

Mammals of China.

Feral: Flying Fox called
Fanichi by the natives.

Pteropus heraldreni L. & G.

A small insectivorous bat,
~~Emballonura~~ ^{an} ~~Emballonura~~
sericea Peale lives in
area. Native name: Payesye.

These two mammals have not

yet been recorded in the area.

An introduced deer, Cervus
marianus Desm.

Domestic animals: horses, cattle,
horses, mules, pigs, goats, cats,
and dogs.

Introd. Birds: durosinieri
Philopus rosce philus Less.

Phlegos ros hanthomura (Jap. m.).

Tringipodius laherousi

Ac Chactoria sineusis Gmelin.

Asio accipitrinus Pallas
Haleyon cinereus *cinereus* Swins.
Haleyon alpicilla (Dowson).
Collocalia eschschogae (Thunberg)
Rhipidura urbankei Gussakov
Myiagra freycineti Gussakov
Chalcophaps indica (Hartley)
Corvus kubaryi Reichenow
Myzomeda vibrata (Lessons)
Zosterops conspicillata (Kitt.)
Oeroccephalus *lucania* Luth.
in the reeds of the cienaga near
Caña.

Shore birds:

Ardeola cinerea
Demigretta sacra
Hypothymis owstoni
Actitis macularia
Gallinula chloropus
Limosa lapponica *baurii*
Numenius cyanopus
Numenius phaeopus *variegatus*
Gallinago megala
Heteractitis *brevis*
Squatarola squatarola

Haleyon cinereus *cinereus* Swins.
Egialitis *cinerea*
Actitis interpres
Anas platyrhynchos

Anous leucocapillus
Anous stolidus (Linn.)
Gygis alba kerkira (Hartley)
Sula sula + *S. leucogaster*
Fregata aquila
Phaethon lithophilus Daudin.
Saw a small Shearwater the
evening before we reached Guam.
Haleyon cinereus *cinereus* Swins. ♂ ad. ♀ ad.
Actitis kerkira (Hartley) ♀ ♀ ♀ ad. ♀ juv.
Gygis alba kerkira (Hartley) ♂ ad.
Phalaropus lobatus ♂ ad. + ♀ ad.
Collocalia freycineti ♂ ad.
Rhipidura urbankei (♀ ad. ♀ ad.)
Myiagra freycineti ♂ ad, ♂ ad, ?
Chalcophaps indica (Hartley) ♂ ad, ♀ juv.
Zosterops conspicillata ♂ ad. ^{headly shot}

July 20, 1905.

Dr. H. H. H. shot 4 small domestic
Goats, including the male leader of the
herd, which he got him + brought him home.

Put. Alfred Worm
Troop "A" 8th Cavalry.

Paid bills on Logan May 25.
Amounts remaining:

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Capt. Butler & wife Lt. & Mrs. Castiel
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" Bach " Latimer

Capt. Beach
Lt. & Mrs. Maigne
" " " Mann

Camp Gregg, Bayarubang, Pang.

Mammals of Guam.

Herpetal: Flying Fox called Hanihi by the natives.

Pteropus keraudreni L & G.

A small insectivorous bat, Emballonura
semicaudata Peale lives in caves. Native name: Pajésyes.

Mus decumanus. House Rat.

Mus musculus L. House Mouse.

An introduced deer, Cervus marianus Desm.

Domestic animals: Buffalo, cattle, horses, mules,
pigs, goats, cats, and dogs.

AMERICAN MEN OF SCIENCE

A BIOGRAPHICAL DIRECTORY

EDITED BY J. McKEEN CATTELL,

Professor of Psychology in Columbia University; Editor of *Science* and of *The Popular Science Monthly*.

[FROM THE EDITOR'S PREFACE]

This biographical directory of AMERICAN MEN OF SCIENCE was begun as a manuscript reference list for the Carnegie Institution of Washington, which made an appropriation of \$1,000 toward the clerical and office expenses. It is hoped that the publication will be a contribution to the organization of science in America. There is here given for the first time a fairly complete survey of the scientific activity of a country at a given period. As a reference book for the field it covers, it may be even more useful in academic circles than MINERVA or WHO'S WHO IN AMERICA. But the chief service it should render is to make men of science acquainted with one another and with one another's work. There scarcely exists among scientific men the recognition of common interest and the spirit of cooperation which would help to give science the place it should have in the community. It is fully as important for the nation as for men of science that scientific work should be adequately recognized and supported. We are consequently in the fortunate position of knowing that whatever we do to promote our own interest is at the same time a service to the community and to the world.

There are included in the directory the records of more than four thousand men of science, and it is believed that the entries are tolerably complete for those in North America who have carried on research work in the natural and exact sciences.

A star is prefixed to the subject of research in the case of about a thousand of the biographical notes. These are the thousand students of the natural and exact sciences in United States whose work is supposed to be the most important. In each of the twelve principal sciences the names were arranged in the order of merit by ten leading students of the science. The average positions and the probable errors were then calculated, so that in each science the order of merit was determined together with its validity.

The blanks were sent in all to about ten thousand who might have contributed to the advancement of science and from the replies the names included have been selected. As many as four requests were sent to those who it was believed should be included, when they did not reply to previous applications. Proofs of all the biographies were submitted for correction—a second and a third copy having been sent when necessary—and revised proofs were sent after the corrections had been entered.

It was intended that each entry should contain information, as follows:

- (1) *The full name with title and mail address, the part of the name ordinarily omitted in correspondence being in parentheses.*
- (2) *The department of investigation given in italics.*
- (3) *The place and date of birth.*
- (4) *Education and degrees.*
- (5) *Positions with dates; the present position being given in italics.*
- (6) *Temporary and minor positions.*
- (7) *Honorary degrees and other scientific honors.*
- (8) *Membership in scientific and learned societies.*
- (9) *Chief subjects of research, those accomplished being separated by a dash from those in progress.*

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AMERICAN MEN OF SCIENCE

A

Aaron, S(amuel) Frank, 23 S. 34th St. J, Philadelphia, Pa. *Entomology*. Mt. Holly, N. J., March 5, 62. Common schools. Jesup scholar. Acad. Nat. Sciences, Phila. 83-84, custodian insects, 84-85; *econ. entomologist*, Phila. *Commercial Mus.*, 96- Psocidae; Pseudoneuroptera; Hymenoptera; Lepidoptera; general and economic entomology; trees.—Popular entomology; the black ant; parasites of wood-boring beetles; forestry.

Abbe, Prof. Cleveland, 2017 I St. N. W., Washington, D. C. **Meteorology*. New York, N. Y., Dec. 3, 38. A.B. Col. City of N. Y., 57, A.M. 60; B.S. Harvard, as of 64. Tutor math, Trinity Sch., N. Y., 57-58; asst. prof. eng. Mich. Agr. Col., 59; tutor eng. Michigan, 59-60; aid astron. U. S. Coast Surv. and with B. A. Gould at Cambridge, 60-61; resident, Poulkova Observatory, 65-66; aid, U. S. Naval Observatory, 67-68; director, Cincinnati Observatory, 68-73; prof. meteorol. and civilian asst. office of chief signal officer, U. S. A., 71-91; *prof. meteorol.*, *George Washington*, 86-; *prof.*, *U. S. Weather Bur.*, 91-; *lecturer*, *Hopkins*, 96- Ed. 'Monthly Weather Rev'; chairman, Committee on Meteorol. Carnegie Inst., 02. Officier d'Acad., 89; hon. Ph.D., Col. City of N. Y., 91; LL.D., Michigan, 88; Glasgow, 96. Delegate, Am. Forestry Cong., Cincinnati, 82; Elec. Cong., Phila., 84; Int. Meridian and Time Standard Cong., 84; Int. Meteorol. Cong., Munich, 91; Int. Cong. Physicists, Paris, 00. Nat. Acad.; F.A.A. (v. pres, 90); Math. Soc.; Astron. and Astrophys. Soc.; Physical Soc.; Metrol. Soc.; Geog. Ass.; assoc. mem. Elec. Eng. cor. mem. Am. Geog. Soc.; Nat. Geog. Soc.; Forestry Ass.; Am. Hist. Ass.; Philos. Soc.; assoc. fel. Am. Acad.; New Eng. Meteor. Soc.; Wash. Acad.; cor. mem. N. Y. Acad.; Boston Soc. Nat. Hist.; Phila. Geog. Soc.; Wash. Philos. Soc.; cor. mem. Conn. Hist. Ass.; Ohio Hist. Soc.; N. Y. Hist. Soc.; Columbian Hist. Soc.; cor. mem. British Ass.; fel. Royal Astron. Soc.; fel. Royal Meteor. Soc.; assoc. British Victoria Inst.; Math. Verein; cor. mem. Astron. Gesell.; cor. and hon. mem. Meteor. Gesell.; Oester. Gesell. Meteor.; Ass. française; Soc. météor. de France; Soc. Meteor. Ital. Astronomy; meteorology.—Long range predictions in meteorology.

