.1925		20.II.1925
	O. Theodor, Assistant to S. Adler (see No. 3557)		O. Theodor
	C.W. & G.H.F.N. det. 23.III.1925.		
N	3560	N	3560
		RML	112588
	<u>Haemaphysalis mjobergi</u> CO-TYPE		1 ♂ <u>Haemaphysalis mjobergi</u> Lectotype
	<u>Rissa equina</u>		<u>Cervus unicolor</u>
	Mt. Poi, Sarawak		Mt. Poi, Sarawak, Malaysia (locality not verified)
	IV.1924		Sent 7.IV.1924
	Dr. E. Mjöberg, Sarawak Museum, Kuching, Sarawak		Dr. E. Mjöberg
	C.W. det.		Warburton (1926: 57) original de- scription. Cited: Kohls (1961: 305) who gave the correct host name, Hoogstraal & Wassef (1982: 138). Lectotype designated: Keirans & Brewster (1981: 163).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3561	N	3561
		RML	22286
	<u>Ixodes fecialis</u>		1 ♀, 1 N <u>Ixodes fecialis</u>
	<u>Dasyurus maculatus</u>		<u>Dasyurus maculatus</u>
	Bundanoon N. S. Wales		Either Bundanoon (34.54 S, 150.31 E) or (34.39 S, 150.18 E), New South Wales, Australia
	31.III.1925		31.III.1925
	T. Steel		T. Steel
	Sent to us by Prof. J. H. Ashworth		Three slides of dissections ♀ hypostome ♀ spiracular plate ♀ legs I & IV
N	3562	N	3562
		RML	112589
	<u>Ornithodoros gurneyi</u> CO-TYPE		1 ♂ <u>Ornithodoros gurneyi</u> Lectotype
	In old shed		In old shed
	Pindera Section, Tibbobura, N. S. Wales		Pindera Section, Tibbobura (29.26 S, 142.01 E), New South Wales, Australia
	24.II.1922		24.XI.1922
	W. B. Gurney		W. B. Gurney
	Sent to us by Dr. G.A.K. Marshall, London 1925.		Warburton (1926: 55) original description. Both catalogue and vial label date are 24.II.1922. Date in publication is 24.XI.1922. Lectotype designated: Keirans & Brewster (1981: 154).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3563	N	3563
		RML	112590
	Undetermined genus N		1 N <u>Ixodes tasmani</u>
	<u>Dasyurus maculatus</u>		<u>Dasyurus maculatus</u>
	Bundanoon, N.S. Wales		Either Bundanoon (34.54 S, 150.31 E) or (34.39 S, 150.18 E), New South Wales, Australia
	31.III.1925		31.III.1925
	T. Steel		T. Steel
	Sent by Prof. J. H. Ashworth		
	C. W. Det.		
	Curious nymph removed from 3561 (<u>Ix. fecialis</u>), coxae & spiracle right but capit. wrong.		
N	3564	N	3564
		RML	112591
	<u>Ixodes ricinus</u> ♀		1 ♀ <u>Ixodes ricinus</u>
	Herbage		Herbage
	Llwyngwriil, Merionethshire, Wales		Llwyngwriil (52.40 N, 04.05 W), Wales
	15.VIII.1925		15.VIII.1925
	Dr. H. Scott		Dr. H. Scott
	G.H.F.N. det. 2.X.1925		Hugh Scott (1885-1960), Sc.D. (1919) Trinity College, Cambridge. Distinguished entomologist and biogeographer. He was interested in East African and South West Arabian Coleoptera, where the Palearctic and Ethiopian faunal elements meet and overlap. Assistant Keeper of Entomology British Museum (Nat. Hist.) 1930-1948.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3565	N	3565
		RML	112592
	<u>Aponomma laeve</u> var. <u>paradoxum</u> ♂'s		21 ♂ <u>Aponomma pattoni</u>
	Rat snake		<u>Ptyas mucosus</u>
	Bangalore, South India		Bangalore (12.59 N, 77.35 E), India
	IV.1925, Rec'd 26.X.1925		IV.1925, Rec'd. 26.X.1925
	Dr. H. H. Marshall		Dr. H. H. Marshall
	C. W. det. 30.X.1925		
N	3566	N	3566
		RML	112593
	<u>Ixodes hexagonus</u> 3 ♀'s		2 ♀ <u>Ixodes hexagonus</u>
	<u>Mustela putorius</u>		<u>Mustela putorius</u>
	Zoological Gardens, London (received alive)		Zoological Gardens, London (51.30 N, 00.07 W), England
	31.X.1925		31.X.1925
	Dr. H. H. Scott		Dr. H. H. Scott
	C. W. det.		
N	3567	N	3567
		RML	112594
	<u>Amblyomma testudinarium</u>		1 ♂, 2 ♀, 9 L <u>Amblyomma testudinarium</u>
	1 ♂, 2 ♀ larvae		
	An adult on "wild pig". Larvae off man. 2 adults on ground		One adult on <u>Sus scrofa</u> . Larvae on <u>Homo sapiens</u> . Two adults on ground.
	Sarawak, Borneo		Sarawak, Malaysia
	Rec'd 2.VI.1926		Rec'd. 2.VI.1926
	Murray Pollock		Murray Pollock
	Gift to G.H.F.N.		
	C. W. det. 5.VI.1926.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3568

Amblyomma cordiferum 1 ♀

Snake

Vailele, near Apia, Upolu Is.,
Samoa

18.I.1925

P. A. Buxton & Hopkins
(P.A.B. donor)

L.E.R. det.

N 3568

RML 22310

1 ♀ Amblyomma cordiferum

Snake

Vailele, near Apia (13.50 S, 171.44 W),
Upolu Island, Western Samoa

18.I.1925

P. A. Buxton and G.H.E. Hopkins

Three slides of dissections
♀ hypostome
♀ spiracular plate
♀ legs I & IV

N 3569

Amblyomma quasicyprum ♀

On grass

Tanna, S. New Hebrides

IX.1925

P. A. Buxton

L.E.R. det. VI.1926.

N 3569

RML 112595

1 ♀ Amblyomma cyprum

On grass

Tanna Island (19.30 S, 169.20 E),
Vanuatu

IX.1925

P. A. Buxton

Note by Santos Dias in vial "Amblyomma quasicyprum Robinson, 1926 is not a valid species. After the examination of all type material I concluded that this species is synonymous of A. cyprum and A. breviscutatum this last having priority.

We shall be consider:

Amblyomma breviscutatum

SIN:

A. cyprum Max & NnA. quasicyprum Rob."

ORIGINAL DETERMINATIONCURRENT STATUS

N	3570	N	3570
		RML	112596
	<u>Amblyomma cyprium</u> ♂		1 ♂ <u>Amblyomma cyprium</u>
	Biting man		<u>Homo sapiens</u>
	Mai Island, New Hebrides		Ile Emae' (17.04 S, 168.24 E), Vanuatu
	23.VI.1925		23.VI.1925
	P. A. Buxton		P. A. Buxton
	L.E.R. det. VI.1926.		
N	3571	N	3571
		RML	112597
	<u>Rhipicephalus sanguineus</u> ♂, ♀		1 ♂, 1 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Apia, Upolu Is. Samoa		Apia (13.50 S, 171.44 W), Upolu Island, Western Samoa
	IX.1925		IX.1925
	P. A. Buxton & Hopkins		P. A. Buxton & G.H.E. Hopkins
	C. W. det. VI.1926.		
N	3572	N	3572
		RML	112598
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		10 ♂, 19 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Apia, Upolu Is. Samoa		Apia (13.50 S, 171.44 W), Upolu Island, Western Samoa
	VI.1924		VI.1924
	P. A. Buxton & Hopkins		P. A. Buxton & G.H.E. Hopkins
	C. W. det. VI.1926.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3573	N	3573
		RML	112599
	<u>Rhipicephalus sanguineus</u>		4 ♂, 6 ♀, 1 N <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Apia, Upolu Is., Samoa		Apia (13.50 S, 171.44 W), Upolu Island, Western Samoa
	IV.1924		IV.1924
	P. A. Buxton & Hopkins		P. A. Buxton & G.H.E. Hopkins
	C. W. det. VI.1926.		
N	3574	N	3574 MISSING
	<u>Amblyomma cajennense</u> ♀ <u>a curio</u>		
	Unknown		
	Jamaica, W.I. most probably		
	Sent to me 4.III.1926		
	Prof. Robt. Newstead, F.R.S. Liverpool		
	L.E.R. det. 13.III.1926		
	<p><u>A curiosity</u> Semi-gorged ♀ with appearance of having ornate discs on venter, found in Newstead's "stockpot" for use of students, no particulars, asks for particulars. L.E. Robinson examined it & 13.III.26 reported that the supposed "plaques" were doubtless artifacts due to specimen drying against surface of bottle & adhering thereto, the surfaces in contact with glass becoming glazed like a photographic print, the remaining cuticle has become dried and shrivelled, hence the contrast. The cuticle of the "plaques" is perfectly normal. I note that the sham "plaques" are remarkably symmetrical!</p>		
	G.H.F.N. 14.VI.1926.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3575

N 3575

RML 112600

Ixodes vespertilionis larva1 L Ixodes vespertilionis

Bat ("16")

Bat

Tsinan, Shantung, China

Tsinan (36.40 N, 117.00 E), Shantung
Province, Peoples Republic of China

11.VIII.1925

11.VIII.1925

Dr. E. Hindle

Dr. E. Hindle

G.H.F.N. & C.W. det. 12.III.1926.

N 3576

N 3576

RML 22294

Haemaphysalis campanulata (dry)65 ♂, 36 ♀, 48 N Haemaphysalis campanulata

Dogs

Dogs

Tsinan, Shantung, China

Tsinan (36.40 N, 117.00 E), Shantung
Province, Peoples Republic of China

IX-X.1925

IX-X.1925

Dr. E. Hindle

Dr. E. Hindle

C. W. det. 12.III.1926

Six slides of dissections

♂ & ♀ hypostome

♂ & ♀ spiracular plates

♂ & ♀ legs I & IV.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3577

N 3577 MISSING

Hyalomma scupense 2 ♂, 1 ♀Bos bovis

Uskub [Yugoslavia]

II.1918, rec'd by me 24.IV.1926

Donor Prof. P. Schulze, Zool.
Inst., Rostock, Mecklenburg

P. Schulze det.

Prof. P. Schulze wrote on
22.IV.1926:- (translated) Sending
species again. They were killed
in Carnoy & as result show colour
better than when killed in
alcohol. The statement by him-
self & "Chodziumer" that this
tick has a brown "Parma" was
doubtless due to browning in
alcohol. G.H.F.N. 15.VI.1926.

N 3578

N 3578

RML 112601

Amblyomma supinoi 2 ♂2 ♂ Amblyomma supinoiGeomyda tricarinata
(on fleshy part)Melanochelys tricarinata

Sornapur, Assam

Sornapur, Assam (26.00 N, 93.00 E), India

Sent for det. 17.VI.1919

Sent for det. 17.VI.1919

C. W. Middleton

C. W. Middleton

Indian Mus. $\frac{2426}{17}$
(2 kept, 3 returned)

L.E.R. & C.W. det. 1926.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3579

N 3579

RML 112602

Ixodes hexagonus1 ♀ Ixodes hexagonus

Sender says, "Introduced in a parcel of bananas."

Sender says, "Introduced in a parcel of bananas."

(British no doubt)

England (no doubt)

Rec'd 14.VI.1926

Rec'd. 14.VI.1926

Geo. B. Walch, Linthorpe, Stepney Drive, Scarborough, England

George B. Walch

C.W. & G.H.F.N. det. VI.1926.

N 3580

N 3580 MISSING

Ixodes sp.Jackdaw, picked up dying.
Many on head

Scarborough, England

Rec'd 14.VI.1926

Geo. B. Walch, Linthorpe, Stepney Drive, Scarborough, England

C.W. & G.H.F.N. det. VI.1926.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3581	N	3581
		RML	112603
	<u>Ixodes theodori</u> 1 ♀		1 ♀ <u>Ixodes acuminatus</u>
	TYPE		Holotype of <u>I. theodori</u>
	Man		<u>Homo sapiens</u>
	Nahalal, Palestine		Nahalal (32.41 N, 35.12 E), Israel
	I.1926		I.1926
	Sent by Dr. Oskar Theodor, Hebrew Univ. Palestine on 20.IV.1926		Sent by Dr. Oskar Theodor
			Warburton (1927: 405) original description
	<u>N.O. Olenev (1929) C.R. Acad, Sci. URSS, pp. 489-494 says this is his <u>Ix. redikortsevi</u>, described in vol. for 1927, p. 219.</u>		
N	3582	N	3582
		RML	112604
	<u>Haemaphysalis cinnabarina</u> var. <u>punctata</u>		2 ♂, 1 ♀ <u>Haemaphysalis sulcata</u>
	Camel		<u>Camelus dromedarius</u>
	Kalendieh, Palestine		Kalendieh, Israel (locality not verified)
	II.1926		II.1926
	Sent by Dr. Oskar Theodor, Hebrew, Univ., Palestine on 20.IV.1926		Sent by Dr. Oskar Theodor
	C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3583	N	3583 MISSING
	<u>Ornithodoros</u> sp.		
	In fowl house (in cracks)		
	Kalendieh, Palestine		
	II.1926		
	Sent by Dr. Oskar Theodor, Hebrew Univ., Palestine on 20.IV.1926		
N	3584	N	3584
	<u>Amblyomma latum</u> 2 ♂	RML	112605
	" <u>Hemop. areolata</u> "		2 ♂ <u>Amblyomma sylvaticum</u>
	Natal		<u>Homopus areolatus</u>
	1852.II.5		Natal, Republic of South Africa
	From Vienna Museum No. 16 came labelled " <u>Ixodes</u> sp."		1852.II.5
	C.W. & G.H.F.N. det.		From Vienna Museum No. 16 came labelled " <u>Ixodes</u> sp."
			Cited: Warburton (1927: 410)
			The numbers 1852.II.5 probably do not refer to a date - see 3585.

ORIGINAL DETERMINATIONCURRENT STATUS

N	<p>3585, a</p> <p>(3585) <u>Amblyomma latum</u> 2 ♂ (a) <u>Amblyomma latum</u> 1 N</p> <p>No particulars obtainable from Vienna Mus. over & above those on labels of 3584 & 3585</p> <p>1856.I.35</p> <p>From Vienna Museum No. 22 "H.16 Zaleb" on label</p> <p>C.W. & G.H.F. det.</p> <p>Unique in being <u>the only</u> <u>Amblyomma nymph</u> yet known to be ornate. See Warburton (1927) <u>Parasitology</u> vol. 19, p. 410, fig. 4 (scutum).</p>	N	<p>3585, a</p> <p>RML 112606</p> <p>(3585) 2 ♂ <u>Amblyomma sylvaticum</u> (a) 1 N <u>Amblyomma sylvaticum</u></p> <p>No particulars obtainable from Vienna Mus. over & above those on labels of 3584 & 3585</p> <p>1856.I.35</p> <p>From Vienna Museum No. 22 "H.16 Zaleb" on label</p> <p>Cited & (a) figured: Warburton (1927: 410) who stated that Vienna tube No. 22 contained 10 ♂ and a nymph.</p>
N	<p>3586</p> <p><u>Ixodes hexagonus</u> 1 ♀</p> <p>In nest of mole (<u>Talpa europaea</u>)</p> <p>Water Eaton, Oxon., England</p> <p>22.II.1925</p> <p>T. Collins, rec'd alive from Prof. E. B. Poulton, Oxford 28.II.1925</p> <p>C.W. & G.H.F.N. det.</p>	N	<p>3586</p> <p>RML 112607</p> <p>1 ♀ <u>Ixodes hexagonus</u></p> <p><u>Talpa europaea</u> (nest of mole)</p> <p>Water Eaton (51.48 N, 01.16 W), England</p> <p>22.II.1925</p> <p>T. Collins</p> <p>Edward Bagnall Poulton (1856-1943) Hope Professor, Oxford University (1893-1933), expert on mimicry, President, 2nd International Congress of Entomology.</p>

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3587</p> <p><u>Amblyomma astrion</u> 3 ♂, 2 ♀</p> <p>Buffalo</p> <p>Binga Pan, Queve River, Novo Redondo, Angola</p> <p>1926</p> <p>Sent 20.XII.1926 by G.H.A. [sic] Bedford to Dr. L. E. Robinson who presented them to our coll 16.III.1927</p> <p>L.E.R. det. 16.III.1927</p> <p>G.H.A. Bedford, Dept. of Agric., Division of Veter. Educ. & Research, P.O. Box 593, Pretoria, Union of S. Africa - who under- stands about ticks.</p>	<p>N 3587</p> <p>RML 112608</p> <p>2 ♂, 2 ♀ <u>Amblyomma astrion</u> 1 ♂ <u>Amblyomma cohaerens</u></p> <p><u>Syncerus caffer</u></p> <p>Binga Pan, Rio Cuvo, Nova Redondo (11.13 S, 13.50 E), Angola</p> <p>1926</p> <p>Sent 20.XII.1926 by G.A.H. Bedford</p> <p>Gerald Augustus Harold Bedford (1891- 1938). Born in England in May 1891. He worked with F. V. Theobald at the British Museum (Nat. Hist.). In 1920 he became Research Officer at Onderstepoort Veterinary Laboratory, a post he held until his death.</p>
<p>N 3588</p> <p><u>Rhipicephalus evertsi</u> N's</p> <p>Heifer (on which 3 <u>Rhip.</u> <u>appendiculatus</u> had been put for experiment!)</p> <p>Salisbury, S. Rhodesia (Agricult. Lab.)</p> <p>1927</p> <p>J. Isgair Roberts (Sent by L.E.R. for confirmation of J.I.R.'s determination 16.V.1927).</p> <p>C. W. det.</p> <p>Report sent to L.E.R. 21.V.1927. asked to keep them. J.I. Roberts Entomologist.</p>	<p>N 3588</p> <p>RML 112609</p> <p>40 N <u>Rhipicephalus evertsi</u></p> <p>Cattle</p> <p>Salisbury (17.50 S, 31.03 E), Zimbabwe</p> <p>1927</p> <p>J. Isgair Roberts</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N	3589	N	3589
	<u>Hyalomma aegyptium</u> N		<u>Hyalomma</u> sp. This collection and N1826a were in the past combined and are now in one vial. Because they were from different hosts and countries no attempt has been made to segregate and identify this material and it has not been assigned an RML number.
	Dog (its head)		
	Cyprus		
	Rec'd 4.X.1926		
	A. W. Noël Pillars Wavertree, Liverpool		
	C.W. det.		
N	3590	N	3590
	<u>Ornithodoros gurneyi</u>	RML	112610
	(Specific host unknown)		1 N <u>Ornithodoros gurneyi</u>
	Woolfield, Queensland, Australia		(Specific host unknown)
	Sent us 28.IV.1927		Woolfield, Queensland, Australia (locality not verified)
	Gift of Frank H. Taylor		Sent us 28.IV.1927
	C. W. det.		Gift of Frank H. Taylor
	(see also 3562). This lot presented by F. H. Taylor, Australian Inst. of Tropical Med. Townsville, N. Queensland. Thanked 14.VI.1927 G.H.F.N. [See <u>Parasitology</u> vol. 18 p. 55.]		Frank Henry Taylor (1886-1947) carried out surveys of Diptera in New Guinea and northern Australia. He also investigated dengue. Died in New South Wales.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3591

N 3591

Ixodes tasmani 1 ♀, 1 N

RML 22290

1 ♀, 1 N Ixodes tasmaniSarcophilus sp. (a marsupial)Sarcophilus harrisii

Locality not stated

Undoubtedly Tasmania, Australia

Rec'd 3.VI.1927

Rec'd. 3.VI.1927

Gift of Prof. R. Matheson

Gift of Prof. R. Matheson

Prof. R. Matheson, Cornell
 Univ. Ithaca, N.Y., U.S.A.
 Thanked for gift 14.VI.1927.
 G.H.F.N.

N 3592

N 3592

Ixodes tenuirostris
♂, ♀ in copula

RML 112611

1 ♂, 1 ♀ Ixodes triangulicepsArvicola amphibiusArvicola terrestris

Quy, Cambridgeshire

Quy (52.13 N, 00.13 E), Cambridgeshire,
England

23.V.1925

G. E. Pickford & G. E.
Hutchinson

C. W. det.

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	3593	N	3593
		RML	112612
	<u>Ixodes tenuirostris</u> N		2 N <u>Ixodes trianguliceps</u>
	<u>Arvicola amphibius</u> (off ear)		<u>Arvicola terrestris</u>
	Quy, Cambridgeshire, England		Quy (52.13 N, 00.13 E), Cambridgeshire, England
	23.V.1925		23.V.1925
	G. E. Pickford & G. E. Hutchinson		G. E. Pickford & G. E. Hutchinson
	C. W. det.		
N	3594	N	3594
		RML	112613
	<u>Ixodes arvicolae</u> 3 ♀ COTYPES		2 ♀ <u>Ixodes arvicolae</u> Paralectotypes
	<u>Arvicola amphibius</u> (from nest)		<u>Arvicola terrestris</u>
	Quy, Cambridgeshire, England		Quy (52.13 N, 00.13 E), Cambridgeshire, England
	21-23.V.1925		21-23.V.1925
	G. E. Pickford & G. E. Hutchinson		G. E. Pickford & G. E. Hutchinson
	C. W. det.		Warburton (1925: 56) original description. Paralectotypes designated: Keirans & Brewster (1981: 164).
	See Warburton (1926) <u>Parasitology</u> vol. 18 p. 55.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3595	N	3595
		RML	112614
	<u>Ixodes arvicolae</u> 1 ♀ TYPE		1 ♀ <u>Ixodes arvicolae</u> Lectotype
	<u>Arvicola amphibius</u>		<u>Arvicola terrestris</u>
	Quy, Cambridgeshire, England		Quy (52.13 N, 00.13 E), Cambridgeshire, England
	23.V.1925		23.V.1925
	G. E. Pickford & G. E. Hutchinson		G. E. Pickford & G. E. Hutchinson
	C. W. det.		Warburton (1913: 56) original description. Lectotype designated; Keirans & Brewster (1981: 164).
N	3596	N	3596
		RML	112615
	<u>Ixodes arvicolae</u> 2 ♀		2 ♀ <u>Ixodes acuminatus</u> Syntypes of <u>Ixodes guernseyensis</u>
	<u>Apodemus sylvaticus</u> (38)		<u>Apodemus sylvaticus</u>
	Jerborg, Guernsey		Jerbourg Point (49.25 N, 02.32 W), Guernsey, Channel Islands, England
	4.II.1925		4.II.1925
	C. W. det.		Arthur (1955: 138) original description of <u>I. guernseyensis</u>
			Both ♀ missing capituli
			Four slides of dissections
			♀ capitulum
			♀ scutum
			♀ spiracular plate
			♀ leg I

ORIGINAL DETERMINATIONCURRENT STATUS

N	3597	N	3597
		RML	112616
	<u>Haemaphysalis montgomeryi</u> ♂, ♀		17 ♂, 27 ♀ <u>Haemaphysalis montgomeryi</u>
	Cattle		Cattle
	Bhowali, United Provinces, India (6000 ft.)		Bhowali (29.23 N, 79.31 E), India (1829 m)
	V-VII.1925		V-VII.1925
	S. Sundar Rao		S. Sundar Rao
	C. W. det.		
	S. S. Rao, Fairy Cottage, Bhowali, U.P., India.		
N	3598	N	3598
		RML	22322
	<u>Haemaphysalis montgomeryi</u> ♂'s, ♀'s		41 ♂, 20 ♀ <u>Haemaphysalis montgomeryi</u>
	Sheep		Sheep
	Bhowali, United Provinces India (6000 ft.)		Bhowali (29.23 N, 79.31 E), India (1829 m)
	VI-VII.1925		VI-VII.1925
	S. Sundar Rao		S. Sundar Rao
	C. W. det.		Cited: Hoogstraal et al (1966: 180). Two additional ♂ and ♀ of this lot are in the RML collection.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3599

Haemaphysalis lagrangei
CO-TYPECervulus muntjac

Nhatrang, Annam

Gift 28.I.1927

Gift of Dr. Larrousse
Lab. de Parasitol. etc.
(see 3545)See F. Larrousse (1925)
Annales de Parasitol. etc.
III.301.

N 3599

RML 112617

1 ♂ Haemaphysalis lagrangei
ParalectotypeMuntiacus muntjac

Nha Trang (12.15 N, 109.11 E), Vietnam

Gift 28.I.1927

Gift of Dr. Larrousse

Larrousse (1925: 304) original description.
Trapido (1965: 159) selected the
lectotype and cited this collection.
Cited: Hoogstraal & Trapido (1966: 1193);
Hoogstraal et al. (1973b: 1118).

N 3600

Argas vespertilionis

Found on verandah

Bhowali, U.P., India

6.V.1925

S. S. Rao
(see 3597)

N 3600

RML 112618

1 ♀ Argas vespertilionis

Found on verandah

Bhowali (29.23 N, 79.31 E), India

6.V.1925

S. S. Rao

ORIGINAL DETERMINATIONCURRENT STATUS

N	3601	N	3601
		RML	112619
	<u>Amblyomma crenatum</u> 2 ♂, 1 ♀		2 ♂, 1 ♀ <u>Amblyomma crenatum</u>
	<u>Rhinocerus</u>		<u>Rhinoceros sondaicus</u>
	Kuala Lumpur, F.M.S.		Kuala Lumpur (03.10 N, 101.42 E), Malaysia
	Rec'd III.1927		Rec'd III.1927
	Picked by C. W. from Lond. Sch. of Trop. Med. coll. III.1927.		Picked by C. W. from Lond. Sch. of Trop. Med. coll. III.1927.
	C. W. det.		
N	3602	N	3602
		RML	112620
	<u>Amblyomma personatum</u> 5 ♂'s		4 ♂ <u>Amblyomma personatum</u>
	<u>Rhinocerus</u>		<u>Diceros bicornis</u>
	Nairobi, E. Africa		Nairobi (01.17 S, 36.49 E), Kenya
	Rec'd III.1927		Rec'd III.1927
	Picked by C. W. from Lond. Sch. of Trop. Med. coll. III.1927.		Picked by C. W. From Lond. Sch. of Trop. Med. coll. III.1927.
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3603

N 3603

Amblyomma loculosum
2 ♂, 4 ♀, N's & L's

RML 22314, RML 83010, RML 104088

2 ♂, 4 ♀, 6 N, 44 L Amblyomma loculosum

Men and N's, L's off Noddy Tern

Homo sapiens
Anous stolidusMichaelmas Cay, off
Cairns, QueenslandMichaelmas Cay (16.36 S, 145.59 E)
Queensland, Australia

V-VI.1926. Sent 10.VIII.1926

V-VI.1926

Picked from lots of Australian
Mus., Sydney Tube K55062
-3-5-72T. Iredale and G. P. Whitney
(Great Barrier Reef Boring
Expedition)

G.H.F.N. & C. W. det.

Cited: Hoogstraal et al (1976: 12)
who gave the collectors' names.Report sent X.1926 to W. T. Wells,
Sec'y. of Austral. Mus., Sydney.
Many on bodies of collectors and
men sinking a bore, 8 ft. above
high water.

N 3604

N 3604

Ornithodoros crossi
1 emerging from N

RML 112621

1 N Ornithodoros tholozani

Rec'd III.1927

Rec'd III.1927

Picked by C. W. from Lond. Sch.
of Trop. Med. coll. III.1927.Picked by C. W. from Lond. Sch. of
Trop. Med. coll. III.1927.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3605	N	3605
		RML	112622
	<u>Ornithodoros talaje</u>		11 ♂, 4 ♀, 1 N <u>Ornithodoros talaje</u>
	Colombia		Colombia
	Rec'd III.1927		Rec'd III.1927
	Dr. E. J. Pampane		Dr. E. J. Pampane
	Picked by C. W. from Lond. Sch. of Trop. Med. coll. III.1927.		One ♀ <u>Haemaphysalis montgomeryi</u> (RML 105679), a Himalayan species was found floating in the alcohol containing the <u>O. talaje</u> specimens.
N	3606	N	3606
		RML	112623
	<u>Rhipicephalus appendiculatus</u>		223 ♂, 38 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	E.C.F. Camp, Kabete, Kenya Colony		East Coast Fever Camp, Kabete (01.16 S, 36.43 E), Kenya
	13-15.I.1926		13-15.I.1926
	Sent by J. B. Purvis to the I.B.E., spec's. picked by C. W. from "Tube 1420."		Sent by J. B. Purvis to the I.B.E., spec's. picked by C. W. from "Tube 1420."
N	3607	N	3607 MISSING
	<u>Boophilus</u> alleged to be <u>annulatus</u> (♂'s with short tails)		
	Belazi, Honduras, Central America		
	Rec'd III.1927		
	Picked from Lond. Sch. Trop. Med. coll. by C. W.		
	<u>B. australis</u> ? C. W. 1933.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3608

N 3608

RML 112624

Amblyomma clypeolatum ♂'s, 1 ♀, N2 ♂, 1 ♀, 1 N, 1 L Amblyomma clypeolatumTestudo elegansGeochelone elegans

Near shore, West Coast of Ceylon

West Coast of Sri Lanka (near shore)

Rec'd I.1912

Rec'd I.1912

Picked from Indian Mus.
coll. No. $\frac{1177}{17}$ Picked from Indian Mus. coll. No. $\frac{1177}{17}$ (See our Tick Catal. p. 70:
No's 801-3500)Nuttall 1512 also has Indian Museum
No. $\frac{1177}{17}$ C. Warburton det'd as A.
atrogenatum, now degraded

Rare

L.E.R. det.

N 3609

N 3609

RML 112625

Amblyomma dissimile 1 ♂1 ♂ Amblyomma dissimileIguana tuberculataIguana tuberculataCentral or South America:
wrongly labelled IndiaCentral or South America:
wrongly labelled India

22.VI.1912

22.VI.1912

Z.S. 37

See N 1522 for a similar case [J.E.K.]

L.E.R. det. 1926.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3610	N	3610
		RML	112626
	<u>Amblyomma gemma</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Amblyomma gemma</u>
	Somali, Afrique Orientale		Somali Democratic Republic
	Rec'd 5.VIII.1927		Rec'd 5.VIII.1927
	Dr. G. Franchini, Bologna, Italy		Dr. G. Franchini
	C. W. det.		
N	3611	N	3611
		RML	22309
	<u>Amblyomma clypeolatum</u> 3 ♂, 1 ♀		3 ♂, 1 ♀ <u>Amblyomma falsomarmoreum</u>
	Somaliland		Somali Democratic Republic
	Rec'd 5.VIII.1927		Rec'd 5.VIII.1927
	Dr. G. Franchini, Bologna, Italy		Dr. G. Franchini
	C. W. det.		3 slides of ♂ dissections legs I & IV spiracular plate hypostome
N	3612	N	3612
		RML	112627
	<u>Hyalomma aegyptium</u> 3 ♂, 2 ♀		3 ♂, 2 ♀ <u>Hyalomma anatolicum excavatum</u>
	Tripoli, Afrique Nord		Tripoli (32.54 N, 13.11 E), Libya
	Rec'd VIII.1927		Rec'd VIII.1927
	Dr. G. Franchini, Bologna, Italy		Dr. G. Franchini
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3613	N	3613
		RML	112628
	<u>Ornithodoros savignyi</u> 1 adult		1 N <u>Ornithodoros savignyi</u>
	Rec'd VIII.1927		Rec'd VIII.1927
	Dr. G. Franchini, Bologna, Italy		Dr. G. Franchini
	C. W. det.		
N	3614	N	3614
		RML	80174
	<u>Haemaphysalis toxopei</u> 3 ♂, 1 ♀		<u>Haemaphysalis toxopei</u> ♂ Lectotype, 2 ♂, 1 ♀ Paralectotypes
	Bat		Bat
	Buru, Moluccas		Buru Island (03.24 S, 126.40 E), Moluccas Islands, Indonesia
	Rec'd XII.1926		Rec'd XII.1926
	Mr. L. J. Toxopeus, Leader of Buru Exped. 1921/1922		Mr. L. J. Toxopeus
	C. W. det.		Warburton (1927: 407) original description; Hoogstraal (1964a: 778) selected lectotype. ♀ vulva mounted on a slide. Prof. Dr. L. J. Toxopeus (d. 1951). Specialist in Lepidoptera especially Lycaenidae and Hesperidae of Indonesia and leader of the Entomological Association of Indonesia. Died 21 April 1951 in a traffic accident.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3615

N 3615

Amblyomma dammermani 1 ♀
CO-TYPE

RML 112629

1 ♀ Amblyomma cyprum
Holotype of A. dammermaniKei-eil (102 Goeneng Daab,
Groot Kei, pl. m. 300 MKei Islands (05.35 S, 132.45 E),
102 Goenoeng Daab (Groot Kei) pl. m.
300 M, Indonesia

1922

6.IV.1922

H. C. Sibers coll.

H. C. Sibers coll.

Sent by Dr. K. U. Damerman, Java

Warburton (1927: 409) original
description

C.W. & L.E.R. det.