Abbe, Cleveland, Jr., U. S. Geological Survey, Washington, D. C. *Geography*, *Geology*. Washington, March 25, 72. A.B., Harvard, 94, A.M. 96; Ph.D., Hopkins, 98; Vienna and Paris,

01-03. Prof. nat. sciences, Winthrop Nor. and Indust. Col., 98-01; aid, *U. S. Geol. Surv.*, 03-Inst. physiog. Corcoran Sci. Sch., Washington, 95-98; asst. Md. Geol. Surv., 97-01; instr. geol. and biol., Western Md. Col., 98-99; State Summer Nor. Sch., Rock Hill, S. C., 99. F.A.A.; Geol. Soc.; Min. Eng.; Geog. Ass.; Nat. Geog. Soc.; Wash. Geol. Soc.; Berlin Gesell. für Erdkunde. Topographic development.—Fall line of east North America; lakes of southern Scandinavia; Canadian and Baltic 'shields'; the climate of the Great Lakes region and Agaña, Guam; dictionary of geographic terms.

Abbe, Dr. Robert, 13 W. 50th St., New York, N. Y. *Surgery*. New York, April 13, 51. A.B. Col. City of N. Y., 70; M.D. Columbia, 74. Prof. surg. Woman's Med. Col., N. Y., 86-88; Post Grad. Med. Sch., N. Y., 88-96; *clin. instr. surg.*, *Columbia*, 94- Attending surgeon, St. Luke's Hosp., 81- F.A.A.; Surg. Ass. Surgery.

Abbot, C(harles) G(reecley), 36 Q St. N. E., Washington, D. C. **Astrophysics*. Wilton, N. H., May 31, 72. B.S., Mass. Inst. Tech., 94, M.S., 95. Asst. *Smithsonian Astrophys. Observatory*, 95-96, aid, acting in charge, 96- F.A.A.; Astron. and Astrophys. Soc.; Wash. Philos. Soc. Infrared solar spectrum; sensitive galvanometer; osmotic pressure.—Solar physics; absolute recording pyr-heliometer.

Abbot, Gen. Henry L(arcom), U. S. A. (retired), 23 Berkeley St., Cambridge, Mass. *Engineering*, *Physics*. Beverly, Mass., Aug. 13, 31. Grad. U. S. Mil. Acad., 54. All grades from second lieutenant to col., Corps Engineers, U. S. A., 54-95 (retired by law). Col. brevet brig. and maj. gen., U. S. Vols.; chairman, Group XVI, Centennial Expos., 76; Higher Jury of Awards, Atlanta Expos., 95; pres., Board of Consulting Engineers, Pittsburg and Lake Erie Canal, 95-96; mem. Int. Commission Engineers, New Panama Canal Co., 97-00, consulting engineer, 00-01; mem. many govt. boards. LL.D., Harvard, 86. Nat. Acad.; Philos. Soc.; Am. Acad.; New Orleans Acad.; cor. mem. Austrian Imperial Royal Geol. Soc. River and harbor improvements; coast defence; submarine mining; explosives; electricity; vertical fire; astronomy; canals; river hydraulics; climatology of the Isthmus of Panama.—The Chagres River; the Panama Canal.

Abbott, Dr. Albert H(olten), University College, Toronto, Can. *Psychology*. Brockville, Ont., Dec. 7, 71. A.B., Toronto, 95; Ph.D., Würzburg, 04. Asst. Psychol. Lab., Toronto, 95-99, instr. philos., 99-00, *lecturer philos. and asst. Psychol.*

Lab., 00- Psychol. Ass. Sensations of color; psychology and epistemology of Hobbes.—Color saturation in its quantitative relations; British philosophy and psychology from Bacon to the present day.

Abbott, Dr. A(lexander) C(rever), 4229 Baltimore Ave., Philadelphia, Pa. **Hygiene, Bacteriology*. Baltimore, Md., Feb. 26, 60. Baltimore City Col., 77; M.D., Maryland, 84; Hopkins, 84-87; Munich, 87-88; Berlin, 88-89. Asst. hygiene and bacter., Hopkins, 89-91; asst. in charge, Lab. of Hygiene, *Pennsylvania*, 91-96, *prof. hygiene and bacter. and director, Lab. of Hygiene*, 97-; director, Div. Path. Bacter. and Disinfection, Bur. of Health, Phila., 97; *chief, Bur. of Health*, and *pres. Board of Health*, 02- F.A.A.; Ass. Path. and Bact.; Soc. Bact.; Am. Physicians; Physiol. Soc.; Soc. Exp. Biol. and Med.; Am. Med. Ass.; Pub. Health Ass.; Philos. Soc.; Wash. Acad.; Phila. Co. Med. Soc.; Phila. Path. Soc.; fel. Phila. Col. Physicians. Bacteriology and preventive medicine.—Certain phases of infection, intoxication and immunity.

Abbott, Dr. C(harles) C(onrad), Trenton, N. J. *Zoology, Archeology*. Trenton, June 4, 43. M.D., Pennsylvania, 65. Asst. Peabody Mus., Harvard, 76-89. Philos. Soc.; Boston Soc. Nat. Hist.; fel. Copenhagen Soc. of Antiquaries of the North. Primitive industry; natural science.—Animal intelligence; evidences of the antiquity of man in the valley of the Delaware River.

Abbott, Prof. J(ames) F(rancis), Washington University, St. Louis, Mo. *Zoology*. Greeley, Colo., Sept. 27, 76. A.B., Stanford, 99; fellow, Chicago, 03-04; A.M., Stanford, 04. Instr. English, Shigaken Shogyo Gakko, Japan, 00-01; prof. English lang. Imp. Naval Col., Etajima, Japan, 01-03; *asst. prof. zool.*, *Washington (St. Louis)*, and *assoc. prof. embryol. Med. Sch.*, 04- Fannal ichthyology; stenophore morphology.—Formative and trophic influences in avian embryology; tropisms in pathogenic bacteria.

Abel, Prof. John J(acob), Station L, Baltimore, Md. **Pharmacology, Physiological chemistry*. Cleveland, O., May 19, 57. Ph.B., Michigan, 83; Hopkins, 83-84; European universities, 84-90; M.D., Strasburg, 88. Principal, High Sch., La Porte, Ind., 79-80, supt. pub. schools, 80-82; lecturer mat. med. and therapeut., Michigan, 90-91, *prof.*, 91-93; *pharmacol.*, *Hopkins*, 93- Hon. A.M., Michigan, 03. F.A.A.; Physiol. Soc.; Am. Physicians; Therapeut. Soc.; Chem. Soc.; Soc. Exp. Biol. and Med. Composition of animal tissues and fluids; function and isolation of special chemical principles of the animal organism; ethyl sulphid; carbamic acid; pigment of negro's skin.—The chemical nature of the blood-pressure-raising constituent of the suprarenal capsules.

Abrams, Dr. Albert, Southwest Corner Van Ness Ave., San Francisco, Cal. *Medicine*. San Francisco, Dec. 8, 63. M.D., Heidelberg, 82; London, Berlin, Vienna and Paris, 83, 84, 97; A.M., Portland, 94. Prof. path., Cooper Med. Col., 93-98; *pres.*, *Emanuel Polyclinic*, San Francisco.

Consulting physician diseases of chest, Mt. Zion and French Hospitals, San Francisco. Am. Med. Ass.; fel. Royal Micros. Soc. Heart reflex and lung reflexes of contraction and dilatation; zones of atelectasis; the stethophonometer; light as a therapeutic agent; congelation in diagnosis and treatment.—Diseases of the heart and lungs.

Abrams, L(e)R(oy), U. S. National Museum, Washington, D. C. *Botany*. Sheffield, Ia., Oct. 1, 74. A.B., Stanford, 99, A.M. 02; fellow, Columbia, 04-05. Acting prof. bot., Idaho, 99-00; asst. syst. bot., Stanford, 00-03, instr., 03-04; *asst. curator, Div. Plants*, *U. S. Nat. Mus.*, 05- M.A.A.; Nat. Geog. Soc.; Wash. Bot. Soc.; Wash. Biol. Soc.; Torrey Bot. Club. Flora of southern California.

Acheson, Edward G(odrich), Niagara Falls, N. Y. **Electrometallurgy, Chemistry*. Washington, Pa., March 9, 56. Bellefonte Acad., Bellefonte, Pa. Civil engineer, 76-80; Edison's Lab., 80-82; supt., Consol. Lamp Co., Brooklyn, N. Y., 84; electrician, Standard Underground Co., Pittsburg, 86-89; *pres.*, *Carborundum Co.*, 91-01; *Int. Acheson Graphite Co.*, 00- John Scott medals, Franklin Inst., 94, 01; Grand Prix, Paris, 00; La. Purchase Expos., 01. F.A.A.; Elec. Eng.; Electrochem. Soc. (manager, 02-03); Franklin Inst.; London Soc. Arts. Electric furnaces and products.—Development of electric furnace methods; improvements in the methods of clay-working.