Dr. Karel Willem Dammerman (1885-1951).
Traveled to Java in 1910 where in 1919
he became head of the Zoological Museum
of the National Botanical Gardens.
Returned to the Netherlands in 1939.
Author of "Animals of Agricultural
Importance in East India" (1919);
"The Agricultural Zoology of the Malay
Archipelago" (1929) and "The Fauna of
Krakatau, 1883-1933" (1948).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3616	N	3616
		RML	112630
	<u>Amblyomma cordiferum</u> 4 ♀		4 ♀ <u>Amblyomma cordiferum</u>
	Python		Python
	Krakatau		Krakatoa Island (06.07 S, 105.24 E), Indonesia
	VII.1924		VII.1924
	Dr. K. U. Dammerman		Dr. K. U. Dammerman
	C.W. & L.E.R. det		
	Received from Dr. K. U. Dammerman Director of Zool. Mus., Buitenzorg, Java 11.VIII.1926, rec't. acknowl- edged 13.VIII.1926. Report sent 27.IX.1927 (see Report Book pp. 66, 67.). The n. spp. descr. by Warb- urton (1927) in Parasitology, vol... p...		
N	3617	N	3617
		RML	112631
	<u>Amblyomma robinsoni</u> 3 ♂, 1 ♀ CO-TYPES		3 ♂, 1 ♀ <u>Amblyomma robinsoni</u> Lectotype and paralectotypes
	<u>Varanus komodoensis</u>		<u>Varanus komodoensis</u>
	Komodo		Komodo Island (08.36 S, 119.30 E), Lesser Sunda Islands, Indonesia
	VII.1923		VII.1923
	Museum Buitenzorg, Java		Museum, Bogor, Java
	C.W. & L.E.R. det.		Warburton (1927: 408) original descript- ion. Lectotype designated: Keirans & Brewster (1981: 156, 157).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3618	N	3618 MISSING
	<u>Ornithodoros</u>		
	Villages near Jerusalem, Palestine		
	Rec'd 9.IX.1927 alive		
	Sent by Dr. Oskar Theodor		
N	3619	N	3619 MISSING
	<u>Ornithodoros</u>		
	Chickens		
	Chicken house near Jerusalem, Palestine		
	7.V.1927 (collected)		
	Rec'd. 9.IX.1927 in alcohol		
	Sent by Dr. Oskar Theodor.		
N	3620	N	3620
		RML	112632
	<u>Ixodes canisuga</u> 2 ♀'s		2 ♀ <u>Ixodes crenulatus</u>
	Badger		<u>Meles meles</u>
	Palestine		Israel
	VII.1927		VII.1927
	Sent by Dr. Oskar Theodor		Sent by Dr. Oskar Theodor

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3621</p> <p><u>Ornithodoros maroccanus</u></p> <p>Pig, man</p> <p>Bournika, Morocco</p> <p>Rec'd 17.XI.1927 from Dr. F. Larrousse</p> <p>E. Brumpt</p> <p>E. Brumpt det.</p> <p>See Brumpt's <u>Précis de Paras.</u> 4th ed. 1927. Specimens raised in his lab. & sent me by his assistant Dr. Larrousse.</p>	<p>N 3621</p> <p>RML 112633</p> <p>2 ♂, 6 ♀, 2 N <u>Ornithodoros erraticus</u></p> <p><u>Sus scrofa</u> & <u>Homo sapiens</u></p> <p>Bournika, Morocco (locality not verified)</p> <p>Rec'd 17.XI.1927 from Dr. F. Larrousse</p> <p>E. Brumpt</p> <p>4 cast skins present also</p>
<p>N 3622</p> <p><u>Ornithodoros coniceps</u></p> <p>Pigeon, man</p> <p>Dept. Aude, France</p> <p>Rec'd 17.XI.1927 from Dr. F. Larrousse</p> <p>E. Brumpt</p> <p>E. Brumpt det.</p>	<p>N 3622</p> <p>RML 107234</p> <p>5 ♂, 1 N <u>Ornithodoros coniceps</u></p> <p><u>Columba livia</u> & <u>Homo sapiens</u></p> <p>Département de l'Aude (43.05 N, 02.30 E), France</p> <p>Rec'd 17.XI.1927 from Dr. F. Larrousse</p> <p>E. Brumpt</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N 3623

N 3623

RML 66617

Ornithodoros crossi1 ♀ 2 N Ornithodoros tholozani
1 ♂ Ornithodoros lahorensis

Camel, etc.

Camelus dromedarius, etc.

Punjab, India

Punjab, Pakistan

Rec'd 17.XI.1927 from
Dr. F. Larrousse

Rec'd 17.XI.1927 from Dr. F. Larrousse

H. E. Cross

H. E. Cross

E. Brumpt det.

N 3624

N 3624

RML 112634

Ixodes dentatus ♂'s, ♀'s
in copula6 ♂, 9 ♀ Ixodes pomerantziSilvilagus ecaudatusSilvilagus brasiliensis andinus

Pichincha, Ecuador 4000 m

Either Pichincha (00.43 S, 75.17 W)
or (01.01 S, 79.49 W), Ecuador (4000 M)

1927

1927

Dr. S. Spillmann S 20

Dr. S. Spillmann S 20

Received from Dr. K. Jordan,
Tring 3.I.1928

G.H.F.N. & C.W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3625

N 3625

Ixodes spinicoxalis 2 N's2 N Ixodes sp.Microtus nov. sp.Microtus sp.

Cotopaxi, Ecuador above 5000 m

Probably Cotopaxi Mtn. (00.40 S,
78.26 W), Ecuador (5000 m)

1927

1927

Dr. Spillmann "M2"

Dr. Spillmann "M2"

Received from Dr. K. Jordan,
Tring 3.I.1928

G.H.F.N. & C.W. det.

3625 undetermined as yet;
much like Ix. tenuirostris N!

N 3626

N 3626

Ixodes anatis 3 ♀3 ♀ Ixodes anatis"Canada Goose", Bernicla
canadensisBranta canadensis

New Plymouth, New Zealand

New Plymouth (39.04 S, 174.05 E),
New Zealand

1927

1927

W. H. Smith
Dr. R. J. Tillyard, Nelson,
N. Zealand sender.

W. H. Smith

C.W. & G.H.F.N. det

Robin John Tillyard (1881-1937)
Educated at Queens College, Cambridge;
in 1928 became Commonwealth Entomologist
for Australia; expert in Odonata and
Neuroptera. He was killed in an auto
accident in Australia, 13.I.1937.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3627	N	3627
		RML	112637
	<u>Haemaphysalis campanulata</u> 1 ♂		1 ♂ <u>Haemaphysalis campanulata</u>
	Badger (young) skin 95		<u>Meles meles</u>
	<u>Meles chinensis</u>		
	Tsinan, Shantung, China		Tsinan (36.40 N, 117.00 E), Shantung, Peoples Republic of China
	2.VII.1926		2.VII.1926
	Dr. E. Hindle donor 11.I.1928		Dr. E. Hindle donor 11.I.1928
	C. W. det. 28.I.1928		
	3627, 3628, 3629 - Scientific names of hosts supplied 14 Jan. 1928 by Mt. Oldfield Thomas, Brit. Mus. to whom the skins as numbered went. G.H.F.N. 16.I.1928.		
N	3628	N	3628
		RML	112638
	<u>Argas vespertilionis</u> larvae		6 ♀ <u>Argas vespertilionis</u>
	Bat No. 92 (young)		<u>Eptesicus serotinus</u>
	<u>Eptesicus serotinus</u>		
	Tsinan, Shantung, China		Tsinan (36.40 N, 117.00 E), Shantung, Peoples Republic of China
	2.VII.1926		2.VII.1926
	Dr. E. Hindle donor 11.I.1928		Dr. E. Hindle donor 11.I.1928
	G.H.F.N. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3629

Ixodes vespertilionis
1 N, 1 larvaBat No. 93, Rhinolophus
ferrum-equinum nippon

Tsinan, Shantung, China

2.VII.1926

Dr. E. Hindle donor 11.I.1928

G.H.F.N. det.

N 3629

RML 112639

1 N, 1 L Ixodes vespertilionisRhinolophus ferrumequinum nipponTsinan (36.40 N, 117.00 E), Shantung,
Peoples Republic of China

2.VII.1926

Dr. E. Hindle donor 11.I.1928

N 3630

Ornithodoros papillipesShochrisjabs, Buckara,
Turkestan

VI.1927

Dr. J. Moskvina

E. N. Pavlovsky det.

Gift of Professor Pavlovsky,
Zool. Inst. Milit. Acad. of
Med. Leningrad, Russia.
Rec'd 5.III.1928. G.H.F.N.

N 3630

RML 112640

3 ♂, 3 ♀ Ornithodoros tholozaniShochrisjabs, Buckara, Turkistan
(45.00 N, 70.00 E), U.S.S.R.

VI.1927

Dr. J. Moskvina

ORIGINAL DETERMINATIONCURRENT STATUS

N	3631	N	3631
		RML	112641
	<u>Dermacentor reticulatus</u> ♀		1 ♀ <u>Dermacentor niveus</u>
	Cyrenaica, N. Africa (Italian)		Cyrenaica (31.00 N, 22.30 E), Libya
	Received 6.III.1928		Received 6.III.1928
	Received from Dr. Giuseppe Franchini, Bologna		Received from Dr. G. Franchini
	C. W. det.		
N	3632	N	3632
		RML	112642
	<u>Aponomma</u> sp. N's		16 N <u>Aponomma</u> sp.
	Snakes		Snakes
	Andagoja, Brit. Columbia		Unknown
	Received 6.III.1928		Received 6.III.1928
	Received from Dr. Giuseppe Franchini		Received from Dr. G. Franchini
			There are no species of <u>Aponomma</u> in British Columbia. The locality is probably in Africa.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3633	N	3633
		RML	112643
	<u>Amblyomma lepidum</u> ♂'s, ♀'s		52 ♂, 21 ♀, 1 N <u>Amblyomma lepidum</u> 1 ♂ <u>Hyalomma truncatum</u>
	Giuba		Giuba (00.15 S, 42.38 E), Somali Democratic Republic
	1926		1926
	Received from Dr. Giuseppe Franchini, Bologna 6.III.1928		Received from Dr. G. Franchini
	C. W. det.		
N	3634	N	3634
		RML	112644
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		26 ♂, 3 ♀ <u>Hyalomma rufipes</u> 9 ♂, 1 ♀ <u>Hyalomma truncatum</u> 1 ♂, 1 ♀ <u>Rhipicephalus pulchellus</u>
	Giuba		Giuba (00.15 S, 42.38 E), Somali Democratic Republic
	1926		1926
	Received from Dr. Giuseppe Franchini, Bologna, 6.III.1928		Received from Dr. G. Franchini
	C. W. det.		
N	3635	N	3635
		RML	112645
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		4 ♂, 3 ♀ <u>Rhipicephalus pulchellus</u>
	Giuba		Giuba (00.15 S, 42.38 E), Somali Democratic Republic
	1926		1926
	Received from Dr. Giuseppe Franchini, Bologna 6.III.1928		Received from Dr. G. Franchini
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3636	N	3636
		RML	112646
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		3 ♂, 1 ♀ <u>Rhipicephalus simus</u> 1 ♂ <u>Rhipicephalus humeralis</u>
	Giuba		Giuba (00.15 S, 42.38 E), Somali Democratic Republic
	1926		1926
	Received from Dr. Giuseppe Franchini, Bologna 6.III.1928		Received from Dr. G. Franchini
	C. W. det.		
N	3637	N	3637
		RML	112647
	<u>Ornithodoros</u> sp. nymph		1 N <u>Ornithodoros</u> sp.
	Camel		<u>Camelus dromedarius</u>
	Kalendieh, Palestine		Kalendieh, Israel (locality not verified)
	II.1926		II.1926
	Dr. O. Theodor, Jerusalem 20.IV.1926		Dr. O. Theodor
	C. W. det.		
N	3638	N	3638
		RML	112648
	<u>Amblyomma cohaerens</u>		3 ♂, 3 ♀ <u>Amblyomma cohaerens</u>
	Buffalo		<u>Syncerus caffer</u>
	Uganda		Uganda
	Chief Veterinary Officer, Uganda		Chief Veterinary Officer, Uganda
	ex I.B.E. 1564		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3639	N	3639
		RML	112649
	<u>Dermacentor venustus</u>		2 ♂, 2 ♀, 10 N, 36 L, eggs <u>Dermacentor andersoni</u>
	Raised in lab at Hamilton, Montana, U.S.A.		Raised in lab at Hamilton (46.15 N, 114.09 W), Montana, U.S.A.
	1927		1927
	R. A. Cooley gift 2.V.1928		R. A. Cooley gift 2.V.1928
	R.A.C. det.		Robert Allen Cooley (1873-1968) one of America's foremost entomologists; Professor and Head of Department of Zoology and Entomology, Montana State College 1899-1931 when he resigned to become senior entomologist (1931-1946) at the Rocky Mountain Laboratory, Hamilton, Montana. Author of classic taxonomic works on New World family Argasidae and the genera <u>Dermacentor</u> and <u>Ixodes</u> .
N	3640	N	3640
		RML	112650
	<u>Dermacentor venustus</u> Infected with <u>Ixodiphagus caururtei</u>		1 N <u>Dermacentor andersoni</u> Infected with <u>Hunterellus hookeri</u>
	Reared in lab at Bozeman, Montana from stock received from Dr. E. Brumpt, Paris		Reared in lab at Bozeman (45.41 N, 111.02 W), Montana U.S.A.
	1928		1928
	R. A. Cooley gift 2.V.1928		R. A. Cooley gift 2.V.1928
	R.A.C. det.		
	3640A. Nymph of tick showing pupae in position.		
	3640B. Dry nymph with imago of parasites that have escaped.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3641	N	3641
		RML	112651
	<u>Dermacentor variabilis</u> ♀		1 ♀ <u>Dermacentor variabilis</u>
	Cheyney, Philadelphia, Penn. U.S.A.		Cheyney (39.56 N, 75.31 W) Pennsylvania, U.S.A.
	31.V.1927		31.V.1927
	Dr. K. Jordan		Dr. K. Jordan
	C. W. det.		For a discussion of this collecting trip see Jordan (1928: 178).
	3641-3644 received 12.IV.1928. Reported on 10.V to Dr. K. Jordan the donor.		
N	3642	N	3642
		RML	112652
	<u>Ixodes hexagonus</u> var. <u>cookei</u> 1 ♂, 1 ♀, 7 N		1 ♂, 1 ♀, 6 N <u>Ixodes cookei</u>
	<u>Marmota monax</u>		<u>Marmota monax</u>
	Rolling Rock, Ligonier, Penn., U.S.A.		Rolling Rock, Ligonier (40.15 N, 79.14 W), Pennsylvania, U.S.A.
	25.VI.1927		25.VI.1927
	Dr. K. Jordan		Dr. K. Jordan
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3643	N	3643
		RML	112653
	<u>Dermacentor variabilis</u> N <u>Peromyscus leucopus</u>		1 N <u>Dermacentor variabilis</u> <u>Peromyscus leucopus</u>
	Plummer's Isl, Potomac River, U.S.A.		Plummers Island, (38.58 N, 77.10 W), Maryland, U.S.A.
	14.V.1927		14.V.1927
	Dr. K. Jordan		Dr. K. Jordan
	C.W. det.		
N	3644	N	3644 MISSING
	<u>Haemaphysalis leachi</u> var..... ♂'s, ♀'s		
	A small rodent		
	Anda-Steppe near Harbin, China		
	Dr. Jettmar		
	C.W. det.		
N	3645	N	3645
		RML	112654
	<u>Hyalomma aegyptium</u>		4 ♂, 1 ♀ <u>Hyalomma dromedarii</u>
			No other data.
N	3646	N	3646
		RML	112655
	<u>Hyalomma aegyptium</u>		26 ♂, 8 ♀ <u>Hyalomma dromedarii</u>
			No other data.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3647, a, b	N	3647a
		RML	112656
	(3647) <u>Ornithodoros lahorensis</u> ♂'s, ♀'s, N's, eggs		(3647) MISSING
	(a) <u>Rhipicephalus sanguineus</u> ♂'s & ♀'s		(a) 4 ♂, 6 ♀ <u>Rhipicephalus sanguineus</u>
	(b) <u>Haemaphysalis cinnabarina</u> <u>punctata</u> 1 ♀		(b) MISSING
	Anatolia		Anatolia (39.00 N, 35.00 E), Turkey
	(3647) Rec'd 17.VII.1928		(3647) Rec'd 17.VII.1928
	(a&b) Rec'd 16.VII.1928		(a&b) Rec'd 16.VII.1928
	(3647) Rec'd from M. D. Blagoff Istanbul, Turkey		(3647) Rec'd from M. D. Blagoff Istanbul, Turkey
	(a&b) Donor L. E. Robinson		(a&b) Donor L. E. Robinson
	C. W. det.		
N	3648	N	3648
		RML	97043
	<u>Haemaphysalis cinnabarina</u> var. <u>punctata</u>		2 ♂ <u>Haemaphysalis sulcata</u>
	Sheep		Sheep
	Cyprus		Cyprus
	Rec'd 17.VII.1928		Rec'd 17.VII.1928.
	Donor Dr. P. A. Buxton		Donor Dr. P. A. Buxton
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3649

Argas vespertilionis N's

Bat

Scarborough, England

Rec'd. 20.VIII.1928

George B. Walsh

G.H.F.N. det.

Reported det. 21.VIII.1928 to
sender "Linthorpe," Stepney
Drive, Scarborough.

G.H.F.N.

N 3649

RML 112657

3 L Argas vespertilionis

Bat

Scarborough (54.17 N, 00.26 W), England

Rec'd. 20.VIII.1928

George B. Walsh

N 3650

Amblyomma marmoreum ♂♂, ♀Varanus sp. attached to skin

Sikwi Island, Lake Victoria,
Nyanza 0.26'S, 34.225'E
[Kenya]

XII.1927

Michael Graham
Donor B. G. Clarke X.1928

N. & W. det.

N 3650 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N	3651	N	3651 MISSING
	<u>Ixodes ricinus</u>		
	Man: off child's chest		
	S. Wales		
	Rec'd 22.X.1928		
	Gift of Dr. K. Jordan		
	G.H.F.N. det.		
	On slide.		
N	3652	N	3652
		RML	112658
	<u>Ornithodoros gurneyi</u>		1 ♂, 3 N <u>Ornithodoros gurneyi</u>
	Melbourne, Australia		Melbourne (37.50 S, 145.00 E) Queensland, Australia
	Received XI.1928		Received XI.1928
	Received from P. A. Buxton		Received from P. A. Buxton
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3653

N 3653

RML 112659

Ixodes tenuirostris
 ♀'s gorged, 2 ♀ unfed, 2 N's,
 3 L, N's & L's on ear

20 ♀, 2 N Ixodes trianguliceps

Apodemus sylvaticusApodemus sylvaticus

Mill at Oxford

Mill at Oxford (51.45 N, 01.15 W),
England

1926-1928

1926-1928

C. S. Elton coll. & donor

C. S. Elton coll. & donor

C. W. det.

Taken from 29 hosts between
 Feb. & Nov. inclusive, some spp.
 returned to Elton including an
 only male taken in April - most
 of the females were taken March,
 April & Nov., most of the
 nymphs in June. The record
 shows the distribution on
 host as follows for 20 lots:
 7 behind, on and inside ear;
 6 on neck; 4 on head front &
 top; 2 on shoulder & base of
 foreleg; one on flank.

N 3654

N 3654

RML 112660

Ixodes tenuirostris 3 ♀, 1 N 1 L2 ♀, 1 N, 1 L Ixodes triangulicepsMicrotus agrestisMicrotus agrestis

Mill at Oxford

Mill at Oxford (51.45 N, 01.15 W),
England

1926-1927

1926-1927

C. S. Elton coll. & donor

C. S. Elton coll. & donor

C. W. det.

Collected from 4 hosts in March,
 April, Oct., Dec. 1926-1927.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3655

N 3655

RML 112661

Ixodes tenuirostris 4 ♀, N's & L,
N's & L's attached to ear

2 ♀, 7 N, 1 L Ixodes trianguliceps

Evotomys glariolus
Mill at Oxford

Clethrionomys glareolus
Mill at Oxford (51.45 N, 01.15 W),
England

1926-1928

1926-1928

C. S. Elton coll. & donor

C. S. Elton coll. & donor

C. W. det.

Taken from 13 hosts. Females
taken in April, July, September.
Nymphs in June and July.
Larvae in July & December.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3656

N 3656

Amblyomma sp. larvae

RML 112662

58 L Amblyomma sp.Man, from a planter's leg,
over 400 collectedHomo sapiens

Kuala Lumpur, F. Malay States

Kuala Lumpur (03.10 N, 101.42 E),
Malaysia

Sent 23.I.1929

Sent 23.I.1929

Mr. B.A.R. Gater, Entomologist
Inst. Med. Research

Mr. B.A.R. Gater

C. W. det.

Mr. Gater asked if these = A. testudinarium. C.W. reports they are Ambly. & may be testudinarium - I advised Gater to try & get eggs & raise larvae to make sure. This the first record he believes "of ticks attacking man in this country." The planter put his leg in a hole covered by plant. Slight irritation caused for some weeks. "Malay's say they get them occasionally but we never see them."

ORIGINAL DETERMINATIONCURRENT STATUS

N 3657

Amblyomma nitidum ♂, ♀, NLaticauda laticaudatus

Port Blair Andamans

31.V.1926

Dr. A. Bayler de Costa

M. Sharif gift 1929

N 3657

RML 22315

1 ♂, 1 ♀, 1 N Amblyomma nitidumLaticauda laticaudataPort Blair (11.36 N, 92.45 E),
Andaman Islands, India

31.V.1926

Dr. A. Bayler de Costa

Cited: Sharif (1928: 328)

6 slides of dissections

♂ & ♀ hypostomes

♂ & ♀ spiracular plates

♂ & ♀ legs I & IV

N 3658

Haemaphysalis cornigera
var. anomala ♀

Bullock & cow

Ramgarti Hazaribagh District
Bihar

M. Ming donor.

M. Sharif gift 1929

N 3658

RML 82979

1 ♀ Haemaphysalis anomala

Bullock & cow

Ramgarh, Hazaribagh (23.59 N, 85.21 E),
India

M. Ming donor.

M. Sharif gift 1929

Cited: Sharif (1928: 274).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3659	N	3659
		RML	71485
	<u>Hyalomma</u> (<u>Hyalomma</u>) <u>kumari</u> $\sigma, \text{♀}$		2 σ , 2 ♀ <u>Hyalomma kumari</u> SYNTYPES
	<u>Hemitragus hyllocrius</u>		<u>Hemitragus hyllocrius</u>
	Parambikulam, Cochin State		Parambikolam (10.23 N, 76.49 E), India
	16-24.IX.1924		16-24.IX.1924
	F. A. Gravely		F. A. Gravely
	M. Sharif det. & gift 1929		Sharif (1928: 319) original description. Cited: Kaiser & Hoogstraal (1964: 262).
	(on label "Exch $\frac{2173}{17}$ ")		
N	3660	N	3660
		RML	66581
	<u>Hyalomma</u> (<u>Hyalomma</u>) <u>hussani</u> $\sigma^1s, \text{♀}^1s$		3 σ , 5 ♀ <u>Hyalomma hussani</u>
	Bullock		Bullock
	Gaya		Gaya (24.47 N, 85.00 E), India
	11.II.1926		11.II.1926
	M. Sharif gift 1929		M. Sharif gift 1929
	M. Sharif det.		Cited: Kaiser & Hoogstraal (1964: 270).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3661	N	3661
		RML	66608
	<u>Hyalomma</u> (<u>Hyalomma</u>) <u>aegyptium</u> sub. sp. <u>isaaci</u>		1 ♂, 1 ♀ <u>Hyalomma marginatum isaaci</u> SYNTYPES
	Buffalo		Buffalo
	Kandeli, Hoshangabad Central Provinces		Kandeli, Hoshangabad Central Provinces, India (locality not verified)
	8.I.1926		8.I.1926
	M. Sharif gift 1929		M. Sharif gift 1929
	M. Sharif gift		Sharif (1928: 307) original description.
	(On label "Exch $\frac{60}{18}$ ").		
N	3662	N	3662
		RML	112663
	<u>Ixodes angustus</u> N's <u>Ixodes auritulus</u> unfed N		4 ♀, 1 N <u>Ixodes soricis</u>
	<u>Sorex</u> sp.		<u>Sorex</u> sp.
	Salt Spring Isld., Canada		Saltspring Island (48.50 N, 123.30 W), British Columbia, Canada
	20.VIII.1925		20.VIII.1925
	K. Racey, Vancouver, Canada		K. Racey, Vancouver, Canada
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3663, a

N 3663

RML 112664

(3663) Ixodes angustus ♀
(large sp.)1 ♀, 18 N Ixodes angustus(a) Ixodes auritulus nymph (small)Ochotona canadensisOchotona princeps

Mous, B.C. 2200 ft.

Mous, British Columbia, Canada
(locality not verified) (671 m)

27.IX.1927

27.IX.1927

K. Racey, Vancouver, Canada

K. Racey, Vancouver, Canada

C. W. det.

N 3664

N 3664

RML 112665

Ixodes sp. (nymphs)1 N Ixodes sp.Sciurus sp.Sciurus sp.

Mous, B.C. 2200 ft.

Mous, British Columbia, Canada
(locality not verified) (671 m)

27.IX.1927

27.IX.1927

K. Racey, Vancouver, Canada

K. Racey, Vancouver, Canada

C. W. det.

Mutilated specimen

? Ix. texanus

ORIGINAL DETERMINATIONCURRENT STATUS

N	3665	N	3665
		RML	112666
	<u>Ixodes angustus</u> ♀'s		3 ♀ <u>Ixodes ochotonae</u>
	<u>Ochotona canadensis</u>		<u>Ochotona princeps</u>
	Mous, B.C. 2200 ft.		Mous, British Columbia, Canada (locality not verified) (671 m)
	30.VII.1928		30.VII.1928
	K. Racey, Vancouver, Canada		K. Racey, Vancouver, Canada
	C. W. det.		
N	3666	N	3666
		RML	112667
	<u>Haemaphysalis hystrixis</u>		1 ♂ <u>Haemaphysalis traguli</u> 3 ♂, 4 ♀ <u>Haemaphysalis semermis</u> 1 ♂, 5 ♀ <u>Haemaphysalis nodchatrami</u> PARATYPES
	Wild pig		<u>Sus scrofa</u>
	East Central Dutch Borneo		East Central Borneo
	1929		1929
	Malte von Kühlerwein		Malte von Kühlerwein
	Sent to us by Mr. J. J. Cox, Tring, Herts		Hoogstraal et al (1965b: 433) original description of <u>H. nadchatrami</u> . The <u>H. semermis</u> collection cited: Hoogstraal et al (1965b: 435).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3667	N	3667
		RML	112668
	<u>Dermacentor auratus</u> ♂'s, ♀'s		6 ♂, 2 ♀ <u>Dermacentor</u> sp.
	Wild pig		<u>Sus scrofa</u>
	East Central Dutch Borneo		East Central Borneo
	1929		1929
	Malte von Kühlerwein		Malte von Kühlerwein
	Sent to us by Mr. J. J. Cox Tring, Herts.		
N	3668	N	3668
		RML	112669
	<u>Rhipicephalus complanatus</u> 2 ♂, 2 ♀		2 ♂, 2 ♀ <u>Rhipicephalus complanatus</u>
	Mangara, Belgian Congo		Mangara, Zaire (locality not verified)
	VI.1929		VI.1929
	Sent by Prof. Franchini, Bologna		Sent by Prof. G. Franchini
	C. W. det.		
N	3669	N	3669
		RML	112670
	<u>Rhipicephalus falcatus</u> ♂, ♀		8 ♂, 18 ♀ <u>Rhipicephalus longus</u>
	Mangara, Belgian Congo		Mangara, Zaire (locality not verified)
	VI.1929		VI.1929
	Sent by Prof. Franchini, Bologna		Sent by Prof. G. Franchini
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3670	N	3670
		RML	112671
	<u>Amblyomma lepidum</u> ♂'s, ♀'s		3 ♂, 3 ♀ <u>Amblyomma lepidum</u>
	Camels		<u>Camelus dromedarius</u>
	Agordat, Eritraea		Agordat (15.32 N, 37.52 E), Somali Democratic Republic
	IV.1929		IV.1929
	Sent by Prof. Franchini, Bologna		Sent by Prof. G. Franchini
N	3671	N	3671
		RML	112672
	<u>Haemaphysalis leachi</u>		28 ♂, 2 ♀ <u>Haemaphysalis leachi</u>
	Belgian Congo		Zaire
	IV.1929		IV.1929
	Sent by Prof. Franchini, Bologna		Sent by Prof. G. Franchini
	C. W. det.		
N	3672	N	3672
		RML	112673
	<u>Amblyomma personatum</u> ♂, ♀		1 ♂, 1 ♀ <u>Amblyomma personatum</u>
	Rhinoceros		<u>Diceros bicornis</u> or <u>Ceratotherium simum</u>
	Limurn		Limurn, Africa (locality not verified) although this is possibly Limuru, Kenya
	VIII.1927		VIII.1927
	Gift I.B.E. (1571)		Gift I.B.E. (1571)
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3673	N	3673
		RML	112674
	<u>Haemaphysalis cinnabarina</u> var. <u>punctata</u> 3 ♂, 3 ♀		3 ♂, 3 ♀ <u>Haemaphysalis sulcata</u>
	Goat		Goat
	Berson		Berson (locality unknown)
	22.I.1929		22.I.1929
	Gift I.B.E. (1680)		Gift I.B.E. (1680)
	C. W. det.		
N	3674	N	3674
		RML	112675
	<u>Haemaphysalis calcarata</u> var. <u>houyi</u> ♂, ♀, N		2 ♂, 1 ♀, 1 N <u>Haemaphysalis houyi</u>
	<u>Euxerus microdon</u>		<u>Euxerus erythropus microdon</u>
	Machokos, Kenya Colony		Machakos (03.31 S, 37.16 E), Kenya
	6.XI.1928		6.XI.1928
	Gift I.B.E. (1665)		Gift I.B.E. (1665)
	C. W. det.		<u>Euxerus</u> is often included within the genus <u>Xerus</u> , for unstriped ground squirrels.
N	3675	N	3675
		RML	112676
	<u>Rhipicephalus cuspidatus</u> ♂, ♀, N		6 ♂, 6 ♀, 1 N <u>Rhipicephalus cuspidatus</u>
	<u>Phacocère</u> (wart hog)		<u>Phacochoerus aethiopicus</u>
	Africa ?		Africa
	2.II.1928		2.II.1928
	A. Theodor Monod coll. & gift		A. Theodor Monod coll. & gift
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3676	N	3676
		RML	112677
	<u>Amblyomma triguttatum</u>		1 ♀, 1 N <u>Amblyomma triguttatum</u>
	Kangaroo		Kangaroo
	Gogo Stn. Kimberley Div. W.A.		Gogo (18.17 S, 125.35 E) Western Australia, Australia
	Sent 19.IX.1929		Sent 19.IX.1929
	Coll. Mr. Hill of Melbourne. Sent by Dr. P. A. Buxton 19.IX.1929		Mr. Hill
	C. W. det.		
N	3677	N	3677 MISSING
	<u>Ixodes caledonicus</u> ♀'s, N's, L's		
	Jackdaw		
	Scarborough		
	18.VI.1927		
	G. B. Walsh gift		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3678, a	N	3678, a
		RML	105785
	(3678) <u>Hyalomma</u> sp. (a) <u>Rhipicephalus simus</u>		(3678) 5 ♂, 2 ♀ <u>Hyalomma truncatum</u> (a) 2 ♂, 2 ♀ <u>Rhipicephalus jeanneli</u> (a) 1 ♀ <u>Rhipicephalus hurti</u>
	<u>Phacochoerus aethiopicus</u>		<u>Phacochoerus aethiopicus</u>
	Cedarwood, Kenya Colony E. Africa		Cedarwood Estate (00.06 S, 36.39 E), Kenya
	21.IX.1929		21.IX.1929
	G.H.F. Nuttall & R. Daubney Shot by G.H.F.N.		G.H.F. Nuttall & R. Daubney Shot by G.H.F.N.
	C. W. det.		
	No's. 3678-2692 collected at points marked by me in this rough map. G.H.F.N. Cedarwood estate of Mr. Ryder, Abardare Mts. ca 9000 ft. (ca 154 miles by road from Nairobi).		
N	3679, a	N	3679a
		RML	112678
	(3679) <u>Ixodes pilosus</u> ♀ (a) <u>Rhipicephalus evertsi</u>		(3679) MISSING (a) 8 ♂, 2 ♀ <u>Rhipicephalus evertsi</u>
	Sheep (domestic) (Lot 1)		Sheep (domestic)
	Cedarwood, Kenya Colony, E. Africa		Cedarwood Estate (00.06 S, 36.39 E), Kenya
	19.IX.1929		19.IX.1929
	G.H.F. Nuttall & R. Daubney Shot by G.H.F.N.		G.H.F. Nuttall & R. Daubney Shot by G.H.F.N.
	C. W. det.		

--- North Frontier of Kenya Colony

Archers Post X

Isiolo

Meru

Nanyuki

N

↑

E

W

S

MT. Kenya

Nyeri

Font Hall

Thika river

Cedarwood

(estate of Mr. Ryden)

Alexander Mts

ca. 9000ft.

{ ca. 154 miles by Road from Nairobi

Kabete

Xairoti

Ngong Hills

Watsons Farm

Note: Nos 3678-3692 collected at points marked by me in this rough map

V.H.F.N.

X River at Archers Post = Engare Uaso Nyora.