Adami, Prof. J(ohn) G(eorge), 331 Peel St., Montreal, Can. *Pathology, Bacteriology*. Manchester, England, Jan. 12, 62. Owens Col., Manchester, 77-80; A.B., Cambridge, 84; Breslau, 84-85; Owens Col., 85-87; M.B., Cambridge, 86, A.M., 87; mem. Royal Col. Surg., 87; M.D., Cambridge, 90. House physician, Manchester Royal Infirmary, 86; demonstrator path., Cambridge, 87-90, John Lucas Walker student in path., 89, lecturer, 90, fellow and director nat. science, Jesus Col., 90-92; *prof. path.*, *McGill*, 92- Pathologist, Can. Dept. Agr., 97-02. A.M., M.D., McGill, 99; LL.D., New Brunswick. Soc. Nat.; Ass. Path. and Bact.; Soc. Bact.; Physiol. Soc.; Am. Physicians; Soc. Exp. Biol. and Med.; Can. Royal Soc.; Montreal Medico-Chirurg. Soc. (pres, 98-00); British Med. Ass.; London Path. Soc.; London Physiol. Soc.; fel. Royal Soc.; Edinburgh Royal Soc.; Cambridge Philos. Soc. Cardiac, renal and hepatic pathology; heredity of disease; causation of cancer, etc.; variability of bacteria; colon bacillus; tuberculosis.—Heredity of disease; B. coli infection; experimental production of anemia; causation of goitre; degenerative processes.

Adams, Alton Dermont, P. O. Box 478, Worcester, Mass. *Electrical engineering*. Biddeford, Me., June 28, 64. B.S., Harvard, 97, A.M. 03. Constructing elec. engineer, 86-95; *consulting engineer*, 95- Elec. Eng. Electrical supply; cost of gas and electrical supply.

Adams, Cha(rlie)s C(hristopher), University of Michigan, Ann Arbor, Mich. *Zoology*. Clinton,

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BIOGRAPHICAL DIRECTORY OF LIVING ZOOLOGISTS

Edited by Professors J. McKEEN CATTELL and T. D. A. COCKERELL

The editors will be under great obligations to those zoologists who will fill in the enclosed blank. The Science Press, Sub-station 84, New York City, will publish as soon as the compilation can be made a Biographical Directory of Living Zoologists throughout the world, similar in general plan to the work on American Men of Science, of which an announcement is enclosed. The blank should be returned to Professor T. D. A. Cockerell, Boulder, Colorado, U. S. A.

BIOGRAPHICAL DIRECTORY OF LIVING ZOOLOGISTS

Full name with title and mail address, the part of the name ordinarily omitted in correspondence being in parentheses—
e. g. Prof. (John) W. (Wilson) Smith, 1234 Lincoln St., Washington, D. C., U. S. A.

Edgar A. (Alexander) Mearns, Major, Medical Corps,
U. S. Army, Fort Totten, New York.

Department of study—e. g. Experimental evolution, animal behavior, vertebrate morphology or mollusca

Place and date of birth

Highland Falls, Orange Co., New York, September 11, 1856.

Education and degrees, including honorary degrees

Medical Department of Columbia College, New
York City, Class of 1881.

Positions with dates at which they were held

Temporary or minor positions and honors, such as lectureships, trusteeships, scientific expeditions, membership on juries
prizes, medals, etc., etc.

Membership in societies

Books with publishers and dates

Chief subjects in which research work has been published

Journals or proceedings in which research work has been chiefly published

Subjects of researches now in progress

The reverse side of the sheet may be used if more space is needed.

The entries should be typewritten or very clearly written.

This blank should be returned to Professor T. D. A. COCKERELL, Boulder, Colorado, U. S. A.

Individual Service Report of Edgar H. Mearns, Major Surgeon, USA.
for the period from July 1, 1904, to June 30, 1906.

Station, Manila, P. I.
Date, October 31, 1906.

To THE MILITARY SECRETARY OF THE ARMY.

(Through military channels.)

SIR:

I have the honor to report that during the period between July 1, 1904, and June 30, 1906—

1. I was present for duty with my regiment or corps about 16 months, _____ days.

On detached service _____ months, _____ days.

On leave of absence Regular leave 2 } _____ months, _____ days.
 Sick leave 6 }

2. Married or single, married If married, number of minor children, two (2).

3. Name and address (street and house number, if any) of nearest relative, Mrs. E. A. Mearns, 213 S. Court St., Circleville, Ohio.

4. (a) Professional or scientific study and investigation other than military, Biology.

(b) Special knowledge of any particular line of work, whatever its nature, General Biology.

5. (a) I am able to speak the following foreign languages: None

(b) I am able to translate the following foreign languages: None

6. Subjects or titles of books written or published, essays prepared, lectures delivered or papers read, when and where: A few biological papers.

Remarks: During the preceding year I have, at different periods, been Chief Surgeon of the Depts. of Luzon and Mindanao. This paper was, of necessity, prepared where I had not access to my personal records.

CERTIFY on honor that the entries herein made are correct.

Edgar H. Mearns
Major Surgeon, USA.

On the reverse side of this sheet a succinct account of services since July 1, 1904, will be furnished, together with the dates of all occurrences connected therewith. Reference should be made to any commendatory mention contained in official documents which bear on such services, and duly authenticated copies of such documents, or extracts therefrom, may be forwarded with this report.

In the event that an officer is making this report for the first time, a statement will be included of the engagements or actions, if any, participated in by him since his entry into service, whether as an officer or as an enlisted man.

Under "Remarks" give any necessary explanation of any answer for which the allotted space is insufficient.

1904-6.

SUCCINCT ACCOUNT OF SERVICES.

INDIVIDUAL SERVICE REPORT OF

Name,

Edgar A. Meamer

Rank,
regiment,
or corps.

Major Surgeon USA

Station,

Manila, P.I.

Date,

Oct. 31, 1906

NOTE.—This report will be briefed by the officer making it.

The Philippine Journal of Science.

EDITED BY

PAUL C. FREER, M. D., PH. D.

CO-EDITORS:

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- * No. 2, 1902, *Chemical Laboratory*.—The Preparation of Benzoyl-Acetyl Peroxide and Its Use as an Intestinal Antiseptic in Cholera and Dysentery. Preliminary Notes. By Paul C. Freer, M. D., Ph. D.
- * No. 3, 1903, *Biological Laboratory*.—A Preliminary Report on Trypanosomiasis of Horses in the Philippine Islands. By W. E. Musgrave, M. D., and Norman E. Williamson.
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- * No. 36, 1905.—A Hand-List of the Birds of the Philippine Islands. By Richard C. McGregor and Dean C. Worcester.

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Mining Bureau.

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- 1890.—Memoria descriptiva de los manantiales minero-medicinales de la Isla de Luzón, estudiados por la comisión compuesta de los Señores D. José Centeno, Ingeniero de Minas y Vocal Presidente, D. Anacleto del Rosario y Sales, Vocal Farmacéutico, y D. José de Vera y Gómez, Vocal Médico.
- 1893.—Estudio descriptivo de algunos manantiales minerales de Filipinas ejecutado por la comisión formada por D. Enrique Abella y Casariego, Inspector General de Minas, D. José de Vera y Gómez, Médico, y D. Anacleto del Rosario y Sales, Farmacéutico; precedido de un prólogo escrito por el Excmo. Sr. D. Angel de Avilés, Director General de Administración Civil.
- 1895.—Terremotos experimentados en la Isla de Luzón durante los meses de Marzo y Abril de 1892, especialmente desastrosos en Pangasinán, Unión y Beanguet. Estudio ejecutado por D. Enrique Abella y Casariego, Inspector General de Minas del Archipiélago.
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- 1905, *Bulletin No. 4*.—A Preliminary Reconnaissance of the Maneayan-Suyoc Mineral Region, Lepanto, P. I. A. J. Eveland, Geologist.
- 1905, *Bulletin No. 5*.—The Coal Deposits of Batan Island. Warren D. Smith, B. S., M. A., Geologist.

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Madison Barracks, N. Y.,

Jaguar
~~December~~, 31st 1905.

- | | | |
|-----|--|--------------|
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| 7. | John Leonard Hines, Capt. 23rd Infantry, | |
| 8. | Francis Horton Pope, Capt. 14th Cav. | Life Member. |
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| 19. | Wilber Alexander Blain, 2nd Lieut. 23rd Inf. | |
| 20. | Horatio Knight Bradford, 2nd Lieut. 17th Inf. | |
| 21. | William Wallace McCammon Jr., 1st Lieut. 23rd Inf. | |
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| 33. | Robert Osborn Van Horn, Capt. 17th Inf. | |
| 34. | Christopher Jensvold, 2nd Lieut. 23rd Inf. | |
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- 86.
- 87.
- 88.
- 89.
- 90.
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Colonel 23rd Infantry,
Vice President.

William Bunker + Biddle

William Claude Fitzpatrick, 1st Lt., Sig. Corps.
William Oscar Read, 1st Lt., 6th Cavalry.
Jas. Johnson Morrow, Capt. Engineer Corps. *Life Member*
James Noble & Kimbrough, Jr., 1st Lt., 27th Inf.

was named inaugurated nearly April 1906.

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Major General John C. Bates, U.S.A.
Major General Samuel B. Sumner, U.S.A.
Major General William A. Hobbs, U.S.A. (retired)
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1st Lieut. W. McK. Embdin, Artillery Corps
1st Lieut. Cleveland C. Lansing, Artillery Corps
1st Lieut. James M. Loud, 28th Infantry
1st Lieut. Hamilton Bowie, 9th Cavalry
1st Lieut. Kent Browning, 1st Infantry
1st Lieut. Jennings B. Wilson, 3th Infantry
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1st Lieut. Benjamin Stark, Philippine Scouts
2nd Lieut. Wilford Twyman, 28th Infantry
2nd Lieut. Homer M. Preston, 28th Infantry
1905. Connected with the Order of Hero Campaigns, U. S. A.

miscellaneous.

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2. Mr. Ralph Davis, U. S. A., (Retired.)
3. Gen. J. Milton Thompson, U. S. A., (Retired.)

Col. H. Ross, U. S. Station, 1st Infantry.
 Maj. General Daniel M. French, Inspector General.
 Major Albert T. Washburn, Col. 2nd.
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 Capt. Harry C. Jowland, Phil. Corps, (1st Br., 1st Div.).
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 Washington, D. C.

2. 1. Charles L. L., A. S., Med. Dept.
Capt. Joseph C. Ford, A. S., Med. Dept.
Capt. George P. Peed, A. S., Med. Dept.
Capt. Samuel L. Steer, A. S., Med. Dept.
Lieut. Marshall Bennett, U. S. Navy, 1st Med. Dept., 1st Div. of 1st Med. Dept.
1st Lieut. George I. Tiedler, 7th Infantry.
1st Lieut. Robert I. Carswell, A. S., Med. Dept.
1st Lieut. Jesse R. Harris, A. S., Med. Dept.
1st Lieut. James H. Win. Tisen, A. S., Med. Dept.
1st Lieut. George W. Jech, A. S., Med. Dept.
1st Lieut. Clarence J. Cole, A. S., Med. Dept.
1st Lieut. William K. Davis, A. S., Med. Dept.
1st Lieut. Henry T. Pipes, A. S., Med. Dept.
1st Lieut. Heywood S. Mansell, A. S., Med. Dept.
1st Lieut. John M. Tanner, A. S., Med. Dept.

2nd Lieut. Robert C. Thomas, Engineer Corps.
2nd Lieut. Roger C. Powell, Engineer Corps.
2nd Lieut. Clifford C. Early, 20th Infantry.
2nd Lieut. Oscar A. Russell, 20th Infantry.
2nd Lieut. Felix W. Potlow, 20th Infantry.
Capt. Surg. Elmer S. Tenny, U. S. A.
Capt. Surg. Robert Grieger, U. S. A.
Capt. Francis J. Rooster, Sub. Dep.
Capt. Menutheros H. Cooke, 5th Infantry.
1st Lieut. Edward K. Casslee, 7th Infantry.
1st Lieut. Hugh A. Drury, 2nd Infantry.

Communications regarding the Military Order of Moro Campaigns have been written, January, 1900, by Colonel Philip Reade, 1st Infantry, to the following named officers:

4th Cavalry.

Colonel Edgar Z. Steever

Lieut. Colonel Charles A. Varnum

Major Frank A. Edwards
Major James Lockett
Major Elon F. Willcox

Captain Tyree R. Rivers
Captain George H. Cameron
Captain George O. Cross
Captain James D. Hughes
Captain Robert A. Brown
Captain Lewis H. Koehler
Captain Cecil Stewart
Captain Floyd W. Harris
Captain Louis C. Scherer
Captain Edwin B. Winans
Captain John O'Shea
Captain Samuel McP. Rutherford
Captain William D. Chitty
Captain Frederick T. Arnold
Captain Charles C. Farmer Jr.

1st Lieut. Ben H. Dorcy
1st Lieut. Samuel A. Purviance
1st Lieut. Douglas McCaskay
1st Lieut. Fred W. Hershler
1st Lieut. Thomas M. Knox
1st Lieut. William A. Austin
1st Lieut. Joseph C. Richter Jr.
1st Lieut. Jens E. Stedje
1st Lieut. William T. Renziehausen
1st Lieut. Frank I. Otis
1st Lieut. Frank F. Edwards
1st Lieut. William C. Gardenhire
1st Lieut. Goss L. Stryker
1st Lieut. Sebring C. McGill
1st Lieut. Charles J. Naylor

2nd Lieut. William S. Martin
2nd Lieut. Anton Jurich Jr.
2nd Lieut. James T. Henry Jr.
2nd Lieut. William H. Cowles
2nd Lieut. LeRoy D. Lewis
2nd Lieut. Orville N. Tyler
2nd Lieut. Alexander H. Hilton
2nd Lieut. Arthur G. Hixson
2nd Lieut. Henry C. Pratt
2nd Lieut. James J. O'Hara
2nd Lieut. Joseph D. Park
2nd Lieut. Clarence K. Lyman
2nd Lieut. James H. Dickey
2nd Lieut. Karl D. Klamm

Colonel William M. Wallace

Lieut. Colonel Alexander Rodgers

Major Wilber E. Wilder

Major Matthias W. Day

Major William D. Beach (General Staff)

Chaplain William W. Brander

Captain John J. Pershing (General Staff)

Captain Michael M. McNamee

Captain Francis C. Marshall

Captain James A. Ryan

Captain William T. Johnston

Captain George C. Barnhardt

Captain Julian R. Lindsey

Captain Howard R. Hickok

Captain George W. Kirkpatrick

Captain Lincoln C. Andrews

Captain Kenzie W. Walker

Captain LeRoy Eltinge

Captain Henry C. Smithers

1st Lieut. Warren W. Whiteside

1st Lieut. Sam Van Leer

1st Lieut. Charles E. McCullough

1st Lieut. George O. Duncan

1st Lieut. George T. Bowman

1st Lieut. Francis H. Cameron Jr.

1st Lieut. William C. Tremaine

1st Lieut. Christian Briand

1st Lieut. Richard B. Going

1st Lieut. Ben Lear Jr.

1st Lieut. Philip Mowry

1st Lieut. Arthur N. Pickel

2nd Lieut. Charles Burnett

2nd Lieut. Arthur J. Lynch

2nd Lieut. Clifton R. Norton

2nd Lieut. Eugene J. Ely

2nd Lieut. William S. Darriger

2nd Lieut. Joseph I. McMullen

2nd Lieut. Isaac S. Martin

2nd Lieut. Milton G. Holliday

2nd Lieut. Leon R. Partridge

2nd Lieut. Francis A. Ruggles

2nd Lieut. William W. Overton

2nd Lieut. Victor S. Foster

2nd Lieut. Samuel W. Robertson

10th Infantry.

Colonel Charles H. Noble

Major Henry P. Moon
Major Lyman W. V. Kernon
Major Robert C. VanVliet
Chaplain John A. Ferry

Captain Edwin A. Root
Captain Clarence T. Edwards
Captain James T. Deen
Captain James Baillies
Captain Eli A. Helmick
Captain William A. Phillips
Captain Ross L. Bush
Captain Marcus B. Stokes
Captain Henry E. James
Captain James W. Heidt
Captain James P. Goven
Captain Ralph E. Ingram
Captain G. Maury Gralle
Captain John B. Schoeffel

1st Lieut. Ethelbert L. D. Breckenridge
1st Lieut. James S. Young Jr.
1st Lieut. Walter S. Brown
1st Lieut. Joel R. Lee
1st Lieut. Kurtz Eppley
1st Lieut. Henry F. McFeely
1st Lieut. John B. Morris
1st Lieut. James G. Hannah
1st Lieut. William Taylor
1st Lieut. Robert C. Humber
1st Lieut. Donald G. McClelland
1st Lieut. John B. Shuman

2nd Lieut. Francis H. Eastman
2nd Lieut. George C. Rockwell
2nd Lieut. Frederick F. Black
2nd Lieut. Hiram M. Cooper
2nd Lieut. Maynard A. Wells

10th Infantry.

Colonel Walter S. Scott

Lieut. Colonel Arthur Williams

Major William Lassiter

Major Willis T. May

Major Andrew S. Rowan

Captain Joseph Glanens

Captain John Cotten

Captain Henry C. Vale (Gen. Staff)

Captain Samuel E. Smiley

Captain Charles C. Wallou

Captain Willis Uline

Captain Harry A. Smith

Captain William Brooke

Captain John McA. Palmer

Captain John K. Moore

Captain Frank M. Savage

Captain Charles H. Bridges

Captain Thomas R. Barker

Captain Bryan Conrad

Captain James M. Love Jr.