Map 2.--Collecting localities for N 3678-3692.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3680, a	N	3680
		RML	112679
	(3680) <u>Rhipicephalus evertsi</u> (a) <u>Hyalomma</u> sp.		(3680) 3 ♂, 2 ♀ <u>Rhipicephalus evertsi</u> (a) 9 ♂, 2 ♀ <u>Hyalomma truncatum</u>
	Sheep (domestic) (Lot 2)		Sheep (domestic)
	Cedarwood, Kenya Colony, E. Africa		Cedarwood Estate (00.06 S, 36.39 E), Kenya
	19.IX.1929		21.IX.1929
	G.H.F. Nuttall & R. Daubney Shot by G.H.F.N.		G.H.F. Nuttall & R. Daubney Shot by G.H.F.N.
	C. W. det.		Date taken from vial label.
N	3681, a	N	3681, a
		RML	66662
	(3681) <u>Ixodes schillingsi</u> (a) <u>Rhipicephalus evertsi</u> L		(3681) 1 ♀ <u>Ixodes cavipalpus</u> (a) 1 L <u>Rhipicephalus evertsi</u>
	<u>Colobus</u> sp.		<u>Colobus</u> sp.
	Cedarwood, Kenya Colony E. Africa		Cedarwood Estate (00.06 S, 36.39 E), Kenya
	19.IX.1929		19.IX.1929
	G.H.F. Nuttall & R. Daubney Shot by G.H.F.N.		G.H.F. Nuttall & R. Daubney Shot by G.H.F.N.
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3682	N	3682
		RML	112680
	<u>Ixodes schillingsi</u> ♀		1 ♀ <u>Ixodes schillingsi</u>
	<u>Colobus caudatus</u> ♂ (monkey, from axilla)		<u>Colobus guereza caudatus</u> ♂
	Cedarwood, Kenya Colony, E. Africa		Cedarwood Estate (00.06 S, 36.39 E), Kenya
	18.IX.1929		18.IX.1929
	Shot by G.H.F. Nuttall		Shot by G.H.F. Nuttall
	C. W. det.		
N	3683	N	3683
		RML	112681
	<u>Ixodes schillingsi</u> N & L		1 N, 1 L <u>Ixodes schillingsi</u>
	<u>Colobus caudatus</u> ♀ (from eyelids)		<u>Colobus guereza caudatus</u> ♀
	Cedarwood, Kenya Colony, E. Africa		Cedarwood Estate (00.06 S, 36.39 E), Kenya
	18.IX.1929		18.IX.1929
	Shot by G.H.F. Nuttall		Shot by G.H.F. Nuttall
	C. W. det.		Cited: Arthur (1957a: 545)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3684	N	3684
		RML	112682
	<u>Ixodes schillingsi</u> ♀'s		3 ♀ <u>Ixodes schillingsi</u>
	<u>Colobus caudatus</u> ♀ (from axilla)		<u>Colobus guereza caudatus</u> ♀
	Cedarwood, Kenya Colony, E. Africa		Cedarwood Estate (00.06 S, 36.39 E), Kenya
	18.IX.1929		18.IX.1929
	Shot by G.H.F. Nuttall		Shot by G.H.F. Nuttall
	C. W. det.		
N	3685	N	3685
		RML	112683
	<u>Amblyomma variegatum</u> ♂		1 ♂ <u>Amblyomma variegatum</u>
	Cow		Cow
	Carnegie Estate, Kenya Colony, East Africa		Carnegie Estate (00.06 S, 36.40 E), Kenya
	17.IX.1929		17.IX.1929
	G.H.F. Nuttall		G.H.F. Nuttall
	C. W. det.		
N	3686	N	3686
		RML	112684
	<u>Hyalomma aegyptium</u>		2 ♂, 4 ♀ <u>Hyalomma truncatum</u>
	Cow		Cow
	Carnegie Estate, Kenya Colony, East Africa		Carnegie Estate (00.06 S, 36.40 E), Kenya
	17.IX.1929		17.IX.1929
	G.H.F. Nuttall		G.H.F. Nuttall
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3687	N	3687
		RML	112685
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s		10 ♂, 6 ♀ <u>Rhipicephalus evertsi</u>
	Angora goats		Goats, angora
	Carnegie Estate, Kenya Colony, East Africa		Carnegie Estate (00.06 S, 36.40 E), Kenya
	17.IX.1929		17.IX.1929
	G.H.F. Nuttall		G.H.F. Nuttall
	C. W. det.		
N	3688	N	3688
		RML	112686
	<u>Rhipicephalus evertsi</u>		1 ♂, 2 ♀ <u>Rhipicephalus evertsi</u>
	<u>Oryx beisa</u> ♂ (antelope)		<u>Oryx beisa</u> ♂
	Isiolo, Kenya Colony, East Africa		Isiolo (00.21 N, 37.35 E), Kenya
	22.IX.1929		22.IX.1929
	Shot by Kelly (G.H.F. Nuttall present)		Shot by Kelly (G.H.F. Nuttall present)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3689, a	N	3689, a
		RML	112687
	(3689) <u>Amblyomma variegatum</u> 2 N (a) <u>Rhipicephalus evertsi</u>		(3689) 2 N <u>Amblyomma variegatum</u> (a) 8 ♂, 3 ♀, 13 N <u>Rhipicephalus evertsi</u>
	<u>Lithocranius walleri</u> ♂ "Gerenuk" (antelope) From ears, perinaeum, axilla		<u>Lithocranius walleri</u> ♂
	Isiolo, Kenya Colony, East Africa		Isiolo (00.21 N, 37.35 E), Kenya
	22.IX.1929		22.IX.1929
	Shot by G.H.F.N.		Shot by G.H.F.N.
	C. W. det.		
	(<u>R. evertsi</u> from ears only)		
N	3690	N	3690
		RML	112688
	<u>Rhipicephalus evertsi</u> N & L		10 N, 18 L <u>Rhipicephalus evertsi</u>
	<u>Lithocranius walleri</u>		<u>Lithocranius walleri</u>
	Isiolo, Kenya Colony, East Africa		Isiolo (00.21 N, 37.35 E), Kenya
	23.IX.1929		23.IX.1929
	Shot by R. Daubney		Shot by R. Daubney
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3691	N	3691
		RML	112689
	<u>Rhipicephalus evertsi</u> N & L		1 N, 8 L <u>Rhipicephalus evertsi</u>
	<u>Lithocranius walleri</u>		<u>Lithocranius walleri</u>
	Ngare & Ndari River Barsaloi Road, N. Frontier		Engare, Ondare River (00.35 N, 37.23 E), Kenya
	23.IX.1929		23.IX.1929
	Shot by R. Daubney		Shot by R. Daubney
	C. W. det.		
N	3692	N	3692
		RML	112690
	<u>Rhipicephalus pulchellus</u> ♂		1 ♂ <u>Rhipicephalus pulchellus</u>
	On man's neck		<u>Homo sapiens</u>
	S. of Nairobi		South of Nairobi (01.17 S, 36.49 E), Kenya
	24.VIII.1929		24.VIII.1929
	C. W. det.		
N	3693	N	3693
		RML	112691
	<u>Rhipicentor nuttalli</u>		2 ♂, 2 ♀ <u>Rhipicentor nuttalli</u>
	Porcupine		Probably <u>Hystrix africae australis</u>
	Sandown, Near Bulawayo, S. Rhodesia		Sandown, near Bulawayo (20.09 S, 28.35 E), Zimbabwe
	4.V.1917		4.V.1917
	J. W. Shoebtham		J. W. Shoebtham
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

<p>N 3694, a, b</p> <p>(3694) <u>Ixodes caledonicus</u> (a) <u>Ixodes caledonicus</u> (b) <u>Ixodes caledonicus</u></p> <p>(3694) Hawk (a) Jackdaw (b) Kestrel & Jackdaw</p> <p>Newcastleton, Roxburghshire</p> <p>V.1930</p> <p>J. Macleod coll. & gift</p> <p>N. det.</p>	<p>N 3694</p> <p>RML 112692</p> <p>(3694) ♀ <u>Ixodes caledonicus</u> (a) 1 ♀, 1 N, 31 L <u>Ixodes caledonicus</u> (b) 6 ♂, 6 N, 46 L <u>Ixodes caledonicus</u></p> <p>(3694) Hawk (a) <u>Corvus monedula</u> (b) <u>Falco tinnunculus</u> & <u>Corvus monedula</u></p> <p>Newcastleton (55.10 N, 02.49 W), Scotland</p> <p>V.1930</p> <p>J. Macleod coll. & gift</p>
<p>N 3695</p> <p><u>Ixodes canisuga</u> 1 ♂ Nymphal skin ♀, ♀'s & eggs</p> <p>Dogs</p> <p>Shaws, Lunds, Sedbergh, Yorks</p> <p>VI.1930</p> <p>R. A. Scott Macfie coll. & gift</p> <p>N. det.</p>	<p>N 3695</p> <p>RML 112693</p> <p>1 ♂, 23 ♀, 1 N <u>Ixodes canisuga</u></p> <p>Dogs</p> <p>Shaws, Lunds, Sedbergh (54.19 N, 02.31 W), England</p> <p>VI.1930</p> <p>R. A. Scott Macfie coll. & gift</p>

ORIGINAL DETERMINATIONCURRENT STATUS

N 3696

Haemaphysalis bispinosa

Milch cow

Cochin State, S. India

Rec'd. 3.XII.1929

C. W. Venkasksubla
Entomologist, Cochin State

C. W. det.

N 3696

RML 112694

5 ♂, 18 ♀, 110 N, 44 L Haemaphysalis bispinosa

Cow

Kerala State (10.25 N, 76.30 E), India

Rec'd. 3.XII.1929

C. W. Venkasksubla
Entomologist, Cochin State

N 3697

Hyalomma aegyptium

Cattle

Epworth South Rhodesia

16.II.1929

H. S. Leeson, Rhodesia

P. A. Buxton gift

C. W. det.

N 3697

RML 112695

2 ♂, 1 ♀ Hyalomma rufipes
1 ♂, 7 ♀ Hyalomma truncatum

Cattle

Probably Epworth Mission (17.52 S,
31.08 E), Zimbabwe

16.II.1929

H. S. Leeson, Rhodesia

ORIGINAL DETERMINATIONCURRENT STATUS

N	3698	N	3698
		RML	112696
	<u>Rhipicephalus sanguineus</u>		12 ♀ <u>Rhipicephalus sanguineus</u>
	Dog		Dog
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	11.VII.1930		11.VII.1930
	P. A. Buxton coll. & gift		P. A. Buxton coll. & gift
	C. W. det.		
	Unusually large. C.W.		
N	3699	N	3699
		RML	112697
	<u>Hyalomma syriacum</u>		31 ♂, 4 ♀ <u>Hyalomma aegyptium</u>
	Tortoise		Tortoise
	Tangier		Tangier (35.48 N, 05.48 W), Morocco
	11.VII.1930		11.VII.1930
	P. A. Buxton coll. & gift		P. A. Buxton coll. & gift
	C. W. det.		
N	3700	N	3700
		RML	112698
	<u>Hyalomma syriacum</u>		2 ♂, 2 ♀ <u>Hyalomma aegyptium</u>
	Tortoise		Tortoise
	Shelford near Cambridge		Shelford (52.08 N, 00.08 E), England
	Dr. H. P. Bayon coll. & gift		Dr. H. P. Bayon coll. & gift
	N. det.		

Nos. 3701-3705 are gifts of Miss S. Finnegan of the British Museum (Nat. Hist.) the Nos. of their tubes being 695, 2243 & 2343c, 2793 and no number on last tube (See Report p. 109):-

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3701	N	3701 MISSING
	<u>Amblyomma oblongoguttatum</u> ♀		
	Near a camp on the Essequibo River, British Guiana		
	22.VIII.1929		
	O. W. Richards		
	Gift of Brit. Mus.		
	C. W. det.		
N	3702	N	3702
		RML	112699
	<u>Amblyomma incisum</u> ♂, ♀		1 ♂, 1♀ <u>Amblyomma incisum</u>
	Tapir especially pubic region		<u>Tapirus</u> sp.
	Near a camp on the Essequibo River, British Guiana		Near a camp on the Essequibo River (06.59 N, 58.23 W), Guyana
	19.IX.1929		19.IX.1929
	O. W. Richards		O. W. Richards
	Gift of Brit. Mus.		
	C. W. det.		

ORIGINAL DETERMINATION

N 3703

Amblyomma coelebs

Tapir

Near a camp on the Essequibo River,
British Guiana

19.IX.1929

O. W. Richards

Gift of Brit. Mus.

C. W. det.

N 3704

Amblyomma oblongoguttatum ♀

Tapir
90 ft. up a tree

Near a camp on the Essequibo River,
British Guiana

25.IX.1929

O. W. Richards

Gift of Brit. Mus.

C. W. det.

CURRENT STATUS

N 3703

RML 112700

2 ♂ Amblyomma coelebs

Tapirus sp.

Near a camp on the Essequibo River
(06.59 N, 58.23 W), Guyana

19.IX.1929

O. W. Richards

N 3704

RML 112701

1 ♀ Amblyomma oblongoguttatum

Tapirus sp.
27 m up a tree

Moraballi Creek (06.53 N, 59.20 W),
Essequibo River, Guyana

25.IX.1929

O. W. Richards

Locality taken from vial label

Oxford University Expedition to
British Guiana

ORIGINAL DETERMINATIONCURRENT STATUS

N	3705	N	3705
		RML	112702
	<u>Haemaphysalis kochi</u> ♂		1 ♂ <u>Haemaphysalis juxtakochi</u>
	Deer		Deer
	Near a camp on the Essequibo River, British Guiana		Near a camp on the Essequibo River (06.59 N, 58.23 W), Guyana
	25.IX.1929		25.IX.1929
	O. W. Richards		O. W. Richards
	Gift of Brit. Mus.		
	C. W. det.		
N	3706	N	3706
		RML	112703
	<u>Hyalomma lusitanicum</u> ♀'s Rec'd alive/gorged		42 ♂, 49 ♀, 266 N, ±333 L <u>Hyalomma lusitanicum</u> (in 8 vials)
	Algiers		Algiers (36.47 N, 03.03 E), Algeria
	Posted 14.XII, rec'd 20.XII.1930		Posted 14.XII, rec'd 20.XII.1930
	Rec'd from Dr. Edmond Sergent Inst. Pasteur		Rec'd from Dr. Edmond Sergent Inst. Pasteur
	<u>H. lusitanicum</u> raised by H. S. Purchase here 1931 <u>not</u> 1930 as on labels.		Tentative ID.
	1. ♂'s, ♀'s, ex ♀ 2		
	2. ♂'s, ♀'s, ex ♀ 6		
	3. N's gorged ex lot 4		
	4. N's unfed ex lot 4		
	5. L's gorged ex lot 4		
	6. L's gorged ex lot 3		
	7. L's unfed ex lot 4		
	8. L's to N's ext lot 3.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3707

Hyalomma aegyptium ♀'s
N's and ♂'s, ♀'s rec'd dead

Cairo

Rec'd. from Soliman El Zowhari,
Ministry of Agriculture, Cairo,
Egypt (per S. Hadwen)

3707 Hyalomma aegyptium raised
1931 etc. as above [3706]

1. Larvae unfed ex ♀ 7
2. N's moulted skins ex ♀ 7
3. N's gorged ex ♀ 7
4. ♀'s unfed ex ♀ 7
5. ♀'s unfed ex ♀ 7
6. ♂'s, ♀'s unfed ex ♀ 3

N 3707

RML 112704

26 ♂, 23 ♀ Hyalomma dromedarii
also 6 vials of H. dromedarii as
follows: 13 ♂, 18 ♀, 55 ♀, 57 ♂,
1 vial N skins, 19 N, +1000 L

Cairo (30.03 N, 31.15 E), Egypt

Rec'd from Soliman El Zowhari,
Ministry of Agriculture, Cairo,
Egypt (per S. Hadwen)

N 3708

Dermacentor albipictus

Moose

Canada

Rec'd IV.1931

Gift of Prof. R. A. Cooley,
Bozeman, Mont.

R. A. C. det.

N 3708

RML 112705

33 ♂, 29 ♀ Dermacentor albipictusAlces alces

Alberta, Canada

Rec'd IV.1931

H. H. Cochrane

Province locality and collector's
name taken from vial label.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3709

Amblyomma nuttalli

Tortoise

Onderstepoort

Sent 1931

Dr. P. J. du Toit

Sent to R. W. Mettam here

N 3709

RML 112706

1 ♀, 11 L Amblyomma nuttalli

Tortoise

Onderstepoort (25.39 S, 28.11 E),
Republic of South Africa

Sent 1931

Dr. P. J. du Toit

Cited: Theiler & Salisbury
(1959: 116).

N 3710

Amblyomma cohaerens ♂'s, ♀'s, N's

Buffalo

Namagongo & Bugongo, Uganda

Rec'd 20.XII.1930

E. G. Gibbins

I,B,E. gift

C. W. det.

N 3710

RML 112707

28 ♂, 12 ♀ Amblyomma cohaerensSyncerus cafferNamagongo (locality not verified)
& Bugongo (00.51 N, 33.24 E),
Uganda

Rec'd. 20.XII.1930

E. G. Gibbins

ORIGINAL DETERMINATIONCURRENT STATUS

N 3711

Haemaphysalis wellingtoni ♂'s, ♀'s

Kangaroo

Dutch East Indies

V.1930

Dr. Kühlwein

Sent by Dr. Jordan, Tring

C. W. det.

N 3711

RML 112708

3 ♂, 1 ♀ Haemaphysalis bancrofti

Pig

Indonesia

V.1930

Dr. M. von Kuhlwein

Vial label indicates the host as
a pig, which is probably correct.

N 3712

Hyalomma aegyptium

Biskra [Algeria]

Rec'd 4.VIII.1931

Dr. Ed Sergent

N 3712 MISSING

ORIGINAL DETERMINATIONCURRENT STATUS

N 3713

N 3713

Amblyomma nodosum ♂'s, ♀'s

RML 112709

7 ♂, 1 ♀ Amblyomma nodosumTamandua tetradactyla mexicana
(ant eater)Tamandua tetradactyla

Mexico

Mexico

Rec'd 10.VI.1931

Rec'd 10.VI.1931

C. E. Sanborn donor

C. E. Sanborn donor

C. W. det. 11.VI.1931

Sent by C. E. Sanborn, Head of Entomol. Dept., Oklahoma Agric. & Mechanical College, Stillwater, Oklahoma, U.S.A. 26.V.1931 who kept duplicates. The host had wintered in Oklahoma and had come from a firm in Laredo, Texas. Sender thinks it must have come from southern Mexico. Sender thought tick "related" to A. nodosum (Notes from sender's 3 letters on the subject dated 26 & 29 May & 23.VI.31, destroyed G.H.F.N.).

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3714	N	3714
	<u>Rhipicephalus sanguineus</u> 2 ♂, 5 ♀ one partly fed (pinned specimens)	RML	112710
	Lesser Bustard (ticks off occipital region)		2 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u> Pinned specimens
	Dar Es Salaam, East Africa		Bustard, Lesser (name not verified) Not <u>Tetrax tetrax</u> ; probably a species of <u>Neotis</u>
	Sent 18.VIII.1928 by J. W. McHardy		Dar Es Salaam (06.48 S, 39.17 E), Tanzania
	Dr. Shircore		Sent 18.VIII.1928 by J. W. McHardy
	C. W. det. 29.X.1931		Dr. Shircore
	Sent by John W. McHardy, Entomologist, Deputy Director of Laboratory Service, Dar Es Salaam with letter dated 18.VIII.1928, stating ticks recently collected. Wanted to know sp. of <u>Rhip.</u> Reply 29.X.1931. (letter destroyed G.H.F.N. 30.X.1931).		
N	3715	N	3715
	<u>Rhipicephalus sanguineus</u> ♂'s, ♀'s fed	RML	112711
	Dog		7 ♂, 5 ♀ <u>Rhipicephalus sanguineus</u>
	Papua, nr. coast		Dog
	Rec'd 29.II.1932 sent 2.XII.1931		Papua New Guinea
	H.O.C. Littlechild, Govt. Medical Patrol, Territory of Papua		Rec'd. 29.II.1932
	C. W. & N. det. 29.II.1932.		H.O.C. Littlechild, Govt. Medical Patrol, Territory of Papua

ORIGINAL DETERMINATIONCURRENT STATUS

N	3716	N	3716
		RML	102803
	<u>Argas yespertilionis</u> 1 adult		1 ♂ <u>Argas confusus</u>
	Found in house		Found in house
	Pretoria, S. Africa		Pretoria (25.45 S, 28.10 E), Republic of South Africa
	I.1932 (Rec'd 24.II.1932)		I.1932 (Rec'd 24.II.1932)
	G.A.H. Bedford P.O. 593, Pretoria		G.A.H. Bedford
	Bedford et. (confirmed by N.)		Cited: Hoogstraal (1955b: 593)
	<u>Important:</u> No's. 3717-3719-3720-3721 record Mr. E. A. Lewis's success in raising these species for the first time. G.H.F.N. 14.III.1932:-		
N	3717	N	3717
		RML	66668
	<u>Hyalomma impressum albiparmatum</u>		<u>Hyalomma truncatum</u>
	(a) ♀ parent of b-g; (b) L's unfed;		(a) 1 ♀; (b) 126 L; (c) 30 L;
	(c) L's gorged; (d) N's moulted on		(d) 47 N; (e) 70 N; (f) 14 ♂, 10 ♀;
	host (unfed); (e) N's gorged;		(g) 10 ♂, 19 ♀
	(f) ♂'s, ♀'s not hardened (unfed);		
	(g) ♂'s, ♀'s hardened 21 days (unfed)		
	(a) Cattle (groin)		(a) Cattle (groin)
	(c) Calf (ears)		(c) Calf (ears)
	(d), (e) Rabbit (ears) <u>Lepus capensis</u>		(d), (e) Rabbit (ears) <u>Lepus</u>
	<u>crawshayi</u>		<u>crawshayi</u>
	(a) Naivasha Kenya		(a) Naivasha (00.43 S, 36.26 E), Kenya
	(b-g) Kabete, Kenya		(b-g) Kabete (01.16 S, 36.43 E), Kenya
	(a) 7.X.1931		(a) 7.X.1931
	(c) 20.XI.1931		(c) 20.XI.1931
	(d) 21.XI.1931		(d) 21.XI.1931
	E. A. Lewis (1-7)		E. A. Lewis (1-7)
	E.A.L. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3718	N	3718
	<u>Rhipicephalus maculatus</u> 2 ♂	RML	112712
	<u>Elephas africanus</u> (on abdomen)		2 ♂ <u>Rhipicephalus maculatus</u>
	Tana River, Kipini, Kenya		<u>Loxodonta africana</u>
	8.XII.1931		Tana River (02.32 S, 40.31 E), Kenya
	E. A. Lewis (8)		8.XII.1931
	N. & C. W. det.		
N	3719	N	3719
	<u>Rhipicephalus pulchellus</u> L's (unfed) N's unfed	RML	112713
	Hare		8 N, 30 L <u>Rhipicephalus pulchellus</u>
	Raised in laboratory, Kabete, Kenya		Hare
	15.I.1932		Raised in laboratory, Kabete (01.16 S, 36.43 E), Kenya
	E. A. Lewis (24,25)		15.I.1932
	E.A.L. det.		E. A. Lewis (24,25)
			Several eggs present also

ORIGINAL DETERMINATIONCURRENT STATUS

N	3720	N	3720
		RML	112714
	<u>Haemaphysalis aciculifer</u> parent ♀ are unfed L's N's (unfed)		1 ♀, 47 N, 228 L <u>Haemaphysalis aciculifer</u>
	Rabbit (ear)		Rabbit (ear)
	Raised in laboratory, Kabete, Kenya		Raised in laboratory, Kabete (01.16 S, 36.43 E), Kenya
	12.X.1931		12.X.1931
	E. A. Lewis (26,27)		E. A. Lewis (26,27)
	E.A.L. det.		
N	3721	N	3721
		RML	112715
	<u>Amblyomma variegatum</u> L's unfed L's gorged N's		7 N, 89 L (unfed), 5 L (gorged) <u>Amblyomma variegatum</u>
	Rabbit (larvae) Hare (nymphs)		Rabbit (larvae) Hare (nymphs)
	Raised in laboratory, Kabete, Kenya		Raised in laboratory, Kabete, (01.16 S, 36.43 E), Kenya
	13.XI.1931 (larvae) 1.XII.1931 (nymphs)		13.XI.1931 (larvae) 1.XII.1931 (nymphs)
	E. A. Lewis (28-30)		E. A. Lewis (28-30)
	E.A.L. det.		

Nos. 3722-3732 were sent by Mr. L. H. Dunn, Gorgas Memorial Laboratory, P.O. Box 5025, Ancon, Canal Zone, Panama, R. deP. on 6 Jan. 1932 to Dr. L. E. Robinson of Cooper Technical Bureau, as a gift. All the specimens except 3731 were accurately determined by Dunn as confirmed by Robinson who gave the specimens to me for our collection in Cambridge on 6.IV.1932. Robinson thinks No. 3731, a nymph, may be that of Amb. longirostre.

G.H.F.N. 7.IV.1932:-

ORIGINAL DETERMINATION

CURRENT STATUS

N	3722	N	3722
		RML	112716
	<u>Amblyomma coelebs</u>		4 ♂, 2 ♀ <u>Amblyomma coelebs</u>
	<u>Tapirella bairdi</u> (tapir)		<u>Tapirus bairdi</u>
	Panama		Panama
	1931 or before, rec'd by us 6.IV.1932		1931 or before, rec'd by us 6.IV.1932
	L. H. Dunn (2)		L. H. Dunn (2)
	L.H.D. det.		
N	3723	N	3723
		RML	112717
	<u>Amblyomma calcaratum</u>		3 ♂, 1 ♀ <u>Amblyomma varium</u>
	<u>Choloepus hoffmanni</u> (sloth)		<u>Choloepus hoffmanni</u>
	Panama		Panama
	1931 or before, rec'd by us 6.IV.1932		1931 or before, rec'd by us 6.IV.1932
	L. H. Dunn (3)		L. H. Dunn (3)
	L.H.D. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3724	N	3724
		RML	22320
	<u>Amblyomma oblongoguttatum</u>		4 ♂, 4 ♀ <u>Amblyomma oblongoguttatum</u>
	<u>Tapirella bairdi</u> (tapir)		<u>Tapirus bairdi</u>
	Panama		Panama
	1931 or before, rec'd by us 6.IV.1932		1931 or before, rec'd by us 6.IV.1932
	L. H. Dunn (4)		L. H. Dunn (4)
	L.H.D. det.		1 ♀ <u>A. oblongoguttatum</u> and 1 ♂ <u>A. cajennense</u> from this Nuttall collection are now in the RML collection.
N	3725	N	3725
		RML	112718
	<u>Amblyomma geayi</u>		3 ♂ <u>Amblyomma geayi</u>
	<u>Bradypus griseus griseus</u> (sloth)		<u>Bradypus infuscatus griseus</u>
	Panama		Panama
	1931 or before, rec'd by us 6.IV.1932		1931 or before, rec'd by us 6.IV.1932
	L. H. Dunn (5)		L. H. Dunn (5)
	L.H.D. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3726

Amblyomma nodosumTamandua tetradactyla chiriquensis
(anteater)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (6)

L.H.D. det.

N 3726

RML 112719

2 ♂, 1 ♀ Amblyomma nodosumTamandua tetradactyla chiriquensis

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (6)

N 3727

Amblyomma humerale

Tortoise

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (7)

L.H.D. det.

N 3727

RML 112720

2 ♂ Amblyomma sabanerae

Tortoise

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (7)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3728

Amblyomma concolorDasypus novemcinctus fenestratus
(armadillo)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (8)

L.H.D. det.

N 3728

RML 112721

3 ♂, 3 ♀ Amblyomma auriculariumDasypus novemcinctus fenestratus

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (8)

N 3729

Amblyomma concolorDidelphis marsupialis etensis
(opossum)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (9)

L.H.D. det.

N 3729

RML 112722

2 ♂, 2 ♀ Amblyomma auriculariumDidelphis marsupialis cauceae

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (9)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3730

Amblyomma pacaeCuniculus paca virgatus
(paca)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (10)

L.H.D. det.

N 3730

RML 112723

1 ♂, 1 ♀ Amblyomma pacaeAgouti paca virgatus

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (10)

N 3731

Amblyomma sp. NArtibeus jamaicensis jamaicensis
(bat)

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (11)

L.H.D. det.

N 3731

RML 112724

1 N Amblyomma sp.Artibeus jamaicensis jamaicensis

Panama

1931 or before, rec'd by us
6.IV.1932

L. H. Dunn (11)

Not Amb. longirostre N though similar,
scutum broader & shorter, much less
pitted in the lateral fields.
Posterior dorsal margin different.
G.H.F.N. 18.IV.1932.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3732	N	3732
		RML	112725
	<u>Ornithodoros venezuelensis</u>		10 ♂, 3 ♀, 2 N, 123 L <u>Ornithodoros rudis</u>
	Panama		Panama
	1931 or before, rec'd by us 6.IV.1932		1931 or before, rec'd by us 6.IV.1932
	L. H. Dunn (12)		L. H. Dunn (12)
	L.H.D. det.		
N	3733	N	3733
		RML	112726
	<u>Rhipicephalus sanguineus</u> ♀		1 ♀ <u>Rhipicephalus pravus</u>
	Hare (ear)		Hare (ear)
	Sangole, Kenya		Songole (01.30 S, 40.36 E), Kenya
	12.II.1931		12.II.1931
	E. A. Lewis (13)		E. A. Lewis (13)
	C. W. det.		
N	3734	N	3734
		RML	112727
	<u>Rhipicephalus appendiculatus</u> (small var.)		11 ♂, 10 ♀ <u>Rhipicephalus pravus</u>
	Hare		Hare
	Naivasha		Naivasha (00.43 S, 36.26 E), Kenya
	27.XI.1928		27.XI.1928
	E. A. Lewis (13B)		E. A. Lewis (13B)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3735	N	3735
	<u>Haemaphysalis leachi</u> (small)	RML	112728
	Hare (ear)		2 ♂, 1 ♀ <u>Haemaphysalis leachi</u>
	Sangole, Kenya		Hare (ear)
	12.II.1931		Songole (01.30 S, 40.36 E), Kenya
	E. A. Lewis (15)		12.II.1931
	C. W. det.		E. A. Lewis (15)
N	3736, a	N	3736, a
	(3736) <u>Rhipicephalus appendiculatus</u>	RML	112729
	(a) <u>Rhipicephalus evertsi</u> ♀		(3736) 55 ♂, 14 ♀, 1 N <u>Rhipicephalus pravus</u>
	Machakos, Kenya		(a) 1 ♀ <u>Rhipicephalus evertsi</u>
	2.XII.1928		Machakos (01.31 S, 37.16 E), Kenya
	E. A. Lewis (16)		2.XII.1928
	C. W. det.		E. A. Lewis (16)
N	3737	N	3737
	<u>Rhipicephalus kochi</u>	RML	112730
	Bushbuck		5 ♂, 8 ♀ <u>Rhipicephalus hurti</u>
	Karati Forest, Kenya		<u>Tragelaphus scriptus</u>
	30.VI.1931		Karati Forest (00.43 S, 36.29 E), Kenya
	E. A. Lewis (17)		30.VI.1931
	E.A.L. & C.W. det.		E. A. Lewis (17)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3738	N	3738
	<u>Haemaphysalis aciculifer</u>	RML	69895
	Bushbuck		7 ♂, 19 ♀ <u>Haemaphysalis aciculifer</u>
	Karati Forest, Kenya		<u>Tragelaphus scriptus</u>
	1.VII.1931		Karati Forest (00.43 S, 36.29 E), Kenya
	E. A. Lewis (18)		1.VII.1931
			E. A. Lewis (18)
N	3739	N	3739
	<u>Rhipicephalus simus</u>	RML	112731
	Wart hog		26 ♂, 13 ♀ <u>Rhipicephalus simus</u>
	Karati Forest, Kenya		<u>Phacochoerus aethiopicus</u>
	16.VI.1931		Karati Forest (00.43 S, 36.29 E), Kenya
	E. A. Lewis (19)		16.VI.1931
	E.A.L. & C.W. det.		E. A. Lewis (19)
N	3740	N	3740
	<u>Rhipicephalus kochi</u>	RML	112732
	Wart hog		26 ♂, 12 ♀ <u>Rhipicephalus jeanneli</u>
	Karati Forest, Kenya		<u>Phacochoerus aethiopicus</u>
	16.VI.1931		Karati Forest (00.43 S, 36.29 E), Kenya
	E. A. Lewis (20)		16.VI.1931
	C. W. det.		E. A. Lewis (20)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3741	N	3741
		RML	26114
	<u>Rhipicephalus oculatus</u>		10 ♂, 2 N <u>Rhipicephalus oculatus</u>
	<u>Lepus zuluensis</u>		<u>Lepus crawshayi zuluensis</u>
	Pretoria, Morning Market		Pretoria (26.45 S, 28.10 E), Republic of South Africa
	26.VII.1928		26.VII.1928
	R. A. Cooley (32)		R. A. Cooley (32)
	C. W. det.		
N	3742	N	3742
		RML	94464
	<u>Haemaphysalis leachi</u> larvae		8 L <u>Haemaphysalis leachi</u> group
	Dog		Dog
	Acorn Hoek, Orinoco		Acornhoek (24.36 S, 31.04 E), Republic of South Africa
	1.VIII.1928		1.VIII.1928
	R. A. Cooley (46)		R. A. Cooley (46)
	C. W. det.		
N	3743	N	3743
		RML	112733
	<u>Rhipicephalus appendiculatus</u>		24 ♂, 8 ♀, 2 N <u>Rhipicephalus</u> <u>appendiculatus</u>
	Goats		Goats
	Klasserie Farm Scotia		Klaserie (24.33 S, 31.02 E), Republic of South Africa
	30.VII.1928		30.VII.1928
	R. A. Cooley (53)		R. A. Cooley (53)
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3744	N	3744
		RML	26111
	<u>Rhipicephalus oculatus</u> ♂, ♀, 2 N		2 ♂, 2 ♀, 1 N <u>Rhipicephalus oculatus</u>
	<u>Lepus ochropus</u>		<u>Lepus capensis ochropus</u>
	Glen, O.F.S.		Glen (28.58 S, 26.20 E), Orange Free State, Republic of South Africa
	28.VIII.1928		28.VIII.1928
	R. A. Cooley (100)		R. A. Cooley (100)
	C. W. det.		
N	3745	N	3745
		RML	26141
	<u>Rhipicephalus oculatus</u>		2 ♂, 2 ♀ <u>Rhipicephalus oculatus</u>
	<u>Lepus capensis</u>		<u>Lepus capensis</u>
	Grootfontein, Middleburg		Grootfontein, Middleburg, Republic of South Africa (locality not verified; 21 possible localities)
	31.VIII.1928		31.VIII.1928
	R. A. Cooley (119)		R. A. Cooley (119)
	C. W. det.		
N	3746	N	3746
		RML	112734
	<u>Rhipicephalus appendiculatus</u>		17 ♂, 25 ♀ <u>Rhipicephalus appendiculatus</u>
	Exper. rabbit #3, Vet Lab. Stock		Exper. rabbit #3, Vet Lab. Stock
			Veterinary Research Laboratory, Onderstepoort (25.39 S, 28.11 E), Republic of South Africa
	R. A. Cooley (145)		R. A. Cooley (145)
	C. W. det.		C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3747	N	3747
		RML	26128
	<u>Rhipicephalus oculatus</u> var. <u>pravus</u>		7 ♂, 3 ♀ <u>Rhipicephalus punctatus</u>
	<u>Lepus zuluensis</u>		<u>Lepus crawshayi zuluensis</u>
	Piensaars River		Piensaars River (25.06 S, 27.34 E), Republic of South Africa
	1.X.1928		1.X.1928
	R. A. Cooley (195)		R. A. Cooley (195)
	C. W. det.		
N	3748	N	3748
		RML	112735
	<u>Rhipicephalus evertsi</u> ♂, ♀		8 ♂, 4 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Middleburg		Middleburg, Republic of South Africa (locality not verified)
	20.IX.1928		20.IX.1928
	R. A. Cooley (202)		R. A. Cooley (202)
	C. W. det.		The vial label reads Middleburg, Kenya, E. A. Lewis coll. but these data are incorrect.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3749	N	3749
		RML	26124
	<u>Rhipicephalus oculatus</u>		4 ♂, 2 ♀, 1 N <u>Rhipicephalus oculatus</u>
	<u>Lepus zuluensis</u>		<u>Lepus crawshayi zuluensis</u>
	Piensaars River, Silverton Farm		Piensaars River (25.06 S, 27.34 E), Silverton Farm, Republic of South Africa
	1.X.1928		1.X.1928
	R. A. Cooley (211)		R. A. Cooley (211)
	C. W. det.		
N	3750	N	3750
		RML	26150
	<u>Rhipicephalus oculatus pravus</u> form		16 ♂, 1 ♀, 12 N <u>Rhipicephalus punctatus</u>
	<u>Lepus zuluensis</u>		<u>Lepus crawshayi zuluensis</u>
	Acorn Hoek, Fleur de Lys		Acornhoek (24.36 S, 31.04 E), Republic of South Africa
	30.VII.1932		30.VII.1928
	R. A. Cooley (219)		R. A. Cooley (219)
	C. Warburton det.		The date 1932 is incorrect. Dr. Cooley's only trip to South Africa was in 1928.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3751	N	3751
	<u>Haemaphysalis silacea</u>	RML	25839
	Cattle		1 ♂, 1 ♀ <u>Haemaphysalis silacea</u>
	Bathurst		Cattle
	12.IX.1928		Either Bathurst (25.32 S, 23.27 E) or (33.31 S, 26.50 E), Republic of South Africa
	R. A. Cooley (220)		12.IX.1928
	C. Warburton det.		R. A. Cooley (220)
N	3752	N	3752
	<u>Rhipicephalus evertsi</u>	RML	66619
	Sheep		30 ♂, 4 ♀ <u>Rhipicephalus evertsi</u>
	Klasserie, Farm Scotia		Klaserie (24.33 S, 31.02 E), Republic of South Africa
	31.VII.1928		31.VII.1928
	R. A. Cooley (236)		R. A. Cooley (236)
	C. Warburton det.		
N	3753	N	3753 MISSING
	<u>Boophilus decoloratus</u>		
	Sable antelope		
	Acorn Hoek, Spring Valley		
	4.VIII.1928		
	R. A. Cooley (243)		
	C. Warburton det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3754	N	3754
	<u>Argas persicus</u>	RML	112736
	In pepper trees		11 ♂, 12 ♀, 11 N <u>Argas walkerae</u>
	Queenstown		In pepper trees
	17.IX.1928		Queenstown (31.54 S, 26.53 E), Republic of South Africa
	R. A. Cooley (269)		17.IX.1928
	C. Warburton det.		R. A. Cooley (269)
N	3755	N	3755 MISSING
	<u>Ornithodoros megnini</u>		
	Cattle		
	Queenstown		
	18.IX.1928		
	Lounsbury		
	R. A. Cooley no. 271		
	C. Warburton det.		
N	3756	N	3756 MISSING
	<u>Amblyomma hebraeum</u>		
	Cow		
	Pretoria, Nefdt Siding		
	27.IX.1928		
	Lounsbury		
	R. A. Cooley no. 277		
	C. Warburton det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3757	N	3757
	<u>Ornithodoros megnini</u>	RML	112737
	Horses		38 N <u>Otobius megnini</u>
	Petersburg O.F.S.		Horses
	27.IX.1928		Perhaps Petrusburg (29.07 S, 25.25 E), Orange Free State, Republic of South Africa
	C. S. Biggs		27.IX.1928
	R. A. Cooley no. 304		C. P. Lounsbury
	C. Warburton det.		Catalogue and vial label disagree on collector of this material.
N	3758	N	3758
	<u>Haemaphysalis leachi</u>	RML	25830
	Dog		7 ♂, 5 ♀ <u>Haemaphysalis</u> sp.
	Klasserie		Dog
	27.VII.1928		Klaserie (24.33 S, 31.02 E), Republic of South Africa
	R. A. Cooley (307)		27.VII.1928
	C. Warburton det.		R. A. Cooley (307)
N	3759	N	3759
	<u>Rhipicephalus appendiculatus</u>	RML	112738
	Dog		13 ♂, 19 ♀ <u>Rhipicephalus appendiculatus</u>
	Sand River		Dog
	R. A. Cooley (71)		Sand River (33.11 S, 22.08 E), Republic of South Africa
	C. Warburton det.		R. A. Cooley (71)
			The date of this collection is 28.VII.1928 - see Cooley (1934:28)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3760	N	3760
		RML	112739
	<u>Rhipicephalus evertsi</u>		10 ♂, 7 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Queenstown		Queenstown (31.54 S, 26.53 E), Republic of South Africa
	R. A. Cooley (no number)		R. A. Cooley (no number)
	C. Warburton det.		
N	3761	N	3761
		RML	66681
	<u>Rhipicephalus pulchellus</u> ♂'s, ♀'s		9 ♂, 32 ♀ <u>Rhipicephalus pulchellus</u>
	Somaliland		Somali Democratic Republic
	Gift 1930		Gift 1930
	Dr. Bachelli		Dr. Bachelli
	Prof. Franchini gift		
	C. W. det.		
N	3762	N	3762
		RML	112740
	<u>Hyalomma aegyptium</u> var.		90 ♂, 9 ♀ <u>Hyalomma rufipes</u> 2 ♂ <u>Hyalomma truncatum</u> 2 ♂ <u>Hyalomma dromedarii</u>
	Dog & Sheep		Dog & Sheep
	Agerdat, Eritraea		Agordat (15.32 N, 37.52 E), Ethiopia
	Gift 1931		Gift 1931
	Dr. Ganova		Dr. Ganova
	Prof. Franchini gift		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3763	N	3763
		RML	112741
	<u>Haemaphysalis cinnabarina</u> var. <u>punctata</u>		2 ♂, 2 ♀ <u>Haemaphysalis sulcata</u>
	Goats		Goats
	Cyprus		Cyprus
	Gift 1929		Gift 1929
	Dr. P. A. Buxton gift		Dr. P. A. Buxton gift
	C. W. det.		
N	3764	N	3764
		RML	112742
	<u>Rhipicephalus simus</u> N's		2 ♂, 58 N <u>Rhipicephalus simus</u>
	From nest of <u>Arvicanthis</u>		From nest of <u>Arvicanthis</u> sp.
	Kenya Colony		Kenya
	1930		1930
	J. I. Roberts (1729)		J. I. Roberts (1729)
	C. W. det.		
N	3765	N	3765
		RML	112743
	<u>Haemaphysalis leachi</u>		12 ♂, 18 ♀, 2 N <u>Haemaphysalis leachi</u>
	From nest of <u>Arvicanthis</u>		From nest of <u>Arvicanthis</u> sp.
	Kenya Colony		Kenya
			Probably 1930
	J. I. Roberts (1736)		J. I. Roberts (1736)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3766	N	3766
		RML	112744
	<u>Rhipicephalus sanguineus</u> 2 N		2 N <u>Rhipicephalus sanguineus</u>
	Attacking man in large numbers		<u>Homo sapiens</u>
	Region of Akbou (Kabylie), Algeria		Akbou (36.28 N, 04.32 E), Algeria
	Sent to me 2.VIII.1932		Sent to me 2.VIII.1932
	Sent by M. Marc André		Sent by M. Marc André
	C. W. det. 5.VIII.1932		
	M. André (Museum National d'Hist. Nat., Lab. de Zool., 61 rue Buffon, Paris) wrote 2.VIII.1932: "Cette espèce s'est développée dans cette région en si grande abondance dans certains jardins, qu'on ne peut y circuler sans en être couvert." G.H.F.N.		
N	3767	N	3767 MISSING
	<u>Ixodes ricinus</u> larvae		
	Attacking man (harvesters). One brought to England on Boycott's arm.		
	Glengariff, S. W. Ireland		
	VIII.1929		
	Prof. A. E. Boycott, F.R.S. London Sent 11.XII for det.		
	G.H.F.N. det 20.XII.1929		
	(Mounted on slide) balsam.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3768

Ornithodoros papillipes
TYPE material

Caucasus

Before 1895. Rec'd from
E. P.....Gift of Prof. E. Pavlovsky
Leningrad. His slides No's 51 & 52

A. Birula det. No. 718

(Dorsum, venter, hypostome
chelicerae, mounted on 2 slides).

N 3769

Ornithodoros talaje (1 specimen)

From Mrs. Neuman's house

Ransomville, N.Y., U.S.A.

Gift of Prof. R. Matheson of
Cornell, Univ.

C. W. & G.H.F.N. det.

See Matheson R. (1931)
Parasitology vol. 23 p. 270 re this.

N 3768

RML 112745

1 ♂ Ornithodoros tholozani
SYNTYPE of O. papillipes

Caucasus Mountains, U.S.S.R.

Before 1895. Rec'd from
E. P.....Gift of Prof. E. Pavlovsky
Leningrad. His slides No's 51 & 52Birula (1895: 354), original
descriptionThe second slide of this series
is missing.

N 3769

RML 112746

1 ♀ Ornithodoros kelleyi

From Mrs. Neuman's house

Ransomville (43.14 N, 78.55 W),
New York, U.S.A.

9.I.1928

Mrs. R. A. Neuman

Cited: Matheson (1931: 270).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3770	N	3770 MISSING
	<u>Amblyomma nuttalli</u> larvae		
	Raised from ♀ off tortoise		
	Onderstepoort, Pretoria, S. Africa		
	11.X.1930		
	Gift of H. S. Purchase		
	(Mounted in balsam on slide).		
N	3771	N	3771 MISSING
	<u>Ixodes pilosus</u>		
	Bushbuck (head & shoulders)		
	Uplands, Kenya Colony		
	5.V.1931		
	Dr. E. A. Lewis		
	C. W. det.		
N	3772	N	3772
	<u>Amblyomma gemma</u>	RML	112747
	Cattle		114 ♂, 16 ♀ <u>Amblyomma gemma</u>
	Marsabit, N.F.D., Kenya Colony		2 ♂ <u>Rhipicephalus pulchellus</u>
	10.X.1930		Cattle
	V. O. Mulligan		Marsabit (02.20 N, 37.59 E), Kenya
	E.A.W. & C.W. det.		10.X.1930
			V. O. Mulligan

ORIGINAL DETERMINATIONCURRENT STATUS

N	3773	N	3773
	<u>Hyalomma aegyptium</u>	RML	95074
	Cattle (abdomen)		11 ♂, 2 ♀ <u>Hyalomma albiparmatum</u>
	Kedong Valley, Kenya Colony		Cattle
	15.I.1931		Nkidong Valley (01.10 S, 36.30 E), Kenya
	E. A. Lewis		15.I.1931
	C. W. det.		E. A. Lewis
	Schulze's <u>impressum albiparmatum</u> .		Hoogstraal (1956a: 517) illustrated 1 ♂, 1 ♀ of this species.
N	3774	N	3774 MISSING
	<u>Rhipicephalus evertsi</u>		
	Sheep (under tail)		
	Ngobit Laikipia, Kenya Colony		
	14.VI.1931		
	E. A. Lewis		
	C. W. det.		
N	3775	N	3775
	<u>Rhipicephalus simus</u>	RML	112748
	Sheep		39 ♂, 28 ♀ <u>Rhipicephalus simus</u>
	Marsabit, N.F.D., Kenya Colony		1 ♂ <u>Rhipicephalus pulchellus</u>
	1.II.1931		Sheep
	E. A. Lewis		Marsabit (02.20 N, 37.59 E), Kenya
	C. W. det.		1.II.1931
			E. A. Lewis

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3776	N	3776
	<u>Rhipicephalus pulchellus</u>	RML	112749
	Cattle		9 ♂, 7 ♀ <u>Rhipicephalus pulchellus</u>
	Ngobit, Laikipia, Kenya		Cattle
	14.I.1931		Ongobit (00.03 S, 36.47 E), Laikipia District, Kenya
	E. A. Lewis		14.I.1931
	E.A.L. & C.W. det.		E. A. Lewis
N	3777	N	3777
	<u>Rhipicephalus maculatus</u>	RML	112750
	Rhinoceros		6 ♂ <u>Rhipicephalus maculatus</u>
	Mount Kenya, Kenya		<u>Diceros bicornis</u>
	3.VI.1930		Mount Kenya (00.10 S, 37.20 E), Kenya
	E. A. Lewis		3.VI.1930
	E.A.L. & C.W. det.		E. A. Lewis
N	3778	N	3778
	<u>Margaropus winthemi</u>	RML	112751
	Cattle "imported" (whence?)		2 ♀ <u>Margaropus winthemi</u>
	Mombasa, Kenya		Cattle "imported" (whence?)
	29.X.1930		Mombasa (04.03 S, 39.40 E), Kenya
	E. A. Lewis		29.X.1930
	E.A.L. & C.W. det.		E. A. Lewis

ORIGINAL DETERMINATIONCURRENT STATUS

N	3779	N	3779 MISSING
	<u>Ornithodoros megnini</u>		
	Cattle (ears) imported		
	Nairobi (quarantine) Kenya		
	1.IV.1931		
	E. A. Lewis		
	E.A.L. & C.W. det.		
N	3780	N	3780
		RML	112752
	<u>Rhipicephalus pulchellus</u> larvae		1 L <u>Rhipicephalus pulchellus</u>
	Reared from ♀		
	Zebra (abdomen)		<u>Equus burchelli</u>
	Athi Plains, Kenya		Athi Plains (01.24 S, 36.54 E), Kenya
	4.X.1930		4.X.1930
	E. A. Lewis		E. A. Lewis
	E.A.L. det.		
N	3781	N	3781
		RML	69894
	<u>Haemaphysalis aciculifer</u> 1 N		9 N <u>Haemaphysalis aciculifer</u>
	raised from ♀		
	Bushbuck (head)		<u>Tragelaphus scriptus</u>
	Karati Forest, Kenya		Karati Forest (00.43 S, 36.29 E), Kenya
	2.II.1931		2.II.1931
	E. A. Lewis		E. A. Lewis
	E.A.L. det.		Cited: Santos Dias (1958: 535).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3782	N	3782
		RML	113176
	<u>Rhipicephalus simus</u> (chiefly)		276 ♂, 160 ♀ <u>Rhipicephalus simus</u> 1 ♂ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Kijabe, Kenya		Kijabe (00.56 S, 36.34 E), Kenya
	15.I.1931		15.I.1931
	E. A. Lewis		E. A. Lewis
	C. W. det.		
N	3783	N	3783
		RML	115896
	<u>Hyalomma aegyptium</u>		1 ♂, 16 ♀ <u>Hyalomma anatolicum</u> <u>excavatum</u>
	Host unknown		Host unknown
	Arabia		Saudi Arabia
	Reported back by us 10.VI.1930		Reported back by us 10.VI.1930
	Dr. Ganova		Dr. Ganova
	Sent by Prof. Franchini		Sent by Prof. Franchini
	C. W. det.		
N	3784	N	3784
		RML	113177
	<u>Ornithodoros</u> sp. larvae		+500 L <u>Ornithodoros</u> sp.
	Domestic hen Massive infestation on piece of skin		Hen, domestic
	Palestine		Israel
	Rec'd by us 8.VII.1927		Rec'd by us 8.VII.1927
	G. E. Bodkin		G. E. Bodkin
	From I.B.E. No. 1562		Specimens attached to skin.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3785

N 3785

RML 113178

Rhipicephalus bursa11 ♂, 3 ♀ Rhipicephalus evertsi
2 ♂, 1 ♀ Rhipicephalus sanguineus

Sheep (& dog, ticks mixed by collector)

Sheep (& dog, ticks mixed by collector)

Eritrea, Italian Somaliland

Eritrea (15.20 N, 39.00 E), Ethiopia

Rec'd by us 25.III.1931

Rec'd by us 25.III.1931

Dr. Ganova

Dr. Ganova

Sent by Prof. Franchini

N 3786

N 3786

RML 105680

Amblyomma gemma ♂'s, ♀'s16 ♂, 6 ♀ Amblyomma gemma
1 ♀ Hyalomma rufipes

Host unknown

Host unknown

Italian Somaliland

Somali Democratic Republic

Rec'd by us I.1932

Rec'd. by us I.1932

Dr. Bachelii

Dr. Bachelii

Sent by Prof. Franchini

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3787

Rhipicephalus pulchellus
? 2 ♂, many ♀

Host unknown

Italian Somaliland

Rec'd by us I.1932

Dr. Bachelli

Sent us by Prof. Franchini

C. W. det.

C. Warburton notes ♂ with pattern
obsolete, ♀ mixed.

N 3787

RML 113179

2 ♂ Rhipicephalus pulchellus
68 ♂, 77 ♀ Rhipicephalus humeralis

Host unknown

Somali Democratic Republic

Rec'd by us I.1932

Dr. Bachelli

Some of the ♀'s listed above may be
R. pulchellus

N 3788

Rhipicephalus pulchellus

Host unknown

Madisces, Italian Somaliland

2.III.1932

Dr. Bachelli

Sent by Prof. Franchini

C. Warburton notes "both varieties"
(I ask is this bad & good
preservation?) G.H.F.N. 15.VIII.1932

N 3788

RML 105681

42 ♂ Rhipicephalus pulchellus
108 ♂, 122 ♀ Rhipicephalus humeralis
1 ♂ Amblyomma eburneum
1 ♀ Hyalomma impeltatum

Host unknown

Madisces, Somali Democratic Republic
(locality not verified)

2.III.1932

Dr. Bachelli

Some of the ♀'s listed under R.
humeralis are R. pulchellus but
have not been separated.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3789

Ixodes kingi 1 ♂, 1 ♀

Dog

(Saskatoon?), Saskatchewan, Canada

18.VI.1930

Dr. L. G. Saunders

F.C.B. det.

C. Warburton notes: 12.VII.30 in letter to Saunders, like what we conceive to be Ix. pratti, but Banks muddled the species: Bishopp said Bank's ♂ pratti = ricinus & Banks's ♀ pratti = Ix. kingi. (Refer to Bishopp).

N.B. sent to Dr. F. C. Bishopp, U.S. Dept. of Agric., Bureau of Entomol., Washington, D.C. 20.I. who replied 6.II.1933 & returned specimens to me saying species somewhat variable, our 3789 fairly typical. He notes that lateral carinae of ♂s scutum extend further back than in type ♂ basis capituli with postero lateral angles not produced quite as strongly as in type. G.H.F.N. 17.II.1933.

N 3790

Ornithodoros talaje

Colombia, S. America

Rec'd. 3.X.1927

Dr. Pamfano

Sent us for identif. by
Dr. P. A. Buxton, rest returned

C. W. det.

N 3789

RML 113180

1 ♂, 1 ♀ Ixodes kingi

Dog

? Saskatoon (52.07 N, 106.38 W)
Saskatchewan, Canada

18.VI.1930

Dr. L. G. Saunders

N 3790

RML 113181

4 ♀ Ornithodoros talaje

Colombia

Rec'd. 3.X.1927

Dr. Pamfano

ORIGINAL DETERMINATIONCURRENT STATUS

N 3791

Ixodes acutitarsus 1 ♀

Found on ground

Lachen, India

21.III.1931

Ex tube No. 6647
 Arthropod Section
 Calcutta School of Trop. Med.
 Sent by C. Strickland

C. W. det.

2791, 2792 in one bottle. Rare.

N 3791

RML 97788

1 ♀ Ixodes acutitarsus

Found on ground

Lachen (27.44 N, 88.33 E), India

21.III.1931

Ex tube No. 6647
 Arthropod Section
 Calcutta School of Trop. Med.
 Sent by C. Strickland

N 3792

Ixodes acutitarsus 1 ♂

Lachen, India

21.X.1931

Ex tube No. 6648
 Arthropod Section
 Calcutta School of Trop. Med.
 Sent by C. Strickland

C. W. det.

3791, 3792 in one bottle. Rare.

N 3792

RML 97788

1 ♂ Ixodes acutitarsus

Lachen (27.44 N, 88.33 E), India

21.X.1931

Ex tube No. 6648
 Arthropod Section
 Calcutta School of Trop. Med.
 Sent by C. Strickland

ORIGINAL DETERMINATIONCURRENT STATUS

N 3793

Dermacentor everestiana
1 ♂, 2 ♀ gorged

Sheep

Dochen, Tibet (14,700 feet alt.)

19.VIII.1931

Ex tube No. 6573
Arthropod Section
Calcutta School of Trop. Med.
Sent by C. Strickland

C. W. det.

3793 See Warburton letter of 18.XI.1931
to Strickland: C. W. states type of
species 1 ♂ is in Brit. Museum.
Stanley Hirst gave but brief descr.
& named it, but died before giving
full description. (Report Book p. 123).

N 3794

Ixodes tenuirostris 1 ♂, 1 ♀

Found in nest of field mouse

Oxfordshire

3.III.1927

C. S. Elton (Oxford)

C. W. det.

N 3793

RML 113182

1 ♂, 2 ♀ Dermacentor everestianus

Sheep

Tocheng (28.09 N, 89.18 E),
Tibetan Autonomous Republic,
Peoples Republic of China (4481 m)

19.VIII.1931

Ex tube No. 6573
Arthropod Section
Calcutta School of Trop. Med.
Sent by C. Strickland

Cited: Arthur (1960b: 142).

N 3794

RML 113183

1 ♂, 1 ♀ Ixodes trianguliceps

Found in nest of field mouse

Oxfordshire (51.45 N, 01.10 W)
England

3.III.1927

C. S. Elton (Oxford)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3795	N	3795
		RML	113184
	<u>Ornithodoros peringueyi</u> (6 specimens)		2 ♂, 3 ♀, 1 N <u>Ornithodoros peringueyi</u>
	From nests of <u>Petrochelidon spilodera</u> , S. African Cliff Swallow		<u>Hirundo spilodera</u> , nests of
	Onderstepoort, Pretoria		Onderstepoort (25.39 S, 28.11 E), Republic of South Africa
	VI.1927		VI.1937
	G. A. H. Bedford (donor)		G. A. H. Bedford (donor)
	G.A.H.B. det.		See also N3865
	3795 See description of species; Bedford & Hewitt (XII.1925) <u>S.</u> <u>Afric. J. of Nat. Hist., Pretoria</u> <u>5, 259, pl. XIX, figs. 1-3; types</u> from infested native church, Ngamakwe, Cape Province 10.XII.1923.		
N	3796, a	N	3796, a
		RML	113185
	(3796) <u>Rhipicephalus sanguineus</u> ♂'s, ♀'s		(3796) 5 ♂, 16 ♀, 5 N <u>Rhipicephalus</u> <u>sanguineus</u>
	(a) <u>Boophilus annulatus</u> ♀'s gorged		(a) 5 ♀ <u>Boophilus microplus</u>
	Dog		Dog
	Near Georgetown, Brit. Guiana		Near Georgetown (06.48 N, 58.10 W) Guyana
	1930		1930
	W. Beveridge		W. Beveridge
	Sent by Dr. P. A. Buxton & not wanted back. III.1931		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3797

Ornithodoros coriaceus 1 ♀

California

Rec'd. 4.VI.1931 alive

Miss Florence M. Frost's gift to me,
brought by her who has worked on its
biol.

G.H.F.N. & F.M.F. det.

(mounted in cell on slide).

N 3797 MISSING

N 3798

Ornithodoros moubata
N's unfed, 1st stageRaised in sender's laboratory near
Manchester, England

Rec'd ca. 13.I.1930

Mr. Chas. D. Radford

G.H.F.N. & others det.

N 3798

RML 113186

36 N Ornithodoros moubataRaised in sender's laboratory near
Manchester (53.30 N, 02.13 W),
England

Rec'd ca. 13.I.1930

Mr. Chas D. Radford

ORIGINAL DETERMINATIONCURRENT STATUS

N	3799	N	3799
		RML	113187
	<u>Rhipicephalus appendiculatus</u> all stages		84 ♂, 36 ♀, 54 N <u>Rhipicephalus</u> <u>appendiculatus</u>
	Cattle		Cattle
	Stock Farm, Mbarara Ankole & Mbarara Quarantine		Mbarara (00.37 S, 30.39 E), Uganda
	Received 2,3,4,9, & 10.II.1932		Received 2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (9)		Received from R. W. Mettam, Entebbe, Uganda (9)
	C. W. det.		
N	3800	N	3800
		RML	113188
	<u>Amblyomma variegatum</u>		34 ♂ <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Mbarara Quarantine		Mbarara (00.37 S, 30.39 E), Uganda
	Received 2,3,4,9, & 10.II.1932		Received 2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (9)		Received from R. W. Mettam, Entebbe, Uganda (9)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3801

Rhipicephalus appendiculatus

Sheep

Kichwamba, Lake George

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (25,44)

C. W. det.

N 3801

RML 113189

36 ♂, 16 ♀ 2 N Rhipicephalus
appendiculatus

Sheep

Kichwamba, Lake George (00.00,
30.12 E), Uganda

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (25,44)

N 3802

Rhipicephalus appendiculatus
small & N's

Goat

Kichwamba, Lake George

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (31)

C. W. det.

N 3802

RML 113190

1 ♂, 2 N Rhipicephalus appendiculatus

Goat

Kichwamba, Lake George (00.00,
30.12 E), Uganda

Received 2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (31)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3803	N	3803
		RML	113191
	<u>Rhipicephalus appendiculatus</u>		7 ♂, 2 ♀ <u>Rhipicephalus appendiculatus</u>
	Lamb		Sheep
	Kichwamba, Lake George		Kichwamba, Lake George (00.00, 30.12 E), Uganda
	2,3,49, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (46)		Received from R. W. Mettam, Entebbe, Uganda (46)
	C. W. det.		
N	3804	N	3804
		RML	113192
	<u>Rhipicephalus appendiculatus</u>		6 ♂, 7 ♀, 61 N, 2 L <u>Rhipicephalus appendiculatus</u>
	Goat		Goat
	Kabak, Kigesu		Kabak, District of Kigezi (01.00 S, 29.45 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (52)		Received from R. W. Mettam, Entebbe, Uganda (52)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3805

N 3805

Rhipicephalus appendiculatus

RML 113193

7 ♂, 13 ♀, 12 N Rhipicephalus
appendiculatus

Sheep

Sheep

Kabak, Kigesí

Kabak, District of Kigezi (01.00 S,
29.45 E), Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (53)Received from R. W. Mettam,
Entebbe, Uganda (53)

C. W. det.

N 3806

N 3806

Rhipicephalus appendiculatus

RML 113194

111 ♂, 77 ♀, 137 N Rhipicephalus
appendiculatus

Cattle

Cattle

Kabak, Kigesí

Kabak, District of Kigezi (01.00 S,
39.45 E), Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (54,56)Received from R. W. Mettam,
Entebbe, Uganda (54,56)

C. W. det.

This collection also contained
2 ♂, 1 ♀ Haematopinus quadripertusus
(Insecta: Anoplura).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3807

N 3807

RML 113195

Rhipicephalus appendiculatus
good varia's46 ♂, 72 ♀, 109 N Rhipicephalus
appendiculatus

Cattle

Cattle

Kabak, Kigesi

Kabak, District of Kigezi (01.00 S,
29.45 E), Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (55)Received from R. W. Mettam,
Entebbe, Uganda (55)

C. W. det.

N 3808

N 3808

RML 113296

Rhipicephalus appendiculatus75 ♂, 60 ♀ Rhipicephalus
appendiculatus

Cattle

Cattle

Lake Bunoyoni, Kigesi

Lake Bunoyoni, District of Kigezi
(01.00 S, 29.45 E), Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (63)Received from R. W. Mettam,
Entebbe, Uganda (63)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3809

N 3809

RML 113197

Rhipicephalus appendiculatus104 ♂, 54 ♀, 5 N Rhipicephalus
appendiculatus

Cattle

Cattle

Kabale in Toro

Kabale (00.28 N, 30.12 E),
District of Kigizi, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (66)Received from R. W. Mettam,
Entebbe, Uganda (66)

C. W. det.

N 3810

N 3810

RML 113198

Rhipicephalus appendiculatus20 ♂, 18 ♀ Rhipicephalus
appendiculatus

Cattle

Cattle

Old Entebbe

Old Entebbe (00.03 N, 32.26 E),
Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (70,71)Received from R. W. Mettam,
Entebbe, Uganda (70,71)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3811

Amblyomma variegatum

Cattle

Old Entebbe

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (70,71)

C. W. det.

N 3812

Rhipicephalus appendiculatus
(feeble)

Cattle

Buruli

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (98)

C. W. det.

N 3811

RML 113199

9 ♂, 7 ♀, 4 N Amblyomma variegatum

Cattle

Old Entebbe (00.03 N, 32.26 E),
Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (70,71)

N 3812

RML 113200

5 ♂, 9 ♀ Rhipicephalus appendiculatus

Cattle

Either District of Buruli (01.20 N,
32.20 E) or (01.35 N, 31.50 E),
Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (98)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3813

N 3813

Rhipicephalus appendiculatus

RML 113201

16 ♂, 19 ♀, 1 N Rhipicephalus
appendiculatus

Cattle

Cattle

Old Entebbe

Old Entebbe (00.03 N, 32.26 E),
Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (71)Received from R. W. Mettam,
Entebbe, Uganda (71)

C. W. det.

N 3814

N 3814

Rhipicephalus appendiculatus

RML 113202

6 ♂ Rhipicephalus appendiculatus

Cattle

Cattle

Buruli

Either District of Buruli (01.20 N,
32.20 E) or (01.35 N, 31.50 E),
Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (99)Received from R. W. Mettam,
Entebbe, Uganda (99)

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3815	N	3815
		RML	113203
	<u>Rhipicephalus evertsi</u>		2 ♂ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Buruli		Either District of Buruli (01.20 N, 32.20 E), or (01.35 N, 31.50 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (99)		Received from R. W. Mettam, Entebbe, Uganda (99)
	C. W. det.		Locality on vial label is Entebbe
N	3816	N	3816
		RML	113204
	<u>Amblyomma variegatum</u> adults, N's		5 ♂, 3 ♀, 5 N <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Buruli		Either District of Buruli (01.20 N, 32.20 E), or (01.35 N, 32.50 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (00,100)		Received from R. W. Mettam, Entebbe, Uganda (99,100)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3817	N	3817
		RML	113205
	<u>Rhipicephalus evertsi</u>		2 ♂, 1 N <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Entebbe		Entebbe (00.04 N, 32.28 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (117)		Received from R. W. Mettam, Entebbe, Uganda (117)
	C. W. det.		
N	3818	N	3818
		RML	113206
	<u>Rhipicephalus appendiculatus</u>		16 ♂, 20 ♀, 6 N <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Entebbe		Entebbe (00.04 N, 32.28 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (117)		Received from R. W. Mettam, Entebbe, Uganda (117)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3819	N	3819
		RML	113207
	<u>Rhipicephalus appendiculatus</u>		1 ♂, 5 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Sukulu, Tororo		Sukulu (00.39 N, 34.10 E), District of Tororo, Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (118)		Received from R. W. Mettam, Entebbe, Uganda (118)
	C. W. det.		
N	3820	N	3820
		RML	113208
	<u>Amblyomma variegatum</u>		26 ♂, 7 ♀ <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Sukulu, Tororo		Sukulu (00.39 N, 34.10 E), District of Tororo, Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (118)		Received from R. W. Mettam, Entebbe, Uganda (118)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3821

N 3821

Amblyomma variegatum N's

RML 113209

8 N Amblyomma variegatum

Goat

Goat

Sukulu, Tororo

Sukulu (00.39 N, 34.10 E),
District of Tororo, Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (120)Received from R. W. Mettam,
Entebbe, Uganda (120)

C. W. det.

N 3822

N 3822

Amblyomma variegatum ♂'s, ♀'s

RML 113210

50 ♂, 6 ♀ Amblyomma variegatum
2 ♂ Rhipicephalus appendiculatus

Cattle

Cattle

Lira Stock Farm, Lango

Lira Stock Farm, District of Lango
(02.10 N, 33.00 E), Uganda

2,3,4,9, & 10.II.1932

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (124)Received from R. W. Mettam,
Entebbe, Uganda (124)

C. W. det.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3823	N	3823
		RML	113211
	<u>Rhipicephalus appendiculatus</u>		20 ♂, 7 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Lira Stock Farm, Lango		Lira Stock Farm, District of Lango (10.10 N, 33.00 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (124,125)		Received from R. W. Mettam, Entebbe, Uganda (124,125)
	C. W. det.		
N	3824	N	3824
		RML	105786, 113212
	<u>Amblyomma variegatum</u> ♂'s, ♀'s		96 ♂, 11 ♀, 7 N <u>Amblyomma variegatum</u> 1 ♂ <u>Rhipicephalus appendiculatus</u>
	Lira Stock Farm, Lango		Lira Stock Farm, District of Lango
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (125)		Received from R. W. Mettam, Entebbe, Uganda (125)
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3825	N	3825
		RML	113213
	<u>Rhipicephalus appendiculatus</u>		1 ♂, 7 ♀ <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Masindi, Bunyoro		Masindi (01.41 N, 31.43 E), District of Bunyoro, Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (126)		Received from R. W. Mettam, Entebbe, Uganda (126)
	C. W. det.		
N	3826	N	3826
		RML	115883
	<u>Rhipicephalus appendiculatus</u>		5 ♂, 15 ♀ <u>Rhipicephalus appendiculatus</u>
	Sheep		Sheep
	Masindi, Bunyoro		Masindi (01.41 N, 31.43 E) District of Bunyoro, Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (127)		Received from R. W. Mettam, Entebbe, Uganda (127)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3827

Amblyomma variegatum

Cattle

Masindi, Bunyoro

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (126)

N 3827

RML 113214

12 ♂, 13 ♀, 2 N Amblyomma variegatum

Cattle

Masindi (01.41 N, 31.43 E),
District of Bunyoro, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (126)

N 3828

Amblyomma variegatum

Cattle

Jinja, Busoga

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Enteb-e, Uganda (130)

C. W. det.

N 3828

RML 113215

87 ♂, 11 ♀ Amblyomma variegatum

Cattle

Jinja (00.26 N, 33.12 E),
District of Busoga, Uganda

2,3,4,9, & 10.I.1932

Received from R. W. Mettam,
Entebbe, Uganda (130)

ORIGINAL DETERMINATIONCURRENT STATUS

N 3829, a

(3829) Haemaphysalis pammata
 σ^1 's, f^1 's
 (a) Ixodes rarus 1 f , 1 N

Bushbuck

Kyagwe, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
 Entebbe, Uganda (142)

C. W. det.

N 3829, a

RML 88410

(3829) 1 σ , 4 f Haemaphysalis pammata
 (a) 1 f , 1 N Ixodes cumulatimpunctatus

Tragelaphus scriptus

County of Kyagwe (00.25 N, 32.50 E),
 District of Buganda, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
 Entebbe, Uganda (142)

(a) Cited: Arthur & Burrow (1957:
 505) who stated that the
 collection contained 1 f , 10 N.