1st Lieut. George E. Stewart

1st Lieut. Ernest H. Reeve

1st Lieut. Robert T. Sillman

1st Lieut. Lochlin W. Caffey

1st Lieut. William A. McDaniel

1st Lieut. F.A. Aul

1st Lieut. Clark R. Elliott

1st Lieut. Charles E. Reese

1st Lieut. John W. Ward

1st Lieut. A. Owen Seaman

1st Lieut. Henry A. Bell

1st Lieut. Gustav A. Wieser

1st Lieut. Ned W. Green

1st Lieut. Guy E. Tucker

2nd Lieut. Alfred A. Nickox

2nd Lieut. John F. Clapham

2nd Lieut. Arthur E. Royce

2nd Lieut. Robert E. Boyers

2nd Lieut. John C. Upham

2nd Lieut. Jesse Gaston

2nd Lieut. Louis Farrell

2nd Lieut. Paul C. Potter

2nd Lieut. Edwin Futhner

2nd Lieut. Lowe A. McClure

2nd Lieut. Hugh L. Walthall

2nd Lieut. Charles L. Sampson

2nd Lieut. William P. Carrier

2nd Lieut. George F. Vaughn

2nd Lieut. Clarence A. Mitchell

Land Infantry.

Colonel William F. Wheeler

Lieut. Colonel George F. Cooke

Major John J. Crittenden

Major William C. Butler

Major Abner Pickering

Chaplain E. H. Fitz-Gerald

Captain John W. Briggs

Captain Robert T. Hamilton

Captain William C. Asbell

Captain Peter Davison

Captain Orrin R. Wolfe

Captain Frederick G. Stritzinger

Captain Lorrain T. Richardson

Captain Issac Newell

Captain Daniel G. Berry

Captain Chauncey B. Humphrey

Captain David B. Stone

Captain George N. Bonford

Captain John R. R. Hannay

Captain Laurence A. Curtis

Captain Henry S. Wagner

1st Lieut. George S. Simonds

1st Lieut. James Justice

1st Lieut. Henry A. Ripley

1st Lieut. James A. Goodale

1st Lieut. William C. Doane

1st Lieut. Edward W. Berry

1st Lieut. Parker Mitt

1st Lieut. Robert Whitfield

1st Lieut. Solomon P. West

1st Lieut. Martin Novak

1st Lieut. William S. Neely

1st Lieut. F. Alfred Moss

1st Lieut. Harry Graham

1st Lieut. John H. Baker

1st Lieut. David A. Henkes

2nd Lieut. William E. Roberts

2nd Lieut. Dean Malford

2nd Lieut. Max E. Garber

2nd Lieut. E. Flewellyn Cull

2nd Lieut. George F. Rozelle Jr.

2nd Lieut. Charles B. Moore

2nd Lieut. John J. Burleigh

2nd Lieut. Edward E. McCammon

2nd Lieut. Philip Remington

2nd Lieut. Russell V. Venable

2nd Lieut. Matthew H. Thomlinson

2nd Lieut. Benjamin P. McCroskey

2nd Lieut. Thomas W. Hammond

2nd Lieut. Frederick C. Test

27th INFANTRY

-Colonel Samuel R. Whitall
-Lieut. Colonel Richard T. Yeatman
-Major Emory A. Jones
-Major Edgar W. Howe
-Chaplain George D. Rice (Capt.)

-Capt. John P. Finley
-Capt. James T. Moore
-Capt. William C. Rogers
-Capt. Matthew E. Saville
-Capt. Paul E. Malone
-Capt. Charles F. Crain
-Capt. Thomas W. Darrah
-Capt. James A. Hutton
-Capt. John Robertson
-Capt. Walter T. Bates

-1st Lieut. Hugh A. Drum
-1st Lieut. Oliver S. Eskridge
-1st Lieut. Ralph McCoy
-1st Lieut. Frank B. Hawkins
-1st Lieut. Charles G. Bickham
-1st Lieut. William E. Gracie
-1st Lieut. Claude S. Fries
-1st Lieut. James M. Kimbrough, Jr.
-1st Lieut. Ernest Van D. Murphy
-1st Lieut. Joseph H. Griffiths
-1st Lieut. Thaddeus B. Seigle
-1st Lieut. Arthur W. Brown
-1st Lieut. Harry E. Comstock
-1st Lieut. George C. Shaw

-2nd Lieut. Sylvester C. Loring
-2nd Lieut. John J. Fulmer
-2nd Lieut. Kelton L. Pepper
-2nd Lieut. Frederick E. Wilson
-2nd Lieut. William St. J. Jarvey, Jr.
-2nd Lieut. Arthur T. Dalton
-2nd Lieut. Edward J. Moran
-2nd Lieut. James M. Hobson, Jr.
-2nd Lieut. Benjamin F. Miller

Major Edgar A. Mearns, Med. Dept.
of Executive Committee.

Philip R. R. R.
Colonel, 2nd Inf.
Vice President.

22 Dec 1900

11/12/00

INVOICE OF
RECEIPT FOR

Botanical Spec. transferred by *Maj. Hearn*
~~Quartermaster~~, U. S. Army, at *Camp Daulton P.D.* to *Capt. L. C. Scher*
 Quartermaster, U. S. Army, at *Camp Daulton P.D.*, on the *14th* day of
June, 190*6*, for transportation and delivery to *Maj. Hearn*
Surgeon, U. S. Army, at *Zamboanga Mind P.D.*

QUANTITY. (In figures.)	ARTICLES:	COST WHEN NEW.		CONDITION.	REMARKS.
		Dolls.	Cts.		
<i>21 Pkgs</i>	<i>Botanical Spec.</i>	<i>358</i>	<i>lbs.</i>	<i>As. ft.</i>	<i>30</i>
<i>2 Bds</i>	<i>Bedding & Etc.</i>	<i>50</i>	<i>..</i>	<i>..</i>	<i>8</i>
<i>1 "</i>	<i>Clothing</i>	<i>10</i>	<i>th</i>	<i>..</i>	<i>1</i>
	<i>Total</i>	<i>418</i>	<i>th</i>	<i>Total</i>	<i>39</i>

I CERTIFY that I have this day { transferred to } the officer named above the articles specified in the foregoing list.
 { received from }

(Signed in *Dup.*)

38180

L. C. Scher
Capt. and Quartermaster *4th Cav.*

Voucher No., to

RETURN QUARTERMASTER'S SUPPLIES,

Quarter, F. Y. 190

Invoice of }
Receipt for } Supplies

Transferred { to
by

Quartermaster

at

to {
by {

Quartermaster

at

on the day of 190

for transportation to

at

It is IMPERATIVE that articles be arranged alphabetic-
ally. Where two or more words are necessary in the name of
the article place distinctive noun first.

This form will be used for all invoices and receipts, making
proper erasures to conform.

When prepared for use as vouchers to Return of Quarter-
master's Supplies the form will be made out in quadruplicate,
using typewriter and carbon process wherever practicable.
Erase that portion which refers to "transportation."

The invoicing officer will sign the two parts used as invoices
and transmit all four parts to the receiving officer, who will, on
receipt of the property, accomplish the two copies used as re-
ceipts and return them direct to the invoicing officer.

One copy of the invoice will be filed by the receiving officer
as a voucher to his return and one copy of the receipt will be
filed by the invoicing officer as a voucher to his return. The
other copies will be retained by the respective officers as
vouchers to retained returns.

Quartermaster, U. S. Army, at Camp Porter P. D., ^{to}~~by~~ Capt. E. C. Schurer
Quartermaster, U. S. Army, at Camp Porter P. D., on the 14th day of
June, 1906, for transportation and delivery to Maj Means
Ingou, U. S. Army, at Zamboanga Mind P. D.

I CERTIFY that I have this day { transferred to } the officer named above the articles specified in the fore-
{ received from }
going list.

(Signed in Sup......)

38180

Capt. and Quartermaster 4" Cal

Form No. 117.

(Authorized May 24, 1905.)

Voucher No., to

RETURN QUARTERMASTER'S SUPPLIES,

Quarter, F. Y. 190

Invoice of }
Receipt for } Supplies

Transferred { to
by

Quartermaster

at

to {
by {

Quartermaster

at

on the day of , 190

for transportation to

at

It is IMPERATIVE that articles be arranged alphabetically. Where two or more words are necessary in the name of the article, place distinctive noun first.

This form will be used for all invoices and receipts, making proper erasures to conform.

When prepared for use as vouchers to Return of Quartermaster's Supplies the form will be made out in quadruplicate, using typewriter and carbon process wherever practicable. Erase that portion which refers to "transportation."

The invoicing officer will sign the two parts used as invoices and transmit all four parts to the receiving officer, who will, on receipt of the property, accomplish the two copies used as receipts and return them direct to the invoicing officer.

One copy of the invoice will be filed by the receiving officer as a voucher to his return and one copy of the receipt will be filed by the invoicing officer as a voucher to his return. The other copies will be retained by the respective officers as vouchers to retained returns.