N 3830

Rhipicephalus appendiculatus

Cattle

Mpungwe, Kojja

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
 Entebbe, Uganda (83)

C. W. det.

N 3830

RML 113216

204 σ , 81 f Rhipicephalus
appendiculatus

Cattle

Mpungwe (00.27 N, 33.31 E),
 District of Busoga, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
 Entebbe, Uganda (83)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3831	N	3831
		RML	113217
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s, N's		7 ♂, 6 ♀, 1 N <u>Rhipicephalus</u> <u>appendiculatus</u>
	Calves, Halfbred		Calves, halfbred
	Luwafu, Koja		Luwafu, Koja, Uganda (locality not verified)
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (85)		Received from R. W. Mettam, Entebbe, Uganda (85)
	C. W. det.		
N	3832	N	3832
		RML	113218
	<u>Rhipicephalus appendiculatus</u>		169 ♂, 49 ♀, 1 N <u>Rhipicephalus</u> <u>appendiculatus</u>
	Cattle		Cattle
	Mpungwe, Koja		Mpungwe (00.27 N, 33.31 E), District of Busoga, Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (90)		Received from R. W. Mettam, Entebbe, Uganda (90)
	C. W. det.		

ORIGINAL DETERMINATION

CURRENT STATUS

N	3833	N	3833
		RML	113219
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s		192 ♂, 46 ♀, 2 N <u>Rhipicephalus</u> <u>appendiculatus</u>
	Cattle		Cattle
	Mpungwe, Koja		Mpungwe (00.27 N, 33.31 E), District of Busoga, Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (91)		Received from R. W. Mettam, Entebbe, Uganda (91)
	C. W. det.		
N	3834	N	3834
		RML	113220
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s, N's		144 ♂, 53 ♀ <u>Rhipicephalus</u> <u>appendiculatus</u>
	Cattle		Cattle
	Mpungwe, Koja		Mpungwe (00.27 N, 33.31 E), District of Busoga, Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (92)		Received from R. W. Mettam, Entebbe, Uganda (92)
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3835	N	3835
		RML	113221
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s, N's		129 ♂, 59 ♀, 2 N <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Mpungwe, Koja		Mpungwe (00.27 N, 33.31 E), District of Busoga, Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (93,95)		Received from R. W. Mettam, Entebbe, Uganda (93,95)
	C. W. det.		
N	3836	N	3836
		RML	113222
	<u>Rhipicephalus appendiculatus</u> ♂'s, ♀'s, N's		217 ♂, 141 ♀, 2 N <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Luwafu, Koja		Luwafu, Koja (00.10 N, 32.47 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (147,150)		Received from R. W. Mettam, Entebbe, Uganda (147,150)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3837

Rhipicephalus appendiculatus
♂'s & ♀'s

Cattle

Buruli & Jinja, Busoga, Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (100 ♂'s, ♀'s
130 1 ♀)

N 3837

RML 113223

8 ♂, 4 ♀ Rhipicephalus
appendiculatus

Cattle

Either County of Buruli (01.20 N,
32.20 E), or (01.35 N, 31.50 E) &
Jinja (00.26 N, 33.12 E), Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (100 ♂'s, ♀'s,
130 1 ♀)

N 3838

Rhipicephalus appendiculatus
many N's few ♂'s & ♀'s

Cattle

Luwafu, Koja & Mpungwe, Koja

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (85 & 150 from
Luwafu) (83,90,91,92,93,95 from
Mpungwe)In all his No's the nymphs were
found with adults which are
preserved separately.

C. W. det.

N 3838

RML 113224

1 ♀, 155 N Rhipicephalus
appendiculatus

Cattle

Luwafa, Koja (00.10 N, 32.47 E),
and Mpungwe (00.27 N, 33.31 E),
Uganda

2,3,4,9, & 10.II.1932

Received from R. W. Mettam,
Entebbe, Uganda (85 & 150 from
Luwafu) (83,90,91,92,93,95 from
Mpungwe)

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3839	N	3839
		RML	113225
	<u>Amblyomma variegatum</u> ♂'s, ♀'s, N's		6 ♂, 2 ♀, 3 N <u>Amblyomma</u> <u>variegatum</u>
	Cattle		Cattle
	Mpungwe, Koja		Mpungwe (00.27 N, 33.31 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (83a)		Received from R. W. Mettam, Entebbe, Uganda (83a)
	C. W. det.		
N	3840	N	3840
		RML	113226
	<u>Amblyomma variegatum</u> ♂'s, ♀'s, N's & L		5 ♂, 2 ♀, 33 N, 63 L <u>Amblyomma</u> <u>variegatum</u>
	Cattle & Waterbuck		Cattle & <u>Kobus ellipsiprymus</u>
	Cattle-Mbarara, Ankole, Mpungwe, Koja, Buruli; Waterbuck-Chambura River, Lake George (N's & L's only)		Cattle-Mbarara (00.37 S, 30.30 E), Mpungwe (00.27 N, 33.31 E) Buruli (01.20 N, 32.20 E) or (01.35 N, 31.50 E), Waterbuck-Chambura River (00.07 S, 30.04 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (4,91-93,95 cattle) (34 waterbuck)		Received from R. W. Mettam, Entebbe, Uganda (4,91-93,95 cattle) (34 waterbuck)
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3841	N	3841
		RML	113227
	<u>Amblyomma</u> sp. prob. <u>variegatum</u> N's & L's		9 N, 18 L <u>Amblyomma variegatum</u>
	Cattle		Cattle
	Mpungwe, Koja and Luwafu, Koja		Mpungwe (00.27 N, 33.31 E), and Luwafu (locality not verified), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (83,90,92 Mpungwe) (85 & 150 Luwafu)		Received from R. W. Mettam, Entebbe, Uganda (83,90,92 Mpungwe) (85 & 150 Luwafu)
	In lot 92 4 L's were found with <u>A. variegatum</u> adults & N's.		
	C. W. det.		
N	3842	N	3842 MISSING
	<u>Boophilus decoloratus</u> ♂'s, ♀'s & N's		
	Cattle		
	Stock Farm, Mbarara, Koja; Lake Bunyoni Kigesi; Old Entebbe; Mpungwe, Koja; Lira Stock Farm, Lango		
	2,3,4,9, & 10.II.1932		
	Received from R. W. Mettam, Entebbe, Uganda (4 Mbarara); (63 Lake Bunyoni); (71 Old Entebbe); (90,91,93 Mpungwe); (124 Lango)		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3843	N	3843
		RML	113228
	<u>Rhipicephalus evertsi</u> ♂'s & ♀'s		6 ♂, 3 ♀ <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Old Entebbe		Old Entebbe (00.03 N, 32.26 E), Uganda
	2,3,4,9, & 10.II.1932		2,3,4,9, & 10.II.1932
	Received from R. W. Mettam, Entebbe, Uganda (71)		Received from R. W. Mettam, Entebbe, Uganda (71)
	C. W. det.		
N	3844	N	3844 MISSING
	<u>Rhipicephalus appendiculatus</u> N monstrosity		
	Cattle		
	Mpungwe, Koja		
	2,3,4,9, & 10.II.1932		
	Received from R. W. Mettam, Entebbe, Uganda (93)		
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3845

N 3845

Rhipicephalus ayrei 4 ♂, 2 ♀
CO-TYPES

RML 113229

4 ♂, 2 ♀ Rhipicephalus compositus
Syntypes of R. ayrei

Buffalo (abdomen)

Syncerus caffer

Mount Kenya, Kenya Colony

Mount Kenya (00.10 S, 37.20 E),
Kenya

28.X.1930

28.X.1930

E. A. Lewis, Vet Lab., Kabete
(His No. 23) Donor

E. A. Lewis

E.A.L. & C.W. det.

♀ vulva mounted on a slide

See paper by Lewis, Parasitology
vol. 25 p. 269, figs. (1933).Lewis (1933: 269) original
description. Cited: Santos Dias
(1958: 473) who gave the total
number of ticks in this collection
as 3 ♂, 1 ♀.

See also Report p. 129.

No's 3846-3852 were sent 22.VII.1932 by Dr. Charles Searle, Maragua P.O. Nanyuki, Kenya Colony, stating he had 2 cases of typhus on a farm (Maragua) among Europeans. The ticks from dogs in close contact with the cases, sleeping in their beds. Some of the cattle healthy. 18 cases of typhus among Europeans with 1 death. Typhus apparently only in game district where all kind of game abound. Note some ticks rotten. rotten evertsi had black legs:-

N 3846

N 3846 MISSING

Boophilus decoloratus ♂'s, ♀'s, N's

Cattle

Maragua, Kenya Colony

21-22.VII.1932

Dr. C. Searle coll. & gift
Lots 1 & 2 combined

C. W. det.

3846 given to D. S. MacLagan
14/10/38.

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3847	N	3847
		RML	113230
	<u>Rhipicephalus evertsi</u> ♂'s, ♀'s, N's		16 ♂, 14 ♀, 6 N <u>Rhipicephalus evertsi</u>
	Cattle		Cattle
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	21-22.VII.1932		21-22.VII.1932
	Dr. C. Searle coll. & gift Lots 1,2,4 combined		Dr. C. Searle
	C. W. det.		
N	3848	N	3848
		RML	113231
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		10 ♂, 3 ♀ <u>Hyalomma truncatum</u>
	Cattle		Cattle
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	21-22.VII.1932		21-22.VII.1932
	Dr. C. Searle coll. & gift Lots 1 & 4 combined		Dr. C. Searle
	C. W. det.		
N	3849	N	3849
		RML	113232
	<u>Boophilus australis</u> ♀'s		3 ♀, 1 N <u>Boophilus decoloratus</u>
	Cattle		Cattle
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	1932		1932
	Dr. C. Searle coll. & gift, Lot 4		Dr. C. Searle
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3850	N	3850
		RML	113233
	<u>Rhipicephalus pulchellus</u> 2 ♂'s		2 ♂ <u>Rhipicephalus pulchellus</u>
	Man (2 men) (the smaller from Lord "K", the larger from man with typhus)		<u>Homo sapiens</u>
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	1932		1932
	Dr. C. Searle coll. & gift Lots 3 & 5 combined		Dr. C. Searle
	C. W. det.		
N	3851	N	3851
		RML	113234
	<u>Haemaphysalis leachi</u> 7 ♀'s		7 ♀ <u>Haemaphysalis leachi</u>
	Dog		Dog
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	1932		1932
	Dr. C. Searle coll. & gift, Lot 6		Dr. C. Searle
	C. W. det.		
N	3852	N	3852
		RML	105659
	<u>Rhipicephalus simus</u> or <u>falcatus</u> 1 ♀		1 ♀ <u>Rhipicephalus hurti</u>
	Dog		Dog
	Maragua, Kenya Colony		Maragua (00.47 S, 37.08 E), Kenya
	1932		1932
	Dr. C. Searle coll. & gift, Lot 6		Dr. C. Searle
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3853	N	3853
		RML	113235
	<u>Amblyomma nuttalli</u> 3 ♂'s, 1 ♀, larvae		3 ♂, 1 ♀ <u>Amblyomma nuttalli</u>
	<u>Varanus albigularis</u> (general on body)		<u>Varanus exanthematicus</u>
	Sokoke Forest, Kenya		Sokoke Forest (03.29 S, 39.50 E), Kenya
	4.VII.1932		4.VII.1932
	E. A. Lewis donor (40)		E. A. Lewis
	E.A.L. & C.W. det.		Theiler & Salisbury (1959: 115) incorrectly gave this collection Nuttall number 3953.
			Some eggs and 1 larva raised from the 1 ♀ are in a separate vial.
N	3854	N	3854
		RML	113236
	<u>Rhipicephalus maculatus</u> 7 ♂'s, 7 ♀'s		7 ♂, 6 ♀ <u>Rhipicephalus maculatus</u>
	<u>Elephas africanus</u> (anus)		<u>Loxodonta africana</u>
	Tana River, Kenya		Tana River (02.32 S, 40.31 E), Kenya
	14.VI.1932		14.VI.1932
	E. A. Lewis donor (41)		E. A. Lewis
	E.A.L. & C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3855, a	N	3855
		RML	113237
	(3855) <u>Ornithodoros franchini</u> ♀		1 ♀, 25 L <u>Ornithodoros foleyi</u>
	(a) <u>Ornithodoros franchini</u> larvae		
	Found on ground		Found on ground
	Kiefur, Cyrenaica		Kiefur, Cyrenaica (31.00 N, 22.30 E), Libya
	Sent 26.IX.1932		Sent 26.IX.1932
	Dr. Floris		Dr. Floris
	Sent by Prof. Franchini.		
N	3856	N	3856
		RML	113238
	<u>Dermacentor rhinocerotis</u>		1 ♂ <u>Dermacentor rhinocerus</u>
	var. <u>permaculatus</u> 1 ♂		
	Black rhinoceros		<u>Diceros bicornis</u>
	North Rhodesia		Zambia
	Rec'd 6.VII.1932		Rec'd 6.VII.1932
	H. S. Purchase.		H. S. Purchase.
			Cited: Hoogstraal (1954b: 277)
N	3857	N	3857
		RML	113239
	<u>Ixodes acutitarsus</u> ♂, ♀		1 ♂, 1 ♀ <u>Ixodes acutitarsus</u>
	Man (biting)		<u>Homo sapiens</u>
	Darjeeling, Himalayas		Darjeeling (27.02 N, 88.16 E), India
	13.XI.1925		13.XI.1925
	Ex. Calcutta Museum No. 3132		Ex. Calcutta Museum No. 3132
	Arthropod Section		Arthropod Section
			Cited: Hoogstraal (1970c: 80)

ORIGINAL DETERMINATIONCURRENT STATUS

N	3858	N	3858
		RML	113240
	<u>Ixodes hexagonus</u> ♀'s		6 ♀ <u>Ixodes hexagonus</u>
	Dog		Dog
	Cambridge		Cambridge (52.13 N, 00.08 E), England
	V.1932		V.1932
	Dr. Boyes		
	C. W. det.		
N	3859	N	3859
		RML	105682
	<u>Amblyomma testudinarium</u> ♂'s, ♀'s		35 ♂, 17 ♀ <u>Amblyomma testudinarium</u> 1 ♀ <u>Dermacentor auratus</u> group
	Sambar, <u>Cervus aristotelis</u>		<u>Cervus unicolor</u>
	Dhumpara, Res. Forest, India		Dhumpara, Res. Forest, India (locality not verified)
	V.1926		V.1926
	E. Duars, Sent by C. Strickland his No. 1A		E. Duars
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3860	N	3860
		RML	113241
	<u>Derma-centor auratus</u> ♂'s, ♀'s		50 ♂, 22 ♀ <u>Derma-centor auratus</u> group
	<u>Cervus aristotelis</u>		<u>Cervus unicolor</u>
	Dhumpara, Res. Forest, India		Dhumpara, Res. Forest, India (locality not verified)
	V.1926		V.1926
	E. Duars. Sent by C. Strickland his No. 1 tube		E. Duars
	C. W. det.		
N	3861	N	3861
		RML	113242
	<u>Amblyomma testudinis</u> 1 ♂		1 ♂ <u>Amblyomma testudinis</u>
	Tortoise		Tortoise
	Jujuy, Argentina		Probably Provincia de Jujuy (23.00 S, 66.00 W), Argentina
	Rec'd: 25.VI.1932		Rec'd 25.VI.1932
	A. Mazza		A. Mazza
	Rec'd from Prof. G. Franchini.		
N	3862	N	3862
		RML	113243
	<u>Ixodes percavatus</u> 3 ♀'s		2 ♀ <u>Ixodes auritulus zelandicus</u>
	Dove Petrel		Probably <u>Pachyptila desolata</u>
	Stephens Island		Stephens Island (40.40 S, 174.00 E), New Zealand
	I.1922		I.1922
	R. J. Tillyard coll. & sender		R. J. Tillyard coll. & sender
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3863	N	3863
		RML	113244
	<u>Ixodes</u>		2 ♂, 1 ♀, 1 N <u>Ixodes anatis</u>
	Kiwi, <u>Apteryx</u>		<u>Apteryx australis mantelli</u>
	Wallaceville, New Zealand		Wallaceville (41.08 S, 175.03 E), New Zealand
	Rec'd. 17.III.1921		Rec'd. 17.III.1921
	Rec'd. from H. A. Reid		Rec'd. from H. A. Reid
	C. W. det.		
	Maskell's <u>aptericola</u> ? 3 ♂, 1 ♀, 1 N.		
N	3864	N	3864
		RML	88309
	<u>Aponomma</u> 3 ♂, 1 ♀, 6 N, 2 L		2 ♂, 1 ♀, 6 N, 2 L <u>Aponomma</u> <u>sphenodonti</u>
	<u>Sphenodon punctata</u> (Tuatara lizard)		<u>Sphenodon punctatus</u>
	Stephens Island, New Zealand		Stephens Island (40.40 S, 174.00 E), New Zealand
	22.I.1922		22.I.1922
	R. J. Tillyard		R. J. Tillyard
	C. W. det.		These specimens are part of the same collection of ticks from which Dumbleton (1944: 186B) described <u>Aponomma sphenodonti</u> .
			An additional 1 ♂, 1 N <u>Aponomma</u> <u>sphenodonti</u> are in the collection of Dr. Harry Hoogstraal NAMRU-3 Cairo.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3865

Ornithodoros peringueyiPetrochelidon spilodera
S. African Cliff SwallowOnderstepoort nr. Pretoria,
S. Africa

31.VIII.1931

G.A.H. Bedford. Sent 1.IX.1931

3865 See also 3795 both numbers
not co-types, but gift from
Bedford (Onderstepoort).

N 3866

Haemaphysalis cooleyi 3 ♂Procavia capensis coomsiOnderstepoort nr. Pretoria,
S. Africa

5.VI.1931

G.A.H. Bedford. Sent 1.IX.1931

Bedford det.

3866 Haem. cooleyi Bedford, see
Ann. Rep. Dir. Veter. Services,
Onderstepoort, S. Africa, 1929.
This species described on p. 494,
pl II, figs. 3A & D. All figs.
bad. See paper by Warburton dis-
cussing this sp. in Parasitology.

N 3865

RML 66157

1 ♂, 2 ♀ Ornithodoros peringueyiHirundo spiloderaOnderstepoort (25.39 S, 28.11 E),
Republic of South Africa

31.VIII.1931

G.A.H. Bedford. Sent 1.IX.1931

N 3866

RML 113246

3 ♂ Haemaphysalis cooleyiProcavia capensisOnderstepoort (25.39 S, 28.11 E),
Republic of South Africa

5.VI.1931

G.A.H. Bedford. Sent 1.IX.1931

These are the specimens upon which
Warburton (1933: 566) based his
redescription of the ♂. Cited:
Hoogstraal (1956b:164).

Chelicerae mounted on a slide.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3867

Rhipicephalus punctatus 3 ♂
CO-TYPEProcavia capensis coombiOnderstepoort nr. Pretoria,
S. Africa

5.VI.1931

G.A.H. Bedford

Rhip. punctatus Bedford 1929
Same ref. as 3866, p. 495, pl. III,
figs, 4B & D, & 5B. See ms. note
by Warburton in correspondence re
Bedford 1.IX.1931.

N 3867

RML 113247

3 ♂ Rhipicephalus distinctusProcavia capensisOnderstepoort (25.39 S, 28.11 E),
Republic of South Africa

5.VI.1931

G.A.H. Bedford

With a collection date of 5.VI.1931,
these do not appear to be types.

N 3868

Haemaphysalis spinulosa 2 ♂

Warthog

Lake Naivasha, Kenya Colony

II.1931

G.A.H. Bedford
Sent 1.IX.1931.

N 3868

RML 113248

1 ♂ Haemaphysalis spinulosaPhacochoerus aethiopicusLake Naivasha (00.46 S, 36.21 E),
Kenya

II.1931

G.A.H. Bedford
Sent 1.IX.1931.
Cited & figured: Hoogstraal (1964b:788).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3869	N	3869
	<u>Rhipicephalus</u> sp.?	RML	113249
	<u>Nyala</u> <u>angasi</u>		3 ♂, 1 ♀, 4 N <u>Rhipicephalus</u> <u>muehlensi</u>
	False Bay, Zululand		<u>Tragelaphus</u> <u>angasi</u>
	4.II.1930		False Bay (27.59 S, 32.23 E), Zululand, Republic of South Africa
	G.A.H. Bedford Sent 1.IX.1931		4.II.1930
			G.A.H. Bedford Sent 1.IX.1931
N	3870	N	3870
	<u>Rhipicephalus</u> <u>theileri</u> 1 ♂ CO-TYPE	RML	113250
	<u>Atelerix</u> <u>frontalis</u>		1 ♂ <u>Rhipicephalus</u> <u>theileri</u>
	Petrusburg O.F.S.		<u>Erinaceus</u> <u>frontalis</u>
	1931		Petrusburg (29.07 S, 25.25 E), Orange Free State, Republic of South Africa
	G.A.H. Bedford. Sent 1.IX.1931		1931
	Bedford det.		G.A.H. Bedford. Sent 1.IX.1931
			This is not a type specimen.
N	3871	N	3871
	<u>Aponomma</u> <u>laeve</u> 2 ♂, 2 ♀	RML	113251
	<u>Dendraspis</u> <u>angusticeps</u>		1 ♂, 1 ♀ <u>Aponomma</u> <u>latum</u>
	Pretoria Zoo		<u>Dendroaspis</u> <u>angusticeps</u>
	25.VII.1931		Zoological Park, Pretoria (25.45 S, 28.10 E), Republic of South Africa
	G.A.H. Bedford. Sent 1.IX.1931		25.VII.1931
	C. W. det.		G.A.H. Bedford. Sent 1.IX.1931

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3872	N	3872
	<u>Ixodes petauristae</u> 1 ♀	RML	113252
	<u>Petaurista phillipensis</u> (Sciuridae)		1 ♀ <u>Ixodes petauristae</u> Holotype
	C. P. Ceylon (Mousa Kande, Gommaduwa)		<u>Petaurista petaurista</u>
	Rec'd V.1930		Mousakande (07.34 N, 80.43 E), Sri Lanka
	? "(W. W. Phillips)" From Tring Museum, Herts per Mr. J. J. Cox		Rec'd V.1930
	C. W. det.		? "(W. W. Phillips)" From Tring Museum, Herts per Mr. J. J. Cox
			Warburton (1933: 558), original description.
N	3873	N	3873
	<u>Ixodes ampullaceus</u> 1 ♀	RML	113253
	<u>Cricetomys ganibicus</u> (edible rat)		1 ♀ <u>Ixodes ugandanus</u> Lectotype of <u>I. ampullaceus</u> .
	Ankole, Uganda		<u>Cricetomys gamianus</u>
	Sent us 11.III.1931		Kingdom of Ankole (00.30 S, 30.30 E), Uganda
	Rupert L. L. Hart		Sent us 11.III.1931
	C. W. det.		Rupert L. L. Hart
			Warburton (1933: 559) original description of <u>I. ampullaceus</u> . Lectotype designated: Keirans & Brewster (1981: 164).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3874

N 3874

Dermacentor imitans 12 ♂, 1 ♀
TYPES

10 ♂, 1 ♀ Dermacentor imitans
Lectotype and paralectotypes

Pecari angulatus (peccary)

Tayassu tajacu

Turrialba, Costa Rica

Turrialba (09.54 N, 83.41 W),
Costa Rica

1.VIII.1927

1.VIII.1927

W. J. Hamilton Junr.
Gift of Prof. R. Matheson,
Cornell Univ.

W. J. Hamilton, Jr.

Warburton (1933: 559), original
description. Cited: Arthur (1960:
97). Lectotype designated: Keirans
& Brewster (1981: 158).

N 3875

N 3875

Aponomma draconis 3 ♂, 6 ♀
TYPES

3 ♂, 6 ♀ Aponomma komodoense
Lectotype and paralectotypes of
A. draconis

Varanus komodoensis

Varanus komodoensis

Komodo Isl., Flores, Dutch E. Indies
but for some years at Zool. Soc.
Gdns., London

Komodo Island (08.36 S, 119.30 E),
Indonesia but for some years in the
Zoological Gardens, London, England.

Sent us IV.1931

Sent us IV.1931

Dr. P. A. Buxton

Dr. P. A. Buxton

C. W. det.

Warburton (1933: 564) original
description. Lectotype designated:
Keirans & Brewster (1981: 158).

ORIGINAL DETERMINATIONCURRENT STATUS

N	3876	N	3876 MISSING
	<u>Haemaphysalis</u> sp. 1 N dent. 2/2		
	<u>Paradoxurus hermaphroditus</u> Subsp.		
	Sungei Buloh, Selangor		
	1.V.1930		
	Mr. B.A.R. Gater "1073"		
	C. W. det. 20.I.1931.		
N	3877	N	3877
	<u>Haemaphysalis</u> sp. 3 ♂	RML	113256
	<u>Tragulus kanchil fulviventer</u>		3 ♂ <u>Haemaphysalis traguli</u>
	Sungei Buloh, Selangor		<u>Tragulus javanicus</u>
	3.V.1930		Kampung Sungai Buloh (03.15 N, 101.18 E), Selangor, Malaysia
	Mr. B.A.R. Gater "1080"		
	C. W. det. 20.I.1931.		
N	3878	N	3878 MISSING
	<u>Haemaphysalis</u> sp. 1 ♂, 1 ♀		
	<u>Tragulus kanchil fulviventer</u>		
	Sungei Buloh, Selangor		
	26.III.1930		
	Mr. B.A.R. Gater "1014"		
	C. W. det. 20.I.1931.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3879	N	3879
		RML	113257
	<u>Rhipicephalus maculatus</u> 5 ♂, 4 ♀		5 ♂, 4 ♀ <u>Rhipicephalus maculatus</u>
	Elephant (general)		<u>Loxodonta africana</u>
	Tana River, Kenya Colony		Tana River (02.32 S, 40.31 E), Kenya
	8.V.1932		8.V.1932
	C. Oulton (on 22.VII.1932 rec'd from Lewis "No. 39")		C. Oulton
	C. W. det.		
	*N.B. fine coloration!		
N	3880	N	3880
		RML	22291, RML 71456
	<u>Haemaphysalis aculeata</u> 4 ♂, 1 ♀, 1 N		4 ♂, 1 ♀ <u>Haemaphysalis aculeata</u>
	Off own person		<u>Homo sapiens</u>
	Bangalore, E. India		Bangalore (12.59 N, 77.35 E), India
	3.II.1926		3.II.1926
	C. Strickland 3218 Calcutta Sch. of Trop. Med. He wrote 29.III.1926		C. Strickland
	C. W. det.		Three slides of dissections ♂ hypostome ♂ spiracular plate ♂ legs I & IV.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3881	N	3881
		RML	105660
	<u>Rhipicephalus kochi</u> 2 ♂ (very small)		1 ♂ <u>Rhipicephalus muehlensi</u> 3 ♂ <u>Rhipicephalus sanguineus</u>
	Hare (on ear)		Hare
	Sangole, Kenya Colony		Songole (01.30 S, 40.36 E), Kenya
	12.II.1931		12.II.1931
	E. A. Lewis 14		E. A. Lewis 14
	C. W. det.		
N	3882	N	3882
		RML	113258
	<u>Rhipicephalus kochi</u> 13 ♂, 2 ♀		10 ♂, 1 ♀ <u>Rhipicephalus jeanneli</u> 1 ♀ <u>Rhipicephalus hurti</u>
	Cattle (tail)		Cattle
	Loilokitok, Kenya Colony (Southern Masai Preserve, foot of Mt. Kilimanjaro)		Oloitokitok (02.56 S, 37.30 E), Kenya
	8.II.1932		8.II.1932
	E. A. Lewis 31		E. A. Lewis 31
	C. W. det.		
N	3883	N	3883
		RML	113259
	<u>Rhipicephalus kochi</u> 9 ♂, 12 ♀		9 ♂, 12 ♀ <u>Rhipicephalus hurti</u>
	Cattle (on bush of tail)		Cattle
	Loilokitok, Kenya Colony		Oloitokitok (02.56 S, 37.30 E), Kenya
	8.II.1932		8.II.1932
	E. A. Lewis 32		E. A. Lewis 32
	C. W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3884	N	3884
		RML	113260
	<u>Hyalomma aegyptium impressum</u> 2 ♂, 10 ♀		2 ♂, 9 ♀ <u>Hyalomma truncatum</u>
	Cattle (on groin)		Cattle
	Lake Magadi, Kenya Colony		Lake Magadi (01.52 S, 36.17 E), Kenya
	24.II.1932		24.II.1932
	E. A. Lewis 33		E. A. Lewis 33
	C. W. det.		
N	3885	N	3885 MISSING
	<u>Rhipicephalus kochi</u> 1 ♂, 4 ♀ (not characteristic)		
	Cattle (on udder)		
	Loitokitok, Kenya Colony		
	8.II.1932		
	E. A. Lewis 34		
	C. W. det.		
N	3886	N	3886
		RML	66624
	<u>Hyalomma aegyptium impressum</u> 5 ♂, 3 ♀		6 ♂, 2 ♀ <u>Hyalomma rufipes</u>
	Cattle (abdomen)		Cattle
	Lamongo, Kenya Colony		Lamongo, Masai Reserve, Kenya (locality not verified)
	4.II.1932		4.II.1932
	E. A. Lewis 35		E. A. Lewis 35
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3887	N	3887
		RML	113261
	<u>Hyalomma aegyptium impressum</u> 5 ♂, 2 ♀		5 ♂, 2 ♀ <u>Hyalomma truncatum</u>
	Cattle (groin)		Cattle
	Merueshi, Kenya Colony		Merueshi (02.22 S, 37.33 E), Kenya
	15.II.1932		15.II.1932
	E. A. Lewis 36		E. A. Lewis 36
	C. W. det.		1 ♂ with white parma.
N	3888	N	3888
		RML	113262
	<u>Amblyomma lepidum</u> 1 ♂		1 ♂ <u>Amblyomma lepidum</u>
	Goats (native) on abdomen		Goats
	Kacheliba, Suk, Kenya Colony		Kuchelebai (01.29 N, 35.01 E), Kenya
	9.V.1932		9.V.1932
	E. A. Lewis 38		E. A. Lewis 38
	C. W. det.		
N	3889	N	3889
		RML	113263
	<u>Rhipicephalus sanguineus</u> 4 ♂		4 ♂ <u>Rhipicephalus sanguineus</u>
	<u>Neotis cafra</u> (crown of head)		<u>Neotis cafra</u>
	Kajiado Plains, Kenya Colony		Kajiado District (02.00 S, 36.45E), Kenya
	12.VII.1932		12.VII.1932
	E. A. Lewis 42		E. A. Lewis 42
	C. W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3890	N	3890
		RML	97544
	<u>Ornithodoros franchini</u> 4		1 ♀ <u>Ornithodoros foleyi</u>
	Bengasi, Cirenaica, N. Africa		Bengasi (32.07 N, 20.04 E), Libya
	Sent 11.VI.1930		Sent 11.VI.1930
	Sent by Prof. G. Franchini (Modena)		Sent by Prof. G. Franchini (Modena)
	See Warburton (1932) <u>Parasitology</u> vol. 24 No. 4 P.... Franchini wrote that this tick causes "tick bite fever" in Cirenaica & probably lives on small rodents in grottoes along- side rivulets. Tonelli - Rondelli types come [from] a hole, Oasis of Gadames, Tripolitania.		An additional ♀ <u>O. foleyi</u> is in the collection of Dr. H. Hoogstraal, NAMRU-3, Cairo
			Cited: Warburton (1933: 565); Hoogstraal & Kaiser (1960: 446)
N	3891, a	N	3891a
		RML	113264
	(3891) <u>Ixodes pilosus</u> 1 ♂, 1 ♀ (a) <u>Rhipicephalus oculatus</u> 4 ♂'s 1 ♀		(3891) MISSING (a) 4 ♂, 1 ♀ <u>Rhipicephalus punctatus</u>
	<u>Oreotragus</u> ♀		<u>Oreotragus oreotragus</u>
	Ishingiro Hill, Ishingiro County Ankole, Uganda 5100 ft.		Ishingiro Hill, District of Ishingiro (00.50 S, 30.55 E), Ankole, Uganda (1554m)
	28.XI.1931		28.XI.1931
	Rec'd from W. F. Poulton; Director Vet. Services, P.O. Box 141 Kampala, Uganda 9.I.1932		Rec'd from W. F. Poulton; Director Vet. Services, P.O. Box 141 Kampala, Uganda 9.I.1932
	C. Warburton det.		♀ vulva removed and mounted on a slide.

ORIGINAL DETERMINATION	CURRENT STATUS
N 3892	N 3892
	RML 113265
<u>Rhipicephalus appendiculatus</u> 6 ♂, 5 ♀ (small)	7 ♂, 2 ♀, 2 N <u>Rhipicephalus appendiculatus</u>
<u>Oreotragus</u> ♂	<u>Oreotragus oreotragus</u> ♂
Shot at Ishingiro	County of Ishingiro (00.50 S, 30.55), District of Ankole, Uganda (1585 m)
2.XII.1931	2.XII.1931
Rec'd from W. F. Poulton 2. Director, Vet. Services, P.O. Box 141, Kampala, Uganda 9.I.1932	Rec'd from W. F. Poulton 2. Director, Vet. Services, P.O. Box 141, Kampal, Uganda 9.I.1932
C. Warburton det.	
N 3893, a, b	N 3893, a, b
	RML 105661
(3893) <u>Amblyomma variegatum</u> 1 ♂ (a) <u>Rhipicephalus simus</u> ♂, ♀ (many)	(3893) 1 ♂ <u>Amblyomma variegatum</u> (a) 22 ♂, 22 ♀ <u>Rhipicephalus simus</u> (a) 3 ♂ <u>Rhipicephalus hurti/jeanneli</u> group
(b) <u>Haemaphysalis pammata</u> 1 ♂, 6 ♀, 1 N	(b) 6 ♀, 1 N <u>Haemaphysalis pammata</u>
Buffalo ♂	<u>Syncerus caffer</u> ♂
Shot N. Masha Plains, Ishingiro County, Ankole Uganda 4,600 ft.	Perhaps Masha Game Reserve (00.39 S, 30.48 E), County of Ishingiro, District of Ankole, Uganda (1402 m)
30.XI.1931	30.XI.1931
Rec'd from W. F. Poulton 3.	Rec'd from W. F. Poulton 3.
C. W. det.	

ORIGINAL DETERMINATIONCURRENT STATUS

N 3894, a

N 3894, a

RML 113266

(3894) Rhipicephalus appendiculatus
♂'s, ♀'s (feebly developed)(a) Ixodes pilosus 1 ♂, 1 ♀(3894) 5 ♂, 4 ♀ Rhipicephalus
appendiculatus(a) 1 ♂, 1 ♀ Ixodes cavipalpusOreotragus ♂Oreotragus oreotragus ♂Shot at Ishingiro Hill, Ishingiro
Co., Uganda 5200 ft.Ishingiro Hill, County of
Ishingiro (00.50 S, 30.55 E),
District of Ankole, Uganda (1585 m)

2.XII.1931

2.XII.1931

Rec'd from W. F. Poulton 4.

Rec'd from W. F. Poulton 4.

C. W. det. (3894)

G.H.F.N. det. (3894a)

Oreotragus = "Klipspringer"
5 tubes of ticks from 3 of these
antelopes were rec'd no indic.
as to which is which 2 tubes of
28.XI. at 5100 ft. 3 tubes of
2.XII. at 5200 ft.

G.H.F.N.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3895

N 3895

(3895) Ixodes pilosus 2 ♂, 4 ♀
 (a) Rhipicephalus pravus ♂'s, ♀'s

RML 113267

(3895) 2 ♂, 4 ♀ Ixodes cavipalpus
 (a) 21 ♂, 13 ♀ Rhipicephalus punctatus

Oreotragus ♂Oreotragus oreotragus ♂

Shot at Ishingiro Hill, Ishingiro
 Co., Uganda 5200 ft.

Ishingiro Hill, District of
 Ishingiro (00.50 S, 30.55 E),
 Ankole, Uganda (1585 m)

2.XII.1931

2.XII.1931

Rec'd from W. F. Poulton 5.

Rec'd from W. F. Poulton 5.

C. W. det.

Cited: Walker (1956: 250)

3895a. Rh. pravus Dönitz 1910
 differs from Rh. oculatus Nn. 1901
 (a beady eyed sp.) in having an
 ordinary eye, whence the name
 "pravus", the eye being "not right"
 writes Dönitz.
 Fide C.W. seem to be intermediate
 between appendiculatus and oculatus,
 eyes not beady, but anal plates broad.

N 3896

N 3896

Rhipicephalus simus 2 ♂, 3 ♀

RML 113268

2 ♂, 3 ♀ Rhipicephalus simus

Wart Hog ♂

Phacochoerus aethiopicus ♂

Lugeye Valley-Ishingiro Co.,
 Ankole, Uganda 4300 Ft.

Lugeye Valley, District of
 Ishingiro (00.50 S, 30.55 E),
 Ankole, Uganda (1311 m)

28.XI.1931

28.XI.1931

Rec'd from W.F. Poulton 6.

Rec'd from W.F. Poulton 6.

C.W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3897, a

N 3897

RML 113269

(3897) Rhipicephalus appendiculatus
♂'s, ♀'s(3897) 7 ♂, 9 ♀ Rhipicephalus
appendiculatus(a) Ixodes pilosus 2 ♀

(a) MISSING

Oreotragus ♀Oreotragus oreotragus ♀Ishingiro Hill, Ishingiro Co.,
Ankole, Uganda 5100 ft.Ishingiro Hill, County of Ishingiro
(00.50 S, 30.55 E), District of
Ankole, Uganda (1554 m)

28.XI.1931

28.XI.1931

Rec'd from W. F. Poulton 7.

Rec'd from W. F. Poulton 7.

C. W. Det.

2891-97 reply 20.I.1932 by
air mail.

N 3898

N 3898

RML 113270

Amblyomma cajennense 3 ♂, 2 ♀3 ♂, 2 ♀ Amblyomma oblongoguttatumCrax panamensis (wild turkey)Crax rubraShot near Alhajuela, Panama
RepublicAlhajuela (09.11 N, 79.38 W),
Panama

Sent to me 23.VIII.1921

Sent to me 23.VIII.1921

L. H. Dunn 336

L. H. Dunn 336

C. W. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3899

Amblyomma parvum 2 ♂, 1 ♀, 5 NSigmodon hispidus chiriquensis
(the cotton rat)

Balboa, Panama Canal Zone

Sent to me 23.VIII.1921

L. H. Dunn 371

(Caught host in grass)

2 spp? L.E.R. det.

N 3899

RML 113271

1 ♂, 2 ♀, 5 N Amblyomma parvumSigmodon hispidus chiriquensis

Balboa (08.57 N, 79.34 W), Panama

Sent to me 23.VIII.1921

L. H. Dunn 371

N 3900, a

(1900) Amblyomma geayi 6 ♂, 1 ♀
(a) Amblyomma varium 1 ♂Bradypus griseus griseus
(3-toed sloth)

Balboa, Panama Canal Zone

Sent to me 23.VIII.1921

L. H. Dunn 380-2

3900 eyes distinct, long palps
3900a eyes obscure, short palps
G.H.F.N.

N 3900, a

RML 113272

(1900) 5 ♂, 1 ♀ Amblyomma geayi
(a) 1 ♂ Amblyomma variumBradypus infuscatus griseus

Balboa (08.57 N, 79.34 W), Panama

Sent to me 23.VIII.1921

L. H. Dunn 380-2

ORIGINAL DETERMINATIONCURRENT STATUS

N	3901	N	3901
		RML	113273
	<u>Ornithodoros talaje</u> 13 difft. stages		4 ♂, 6 ♀, 1 N <u>Ornithodoros talaje</u>
	From bamboo bed in native hut		From bamboo bed in native hut
	Doubtless Panama Canal Zone		Doubtless Panama
	Sent to me 23.VIII.1921		Sent to me 23.VIII.1921
	L. H. Dunn 385		L. H. Dunn 385
	C. W. det.		
N	3902, a	N	3902, a
		RML	113274
	(3902) <u>Ixodes ricinus</u> var. <u>scapularis</u> 1 ♀		(3902) 1 ♀ <u>Ixodes affinis</u>
	(a) <u>Amblyomma parvum</u> 1 ♂, 1 N (very small)		(a) 1 ♂, 1 N <u>Amblyomma parvum</u>
	<u>Felis pardalis mearnsi</u> (ocelot)		<u>Felis pardalis mearnsi</u>
	Host killed near La Cabima, Panama Republic		La Cabima (09.08 N, 79.32 W), Panama
	Sent me on 23.VIII.1921		Sent me on 23.VIII.1921
	L. H. Dunn 395		L. H. Dunn 395
	C. W. det.		
N	3903	N	3903
		RML	113275
	<u>Amblyomma parvum</u> ♂, ♀, 1 N		75 ♂, 11 ♀, 1 N <u>Amblyomma parvum</u> 1 ♂ <u>Haemaphysalis juxtakochi</u>
	Goat (young)		Goat
	Host wandering on Ancon Hill, Ancon, Panama Canal Zone		Ancon Hill (08.57 N, 79.33 W), Panama
	Sent me 23.VIII.1921		Sent me 23.VIII.1921
	L. H. Dunn 404		L. H. Dunn 404
	N. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3904	N	3904
		RML	113276
	<u>Amblyomma personatum</u> ~♂, 6 ♀		31 ♂, 6 ♀ <u>Amblyomma personatum</u>
	Rhinoceros		<u>Diceros bicornis</u>
	N'Gobit River, Kenya Colony		Ngobit River (01.17 N, 36.47 E), Kenya. This is an intermittent stream. There is also a stream named Ngobit, Engare at (00.02 S, 36.54 E).
	XII.1927		XII.1927
	R. Daubney donor		R. Daubney donor
	C. W. det.		
	Some few <u>Rhipicephalus simus</u> and <u>Hyalomma aegyptium</u> , taken with this lot were thrown away by C. W. XII.1932. G.H.F.N.		
N	3905	N	3905
		RML	113277
	<u>Boophilus australis</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Boophilus microplus</u>
	Cow		Cow
	Lachung (Sikkim) ca 7000 ft.		Lachung (27.42 N, 88.45 E), Sikkim, India (ca 2134 m)
	Received 5.XII.1932		Received 5.XII.1932
	C. Strickland Calcutta, India (His No. 6785)		C. Strickland
	C. W. det.		
	3905. Picked from many specimens.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3906	N	3906
		RML	113278
	<u>Ixodes nairobiensis</u> 1 ♀		1 ♀ <u>Ixodes auriculaelongae</u> Holotype
	On a mouse "Serere No. 9"		Mouse
	Morogoro, Tanganyika		Morogoro, Tanzania (locality not verified; 5 possible localities)
	XII.1931		XII.1931
	W. V. Harris		W. V. Harris
	N. & C.W. det.		Arthur (1958: 41) original description. Cited: Arthur (1965: 119).
	Received from Miss S. Finnegan on behalf of the Brit. Mus. Nat. Hist. 6.XII.1932 in exchange (sanctioned by the Trustees) for <u>Ixodes signatus</u> 1 ♂ from our coll.		The specimen is lacking a capitulum. 1 ♀ paratype from this series is in the British Museum (Nat. Hist.) collection Reg. No. 1932.11.29.1.
N	3907	N	3907
		RML	113279
	<u>Boophilus australis</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Boophilus microplus</u>
	Cattle		Cattle
	Subathu, Simla Hills, near Kasauli, India		Subathu, Simla Hills, near Kasauli (30.55 N, 76.57 E), India
	Sent us on 3.XI.1932		Sent us on 3.XI.1932
	A medical officer		A medical officer
	Sent by Dr. I. M. Puri C.W. det. Took pickings & returned rest.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3908	N	3908
		RML	113280
	<u>Hyalomma aegyptium</u> 1 ♂		1 ♂ <u>Hyalomma anatolicum anatolicum</u>
	Cattle		Cattle
	Subathu, Simla Hills, near Kasauli, India		Subathu, Simla Hills, near Kasauli (30.55 N, 76.57 E), India
	Sent us on 3.XI.1932		Sent us on 3.XI.1932
	A medical officer		A medical officer
	Sent by Dr. I. M. Puri C.W. det. Took pickings & returned rest.		
N	3909	N	3909
		RML	113281
	<u>Haemaphysalis parvata</u> 2 ♀'s		2 ♀ <u>Haemaphysalis parvata</u>
	Blue Forest Duiker		<u>Cephalophus monticola</u>
	Mabira Forest, Kyagwe, Uganda		Mabira Forest (00.29 S, 30.33 E), Kingdom of Ankole, Uganda
	Sent to us on 30.XII.1932		Sent to us on 30.XII.1932
	R. W. Mettam, Entebbe, coll. & gift 1933 His No. 209		R. W. Mettam 209
	C.W. det.		
N	3910	N	3910
		RML	113282
	<u>Amblyomma cuneatum</u> 4 ♂'s		4 ♂ <u>Amblyomma compressum</u>
	Spiny Ant-eater		<u>Manis</u> sp.
	Entebbe, Uganda		Entebbe (00.04 N, 32.28 E), Uganda
	Sent to us on 30.XII.1932		Sent to us on 30.XII.1932
	R. W. Mettam 284		R. W. Mettam 284
	C.W. det.		Cited: Mettam (1933:36).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3911

N 3911

RML 113283

Dermacentor rhinocerotis 3 ♂'s, 1 ♀3 ♂, 1 ♀ Dermacentor rhinocerinus

Off grass

Off grass

Maruzi, Lango, Uganda

County of Maruzi (01.50 N,
32.25 E), District of Lango,
Uganda

Sent to us 30.XII.1932

Sent to us 30.XII.1932

R. W. Mettam 309a

R. W. Mettam 309a

C. W. det.

Cited: Mettam (1933:36).

N 3912

N 3912

RML 113284

Amblyomma petersi 1 ♂, 4 ♀'s1 ♂, 4 ♀ Amblyomma rhinocerotis

Off grass

Off grass

Kibuzi, Lango, Uganda

Possibly Kibuzi (01.54 N, 32.23 E),
District of Lango, Uganda

Sent us on 30.XII.1932

Sent us on 30.XII.1932

R. W. Mettam 311

R. W. Mettam 311

C. W. det.

Cited: Mettam (1933:36).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3913

Amblyomma petersi 1 ♂, 3 ♀

Off grass (unfed)

Sent to us on 30.XII.1932

R. W. Mettam 314

C.W. det.

Lot contained 3 ♂, 8 ♀

N 3913

RML 113285

1 ♂, 3 ♀ Amblyomma rhinocerotis

Off grass (unfed)

Possibly Kibuji (01.54 N, 32.23 E),
District of Lango, Uganda

Sent to us on 30.XII.1932

R. W. Mettam 314

Cited: Mettam (1933: 36).

N 3914

Amblyomma cohaerens 6 ♂, 3 ♀

Buffalo

Koja, Buganda

Sent us on 30.XII.1932

J. Carmichael 105

C.W. det.

Lot contained 11 ♂, 7 ♀

N 3914

RML 113286

6 ♂, 3 ♀ Amblyomma cohaerensSyncerus caffer

Koja (00.10 N, 32.47 E), Uganda

Sent us on 30.XII.1932

J. Carmichael

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3915	N	3915
	<u>Amblyomma tholloni</u> 1♂	RML	113287
	Elephant		1 ♂ <u>Amblyomma tholloni</u>
	Bunyoro		<u>Loxodonta africana</u>
	Sent to us on 30.XII.1932		District of Bunyoro (01.40 N, 31.30 E), Uganda
	Game Ranger 235		Sent to us on 30.XII.1932
	C.W. det. Lot contained 2 ♂, 1♀		Game Ranger 235
N	3916	N	3916
	<u>Dermacentor circumguttatus</u> 1 ♂	RML	113288
	Elephant		1 ♂ <u>Dermacentor circumguttatus</u>
	Bunyoro		<u>Loxodonta africana</u>
	Sent to us on 30.XII.1932		District of Bunyoro (01.40 N, 31.30 E), Uganda
	Game Ranger 235a		Sent to us on 30.XII.1932
	C.W. det. Lot contained 2 ♂		Game Ranger 235a
N	3917	N	3917
	<u>Aponomma exornatum</u> 5 ♂, 3 ♀	RML	113289
	<u>Varanus</u>		3 ♂, 2 ♀ <u>Aponomma exornatum</u>
	Victoria, Nyanza		<u>Varanus</u> sp.
	Sent to us on 30.XII.1932		Victoria, Lake (01.00 S, 33.00 E), Uganda
	R. W. Mettam 104		Sent to us on 30.XII.1932
	C.W. det. Lot contained 14 ♂, 5 ♀.		R. W. Mettam 104

ORIGINAL DETERMINATIONCURRENT STATUS

N	3918	N	3918 MISSING
	<u>Ixodes hexagonus</u> 1 N SLIDE		
	Unknown		
	Europe		
	G.H.F.N. det.		
	3918 An old slide with green paper cover found in a cabinet labelled <u>Ix. ricinus</u> .		
N	3919	N	3919
	<u>Dermacentor parumapertus</u>	RML	113290
	Jackrabbit		24 ♂, 7 ♀ <u>Dermacentor parumapertus</u>
	Sandview, Idaho, U.S.A.		<u>Lepus</u> sp.
	VII.1932		Grand View (43.00 N, 116.04 W), Idaho, U.S.A.
	Prof. R. A. Cooley, Hamilton, Montana, U.S.A. gift		VII.1932
	C.W. det.		Prof. R. A. Cooley, Hamilton, Montana, U.S.A. gift
N	3920	N	3920
	<u>Rhipicephalus supertritus</u> ♂	RML	113291
	<u>Hyrax</u> sp.		1 ♂ <u>Rhipicephalus supertritus</u>
	S.W. Shore, Lake Nyasa		<u>Procavia</u> sp.
	1910		Southwest shore of Lake Malawi (approx. 13.50 S, 34.25 E), Malawi
	Imp. Bur. Entomol. No. 68b		1910
	N. & C.W. det.		

	<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>
N	3921	N	3921
		RML	113292
	<u>Argas persicus</u> 1st & 2nd stage N's		10 first stage N, 64 second stage N <u>Argas persicus</u>
	Regeneration experiments, after various leg amputations on gorged larvae and 1st stage nymphs		Regeneration experiments, after various leg amputations on gorged larvae and 1st stage nymphs
	See Hindle & Cunliffe (I.1914) <u>Parasitology</u> vi. 353-371, 4 figs.		Experiments conducted at Cambridge (52.13 N, 00.08 E), England
	Ticks from many diff't. expt's put in 2 tubes by me II.1933 to save space, the tubes put in tick coll. bottle Abnormalities		These specimens in a jar marked "Tick Abnormalities"
	N. & C.W. det.		Cited: Hindle & Cunliffe (1914: 353)
N	3922	N	3922 MISSING
	<u>Ornithodoros franchini</u> larvae unfed		
	Cirenaica, N. Africa		
	Rec'd. 26.II.1933		
	From Prof. Franchini Modena		
	Franchini det.		
	Franchini wrote saying larvae had refused to feed & suggested that we describe these. C.W. replied 28 Feb. thanking for specimens & saying Signorina Tonelli as author of species should describe them.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3923

Ixodes eudypitidis 4 ♀, 1 N

Penguin

Picked up on beach, Gisborne,
New Zealand

Posted 17.I.1934

By C.S.M. Hopkirk His gift

C.W. & G.H.F.N. det. 22.II.1934

Mr. Hopkirk, Officer in Charge,
Veterinary Lab., Livestock
Division, Dept. of Agric.,
Wallaceville, New Zealand,
wrote it appears to be
Ixodes nuttalli (it is not).

N 3923

RML 113293

4 ♀, 1 N Ixodes eudypitidis

Penguin

Gisborne (38.40 S, 178.01 E),
New Zealand

Posted 17.I.1934

By C.S.M. Hopkirk His gift

N 3924

Ixodes sp. 2 N

Golden mole ♀ (No. 1213)

Mushongcus, L. Mutanda
Kigezi, S.W. Uganda 6500 ft.10.XI.1933
(rec'd 15.II.1934)

C.R.S. Pitman

C.W. & G.H.F.N. det.

Closely allied to Ix. tenuirostris

N 3924

RML 113294

2 N Ixodes sp.Chrysochloris sp.Mushongcus, Lake Mutanda (01.13 S,
29.40 E), District of Kigezi,
Uganda10.XI.1933
(rec'd 15.II.1934)

C.R.S. Pitman

ORIGINAL DETERMINATIONCURRENT STATUS

N	3925	N	3925
		RML	113295
	<u>Haemaphysalis leachi</u> ♂, ♀'s, N, L		1 ♂, 8 ♀, 2 N <u>Haemaphysalis leachi</u>
	Otter ♀		<u>Aonyx</u> sp.
	L Bunyonyi - Kigezi, Uganda		Lake Bunyonyi (01.17 S, 29.55 E), District of Kigezi, Uganda
	20.XI.1933		29.XI.1933
	C.R.S. Pitman		C.R.S. Pitman
	C.W. det.		
N	3926	N	3926
		RML	113296
	<u>Amblyomma marmoreum</u> 1 ♀		1 ♀ <u>Amblyomma sparsum</u>
	Off grass		Off grass
	Narrosura, Kenya		Probably Marosura (01.32 S, 35.52 E), Kenya
	29.XI.1932		29.XI.1932
	E. A. Lewis coll. & donor his "A.M. 12."		E. A. Lewis
	E.A.L. & C.W. det.		Cited: Theiler & Salisbury (1959: 112).
N	3927	N	3927
		RML	113297
	<u>Amblyomma splendidum</u> 1 ♂		1 ♂ <u>Amblyomma splendidum</u>
	Eland antelope		<u>Taurotragus oryx</u>
	Mara River, Kenya		Mara River (00.21 S, 37.53 E), Kenya
	20.XII.1932		20.XII.1932
	E. A. Lewis coll. & donor "A.V. 136"		E. A. Lewis
	E.A.L. & C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3928

N 3928

Haemaphysalis aciculifer

a) gorged: 1 ♀

b) unfed: 1 ♀

a) Calf (Masai)

b) Thompson's Gazelle

a) Ndulele-Nairro Ngare, Kenya

b) Narrosura, Kenya

a) 26.XI.1932

b) 29.XI.1932

E. A. Lewis

a) "H.A. 130"

b) "H.A. 133"

RML 69896

2 ♀ Haemaphysalis aciculifer

a) Calf

b) Gazella thomsoni

a) Ndulele (01.06 S, 36.05 E)

b) Probably Narosura (01.32 S, 35.52 E),
Kenya

a) 26.XI.1932

b) 29.XI.1932

E. A. Lewis

Santos Dias (1958: 535) gave the total number of specimens in this collection as 7♂, 19 ♀.

N 3929

N 3929

Ixodes pilosus

Cattle

Kenya

5 lots

combined

Loitokitok
Bongri Forest Sta.
Ildungushi
Osubugo Loita
Vorijo

8.II.1932; 9.II.1932; 9.II.1932;
30.XI.1932; 30.XI.1932E. A. Lewis SF 637; SF 671;
SF 19; IP 16; IP 17

E.A.L. & C.W. det.

RML 113298

1 ♂, 27 ♀ Ixodes lewisi

Cattle

Oloitokitok (02.56 S, 39.30 E);
Bongri Forest Sta. (locality not
verified); Ildungushi (01.35 S,
35.35 E); Osubugo Loita (locality
not verified); Vorijo (locality not
verified); Kenya

8.II.1932; 9.II.1932; 9.II.1932;
30.XI.1932; 30.XI.1932

E. A. Lewis

ORIGINAL DETERMINATIONCURRENT STATUS

N	3930	N	3930
		RML	113299
	<u>Ixodes pilosus</u>		4 ♂, 4 ♀ <u>Ixodes lewisi</u>
	Goats		Goats
	Loitokitok, Kenya		01oitokitok (02.56 S, 39.30 E), Kenya
	8.II.1932		8.II.1932
	E. A. Lewis SF 636		E. A. Lewis
	E.A.L. & C.W. det.		
N	3931	N	3931
		RML	113300
	<u>Ixodes pilosus</u>		1 L <u>Ixodes</u> sp.
	Genet Cat (head)		<u>Genetta</u> sp.
	Ngong, Kenya		Ngong (01.22 S, 36.39 E), Kenya
	29.XI.1931		29.XI.1931
	L. T. Boreham I.P. 13		L. T. Boreham
	E.A.L. & C.W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3932	N	3932
	<u>Ixodes pilosus</u>	RML	113301
	Thompson's Gazelle		3 ♀ <u>Ixodes lewisi</u>
	Barketabuk, Kenya Narrosura, Kenya		<u>Gazella thomsoni</u>
	5.XII.1932 29.XI.1932		Barketabuk (locality not verified). Probably Narrosura (01.32 S, 35.52 E), Kenya
	E. A. Lewis coll. & gift		5.XII.1932 29.XI.1932
	"I.P. 18 & 15" combined		E. A. Lewis
	E.A.L. & C.W. det.		
N	3933	N	3933
	<u>Rhipicephalus ayrei</u> ♂, ♀'s	RML	113302
	♂ from Eland ♀'s from Lion		1 ♂, 2 ♀ <u>Rhipicephalus compositus</u>
	Mara River, Kenya (Eland) Ngong, Kenya (Lion)		<u>Taurotragus oryx</u> <u>Panthera leo</u>
	20.XII.1932 29.X.1932		Mara River (00.21 S, 37.53 E), Ngong (01.22 S, 36.39), Kenya
	E. A. Lewis "R.A. 105" "R.A. 78"		20.XII.1932 29.X.1932
			E. A. Lewis
			Cited: Santos Dias (1958: 473).

ORIGINAL DETERMINATIONCURRENT STATUS

N 3934

N 3934

RML 113303

Rhipicephalus kochi ♂, ♀2 ♂, 12 ♀ Rhipicephalus jeanneli

- a) Cattle (Masai)
- b) Cattle (Masai)
- c) Calf (Masai)
- d) Lion

- a) Cattle
- b) Cattle
- c) Calf
- d) Panthera leo

- a) nr. Ndulele
- b) Ndulele, Naiarg, Ngore
- c) Naiarg Ngore
- d) Ngong

- a) nr. Ndulele (01.06 S, 36.05 E);
- b) Ndulele (01.06 S, 36.05 E);
- c) Naiarg Ngore (locality not verified);
- d) Ngong (01.22 S, 36.39 E), Kenya

a-c) 26.XI.1932

a-c) 26.XI.1932

d) 29.X.1932

d) 29.X.1932

E. A. Lewis a) R.A. 79; b) R.A. 80,
c) R.A. 81, d) R.A. 77

E. A. Lewis

E.A.L. det.

N 3935

N 3935

RML 113304

Rhipicephalus simus var.
lunulatus 1 ♂1 ♂ Rhipicephalus lunulatus

Lion

Panthera leo

Masai area

Masai land area (01.45 S, 36.00 E),
Kenya

20.XII.1930

20.XII.1930

E. A. Lewis R.S. 30

E. A. Lewis

E.A.L. det.

ORIGINAL DETERMINATIONCURRENT STATUS

N 3936

Rhipicephalus maculatus
♂'s, ♀'s (fine lot)

Elephant

Tana River

18.XII.1931

Gift of E. A. Lewis IX.1933

N 3936

RML 113305

26 ♂, 48 ♀ Rhipicephalus maculatusLoxodonta africana

Tana River (02.32 S, 40.31 E), Kenya

18.XII.1931

Gift of E. A. Lewis IX.1933

N 3937

Ornithodoros moubata ♂'s, ♀, N'sPhacochoerus in burrowsLake Edward region & notably
in plain of Ratchum river

Sent 12.VII.1933

Dr. J. Schwetz

G.H.F.N. det. 3.IX.1933
Confirmed J.S.'s det.3937 Sent by Dr. Schwetz from
Lab de Parasitol. Stanleyville,
Belgian Congo numerous in
burrows, called (ticks)
"Kimputu".

N 3937

RML 113306

2 ♂, 3 ♀, 12 N Ornithodoros moubataPhacochoerus aethiopicus burrowsLake Edward region (00.21 S, 29.35 E),
plain of Ratchum River (locality not
verified), Zaire

Sent 12.VII.1933

Dr. J. Schwetz

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3938	N	3938
		RML	113307
	<u>Ixodes tasmani</u> ♂, N's, L		1 ♂, 1 N, 1 L <u>Ixodes tasmani</u>
	♂ off <u>Petauroides volans</u>		<u>Schoinobates volans</u>
	2 N, 1 L off <u>Trichosurus vulpicola</u>		<u>Trichosurus vulpecula</u>
	Gippsland Victoria, Australia		Gippsland (38.00 S, 147.50 E), Victoria, Australia
	Before 1916		Before 1916
	T. H. Johnston		T. H. Johnston
	G.H.F.N. det.		Cited: Nuttall (1916: 324)
	See descr. Nuttall (1916) <u>Parasitology</u> VIII, pp 329		Specimens mounted on two slides. The 3rd slide is missing.
	♂ not descr. in Ticks II		
	Hosts Marsupials		
	<u>P. volans</u> = flying phalanger		
	<u>T. vulpicola</u> vulpine phalanger.		
	3 slides balsam.		
N	3939	N	3939
		RML	113308
	<u>Amblyomma testudinarium</u> 2 ♂, 2 ♀		3 ♂, 3 ♀ <u>Amblyomma testudinarium</u>
	Bear		<u>Helarctos malayanus</u>
	Selangor, Malaya		State of Selangor (03.10 N, 101.30 E), Malaysia
	Rec'd 7.VIII.1934		Rec'd 7.VIII.1934
	Gift of L. G. Saunders coll.		Gift of L. G. Saunders coll.
	C.W. det.		
	3939 to 3941 brought by Dr. Saunders (of Saskatoon Univ. Sask., Canada) when he visited us - he worked here with us of old.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3940, a	N	3940, a
		RML	113309
	(3940) <u>Dermacentor auratus</u> 9 ♂, 4 ♀ (a) <u>Haemaphysalis</u> sp. 1 ♂, 1 ♀		(3940) 8 ♂, 5 ♀ <u>Dermacentor</u> sp. (a) 1 ♂, 1 ♀ <u>Haemaphysalis nadchatrami</u>
	Wild Boar		<u>Sus scrofa</u> subsp.
	Selangor, Malaya		State of Selangor (03.10 N, 101.30 E), Malaysia
	26.I.1934		26.I.1934
	Gift of Dr. L. G. Saunders coll.		Gift of Dr. L. G. Saunders coll.
	C.W. & G.H.F.N. det.		
N	3941	N	3941
		RML	113310
	<u>Dermacentor atrosignatus</u> 5 ♂, 3 ♀		5 ♂, 1 ♀ <u>Dermacentor</u> sp.
	Bear		<u>Helarctos malayanus</u>
	Selangor, Malaya		State of Selangor (03.10 N, 101.30 E), Malaysia
	Rec'd. 7.VIII.1934		Rec'd. 7.VIII.1934
	Gift of Dr. L. G. Saunders coll.		Gift of Dr. L. G. Saunders coll.
	C. W. det.		
	3941 ♂ well fig'd. by Nn (IV.1906 p. 211, dorsum); "♀ unknown". - "origin unknown, probably Australian." descr. from 1 ♂ in Brit. Museum.		
	<u>Type</u>		

ORIGINAL DETERMINATIONCURRENT STATUS

N 3942

N 3942

RML 10447

Haemaphysalis hystricis 1 ♂, 2 ♀3 ♀ Haemaphysalis longicornis

Goats

Goats

On mountains 40 miles from
Tsinan, Shantung, ChinaOn mountains 64 km from Tsinan
(36.40 N, 117.00 E), Shantung, Peoples
Republic of China

Summer, 1934

Summer, 1934

R. T. Shields coll; gift of
Prof. R. A. CooleyR. T. Shields coll; gift of
Prof. R. A. Cooley

C.W. det.

3 ticks sent 20.XI.1934 to me by
Prof. R. A. Cooley (Rocky Mt.
Lab., Hamilton, Montana, U.S.A.)
who ran them down in "Ticks" to
this sp. C.W. finds them "not
quite normal, but quite within
known variations." We to keep
specimens. G.H.F.N.