5 Carabao dross 14 days @ 50¢	35.00
18 " 30 1/2 " @ 50¢	319.50
1 Capitan & Interpreter 30 1/2 d. @ \$1.00	35.50
7 Guide	
Unla Sangot to Misamis (Capt. Tenney's party)	10.00
" Misamis to Jimenez " " "	4.00
" " Overland " " "	14.00
" Sangot to Misamis (Major Meam party)	15.00
1 Guide Capt. Tenney 17 to 22 incl. Capt. T. Party	3.00
4 Oil Cans " " "	.80
1 " " Calagan	1.00
1 Guide 9 to 10 incl. Misamis party Sangot to Calagan -	2.00
2 Carabao Misamis to Calagan & return	
9 ^{1/2} to noon 12 ^{1/2} 3 1/2 days	7.00
1 ^{9^{1/2} to noon} Guide for Carabao Sangot to Misamis 12 to 18 ^{1/2}	1.15
3 Carabao Sangot to Calagan 2 days at \$1.00	6.00
3 Tao's for Carabao Sangot to Calagan 2 days.	
@ 50¢	3.00
1 Guide Sangot to Misamis May 26 th	1.50
2 Carabao Misamis to Sangot. June 1 st & 2 nd	4.00
Home unit Calagan	15.00
Bequa " "	1.00
Delivery of telegram from 2 nd from Overland	.50
2 pack horses June 11 th Calagan to Sangot.	2.00
	<hr/> 480.95

Capt. Teroy & Engadue 9-22nd (14 days)
Major McKims 18 "

70 d.

630 d.

Rice at Jangoh & Musam-

26.40

Separate Reports of Sick and Wounded for Regular and Volunteer Troops should be rendered.

REMARKS.

Here note matters of general interest in relation to the medical condition of the command, as prevailing diseases, their causation, measures adopted for their prevention, etc. Also matters relating to individual cases, such as notes of autopsies, etc. Reports of cases should not be entered here, but should be made separately. The notes called for in this column do not relieve a medical officer from the duty of reporting specially on any of the subjects indicated should their importance require a special record. Reports relating to commands in the field should show in these "Remarks" the locations of the principal camps occupied during the month with dates of arrival and of departure.

REPORT OF SICK AND WOUNDED

(Here state name of Regiment or Field Hospital (Post or General Hospital) with location on last day.)

Month of _____, 190
(Give beginning and end of period if for less than a month.)

This report is required monthly from every post, separate command, and general hospital; it should be forwarded in duplicate, one copy to the Surgeon General direct, the other to the Chief Surgeon, before the fifth day of the next succeeding month. In time of war only one copy of this report is required from general hospitals and from organizations and hospitals in the field. It should be forwarded from general hospitals direct to the Surgeon General (unless otherwise ordered), and from organizations and hospitals in the field to the Surgeon General through the Chief Surgeon. When two or more sheets are required to perfect the report they should be stitched together through binding space before forwarding. When a hospital is closed or an organization is broken up, a report covering the unreported period of service, giving the beginning and end thereof, should in like manner be forwarded within five days after the breaking up of the organization. (See pars. 170 and 171, Manual for the Medical Department, 1900.)

COMMAND.

Here specify the command and the companies and detachments composing it on the last day, together with the brigade, division, and army, or department in which it is serving. Important variations from the general composition of the command, as the arrival or departure of companies, should be stated under "REMARKS," on the left, giving the date and the names of accompanying medical officers.

REMARKS.

Here note the prevalence and character of diseases affecting the civilian attachés of the command, the extent of their prevalence, their probable causes, and predisposing conditions. The civilian attachés include the wives and children, relatives and servants of officers and enlisted men, as well as all other civilians, male and female, connected with the command or permitted to live at the post, including departmental employees, retired and discharged soldiers, and military prisoners, who, by the terms of their sentence or otherwise, have been discharged from the service of the United States; but the employees of contractors engaged temporarily in building or other work are not to be considered as attachés of the command. In addition to general remarks there may also be entered in this column short notes on points connected with the history of individual cases, memoranda of post-mortem examinations, etc., but special reports of unusual or interesting cases should be rendered separately. (Par. 176, Manual for the Medical Department, 1900.)

Adult males, _____; adult females, _____; children, _____
Here note also the data required by paragraph 138, Manual for the Medical Department, 1900.

(If nothing calling for report or comment has occurred during the month, the fact should be stated.)

Mean strength during month obtained from the Adjutant of the command, averaged for _____ days:

Officers _____

Enlisted men _____

Indian scouts _____

White
Colored
Indian

Total _____

NUMERICAL REPORT FOR THE MONTH.

REPORT OF—	Remaining from last month.	ADMISSIONS.			Total to be accounted for.	COMPLETED CASES.									AGGREGATE NUMBER OF DAYS LOST FROM SICKNESS.		
		From command.	By transfer.	From other sources.		Returned to duty.	Died.	Discharged for disability.	Deserted.	Discharged by expiration of term.	Transferred to insane asylum.	Transferred to other hospital.	Otherwise disposed of.	Remaining on sick report.	In hospital.	In quarters.	Absent.
Officers and enlisted men																Not used.	Not used.
Civilians																Not used.	Not used.
General prisoners																Not used.	Not used.

Cases of officers and soldiers absent sick at the end of the month will be carried on this summary as "Remaining on sick report" in "Quarters," and the time for such cases will be entered under the "Aggregate number of days lost from sickness" as "Absent."
Deaths, etc., occurring among those not on sick report, will be tabulated in red ink above the line and in the proper space.
Civilians (including ex-officers and ex-soldiers) and General Prisoners will be reported in this summary only when they receive hospital treatment or die.

NOTES.

Enter in the proper columns on the other side of this sheet, and on similarly ruled sheets, if required, full transcripts from the Register of Patients of all cases treated during the month, including those "remaining" as well as all deaths and discharges occurring not on sick report during the period, the names to be arranged in the sequence of the Register numbers. The day, only, is required to be entered in Column XVI for cases completed during the month. Cases remaining on sick report at the end of the month will have in their respective columns the register number, name, rank, company, and regiment or corps, the date of admission and its source, if from other hospitals with its cause so far as determined at the time, and will have the word "Remaining" written or stamped in Column XV. In the report for the month of December, Columns VI, VII, VIII, and IX should also be filled in and the place of treatment given in Column XII; alterations or amendments noted on cases remaining at the end of each month do not relieve the medical officer from reporting fully on the completed case, including such changes. Entries should be plainly and carefully written with a moderately coarse pen and permanent black ink. Corrections should be authenticated by the initials of the medical officer.
When the Field Register is improved from these sheets, see paragraph 161, Manual for the Medical Department, 1900, its preparation will be governed by the instructions given for filling the various columns of the Register of Patients. The data called for in Columns VI, VII, VIII, and IX will be filled in in all cases except when the information can not be readily obtained or when exigencies of service prevent compliance with pars. 149 to 152, and 178, Manual for the Medical Department, 1900.

I CERTIFY that this report covers _____ pages, and contains accurate details of _____ completed cases.

The officer rendering this report will sign this certificate and will close the list of entries on the last page by his official signature.

In the absence of a medical officer the physician rendering professional service should sign the Report of Sick and Wounded. (Par. 128, Manual for the Medical Department, 1900.)

Surgeon, U. S. Army.

DO NOT WRITE ON THE MARGINS OR BINDING SPACE.

£ 10. 10

Samuel 11/2/51

Assured if Maps means for and of Lancashire
Lancashire Insurance, fifteen pence. —

Gordon & Megnere

Samuel 11/2/51

£ 10. 10

Assured if Maps means for and of Lancashire
Lancashire Insurance, fifteen pence. —

Gordon & Megnere

1906

11. 11. 1906

Mr. Cipriano Pintacasi

P 4000 for use of 2
Carabao for 2 days in
transporting supplies to
Tanjung Jene 1st and
2nd 1906.

Recibido

Cipriano Pintacasi

Expenditures from L. M. Funds.

55335

Cargadores per time schedule	PP 461.55
5 Oil cans, for carrying water	1.80
Vinta from Tangob to Misamis (Capt. Jervey)	10.00
" " " " (Major Mearns)	15.00
Banco Misamis to Jimenez (Capt. Jervey)	4.00
Vinta from Misamis to Overtown (do)	14.00
Mineral oil	
Use of Anib's house for supply base one month	15.00
Bejuca	.95
Mineral oil	.40
<u>Other services:</u>	
Guide Tangob to Catagan and return	2.00
Guide + 2 Dubans Cargadores Catagan to Mt. Bliss and returning (Jervey, Earle + Mearns)	3.00
Guide Tangob to Misamis (May 25 + 26. Sgt. Watkins)	1.50
Guide Jimenez May 17 to 22 (Capt. Jervey's party)	3.00
Hire of 2 Carabao, Misamis to Catagan and return	
from May 9 to noon 12th (3 1/2 days)	7.00
Two drivers of Carabao, returning to do	1.15
Hire 3 carabao Tangob to Catagan May 10 + 11 (2 do)	6.00
" 3 taos for Carabao do	3.00
" 2 Carabao Misamis to Tangob (with rice, June 2-3)	4.00

553 35

Hire 2 Pack Ponies Catagan to Tangob June 11th. 2.00
4 Subanos. Caradores for rice Tangob to Catagan, ^{May 27th.} 4.00

Done.

559 35

Labor 556.20
Done 3.15.

559 35
35
559 35

Purchases of Food.

- 2 specimen boxes
- 1 - alcohol case
- 1 Traps
- 1 Botanical
- 1 Bedding roll

Rations

Ammunition

- 1 Tent fly.

Boxes for shells & eggs.