N 3943

N 3943

RML 113311

Amblyomma mantiquirens 9 ♂, 1 ♀9 ♂, 1 ♀ Amblyomma naponensePecari angulatus (Peccary)Tayassu tajacu

Turrialba, Costa Rica

Turrialba (09.54 N, 83.41 W),
Costa Rica

1.VIII.1927

1.VIII.1927

W. J. Hamilton, Jr.

W. J. Hamilton, Jr.

C. W. det.

Gift of Prof. Matheson 11.II.1928.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3944	N	3944
		RML	113312
	<u>Rhipicephalus simus</u> ♂'s, ♀'s		47 ♂, 14 ♀ <u>Rhipicephalus simus</u>
	Warthog		<u>Phacochoerus aethiopicus</u>
	Ankole, Uganda		District of Ankole (00.30 S, 30.30 E), Uganda
	Rec'd 22.I.1934		Rec'd 22.I.1934
	W. F. Poulton Rec'd from Mettam 420		W. F. Poulton
	C.W. det.		
N	3945	N	3945
		RML	113313
	<u>Ixodes cavipalpus</u> 1 ♀		1 ♀ <u>Ixodes cavipalpus</u>
	Bukoba, Tanganyika		Bukoba (01.20 S, 31.49 E), Tanzania
	Rec'd V.1933		Rec'd V.1933
	Mettam 216a		R. W. Mettam
	C.W. det.		
N	3946	N	3946
		RML	113314
	<u>Amblyomma cuneatum</u> 10 ♂		9 ♂ <u>Amblyomma compressum</u>
	Pangolin		<u>Manis</u> sp.
	Entebbe, Uganda		Entebbe (00.04 N, 32.28 E), Uganda
	Rec'd 22.I.1934		Rec'd 22.I.1934
	R. W. Mettam 410		R. W. Mettam
	C.W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3947	N	3947
		RML	113315
	<u>Rhipicephalus appendiculatus</u>		25 ♂, 43 ♀, 1 N <u>Rhipicephalus appendiculatus</u>
	Cattle		Cattle
	Kigezi, Uganda		Kigezi (00.16 N, 31.37 E), District of Kigezi, Uganda
	Rec'd 22.I.1934		Rec'd 22.I.1934
	W. Mackintosh Rec'd from Mettam 347		W. Mackintosh
	C.W. det.		
N	3948	N	3948
		RML	113316
	<u>Amblyomma cuneatum</u> 2 ♀		2 ♀ <u>Amblyomma compressum</u>
	Pangolin		<u>Manis</u> sp.
	Mabira Forest, Uganda		Mabira Forest (00.30 N, 32.55 E), District of Buganda, Uganda
	Rec'd 22.I.1934		Rec'd 22.I.1934
	Capt. Pitman Rec'd from Mettam 414		Capt. Pitman

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3949	N	3949
	<u>Rhipicephalus</u> sp.	RML	113317
	Sitatunga, <u>Tragelaphus spekei</u>		1 ♂, 1 ♀ <u>Rhipicephalus</u> sp.
	Luwafu, Uganda		<u>Tragelaphus spekei</u>
	Rec'd V.1933		Luwafu, Uganda (locality not verified)
	W. F. Poulton Rec'd from Mettam 338		Rec'd V.1933
	C.W. det.		W. F. Poulton
			These specimens are <u>Rhipicephalus</u> species III of Yeoman & Walker (1967: 174).
N	3950	N	3950 MISSING
	<u>Haemaphysalis</u> sp. 1♂		
	Buffalo		
	Masha ?		
	[?Masha Game Reserve, Uganda]		
	Rec'd from Mettam 77.		
N	3951	N	3951 MISSING
	Leopard		
	Belgian Congo		
	Mrs. van den Bergh		
	C.W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3952	N	3952
		RML	113318
	<u>Haemaphysalis calcarata</u> ♂'s, ♀'s, N's		4 ♂, 3 ♀, 1 N <u>Haemaphysalis houyi</u>
	<u>Euxeni erythropus</u> (ground squirrel)		<u>Xerus erythropus</u>
	Kampala, Uganda		Kampala (00.19 N, 32.35 E), Uganda
	10.V.1934		10.V.1934
	"Gordon" coll.		"Gordon" coll. Gordon Burnett Thompson (1911-1979)
	Sent by G. B. Thompson of Brit. 28.VIII.1934		For an obituary see George (1981: 87).
N	3953	N	3953
		RML	113319
	<u>Amblyomma marmoreum</u> ♂'s, ♀'s		3 ♂ <u>Amblyomma rhinocerotis</u> 1 ♂, 2 ♀ <u>Amblyomma sparsum</u>
	Rhinocerus		<u>Diceros bicornis</u> or <u>Ceratotherium simum</u>
	Karamoja, Uganda		District of Karamoja (02.45 N, 34.15 E), Uganda
	Rec'd X.1934		Rec'd. X.1934
	J. Carmichael 471		J. Carmichael 471
	C.W. det.		Theiler & Salisbury (1959: 113) cited the <u>A. sparsum</u> collection. They also (p. 115) incorrectly gave N3953 to an <u>Amblyomma nuttalli</u> collection from Kenya.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3954	N	3954
		RML	70083
	<u>Haemaphysalis aciculifer</u>		8 ♂, 4 ♀ <u>Haemaphysalis aciculifer</u>
	Sitatunga, <u>Tragelaphus spekei</u>		<u>Tragelaphus spekei</u>
	Lake Victoria, Uganda		Lake Victoria (01.00 S, 33.00 E), Uganda
	Rec'd X.1934		Rec'd X.1934
	J. Carmichael 488		J. Carmichael 488
	C.W. det.		Cited: Santos Dias (1958: 535).
N	3955	N	3955
		RML	113320
	<u>Amblyomma mantiquirense</u> 1 ♀		1 ♀ <u>Amblyomma naponense</u>
	Sitatunga, <u>Tragelaphus spekei</u>		Host unknown; obviously not <u>Tragelaphus spekei</u>
	Tela, Honduras, Central America		Tela (15.44 N, 87.27 W), Honduras
	1926		1926
	R. Deyo		R. Deyo
	C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3956	N	3956
		RML	22318
	<u>Amblyomma testudinarium</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Amblyomma testudinarium</u>
	Elephant		<u>Elephas maximus</u>
	Assam		State of Assam (26.00 N, 93.00 E), India
	Sent us 9.VIII.1934		Sent us 9.VIII.1934
	A.W.N. Pillers		A.W.N. Pillers
	C.W. det.		
	3956 Asked to keep lot here. Recorded from many hosts, but not elephant.		
N	3957	N	3957
		RML	61134
	<u>Ornithodoros talaje</u> of sorts C.W.		2 ♂, 1 ♀ <u>Ornithodoros coniceps</u>
	In chicken house		Chicken house
	Palestine (Jerusalem)		Jerusalem (31.46 N, 35.14 E), Israel
	IV.1930		IV.1930
	Theodore		O. Theodor
	C.W. det.		An additional ♀ is in the RML collection.
			Cited: Hoogstraal <u>et al</u> (1979: 404) but collecting data incorrect.

ORIGINAL DETERMINATIONCURRENT STATUS

N	3958	N	3958
		RML	113321
	<u>Rhipicephalus maculatus</u> many ♂'s, ♀'s		73 ♂, 64 ♀ <u>Rhipicephalus maculatus</u>
	Elephant		<u>Loxodonta africana</u>
	Tana River, Kenya		Tana River (02.32 S, 40.31 E), Kenya
	Brought XI.1933		Brought XI.1933
	Brought by E. A. Lewis gift		Brought by E. A. Lewis gift
	C.W. & E.A.L. det.		
N	3959	N	3959
		RML	113322
	<u>Rhipicephalus simpsoni</u> 2 ♂, 3 ♀		6 ♂, 4 ♀, 3 N <u>Rhipicephalus simpsoni</u>
	Edible rat		<u>Thryonomys</u> sp.
	Joro, Uganda		Joro, Uganda (locality not verified)
	Rec'd by us X.1934		Rec'd by us X.1934
	J. Carmichael No. 493 Entebbe, Uganda		J. Carmichael
	C.W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3960	N	3960
		RML	113323
	<u>Rhipicephalus pulchellus</u> 1 ♂, 1 ♀ larvae unfed		1 ♂, 1 ♀ ±1000 L <u>Rhipicephalus pulchellus</u>
	Off grass		Off grass
	Italian Somaliland		Somali Democratic Republic
	Rec'd 4.V.1934		Rec'd 4.V.1934
	Coll. Dr. Giordano G. Franchini (Modena) gift		Coll. Dr. Giordano
	C.W. det.		
N	3961	N	3961
		RML	113324
	<u>Amblyomma cuneatum</u> ♂'s, ♀'s, N's		3 ♂, 3 ♀, 25 N <u>Amblyomma compressum</u>
	<u>Manis tricuspis</u> (white bellied pangolin)		<u>Manis tricuspis</u>
	Zool. Soc. Gardens, London		Zoological Society Gardens, London (51.30 N, 00.07 W), England
	2.VI.1934		2.VI.1934
	A. E. Hamerton coll; gift of Prof. P. A. Buxton		A. E. Hamerton
	C.W. det.		

<u>ORIGINAL DETERMINATION</u>		<u>CURRENT STATUS</u>	
N	3962	N	3962
		RML	113325
	<u>Hyalomma dromedarii</u> 1 ♂, 1 ♀, or <u>aegyptium</u> var.		1 ♂, 1 ♀ <u>Hyalomma dromedarii</u>
	Camel		<u>Camelus dromedarius</u>
	Italian Somaliland		Somali Democratic Republic
	Rec'd. VII.1933		Rec'd VII.1933
	Dr. Talamonte & Dante Rec'd from Prof. Franchini		Dr. Talamonte & Dante
	C.W. det.		
N	3963	N	3963
		RML	113326
	<u>Hyalomma aegyptium</u> ♂'s, ♀'s		1 ♂, 18 ♀ <u>Hyalomma dromedarii</u>
	Camels		<u>Camelus dromedarius</u>
	Tripoli		Tripoli (32.54 N, 13.11 E), Libya
	Dr. Berti coll. Rec'd. from Prof. Franchini		Dr. Berti
	C.W. det.		Ventrally, the ♂ has an abnormal spur on left coxa I.
N	3964	N	3964
		RML	113327
	<u>Ixodes vespertilionis</u> 1 ♀		1 ♀ <u>Ixodes vespertilionis</u>
	Greater horse-shoe bat <u>Rhinolophus</u> <u>ferrum-equinum</u> (on back)		<u>Rhinolophus ferrumequinum</u>
	Cheddar Caves, Somerset, Engl.		Cheddar Caves, Cheddar (51.16 N, 02.46 W), Somerset, England
	VIII.1933		VIII.1933
	R. C. Burbank. Gift of G. Gordon Thompson		R. C. Burbank
	C.W. det.		

ORIGINAL DETERMINATIONCURRENT STATUS

N	3965	N	3965
		RML	113328
	<u>Amblyomma dissimile</u> 1 ♂, 1 ♀		1 ♂, 1 ♀ <u>Amblyomma dissimile</u>
	Iguana		Iguana
	Audubon Zoo, New Orleans, U.S.A.		Audubon Zoo, New Orleans (29.58 N, 90.07 W), Louisiana, U.S.A.
	4.XII.1931		4.XII.1931
	Dr. E. H. Hinman		Dr. E. H. Hinman
	C.W. & G.H.F.N. det.		
N	3966	N	3966
		RML	113329
	<u>Ornithodoros brodyi</u>		1 N <u>Ornithodoros brodyi</u>
	Chilibrillo Caulo, Panama		Chilibrillo (09.11 N, 79.37 W), Panama
	18.II.1931		18.II.1931
	R. Matheson		R. Matheson
	R. Matheson det.		
N	3967	N	3967
		RML	113330
	<u>Ornithodoros dunnii</u>		1 N, 2 L <u>Ornithodoros hasei</u>
	<u>Dirias albiventris minor</u>		<u>Noctilio labialis</u>
	Panama City		Panama City (08.58 N, 79.32 W), Panama
	31.III.1931		31.III.1931
	R. Matheson		R. Matheson

ORIGINAL DETERMINATIONCURRENT STATUS

N	3968	N	3968
		RML	113331
	<u>Ornithodoros azteci</u>		1 ♂, 1 ♀ <u>Ornithodoros azteci</u>
	<u>Hemiderma perspicillatum aztecum</u>		<u>Carollia perspicillata azteca</u>
	Summit, Canal Zone		Summit Park (09.04 N, 79.39 W), Panama
	12.XI.1930		12.XI.1930
	R. Matheson		R. Matheson
N	3969	N	3969
		RML	113332
	<u>Amblyomma pecarium</u>		2 ♂ <u>Amblyomma pecarium</u>
	<u>Pecari angulatus bangsi</u> collared peccary		<u>Tayassu tajacu</u>
	Miraflores, Canal Zone, Panama		Miraflores (08.59 N, 79.36 W), Panama
	11.IV.1932		11.IV.1932
N	3970	N	3970
		RML	113333
	<u>Amblyomma tapirellum</u>		3 ♂, 3 ♀ <u>Amblyomma tapirellum</u>
	<u>Tapirella bairdii</u>		<u>Tapirus bairdi</u>
	Summit, Canal Zone, Panama		Summit Park (09.04 N, 79.39 W), Panama
	7.III.1931		7.III.1931
	L. H. Dunn		L. H. Dunn

ORIGINAL DETERMINATIONCURRENT STATUS

N	3971	N	3971 MISSING
	<u>Amblyomma parvitarsum</u>		2 ♂, 1 ♀ pinned specimens (N3971) are in BMNH collection.
	Llama		
	S. Leon - Jujuy, R. Argentina		
	V.1935		
	S. Mazzo		
	L.E.R. det.		
	3971. The specimens were given by Dr. H. deB Aragão of the Instituto Oswaldo Cruz, Rio de Janeiro, as examples of <u>Amb. altiplanum</u> Dias.		
N	3972	N	3972
	<u>Amblyomma parvum</u>	RML	113334
			1 ♂ <u>Amblyomma parvum</u>
			Rato selvagen ? (name not verified)
			Estado de Goyaz, now Estado de Goiás (12.00 S, 48.00 W), Brazil
			1935 ?
			H. Tonfea ?
			All collection data taken from a label pasted on the outside of the vial.

Two tick collections never received Nuttall catalogue numbers:

21 ♂, 53 ♀ Rhipicephalus sanguineus (RML 113335)

Dog

India

1915

1 ♂, 41 ♀, 6 N Boophilus microplus (RML 113336)

Nyasaland

The following is a list of the contents of a jar containing vials of tick eggs. All collection data are taken directly from the vial label and only the species determination of the tick is updated.

N 243 Argas persicus

Kasuli, Punjab, India

20.XII.1906

Capt. E.D.W. Greig

N 306 Boophilus decoloratus

Cow (in lab)

Sent from Cape Colony, S. Africa

VII.1907

C. P. Lounsbury

N 359 Ornithodoros moubata

School of Trop. Med.

Liverpool, England

IV.1907

Mr. Newstead

- N 406 Hyalomma sp.
Pretoria, Transvaal, South Africa
27.I.1908
Dr. A. Theiler
- N 407 Rhipicephalus appendiculatus
Pretoria, Transvaal, South Africa
27.I.1908
Dr. A. Theiler
- N 676 Boophilus decoloratus
Cattle
Chintechi, W. Nyasa Dist., Nyasaland
X.1908
Dr. H. Hearsey
- N 1304 Ixodes lividus
Sand Martin's nest
River Severn, Shrewsbury, England
29.VI.1911
R.F.L. Burton
- N 1305b Rhipicephalus bursa (2 vials)
Sheep
Hammam Muskoutine, Algeria
11.VI.1911
Paul Dechabert

- N 1307h Ixodes uriae
Guillemot nests
Worms Head, Gower,
Glamorganshire, S. Wales
2.VII.1911
G.H.F. Nuttall
- N 1658 Boophilus annulatus
Cattle
Dallas, Texas
13.V.1912
F. C. Bishopp
- N 1703 Ixodes uriae
Pitton, Gower
Glamorganshire, S. Wales
3-4.VII.1912
George Williams
- N 1731 Dermacentor andersoni
Horses (original parents)
Yakima, Washington
V.1912
Dr. C. Gordon Hewitt

- N 1732 Amblyomma hebraeum
Pretoria, S. Africa
20.VII.1912
C. P. Lounsbury
- N 1737 Haemaphysalis leachi
Jackal (parent)
Nairobi, B.E. Africa
23.III.1912
R. E. Montgomery
- N 1932 Rhipicephalus sanguineus
Dogs
Kasauli, Punjab, India
X.1912
C. D. Mackey
- N 2149 Rhipicephalus appendiculatus (2 vials)
Cape Colony, S. Africa
10.XI.1910
C. P. Lounsbury
- N 2452 Haemaphysalis chordeilis
Cattle
Manitoba, Canada
IX.1913
N. Harrison

- N 2695 Rhipicephalus sanguineus
Dogs
Madras, W. India
W. Rae Sheniffs
- N 2703 Amblyomma rotundatum
Toad
Rio de Janeiro, Brazil
8.I.1914
Dr. H. deB. Aragão
- N 2937 Dermacentor variabilis
Winnepeg, Canada
21.VII.1914
J.R.N. Harrison
- No N Ornithodoros savignyi (4 eggs)
number Raised in my lab by
 G. Merriman ca. 1912
- No N Ornithodoros moubata (55 eggs)
number Dissected out of ♀
- No N Amblyomma hebraeum
number 25.V.1905 boiled, placed
 in 70% alcohol 11.X.1905

1696

No N Hyalomma sp.

number Raised in Cambridge

Measured fresh 0.75-0.5

May 30, 1912

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Appendix I

List of Type Specimens in the Nuttall Tick Collection

Professor Nuttall, being a meticulous researcher, would customarily place blue "type" or "cotype" labels in vials containing the type specimen(s) of tick species, whether described by himself, coworkers at Cambridge, or foreign investigators. Keirans and Brewster (1981) discussed the type status of species described by Nuttall and his coworkers. There remain, however, certain problem areas. Matheson (1935) described three species of Ornithodoros, types of which may or may not be represented in the Nuttall collection (N3966, N3967, N3968). There are

neither blue "type" or "cotype" labels in the vials containing the ticks nor any indication in the catalogue or on the vial labels that these are type specimens. Also, Matheson (op. cit.) stated that all specimens were deposited in the Cornell University collection. Nevertheless, most of the collecting data accompanying these specimens agree with data published by Matheson. The exact status of these Ornithodoros specimens remains moot.

The following is a listing of the 160 tick species that are represented in the Nuttall tick collection by one or more type specimens. I am reasonably certain that specimens represented here have valid type status and that the list is relatively complete.

ARGASIDAE

- N 975, Argas confusus Hoogstraal, 1955. Fieldiana: Zool. 37: 586,
N 3716 figs 126-131.
- N 3768 Argas papillipes Birula, 1895. Izv. Imp. Akad. Nauk 2: 354,
pl. 1, figs 4-6.
- N 1243 Argas reflexus indicus Warburton, 1910. Parasitology Cambridge
3: 396.
- N 3562 Ornithodoros gurneyi Warburton, 1926. Parasitology, Cambridge
18: 55, fig. 1.
- N 3545,a Ornithodoros normandi Larrousse, 1923. Annls Parasit. hum. comp.
1: 170, figs 1-4.
- N 3335 Ornithodoros piriformis Warburton, 1918. Parasitology, Cambridge
10: 285, fig. 2.
- N 348 Ornithodoros turicata Dugès, 1876. Rept. de Guanajuato, Mexico
14: 1, figs 1-8.

IXODIDAE

- N 2866 Amblyomma albopictum Neumann, 1899. Mém. Soc. zool. Fr. 12: 244.
- N 1106 Amblyomma annandalei Warburton, 1910. Parasitology, Cambridge
3: 403, fig. 8.
- N 2867 Amblyomma argentinae Neumann, 1905. Archs Parasit. 9: 226.
- N 2868 Amblyomma australiense Neumann, 1905. Archs Parasit. 9: 227.
- N 2869 Amblyomma calcaratum Neumann, 1899. Mém. Soc. zool. Fr. 12: 226.
- N 2870 Amblyomma coelebs Neumann, 1899. Mém. Soc. zool. Fr. 12: 223.
- N 2872 Amblyomma concolor Neumann, 1899. Mém. Soc. zool. Fr. 12: 222.
- N 70 Amblyomma cooperi Nuttall & Warburton, 1908. Proc. Camb. phil.
Soc. math. phys. Sci. 14: 410, figs 33-36.
- N 3615 Amblyomma dammermani Warburton, 1927. Parasitology, Cambridge
19: 409, pl. XXVII, fig. 3.

- N 1285, 1286, 1287 Amblyomma darlingi Nuttall, 1912. Parasitology, Cambridge
5: 50, figs 1-4.
- N 2939 Amblyomma fiebrigi Robinson, 1912. Parasitology, Cambridge
4: 482, figs 3, 4.
- N 946 Amblyomma furcula Dönitz, 1909. Sber. Ges. naturf. Freunde
Berl. (8): 478.
- N 945 Amblyomma gemma Dönitz, 1909. Sber. Ges. naturf. Freunde
Berl. (8): 458.
- N 2873 Amblyomma goeldii Neumann, 1899. Mém. Soc. zool. Fr. 12: 238.
- N 944 Amblyomma lepidum Dönitz, 1909. Sber. Ges. naturf. Freunde
Berl. (8): 460, fig. 12.
- N 2940 Amblyomma longirostrum Cooper & Robinson, 1908. Proc. Camb.
phil. Soc. math. phys. Sci. 14: 457, figs 1-5.
- N 711 Amblyomma macfarlandi Keirans, Hoogstraal, & Clifford, 1973.
Ann. ent. Soc. Am. 66: 677, figs 21-40.
- N 996, 997 Amblyomma nuttalli Dönitz, 1909. Sber. Ges. naturf. Freunde
Berl. (8): 469, fig. 4.
- N 565 Amblyomma quasicyprium Robinson, 1926. Ticks. A Monograph of
the Ixodoidea Pt. IV: 237, fig. 117.
- N 3617 Amblyomma robinsoni Warburton, 1927. Parasitology, Cambridge
19: 408, pl. XXVII, fig. 1, 2.
- N 2876 Amblyomma scutatatum Neumann, 1899. Mém. Soc. zool. Fr. 12: 237.
- N 36 Amblyomma uncatatum Nuttall & Warburton, 1908. Proc. Camb. phil.
Soc. math. phys. Sci. 14: 412, figs 37-40.
- N 1149 Amblyomma v-notatum Nuttall, 1910. Parasitology, Cambridge
3: 412, fig. 5.

- N 2941 Amblyomma variegatum nocens Robinson, 1912. Parasitology, Cambridge 4: 480, fig. 2.
- N 212 Amblyomma versicolor Nuttall & Warburton, 1908. Proc. Camb. Soc. math. phys. Sci. 14: 407, figs 27-29.
- N 2875 Aponomma draconis Warburton, 1933. Parasitology, Cambridge 24: 564, fig. 7.
- N 2877 Aponomma ecinctum Neumann, 1901. Mém. Soc. zool. Fr. 14: 293.
- N 2878 Aponomma oudemansi Neumann, 1910. Tijdschr. Ent. 53: 11, pl. 1, figs 1, 2.
- N 2879 Aponomma pattoni Neumann, 1910. Ann. Sci. Nat. 12: 163, figs 2, 3.
- N 2943 Aponomma quadratum Cooper & Robinson, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 468, figs 22-24.
- N 2942 Aponomma simplex Cooper & Robinson, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 466, figs 18-21.
- N 2978 Dermacentor asper Arthur, 1960. Ticks, A monograph of the Ixodoidea, Pt. V: 114.
- N 2961 Dermacentor auratus Supino, 1897. Atti Soc. ven.-trent. sci. 3: 235.
- N 3874 Dermacentor imitans Warburton, 1933. Parasitology, Cambridge 24: 559, figs 3, 4.
- N 2969 Dermacentor indicus Supino, 1897. Atti Soc. ven.-trent. sci. 3: 236.
- N 2880 Dermacentor nitens Neumann, 1897. Mém. Soc. zool. Fr. 10: 376, fig. 28.
- N 3213 Dermacentor reticulatus niveus Neumann, 1897. Mém. Soc. zool. Fr. 10: 365.

- N 1981 Haemaphysalis aciculifer Warburton, 1913. Parasitology, Cambridge 6: 125, figs 4, 5.
- N 2625 Haemaphysalis aciculifer rugosa Santos Dias, 1956. Mém. Estud. Mus. zool. Univ. Coimbra (242): 5, fig. 4.
- N 2731 Haemaphysalis aculeata Lavarra, 1904. Bol. Soc. zool. ital. 5: 255.
- N 1364 Haemaphysalis africana Howard, 1909. Ann. Transv. Mus. 1: 219, pl. 34, figs 1-10.
- N 2881 Haemaphysalis ambigua Neumann, 1901. Mém. Soc. zool. Fr. 14: 362.
- N 2100, 2114, Haemaphysalis bancrofti Nuttall & Warburton, 1915. Ticks.
2115, 2689, A monograph of the Ixodoidea III: 487, figs 427-430.
2691
- N 2962, 2970 Haemaphysalis birmaniae Supino, 1897. Atti Soc. ven.-trent sci. 3: 236.
- N 167 Haemaphysalis bispinosa Neumann, 1897. Mém. Soc. zool. Fr. 10: 341, figs 7, 8.
- N 515a Haemaphysalis bispinosa var. intermedia Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 69, fig. 16.
- N 2118 Haemaphysalis borneata Hoogstraal, 1971. J. Parasit. 57: 1096, figs 1-9.
- N 2882 Haemaphysalis calcarata Neumann, 1902. Archs. Parasit. 6: 113, figs 2, 3.
- N 2996 Haemaphysalis calcarata houyi Nuttall & Warburton, 1915. Ticks. A Monograph of the Ixodoidea, Pt. III: 444.

- N 2120a Haemaphysalis calvus Nuttall & Warburton, 1915. Ticks, A Monograph of the Ixodoidea, Pt. III: 445, figs 378, 379.
- N 897 Haemaphysalis campanulata Warburton, 1908. Proc. Camb. phil. Soc. math, phys. Sci. 14: 513, figs 5, 6.
- N 72 Haemaphysalis celebensis Hoogstraal, Trapido & Kohls, 1965. J. Parasit. 51: 1001, figs 1-9.
- N 2883 Haemaphysalis cornigera Neumann, 1897. Mém. Soc. zool. Fr. 10: 350, figs 16, 17.
- N 1108, 2692 Haemaphysalis cuspidata Warburton, 1910. Parasitology, Cambridge 3: 401, figs 6, 7.
- N 3388 Haemaphysalis darjeeling Hoogstraal & Dhanda, 1970. J. Parasit. 56: 169, figs 1-20.
- N 693a Haemaphysalis dentipalpis Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 67, fig. 14.
- N 635 Haemaphysalis doenitzi Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 64, figs 9, 10.
- N 2884, 2885 Haemaphysalis elongata Neumann, 1897. Mém. Soc. zool. Fr. 10: 354, fig. 19.
- N 2715, 2730 Haemaphysalis formosensis Neumann, 1913. Ent. Mitt., 2 Supp. Ent., (2): 135, figs 1, 2.
- N 1372 Haemaphysalis goral Hoogstraal, 1970. J. Parasit. 56: 1235, figs 36-44.
- N 424 Haemaphysalis hoodi Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 62, figs 7, 8.
- N 2847, 2848 Haemaphysalis hoodi var. orientalis Nuttall & Warburton, 1915. Ticks. A Monograph of the Ixodoidea Pt III: 486.
- N 1979 Haemaphysalis howletti Warburton, 1913. Parasitology, Cambridge 6: 123, figs 2, 3.

- N 669 Haemaphysalis humerosa Warburton & Nuttall, 1909. Parasitology,
Cambridge 2: 60, figs 4, 5.
- N 2956, 2957 Haemaphysalis hystricis Supino, 1897. Atti Soc. ven.-trent.
sci. 3: 237.
- N 1226 Haemaphysalis inermis Birula, 1895. Izv. Imp. Akad. Nauk,
Ser. 5, 2: 360, pl. II, figs 7-9.
- N 1566 Haemaphysalis inermis aponomoides Warburton, 1913.
Parasitology, Cambridge 6: 128, fig. 8.
- N 1247 Haemaphysalis japonica Warburton, 1908. Proc. Camb. phil.
Soc. math. phys. Sci. 14: 512, figs 3, 4.
- N 1248 Haemaphysalis japonica douglasi Nuttall & Warburton, 1915.
Ticks, A monograph of the Ixodoidea, Pt. III: 403.
- N 1997 Haemaphysalis kinneari Warburton, 1913. Parasitology,
Cambridge 6: 127, fig. 6.
- N 496c Haemaphysalis koningsbergeri Warburton & Nuttall, 1909.
Parasitology, Cambridge 2: 65, figs 11, 12.
- N 327, 1665,
1666, 1680,
1682, 1686 Haemaphysalis kutchensis Hoogstraal & Trapido, 1963. J. Parasit.
49: 489, figs 1-28.
- N 3599 Haemaphysalis lagrangei Larrousse, 1925. Annls Parasit.
hum. comp. 3: 304, fig. 3.
- H 1107 Haemaphysalis longipalpis Warburton, 1910. Parasitology,
Cambridge 399, figs 4, 5.
- N 3560 Haemaphysalis mjoebergi Warburton, 1926. Parasitology,
Cambridge 18: 57, fig. 3.
- N 760-762 Haemaphysalis montgomeryi Nuttall, 1912. Parasitology,
Cambridge 5: 57, figs 7, 8.

- N 129 Haemaphysalis neumanni Dönitz, 1905. Sber. Ges. naturf. Freunde Berl. (4): 127, figs 4-6.
- N 2890 Haemaphysalis numidiana Neumann, 1905. Archs Parasit. 9: 230.
- N 2816 Haemaphysalis obtusa Dönitz, 1910. Denkschr. med. naturw. Ges. Jeana 16: 492, pl. 17, figs 11, 12.
- N 3666 Haemaphysalis papuana nadchatrami Hoogstraal, Trapido & Kohls, 1965. J. Parasit. 51: 433, figs 1-18, 44-50.
- N 1671b, 1672, 2077, 3071 Haemaphysalis paraturturis Hoogstraal, Trapido & Rebello, 1963. J. Parasit. 49: 686, figs 1-17.
- N 2887, 2888 Haemaphysalis parmata Neumann, 1905. Archs Parasit 9: 228.
- N 2889 Haemaphysalis parva Neumann, 1908. Notes Leyden Mus. 30: fig. 10.
- N 540c Haemaphysalis proxima Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 61, fig. 6.
- N 1251b Haemaphysalis sambar Hoogstraal, 1971. J. Parasit. 57: 153, figs 1-10.
- N 1629, 2944 Haemaphysalis silacea Robinson, 1912. Parasitology, Cambridge 4: 478, fig. 1a-f.
- N 2891 Haemaphysalis simplex Neumann, 1897. Mém. Soc. zool. Fr. 10: 345, figs 10-12.
- N 1647 Haemaphysalis spiniceps Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 68, fig. 15.
- N 2903 Haemaphysalis spinigera novaeguineae Hirst, 1914. Trans. zool. Soc. Lond. 20: 325, fig. 16.
- N 3614 Haemaphysalis toxopei Warburton, 1927. Parasitology, Cambridge 19: 407, fig. 3.

- N 1648 Haemaphysalis vidua Warburton & Nuttall, 1909. Parasitology, Cambridge 2, 66, fig. 13.
- N 1400 Haemaphysalis warburtoni Nuttall, 1912. Parasitology, Cambridge 5: 55, figs 5, 6.
- N 221 Haemaphysalis wellingtoni Nuttall & Warburton, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 397, figs 9-11.
- N 3661 Hyalomma aegyptium isaaci Sharif, 1928. Rec. Indian Mus. 30: 307, fig 36, pl. IX, fig. 2.
- N 1219 Hyalomma monstrosum Nuttall & Warburton, 1908. Proc. Camb. Phil. Soc. math. phys. Sci. 14: 414, figs 41-45.
- N 3659 Hyalomma kumari Sharif, 1928. Rec. Indian Mus. 30: 319, fig 40, pl. IX, fig. 5.
- N 3873 Ixodes ampullaceus Warburton, 1933. Parasitology, Cambridge 24: 559, fig. 2.
- N 2069 Ixodes anatis Chilton, 1904. Trans. Proc. N.Z. Inst. 36, n.s. 19: 201, pl. 10, figs 1-6.
- N 3594, 3595 Ixodes arvicolae Warburton, 1926. Parasitology, Cambridge 18: 56, fig. 2.
- N 3906 Ixodes auriculaelongae Arthur, 1958. Parasitology, Cambridge 48: 41, figs 7-12.
- N 1537 Ixodes banksi Bishopp, 1911. Proc. biol. Soc. Wash. 24: 200, pl. 2, figs 3-6.
- N 961, 1142, 1200 Ixodes caledonicus Nuttall, 1910. Parasitology, Cambridge 3: 408, figs 1-3.
- N 245 Ixodes cavipalpus Nuttall & Warburton, 1908. Proc. Camb. phil. math. phys. Sci. 14: 394, figs 1-5.
- N 3180, 3181 Ixodes dentatus var. spinipalpis Hadwen & Nuttall, 1916. In Nuttall, Parasitology, Cambridge 8: 301, figs 6-8.

- N 2672, 2775 Ixodes eichhorni Nuttall, 1916. Parasitology, Cambridge 8: 295, figs 1, 2.
- N 650 Ixodes feccialis Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 58, figs 1, 2.
- N 339 Ixodes feccialis var. aegrifossus Warburton & Nuttall, 1909. Parasitology, Cambridge 2: 59, fig. 3.
- N 1104 Ixodes gigas Warburton, 1910. Parasitology, Cambridge 3: 397, figs 1, 2.
- N 2964 Ixodes globulosus Supino, 1897. Atti Soc. ven.-trent. Sci. 3: 232.
- N 2966 Ixodes granulatus Supino, 1897. Atti Soc. ven.-trent. sci. 3: 232.
- N 3596 Ixodes gurnseyensis Arthur, 1955. Parasitology, Cambridge 45: 138, figs 10-16.
- N 279, 280 Ixodes kelloggi Nuttall & Warburton, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 396, figs 6-8.
- N 2066 Ixodes kempii Nuttall, 1913. Parasitology, Cambridge 6: 131, fig. 1.
- N 647 Ixodes loricatus spinosus Nuttall, 1910. Parasitology, Cambridge 3: 411, fig. 4.
- N 360 Ixodes nitens Neumann, 1904. Archs Parasit. 8: 460.
- N 2065 Ixodes oldi Nuttall, 1913b. Parasitology, Cambridge 6: 135, fig. 3.
- N 634 Ixodes percavatus rothschildi Nuttall & Warburton, 1911. Ticks. A Monograph of the Ixodoidea, Pt. II: 221.
- N 3872 Ixodes petauristae Warburton, 1933. Parasitology, Cambridge 24: 558, fig. 1.