Extra supplies for base.

net & fishing tackle

Alcohol & formalin

Soda

Cotton

Arsenic

Bichloride

Botanical

Skimming outfit

Oakum & tow, excursion

Notebooks & pencils

Conant coin

Goods to trade natives

Whiskey

Gum oil

Cord

Traps

Medical supplies

Ammunition

Maps

Water boiler

2 Aneroids

Information

Thermometer

Platka at Lucuran
Campbell at Misamis
Doctor Mearns desires to
camp on Mount Malindag
with ~~party of six~~ American
soldiers and necessary
cargadores. Wire most
feasible route and ^{general} advice
including guides & interpreters
water supply above 5000 feet.

Alcoholics containers
Ordnance - canteen, eating tools, etc.

51

U. S. Army Transport "LOGAN"

No. 51

JUL 26 1905

190

Received

from Major E. A. Mearns

Fifty

Dollars

Cents

for meals from

L.

JUN 30 1905

to

B.

JUL 26 1905

Self, & dgtr.

Wm. L. Simpson

Transport Commissary.

Dropped out

JUL 13 1905

Retained

FORM NO. 17.
(Authorized April 22, 1896.)

PAY AND COMMUTATION.

Voucher No.

Paid, 190...

From, 190...

To, 190...

Pay 190..., \$.....

Pay 190..., \$.....

26509

When an officer is absent from his station, a paymaster will, before paying him, require proof of authority for such absence. (A. R. 1299.)

An officer will not hypothecate nor transfer a pay account not actually due. When due it may be transferred by indorsement, naming the party to whom transferred, and may be paid by the proper paymaster if satisfied of the genuineness of the officer's signature and if no stoppage or other disability as to pay prevents. The date of transfer, certified by the officer whose account it is, will appear in the indorsement. When an officer transfers a pay account, he will, at the time of transfer, communicate the fact to the chief paymaster of the department, through the paymaster who is expected to pay it. If the officer be on leave, or if his accounts be payable in Washington, the notification of transfer will be made to the Paymaster General. (A. R. 1300.)

The Secretary of War decided, under date of March 30, 1888, that an officer may forward his pay accounts a few days before maturity to a paymaster who shall hold them until maturity and then remit the amount to the officer, or, if he so request, place it to the officer's credit with the bank. The officer must be in service on the last day of the month for which the account is made.

The following indorsement will be made on the *center fold* of both vouchers when deposit with a bank is desired:

Place to my credit with.....

(Name and location of bank.)

(Name and rank of officer.)

Pay accounts of officers on the active or retired list, residing abroad, may be mailed at maturity direct to the paymaster stationed at or near the place where the officer keeps his bank account, and the paymaster will, with the officer's request, deposit the amount in the bank named. The letter of transmittal must be dated and mailed *on or after* the last day of the month for which the voucher is made. The letter should also give the post-office address to which the remittance shall be sent.

Duplicate copies of orders, either the original, or certified to by a disinterested person, *granting leave of absence, sick leave, directing travel, or for commutation of quarters (first vouchers)*, must accompany the officer's vouchers, and the vouchers themselves must be made up and signed by the officer.

PAY AND COMMUTATION

The United States,

To *Edgar A. Mearns, Major and Surgeon, U.S.A. Dr.*

	STATION.	FROM—	TO—	MONTHS.	MONTHLY PAY.	AMOUNT.
Forsalary for over <i>20</i> year's service	<i>Zamboanga, Mindanao, P. I.</i>	the <i>1st</i> day of <i>May</i> 190 <i>4</i> .	the <i>31st</i> day of <i>May</i> 190 <i>4</i> .	<i>1</i> Rooms.	<i>\$312.50</i> Per month.	<i>\$ 312 50</i>
For commutation of quarters	<i>do</i>	the <i>22nd</i> day of <i>March</i> 190 <i>4</i> .	the <i>31st</i> day of <i>May</i> 190 <i>4</i> .	<i>4</i>	<i>2 2/3</i> months \$12.	<i>110 40</i>
						<i>\$ 422 90</i>

I certify that the amount charged in the foregoing account is correct and just. That during the period charged for I have been regularly stationed on duty at *Zamboanga, Mindanao, P. I.*, by S. O. No. *59*, dated Headquarters *Dept. of Mindanao, Zamboanga, Mind., P. I., March 22* *Dept. Mindanao, March 19, 1904, amended by S.O. No. 61, 1904*; *that I have not received commutation of quarters, and have not had an assignment of public quarters at any station, for the time charged.

I was last paid to _____, 190____, by Major _____, Paymaster, U. S. A., and acknowledge to have received this _____ day of _____, 190____, of Major _____, Paymaster, U. S. A., in full of this account, the sum of _____ dollars, by check No. _____, on _____ \$ _____
 No. _____, on _____ \$ _____
 No. _____, on _____ \$ _____

(SIGNED IN DUPLICATE).

Major and Surgeon, U.S.A.

*For copy of order see voucher No _____, of Paymaster _____, account for _____, 190____.

The Philippine Journal of Science.

PUBLISHED BY THE BUREAU OF SCIENCE OF THE GOVERNMENT
OF THE PHILIPPINE ISLANDS.

EDITED BY

PAUL C. FREER, M. D., PH. D.
Director of the Bureau of Science.

CO-EDITORS

RICHARD P. STRONG, M. D.
Chief of the Biological Laboratory.

H. D. MCCASKEY, B. S.
Chief of the Division of Geology and Mining.

MANILA, P. I., November 1, 1905.

SIR: By act of the United States Philippine Commission, the Bureau of Government Laboratories will in the future include not only the divisions of scientific work which heretofore have been comprised in it but also the former Mining Bureau of the Philippine Government, and the united institutions will be known as the Bureau of Science. Beginning with January 1, 1906, it is proposed to change the form of the publications which in the past have appeared as the "Bulletins of the Bureau of Government Laboratories" to a journal which will be known as the PHILIPPINE JOURNAL OF SCIENCE. This publication will include original articles by the members of the staff of the Bureau of Science as well as scientific papers submitted for publication by other officials of this Government and by individuals who are not officials. The subjects covered by the organization of the Bureau and which will find a place in the new journal will be: Researches on biological subjects, including bacteriology, pathology, and allied branches of the science relating to medicine, botany, and zoölogy; on chemistry, including topics relating to the natural products of the Islands, to analytical and synthetical work, and to physiological and biological chemistry; researches relating to the field of serums and prophylactics and on mineralogy, geology, and paleontology, including investigations of the mineral resources and mining operations of the Philippines.

The scope of this journal will be varied and, covering as it does the field of scientific work in the Philippine Islands, it will be a publication which will give a review of the work which is being accomplished and of the original results which are being obtained. Readers who wish to follow special topics only can obtain author's reprints, but it is hoped that many workers in the scientific field will be sufficiently interested in all of the advances which are being made in this most interesting tropical country to subscribe for the complete journal.

The JOURNAL will be issued in as many numbers as may be necessary during the year, with a probable minimum number of ten, so that it will appear approximately once a month. The subscription price has been placed at \$5, United States currency, per year, payable in advance; single numbers at 75 cents, United States currency; reprints at 25 cents, United States currency, per number. Where a reprint includes serial portions contained in several numbers, the entire article, bound together, can be had at one-third the total cost of the numbers of the journal involved. The first number will appear on or about January 1, 1906. **ALL REMITTANCES TO BE SENT TO THE DIRECTOR OF PRINTING, MANILA, P. I.**

I am, very respectfully,

Paul C. Freer.

Director of the Bureau of Science.

..... , 190

To the DIRECTOR OF PRINTING,

Manila, P. I.

Inclosed please find { Draft
Money Order } for \$5, United States
currency, in payment of my subscription to the Philippine
Journal of Science for the year 1906.

(Signed)

Address

City

State

Street and number

PREVIOUS PUBLICATIONS OF THE BUREAU OF GOVERNMENT LABORATORIES.

No. 1, 1902, *Biological Laboratory*.—Preliminary Report of the Appearance in the Philippine Islands of a Disease Clinically Resembling Glanders. By R. P. Strong, M. D.

No. 2, 1902, *Chemical Laboratory*.—The Preparation of Benzoyl-Acetyl Peroxide and Its Use as an Intestinal Antiseptic in Cholera and Dysentery. Preliminary Notes. By Paul C. Freer, M. D., Ph. D.

No. 3, 1903, *Biological Laboratory*.—A Preliminary Report on Trypanosomiasis of Horses in the Philippine Islands. By W. E. Musgrave, M. D., and Norman E. Williamson.

No. 4, 1903, *Scrum Laboratory*.—Preliminary Report on the Study of Cattle and Carabos in the Philippine Islands. By James W. Jobling, M. D.

No. 5, 1903, *Biological Laboratory*.—Trypanosoma and Trypanosomiasis, with Special Reference to Surra in the Philippine Islands. By W. E. Musgrave, M. D., and Moses T. Clegg.

No. 6, 1903.—New or Noteworthy Plants, I. The American Element in the Philippine Flora. By Elmer D. Merrill, Botanist. (Issued January 20, 1904.)

No. 7, 1903, *Chemical Laboratory*.—The Gutta Percha and Rubber of the Philippine Islands. By Penoyer L. Sherman, Jr., Ph. D.