- N 1401, 1402 Ixodes ricinoides Nuttall, 1913. Parasitology, Cambridge
6: 136, fig. 4.
- N 2533 Ixodes ricinus gibbosus Nuttall, 1916. Parasitology, Cambridge
8: 300, fig. 5.
- N 1171 Ixodes schillingsi Neumann, 1901. Mém. Soc. zool. Fr. 14: 288.
- N 1227 Ixodes signatus Birula, 1895. Izv. Imp. Akad. Nauk, Ser. 5,
2: 357, pl. I, figs 10-13.
- N 2967 Ixodes testudinis Supino, 1897. Atti Soc. ven.-trent. sci.
3: 230.
- N 2968 Ixodes varanensis Supino, 1897. Atti Soc. ven.-trent. sci.
3: 231.
- N 3194 Ixodes victoriensis Nuttall, 1916. Parasitology, Cambridge
8: 297, fig. 3.
- N 52 Margaropus lounsburyi Neumann, 1907. Archs Parasit. 11: 218,
figs 4-8.
- N 2960 Opisthodon canestrinii Supino, 1897. Atti Soc. ven.-trent.
sci. 3: 237.
- N 2959 Opisthodon gestroi Supino, 1897. Atti Soc. ven.-trent sci.
3: 238.
- N 320f Rhipicentor bicornis Nuttall & Warburton, 1908. Proc. Camb.
phil. Soc. math. phys. Sci. 14: 399, figs 12-16.
- N 2892 Rhipicentor vicinus Neumann, 1908. Ann. Transv. Mus. 1: 170,
pl. VII, figs f-1.
- N 2893 Rhipicephalus appendiculatus Neumann, 1901. Mém. Soc. zool. Fr.
14: 270.
- N 3845 Rhipicephalus ayrei Lewis, 1933. Parasitology, Cambridge 25:
269, figs 1, 2.

- N 1103 Rhipicephalus breviceps Warburton, 1910. Parasitology, Cambridge 3: 398, fig. 3.
- N 320e Rhipicephalus coriaceus Nuttall & Warburton, 1908. Proc. Camb. Phil. Soc. math. phys. Sci. 14: 402, figs 17-20.
- N 2894 Rhipicephalus deltoideus Neumann, 1910. Tijdschr. Ent. 53: 13, pl. 1, figs 3-7.
- N 1619, 1650, 1694 Rhipicephalus evertsi albigeniculatus Nuttall & Warburton, 1916. Bull. ent. Res. 6: 327.
- N 2110 Rhipicephalus follis Dönitz, 1910. Denkschr. med.-naturw. Ges. Jena, 16: 481, pl. 14b, fig. 12, pl. 16a, fig. 3.
- N 2108 Rhipicephalus glyphis Dönitz, 1910. Sber. Ges. naturf. Freunde Berl. (6): 278, fig 4.
- N 2963, 2965 2971 Rhipicephalus haemaphysaloides Supino, 1897. Atti Soc. ven.-trent. sci. 3: 232.
- N 2955 Rhipicephalus javanensis Supino, 1897. Atti Soc. ven.-trent. 3: 233.
- N 2109 Rhipicephalus kochi Dönitz, 1905. Sber. Ges. naturf. Freunde Berl. (4): 106, figs 1-3.
- N 351, 393 Rhipicephalus longiceps Warburton, 1912. Parasitology, Cambridge 5: 11, figs 6, 7.
- N 1460 Rhipicephalus longus Neumann, 1907. Ann. trop. Med. Parasit. 1: 117, figs 24, 25.
- N 246 Rhipicephalus masseyi Nuttall & Warburton, 1908. Proc. Camb. phil. Soc. math. phys. Sci. 14: 404, figs 21-26.
- N 1414 Rhipicephalus neavei Warburton, 1912. Parasitology, Cambridge 5: 9, figs 2, 3.
- N 1411 Rhipicephalus neavei punctatus Warburton, 1912. Parasitology, Cambridge 5: 10, figs 4, 5.

- N 2896 Rhipicephalus nitens Neumann, 1904. Archs Parasit. 8: 462.
- N 1246 Rhipicephalus pravus Dönitz, 1910. Denkschr. med.-natrw.
Ges. Jena 16: 479.
- N 2897 Rhipicephalus rossicus Yakimov & Kol-Yakimova, 1911. Archs
Parasit. 14: 419.
- N 1409, 1448 Rhipicephalus sculptus Warburton, 1912. Parasitology, Cambridge
5: 13, figs 8, 9.
- N 1562 Rhipicephalus shingleyi Neumann, 1902. Archs Parasit. 6: 112.
- N 1214 Rhipicephalus simpsoni Nuttall, 1910. Parasitology, Cambridge
3: 413, figs 6, 7.
- N 2898 Rhipicephalus ziemanni Neumann, 1904. Archs Parasit. 8: 464.

Appendix II

List of Species Names of Ixodoidea in
the Nuttall Tick Collection

Nuttall numbers follow each species name.
A number in brackets [] indicates a col-
lection is missing. A species name or
Nuttall number in *italic* indicates a
junior subjective synonym or a tick

collection in which the original determi-
nation has been revised by myself or
some other investigator whose identifi-
cation agrees with mine. For example,
N 273 was originally identified as Argas
persicus. I redetermined it as Argas
sanchezi; thus, the number appears under
both names with *italic* used for the
earlier determination.

Argasidae

Antricola sp. [3488]

Argas americanus (Marx) 206

- " arboreus Kaiser, Hoogstraal, & Kohls 3244
- " boueti Robaud & Colas-Belcour 1164, 1571
- " brumpti Neumann 333, 827, 1508, 1579, 1917
- " confusus Hoogstraal 975, 3716
- " dalei (sp. near) Clifford, Keirans, Hoogstraal & Corwin 2516
- " hermanni Audouin 2526
- " miniatus C. L. Koch 23, [138], 236, [721], 969, 971, 972, 973, 974,
976, [984], 985, 1260, 1977
- " persicus (Oken) 23, 53, [135], 136, 140, 155, 236, 242, 243, [253],
264, 273, [313], [315], 379, 440, 441, [469], [480], [500],
589, 590, [658], [659], 969, 970, 971, 972, 973, 977, 978,
[979], 980, 981, 982, 983, 985, 1008, 1009, [1083], 1130,
1131, 1246, 1260, [1275], 1349, [1367], [1506], 1561, 1574,
a, b, [1574c], [1687], [1695], [1904], 1905, [1951], 1977,
[1995], 2013, 2063, [2082], 2207, 2231, [2238], [2332Z],
2440, 2448, 2516, 2526, 2633, 2693, 2849, [2936a], 3020,
3028, 3120, 3121, 3244, [3397], [3509], [3510], [3536],
[3550], 3754, 3921
- " persicus group 2231
- " *persicus* var. *miniatus* C. L. Koch 236
- " radiatus Railliet 206, 379
- " reflexus (Fabricius) 354, [1259], [1288], [1289], 2279, 2768, 2769,
2936, 3134, [3159], [3165], 3235, 3439, [3439a]
- " reflexus group 2279, 2768
- " reflexus var. indicus Warburton 1243, 1649
- " sanchezi Dugès 273
- " transgaripepinus White [3135]

- " vespertilionis Latreille 225, 403, 453, 522, 591, 592, 593, 828,
975, 1151, 1152, 1153, 1163, 1192, 1571, 1856, 2029,
2030, 2746, 3134, 3173, 3288, 3402, 3547, 3558, 3600,
3628, 3649, 3716
- " walkerae Kaiser & Hoogstraal 3754
- " sp. 225, 976, 1154, 1164, 1346, [1388], 2521, [2523], 2619,
2684

Ornithodoros amblus Chamberlin 2522

- " azteci Matheson 3968
- " brodyi Matheson 3966
- " capensis Neumann 913, 1187, 1849, 3438
- " capensis group 594
- " coniceps (Canestrini) 3355, 3622, 3957
- " coriaceus C. L. Koch 288, 349, 1376, [2739], 2993, 2994, [3797]
- " crossi Brumpt 3472, 3548, 3604, 3623
- " dunni Matheson 3967
- " erraticus (Lucas) 3357, 3621
- " foleyi Parrot 3855, 3890
- " franchinii Rondelli 3855, 3890, [3922]
- " furcosus Neumann 2512
- " gurneyi Warburton 3562, 3590, 3652
- " hasei Schulze 3967
- " kelleyi Cooley & Kohls 3769
- " tahorensis Neumann 369, 765, 1242, 1368, 2023, 2155, 2524, 2525,
3501, 3549, 3559, 3623, [3647]
- " marocanus Velu 3357, 3621
- " megnini (Duges) 226, [387], [596], [722], [908], [1113],
1569, 1832, [2085a], [2653], [3290], [3755], 3757, [3779]
- " moubata (Murray) [14], 71, [122], 132, [203], [204], 205, [238],
346, 359, [390], [455], 475, [595], [614], 724, [757],
818c, [819], 887, [939], [1076], [1077], [1312], [1319],
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 " *senegalensis* C. L. Koch 320d, 427c, 858, 1028b, 1099a, 1322, 1441, 1587, 1609, 1712, 1837, 1950a, 2124a, 2143a, 2144b, 2194, 2256a, 2261a, 2262b, 2268, 2287, 2327, 2331c, 2333a, b, 2337b, 2338, 2340a, 2342b, 2343a, 2344b, 2398, 2484a, 2485b, 2493b, 2494a, 2495, 2497b, 2498, 2505c, 2506c, 2655a, 2664a,b, 2666a, 2667a, 2669a, 2670a, 2713, 2796, 3034, 3036a, 3040a, 3044,a, 3048a,b,d, 3050b, 3052a,b, 3053a, 3054,a, 3055,a, 3056a, 3058b, 3062, 3143b, 3147a, 3148a, 3152b, 3163, 3167, 3312a
 " *shipleyi* Neumann 1562
 " *simpsoni* Nuttall 1214, 2481, 2537, 3375, 3959
 " *simus* C. L. Koch 26d, 97, 101b, 191b, 193d, 230a, 232c, 239, 427c, 448, 530, 615, 730, 731c, 734b, 738, 740, 748a, 749, 858, 859, 860, 874f, 951b, 953b, 1028, 1099a,b, 1119, 1120, 1121, 1416, 1424, 1434, 1449, 1562, 1616, 1914, 1922, 1939c, 2025b, 2026, 2073a, 2124a, 2188, 2212, 2297a, 2310, 2340a, 2342b, 2394, 2395, 2401, 2402, 2403a, 2409, 2481, 2537, 2547a, 2581, 2591b, 2600, 2601a, 2614c, 2647, 2648, 2788, 2789, 2806, [2839], 2840, 3143b, 3148a, 3152b, 3161, 3170, 3177, 3259, 3301a, 3302, [3320], 3471a, 3474a, 3636, 3678a, 3739, 3764, 3775, 3782, 3852, 3893a, 3896, 3944
 " *simus falcatus* Nuttall 1415
 " *simus* var. *lunulatus* Neumann 3935
 " *simus* group 3167
 " *sulcatus* Neumann 393, 952a, 1431, 1439, 1615, 1650e, 2169, 2659c, 2700, 2701
 " *supertritus* Neumann 320e, 458b, 740, 1027, 1091, 1094, 1100, 1324, 1590, 2072, 2394, 2396, 2623a, 3920
 " *theileri* Bedford & Hewitt 3870
 " *tricuspis* Donitz 740, 2645, 3368
 " *turanicus* Pomerantsev 127, 796, 3485
 " *ziemanni* Neumann 2257, 2261b, 2262d, 2398, 2825, 2898, 2906 3012, 3094
 " sp. [49], [96], 97, [100], 101b, [102d], 334, 536, 743b, 774, 884b, 1099, 1225, 1314, 1370, 1395, 1454, 1456, 1679, 1714, 1750, 1837, [1891], 2092, 2173, [2255a], 2320, 2373, [2375a], 2410, 2539a, 2931, 3113, 3177, 3406, 3479a, 3869, 3949, [3951]
 Undetermined genus [4], [5], 20, 25, 32, 98, [178], 1166, [1170], 1204, 1387, 1390, 1391, 1398, 2239, [2383], [2729], 3227, [3488], 3543, [3556]

Appendix III

Host Names for Ixodoidea in the Nuttall
Tick Collection

The following individuals and sources were consulted in preparing host names used throughout this catalogue: Amphibia and Reptilia: E. N. Arnold, B. T. Clark, A. G. C. Grandison, and A. F. Stimson, Reptile and Amphibian Section,

Zoology Department, British Museum (Nat. Hist.). Aves: Peters (1931-79). Mammalia: P. D. Jenkins, Mammal Section, Zoology Department, British Museum (Nat. Hist.), Cabrera (1957, 1960), Corbet (1975, 1978), Dorst and Dandelot (1970), Ellerman and Morrison-Scott (1951), Meester and Setzer (1971), Miller and Kellogg (1955), and Ride (1970). Nuttall numbers in brackets indicate missing collections.

CLASS AMPHIBIA

ORDER SALIENTIA

Bufo marinus 2621, 2874, 3110, 3525
toad 1597, 1704, 1870, 2617, 2703, 2704, 3540

CLASS REPTILIA

ORDER CHELONIA

Emys sp. 996, 997
Geochelone chilensis 2867
denticulata 3459
elegans 43, 1512, 3608
pardalis 1659
Geoemyda flavomarginata 3399
Gopherus polyphemus 3356
Heosemys spinosa 1106, 2938
Homopus areolatus 3584
Kinixys erosa 3126
Melanochelys tricarinata 3578
Nicora trijuga 2960, 2967

Order Chelonia (cont'd)

Testudo elongata 2960, 2967, 3391, 3392
graeca 1296, 1657, 2818
graeca ibera 1510
pardalis [77], [3140]

sp. 756, 2159
 tortoise [13], 69, [75], 95, 119, 202, 228, 229, 263, 265, 347,
 549, 561, 681, [744], 1139, 1155, 1157, 1595, 1733, 2174,
 2248, 2326, 3042, 3093, [3139], 3363, 3416, 3489, 3490,
 3699, 3700, 3709, 3727, [3770], 3861
 tortoise, leopard 570
 turtle 1871, 1878, 2620

ORDER RHYNCHOCEPHALIA

Sphenodon punctatus [3556], 3864

ORDER SQUAMATA

SUBORDER SAURIA

Agama agama 3081, 3086, 3087
 sp. 3486
Ameiva surinamensis [281], [287]
 chameleon 1836, 1884
Cyclura nubila nubila 2866
Egernia stokesii 771x
Euprepes sp. 1101
 iguana 40, 153, 460, 482, 1283, 1316, 1317, 1421, 1443, 1883,
 2017, 2112, 2466, [2674], 3478, [3554], 3965
 iguana (? varanus) 1205, 1206
Iguana iguana 1726, 3492
tuberculata 3609
 sp. 1268
Lacerta agilis [1743]
lepida 1727, 1740, 1744, 2508
muralis [2997]
 sp. 3396, [3412Z]
 "Leguan" 3118, 3122
 lizard 508, 1599, 1625, [1839], 1877, 1900, 2038, 2050, 2051,
 [2052], 2386, [2708], 2876, 3076, 3077, 3078
 lizard (iguana?) 1427
 lizard, water 636, 1238
 monitor [76], [93], 550, 736, 1547, [2381]
 monitor, Bengal 1728
 monitor, land 1752, 1753
Monitor strix 554
Takydromus tachydromoides 1742

Suborder Sauria (cont'd)

- Tiliqua scincoides 3516, 3524
Trachysaurus rugosus 158, 3124
Uromastix hardwickii 3199
Varanus bengalensis 38, 2357, 2697, 2698, 2967, 2981, 2983, 3070,
 3130, 3346, [3358], 3389
 civitatus [91], [92]
 exanthematicus 37, 661, 2196, 2199, 2200, 3853
 gouldi 42, 120, [2113]
 griseus 45, 1685
 komodoensis 3617, 3875
 niloticus 44, 521, 1604, 2014, 2015, 3082
 salvator 494, 1017, 2187, 2276, 2968
 varius 1843, 1844, 1845, 2189
 sp. 996, 997, 1095, 1096, 1698, 1842, 2478, 2690, 2823,
 2942, 2943, 2985, 2986, 2988, 2990, 2991, 2992, 3002,
 3131, 3317, [3650], 3917

SUBORDER SERPENTES

- anaconda [3141]
Bitis arientans 1747
 gabonica 940
Boa constrictor 653, 1522, 1523, 1822, 1935, 2686
 sp. 289, [548], 3446
Boiga dendrophila 491
Boodon lineatus [1405]
Bothrops lanceolatus 1516, 1524
Bungarus fasciatus 472
Coluber genonensis 1520
Dendroaspis angusticeps 3871
Dendrelaphis pictus 3327
Denesonia superba 1745
Diemenia superciliosa [571]
 textilis 569, 642
Dispholidus typus 3083
Elaphe helena 3365
Elaps sp. 1984, 2685
Eryx conicus 41
Lachesis mutus 2086
Laticauda laticaudata 3657
Morelia spilotes variegata 567
Naja naja 471, 1074, 1366, 1518, 1521, 1907, 2275, 3271, 3336,
 3337, 3366
 sputatrix 493
 sp. 1244, 1245
Notechis scutatus 1739, 1841
Ophiophagus bungarus [90]
 hannah 1074, 1519, 1907

Suborder Serpentes (cont'd)

Oxybelis aeneus 2176
Pitnophis sayi 1133
Psammophis sibilans 438, 439
Ptyas korros 490, 1016, 1945
mucosus 1109, 1365, 1514, 1515, 1945, 2699, 2746Z, 2747,
2748, 3364, 3565
python 308
Python molurus 470
regius 39
reticulatus 484
spilotes 3519
spilotes variegatus 3523
sp. 3039, 3616
Rhamphiophis oxyrhynchus 3084
Simocephalus butleri [1403]
snake 2010, 2185, 2879, 2987, 2989, 3238, 3315, 3374, 3494, 3568,
3632

ORDER CROCODILIA

alligator 1879

CLASS AVES

bird [397], [2160], [2400], 3007
sea birds 2522, [2523]

ORDER STRUTHIONIFORMES

Struthio camelus 442

ORDER PTERYGIFORMES

Apteryx australis mantelli 2751, 3863

ORDER SPHENISCIFORMES

Eudyptes sp. 2799
Eudyptula minor 1849, 1850
penguin 3438, 3923

ORDER PROCELLARIIFORMES

Diomedea exulans 2722
salvinii 516
Pachyptila desolata 3862
Phoebastria fusca 3010

ORDER PELECANIFORMES

cormorant [262], [962], [1132]
Phalacrocorax aristotelis 652, 667
 carbo 2067
 penicillatus 290

ORDER ANSERIFORMES

Branta canadensis 3626
 duck 223, [480]

ORDER GALLIFORMES

Bonasa umbellus 2737
 chicken (see fowl) 273, [469], 2232, [3619],
Crax alector 3227
 rubra 3898
 fowl 53, [135], 136, 221, 294, [313], [315], 424, 440, [480],
 1009, 1014, 1057, 1125, 1130, 1131, [1904], 1905, 1977, 2013,
 [2082], 2207, 2231, 2440, 2448, 2459, 2633, 2693, 2936, 3162,
 [3509], [3510]
Gallus gallus 2121
 grouse 2777
Guttera edouardi sethmithi 1718
 hen (see fowl) 3784
Numida meleagris 1454, 1546
 partridge 1093, 3129, 3286
 turkey [480], 2089

ORDER GRUIFORMES

Neotis cafra 3889
 sp. 3714
 water hen 635

ORDER CHARADRIIFORMES

Anous stolidus 3603
Charadrius alexandrinus 2161
Fratercula arctica 634
 gull, sea 459
 gulls 454
Larus argentatus 1736
 puffin 518
Sterna anaethetus antarctica 2067

ORDER FALCONIFORMES

Coragyps atratus 1287
Falco tinnunculus 3694
Haliaeetus leucocephalus 3178
hawk 3694

ORDER COLUMBIFORMES

Columba livia 1142, 1200, 3355, 3622

ORDER CUCULIFORMES

Centropus sinensis intermedius 2960
superciliosus burchelli 1364

ORDER STRIGIFORMES

Athene nivalis [3224]
noctua 3282
sp. 2521
owl 224

ORDER CAPRIMULGIFORMES

goat suckers 2516

ORDER CORACIIFORMES

kingfisher 2675

ORDER PICIFORMES

Ramphastos dicolorus 3409, 3410

ORDER PASSERIFORMES

Carpodacus sp. 267
chaffinch [3287]
Coccothraustes coccothraustes burryi 2157
Corvus monedula 3283, 3694
splendens 1346
Cyanocitta stelleri [279], 3179
Erythacus rubecula [396]
Glarida sp. 3242, 3305
Habia melanocephala 283
Hirundo spilodera 3795, 3865
Hypocolius ampelinus 3359
Ixoreus naevius 726
jackdaw [3580], [3677]

Order Passeriformes (cont'd)

Motacilla alba yarrellii 2546
Passer domesticus [3155]
 montanus 523
Phoenicurus phoenicurus 3240
Pica pica 3281, 3284
 pipit 2520
Piranga ludoviciana 282
Riparia riparia 605, 1302, 1303
 sandmartin [2770]
Sturnella magna 2833, 2834
Sturnus vulgaris 1294, 1363
 thrush 280, 2518
Turdus merula [3009]
 ustulatus [285]
 viscivorus 3008
Vidua sp. 3174

CLASS MAMMALIA

ORDER MONOTREMATA

Echidna sp. 3138
Ornithorhynchus anatinus 2984, 3333

ORDER MARSUPALIA

bandicoot 2673
Bettongia lesueuri 646
 penicillata 1393
 tropica 3090
Cercartetus concinnus 1162
Chironectes minimus 2687
Dasyurus geoffroyi 650
 maculatus 3198, 3561, 3563
 viverrinus 1847
Didelphis marsupialis 641, 3407
 marsupialis aurita 3408
 marsupialis cauae 3729
 sp. 638, 647, 648, 1391, 3447
Echympera kalubu 3011
Isodon fecialis 1213
 macrourus 669, 3024
 kangaroo 546, [551], 552, 553, 2832, 3400, 3676
Lagorchestes conspicillatus 1392
Lasiorhinus sp. 3195, 3196, 3197

Order Marsupalia (cont'd)

Macropus dorsalis 2100, 2192, 2689
 fuliginosus 1397
 giganteus 2115
 sp. 633, [644]
Megaleia rufa 3518
 opossum 339
Perameles nasuta 1848, 3025
Sarcophilus harrisii 3591
Schoinobates volans 3938
Sminthopsis murina 1211
Tachyglossus aculeatus 547, 2868, 2878, 3517, 3522
Trichosurus vulpecula 2190, 3938
Vombatus ursinus 3194, 3196, 3197, 3520
 wallaby 3373

ORDER INSECTIVORA

Chrysochloris sp. 3924
Crocidura sp. [1339], 1453, 3361
Erinaceus albiventris (539), 1838
 colligenis [797]
 europaeus 60, 80, 125, [324], 446, 597, 599, 608, 814,
 901, 918, 930, 931, 932, 1143, 1193, 1476,
 1557, 1700, 1823, 2757,a, 2759, 2760, 2977,
 2978, 3231, 3236, 3482, 3557
 frontalis 2892, 3870
 luxoraeus europaeus [631]
 sp. 2885, 2890
 hedgehog [358], 417, [1050], [1479], [1480], [2905z], 2920, 3085,
 3088, 3277
Hemiechinus auritus 3241
 auritus collaris 1103, 1675
 mole [499], [3133]
Paraechinus micropus 1677, 1684
Ptilocercus lowii 466
Setifer setosus 2891
Sorex araneus 621
 minutus 356
 sp. 3662
Suncus murinus 3017
Talpa europaea 3586
 sp. 583
 tenerec 3515
Tenerec ecaudatus 2884

ORDER CHIROPTERA

- Artibeus jamaicensis jamaicensis 3731
 bat 225, 403, 591, 828, 1192, 1571, 2030, 2619, 3547, 3575, 3614,
 3649
Carollia perspicillata azteca 3968
Desmodus rotundus 3288
Eptesicus seratinus 3628
Megaderma cor 1164
Myotis tricolor 649
Noctilio labialis 3967
Pipistrellus kohli 3132
 pipistrellus 593, 1151, 1152, 1163
Rhinolophus ferrumequinum 3309, 3513, 3964
 ferrumequinum nippon 3629
 hipposideros 1594, 3513, 3521
Scotophilus heathi 1856
 temmincki 3173
 temmincki wroughtoni 592
 sp. 2746

ORDER PRIMATES

- Ateles geoffroyi geoffroyi 565, 640
Colobus quereza caudatus 1171, 3682, 3683, 3684
 sp. 2379, 2719, 3681
Homo sapiens 6, 7, 131, 181, 211, 213, 334, 353, 543, 1456, [1846],
 1910, 2001, 2088, [2166], 2327, 2480, 2487, [2556],
 2643, 2644, 2665, 2672, 2946, 2947, 2948, 2950, 3019,
 3027, 3051, 3096, 3099, 3181, 3184, [3185], 3187,
 3188, 3234, 3313, 3320, 3402, 3440, 3441, 3460, 3464,
 3504, 3567, 3570, 3581, 3603, 3622, 3656, 3692, 3766,
 3850, 3857, 3880
 man [5], [57], [432], [505], 748, a, 1148, 1498, [1505], [1543],
 1875, [2213], 2214, 2215, 2216, 2219, [2364], 2749, [2750],
 [3097], [3098], [3169], [3229], 3233, [3651], [3767]
 marmoset 1885
 monkey 188
Papio cynocephalus 245
Presbytis entellus 1669
 sp. 3514

ORDER EDENTATA

- Bradypus infuscatus griseus 3725, 3900
 tridactylus [544], 1149, 2103, 2119, 2618, 3125, [3351]
Choloepus hoffmanni 3156, 3723
Cyclopes didactylus 3454, 3462
Dasypus novemcinctus fenestratus 3728
Myrmecophaga tridactyla 1269, 1749
 sloth [2808]

Order Edentata (cont'd)

Tamandua tetradactyla 36, 2869, 2873, 3128, 3411, 3713
tetradactyla chiriquensis 3726

ORDER PHOLIDOTA

Manis javanica 483, 1063, 2955
pentadactyla 1102, 1944, 2982
tricuspis 564, 3961
 sp. [824], 882, 1292, 1293, 2803, 3379, 3401, 3910, 3946,
 3948

ORDER LAGOMORPHA

hare 98, 149, 660, 782, 783, 784, [790], 796, 952,a, 3278, 3279,
 3280, 3719, 3721, 3733, 3734, 3735, 3881
Lepus americanus 1142, 1147, 2045, 2046, 3180, 3181
americanus dalli 1195, 1196
capensis 3745
californicus 1533, 2321, 2322, 2324
crawshayi 3717
crawshayi zuluensis 3741, 3747, 3749, 3750
nigricollis kutchensis 1686
nigricollis simcoxi 1662
ochropus 3744
ruficaudatus 2931
timidus 1701, 2042
variabilis [3190]
whytei 1410
 sp. 2410, 2700, 3073, 3239, 3314, 3320,a-c, 3321, 3423, 3919
Ochotona princeps 1387, 3663, 3665
rufescens 2527
 rabbit 352, 384, 841, 1129, 1541, 1577, 1800, 1801, 1802, 1803,
 2645, 2994, 3175, 3202, 3221, 3417, 3435, 3717, 3720,
 3721, 3746
Sylvilagus audubonii 2772
braziliensis 1894
braziliensis andinus 3624

ORDER RODENTIA

Agouti paca 1892, 1893
paca virgatus 3730
Anomalurus orientalis [2795]
Apodemus sylvaticus 3596, 3653
Arvicanthis sp. 3764, 3765
Arvicola nivalis [3224]
terrestris 622, 3592, 3593, 3594, 3595
Atherurus africanus 1922
macrourus 2962, 2964, 2970
 sp. 2738, 2789

Order Rodentia (cont'd)

- Callosciurus erythraeus gordonii 2966
 erythraeus intermedius 2066
 prevostii 3544
Cavia sp. 1738
Citellus citellus 3228
Clethrionomys glareolus 619, 3533, 3534, 3535, 3655
Coendou bicolor simonsi 560
Cricetomys gambianus 3873
Ctenodactylus gundi 2158, 2172
Dasyprocta agouti 3448
 punctata 1507
 sp. [1264], 2872
Dremomys rufigenis 2966
Eutamias townsendi 678
Euxerus erythropus microdon 3674
Gerbillus campestris 3537, 3538, 3539
 gerbillus 1398
Hydrochoerus capybara 70, [222], 821, 1261, 1266
Hydromys sp. 2903
Hystrix africae australis 3693
 bengalensis 2957
 crinata 1922
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Lagidium peruanum 2513, 2514, 2517
Marmota bobak 1370
 monax 3642
mice 3412
Microtus agrestis 629, 1165, 2509, 3654
 arvalis 624, 625, 1069, 3532
 sp. 3625
mouse [291], [1340], [1341], 1452, 1455, 3794, 3906
Mus concolor [1190]
 escularis 1166
 minutus [620]
 musculus 3406
Myocastor coypus 826
Myopotamus coypu [674]
Neotoma alleni vetula 1394
Ondatra zibethicus 1537
Oryzomys longicaudatus 1389
Pedetes capensis 3368
Peromyscus leucopus 3643
Petaurista petaurista 3872
porcupine [3218]
rat [4], 32, [63], [328], [1036], [1277], [2451], 2519, 3412,
 [3512]

Order Rodentia (cont'd)

- Rattus cutchicus 1678, 1679
 maclarei 360
 norvegicus 1347, 1358, 1359, 2341Z, 2684, 2917
 rattus 323, 2917
 rattus rufescens 1670, 3193
 rodent 3545, [3644]
Sciurus vulgaris [630]
 sp. 284, 1396, 3664
Sigmodon hispidus chiriquensis 3899
 squirrel 270, 581, 1134, 1300, [3207]
Sundasciurus brookei 3543
Tachyoryctes splendens 3065
Tamias sibericus striatus 2966
Tamiasciurus douglasi 1065
 douglasi douglasi 1195, 2043, 2044
Thryonomys swinderianus 3375
 sp. 1214, 1215, 2481, 2537, 3959
 vole 1204
Xerus erythropus 3952
 rutilus [1203], 1224
 sp. 2882

ORDER CARNIVORA

- Aonyx sp. 3925
 bear 586, [799]
 bush cat 3109
Canis adustus 2581,a,b, 3323
 aureus 764, 1085, 1510, 1737, 2889
 aureus indicus 2003, 2007
 familiaris 488, 572, 573, 576, 579, 645, 892, 1263, [1270],
 1271, 1272, 1691, 2715, 2730, 2886, 2897, 3223,
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 lupus pallipes 1680, 1681, 2077
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 vulpes [217]
 cat 186, [231], 293, [275], 327, 464, [1037], 1280, 1431, 1439,
 1504, 3021, [3168], [3206], 3237
 cat, wild [266], [355], 2387
 civet cat 144, [742], [2790]
Crocuta crocuta 3325
Cuon alpinus dukhunensis 1671, 1672, [1673]
 dog [5], [8], 9, 10, [11], [12], 19, 25d, 26d, 47, 48, [49], 55,
 56, [62], [81], 87, 97, 102, 109, 110, 113, 115, 116, 121, 145,
 150, 173, 174, 187, 191, 195, 201, 220, 230, 262, [277], 295,
 299, 317, 341, [342], [343], 344, 371, 386, [400], 414, 422,
 426, [434], 436, [445], 447, 463, 464, 479, [505], 510, [520],
 [654], 660, 662, 663, [682], [683], [691], [727], 731, [733],

Order Carnivora (cont'd)

dog (cont'd)

748, 749, 762, 763, 768, [865], [866], 867, 868, 869, [870],
 [876], 893, 897, 953,b, 954, [986], 988, 989, [990], [998],
 999, 1000, 1001, 1003, 1013, 1021, 1023, [1035], 1058, 1072,
 1073, 1120, [1124], 1126, [1127], 1128, [1140], [1169], 1176,
 [1181], [1184], [1185], 1186, 1189, 1191, 1210, 1253, 1255,
 1274, 1297, 1360, 1362, 1377, 1380, 1382, 1407, 1434,
 1449, 1509, 1538, 1540, 1616, [1617], 1618, 1643, 1644, 1645,
 [1688], 1702, 1705, [1730], 1791, 1799, 1804, 1810, [1811],
 1825, 1854, 1876, [1891], 1924, 1932, 1941, 1942, 1949, 1950,
 1966, 1971, [1972], 1985, 1988, 1989, 1900,a, 1991, 2008,
 [2012], 2026, 2028, 2032, 2036, 2039, 2053, 2079, 2116, 2123,
 [2125], 2129, [2130], 2134, 2169, 2171, 2193, 2201, 2214,
 2215, 2216, 2224, 2234, 2244, 2245, 2246, 2252, 2269, 2277,
 2280, 2281, 2283, 2310, 2318, [2328], 2334Z, 2335Z, 2336Z,
 2337Z, 2338Z, 2339Z, 2340Z, 2341Z, 2347, 2349, 2358, [2367],
 2395, 2398, 2425, [2443], [2447], [2454], 2455, [2458], [2461],
 [2464], [2474], 2486, 2489, 2490, 2492, 2497, 2502, [2531],
 [2533], [2535], 2547, [2551], 2565, 2598, 2622, 2628, [2636], 2648,
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 [2839], 2840, 2841, 2842, [2850], 2853, 2857, 2921, 2925,
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- Tragelaphus angasi 1600, 1602, 3434, 3869
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"labba" 1882
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Rato selvagen 3972
"salapenter" [? Reptilia] 1874
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Appendix IV

Geographical Origin for Ixodoidea in the Nuttall Tick Collection

At the time of Professor Nuttall's death in 1937 there were 70 nations in the world community. By January 1, 1984, that number had increased to 168. In the following list of countries, territories, islands, and so forth, a few concepts should be borne in mind. If a tick collection is missing, I have listed the locality as it originally appeared in Nuttall's handwritten catalogue. If a tick collection is present, I have, if necessary, updated the locality to what is the currently recognized name. Thus, the reader will

find both Gold Coast and Ghana, Persia and Iran, Ceylon and Sri Lanka, and so forth, in this listing. In most cases, I have used the short form of the name of a country, e.g., Algeria, not Democratic and Popular Republic of Algeria. However, in a few instances, it was necessary for clarity to use the official long form of the name, e.g., People's Republic of China, not China, to prevent confusion with the political area listed as Taiwan. I have also retained the names of certain familiar islands although they may not be independent. For example, it is more convenient to locate a tick collection from the Galapagos Islands by looking it up under that name rather than looking under Ecuador.

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