No. 8, 1903.—A Dictionary of the Plant Names of the Philippine Islands. By Elmer D. Merrill, Botanist.

No. 9, 1903, *Biological and Scrum Laboratories*.—A Report on Hemorrhagic Septicæmia in Animals in the Philippine Islands. By Paul G. Woolley, M. D., and J. W. Jobling, M. D.

No. 10, 1903, *Biological Laboratory*.—Two Cases of a Psuccular Form of Hand Infection (Due to an Organism Resembling the Koch-Weeks Bacillus.) By John R. McDill, M. D., and Wm. B. Wherry, M. D.

No. 11, 1903, *Biological Laboratory*.—Entomological Division, Bulletin No. 1, Preliminary Bulletin on Insects of the Cacao. (Prepared Especially for the Benefit of Farmers.) By Charles S. Banks, Entomologist.

No. 12, 1903, *Biological Laboratory*.—Report on Some Putmonary Lesions Produced by the Bacillus of Hemorrhagic Septicæmia of Carabaos. By Paul G. Woolley, M. D.

No. 13, 1904, *Biological Laboratory*.—A Fatal Infection by a Hitherto Undescribed Chromogenic Bacterium: *Bacillus aureus foetidus*. By Maximilian Herzog, M. D.

No. 14, 1904, *Serum Laboratory*.—Texas Fever in the Philippine Islands and the Far East. By J. W. Jobling, M. D., and Paul G. Woolley, M. D. *Biological Laboratory*.—Entomological Division, Bulletin No. 2. The Australian Tick (*Boophilus Australis Fuller*) in the Philippine Islands. By Charles S. Banks, Entomologist.

No. 15, 1904, *Biological and Serum Laboratories*.—Report on *Bacillus Violaceus* Manilla: A Pathogenic Microorganism. By Paul G. Woolley, M. D.

No. 16, 1904, *Biological Laboratory*.—Protective Inoculation Against Asiatic Cholera: An Experimental Study. By Richard P. Strong, M. D.

No. 17, 1904.—New or Noteworthy Philippine Plants, II. By Elmer D. Merrill, Botanist.

No. 18, 1904, *Biological Laboratory*.—I. Amœbæ: Their Cultivation and Etiologic Significance. By W. E. Musgrave, M. D., and Moses T. Clegg. II. The Treatment of Intestinal Amœbiasis (Amœbic Dysentery) in the Tropics. By W. E. Musgrave, M. D.

No. 19, 1904, *Biological Laboratory*.—Some Observations on the Biology of the Cholera Spirillum. By W. B. Wherry, M. D.

No. 20, 1904, *Biological Laboratory*.—I. Does Latent or Dormant Plague Exist Where the Disease is Endemic? By Maximilian Herzog, M. D., and Charles B. Hare. *Serum Laboratory*.—II. Broncho-Pneumonia of Cattle: Its Association with *B. Bovisepticus*. By Paul G. Woolley, M. D., and Walter Sorrell, D. V. S. III. Pinta (Paño Blanco). By Paul G. Woolley, M. D. *Chemical Laboratory*.—IV. Notes on Analysis of the Water from the Manila Water Supply. By Charles L. Bliss, M. S. *Serum Laboratory*.—V. *Frambœsia*: Its Occurrence in Natives in the Philippine Islands. By Paul G. Woolley, M. D.

No. 21, 1904, *Biological Laboratory*.—Some Questions Relating to the Virulence of Microorganisms with Particular Reference to Their Immunizing Powers. By Richard P. Strong, M. D.

No. 22, 1904, *Bureau of Government Laboratories*.—I. A Description of the New Buildings of the Bureau of Government Laboratories. By Paul C. Freer, M. D., Ph. D. II. A Catalogue of the Library of the Bureau of Government Laboratories. By Mary Poik, Librarian.

No. 23, 1904, *Biological Laboratory*.—Plague: Bacteriology,

Morbid Anatomy, and Histopathology (Including a Consideration of Insects as Plague Carriers). By Maximilian Herzog, M. D.

No. 24, 1904, *Biological Laboratory*.—Glanders: Its Diagnosis and Prevention, together with a Report on Two Cases of Human Glanders Occurring in Manila and Some Notes on the Bacteriology and Polymorphism of *Bacterium Mallei*. By William B. Wherry, M. D.

No. 25, 1904.—Birds from the Islands of Romblon, Sibuyan, and Cresta de Gallo. By Richard C. McGregor.

No. 26, 1904, *Biological Laboratory*.—The Clinical and Pathological Significance of *Balantidium Coli*. By Richard P. Strong, M. D.

No. 27, 1904.—A Review of the Identification of the Species Described in Blanco's Flora de Filipinas. By Elmer D. Merrill, Botanist.

No. 28, 1904.—I. The Polypodaceæ of the Philippine Islands. Edible Philippine Fungi. By Edward B. Copeland, Ph. D.

No. 29, 1904.—I. New or Noteworthy Philippine Plants, III. II. The Source of Manila Elemi. III. The Constituent Species of a Typical Philippine Hill Forest. By Elmer D. Merrill, Botanist.

No. 30, 1905, *Chemical Laboratory*.—I. Autocatalytic Decomposition of Silver Oxide. II. Hydration in Solution. By Gilbert N. Lewis, Ph. D.

No. 31, 1905, *Biological Laboratory*.—I. Notes on a Case of Hematoecyuria, together with some Observations on the Morphology of the Embryo *Nematode-Filaria Nocturna*. By William B. Wherry, M. D., and John R. McDill, M. D., Manila, P. I.; II. A Search into the Nitrate and Nitrite Content of Witte's "Peptone" with Special Reference to Its Influence on the Demonstration of the Indol and Cholera Red Reactions. By William B. Wherry, M. D.

No. 32, 1905, *Biological Laboratory*.—I. Intestinal Hemorrhage as a Fatal Complication in Amœbic Dysentery and Its Association with Liver Abscess. By Richard P. Strong, M. D. II. The Action of Various Chemical Substances upon Cultures

¹ The first four bulletins in the ornithological series were published by The Ethnological Survey under the title "Bulletins of the Philippine Museum." The other ornithological publications of the Government appeared as publications of the Bureau of Government Laboratories.

of Amœbæ. By J. B. Thomas, M. D., Baguio, Benguet. *Biological and Serum Laboratories*.—III. The Pathology of Intestinal Amœbiasis. By Paul G. Woolley, M. D., and W. E. Musgrave, M. D.

No. 33, 1905. *Biological Laboratory*.—Further Observations on Fibrin Thrombosis in the Glomerular and in Other Renal Vessels in Bubonic Plague. By Maximilian Herzog, M. D.

No. 34, 1905.—I. Birds from Mindoro and Small Adjacent Islands. II. Notes on Three Rare Luzon Birds. By Richard C. McGregor.

No. 35, 1905.—I. New or Noteworthy Philippine Plants, IV. II. Notes on Cuming's Philippine Plants in the Herbarium of the Bureau of Government Laboratories. III. Hackel, "Notes on Philippine Grasses." IV. Ridley, "Scitiminæ Philippinenses." V. Clarke, "Philippine Acanthaceæ." By Elmer D. Merrill, Botanist.

No. 36, 1905.—A Hand-list of the Birds of the Philippine Islands. By Richard C. McGregor and Deane C. Worcester.

Publications of the Bureau are given out in serial number pertaining to the entire Bureau. Publications which may be desired can be obtained by applying to the Librarian of the Bureau of Science, Manila, P. I., or to the Director of the Bureau of Science, Manila, P. I.

Mileage and expense Account.

{ Compostella trip S. O. # 115 Headg. Dept. Mindanao
Buluan " " 118 do

Mailed the above to Chief Paymaster Department
of Mindanao, Sept. 14, 1904.

{ Manila from Zamboanga on Proteus. Paid me
by Capt. Irwin, at Manila, Sept. 14, 1904.

Accounts still due me — to be sent in: —

- 1 { Manila to Zamboanga. S. O. # 141, Div. Ph. July 28, 1903.
Subsistence only. If I have Capt. Brown's receipts
(received at Pantar), this has not been paid me.
- 2 { Zamboanga to Pantar S. O. 155. Dept. Mind. Aug. 7, 1903.
Mileage is due me on this.

Personal Orders affecting Station

I. Par. 26, S.O. #72, Headq. Army, A.G.O. March 27, 1903.
Fort Snelling to San Francisco.

II.

San Francisco to Manila.

III. Par. 1, S.O. #141, Headq. Div. Philippines. July 28, 1903.

Manila to Zamboanga.

IV. Par. 3, S.O. #155, Headq. Dept. Mindanao, August 7, 1903.

Zamboanga to Pantar, Mindanao.

V. Telegraphic instructions from Commanding General, Dept. of Mindanao, dated Sept. 27, 1903. Pantar to Malabang, thence to Parang to join Buldung Expedition.

VI. Telegraphic instructions from Dept. Comdr. dated October 8, 1903. Malabang to special service at Zamboanga.

VII. Verbal orders confirmed by Par. 5, S.O. #115, Headq. Dept. of Mindanao, June 6, 1904.

Zamboanga to Baganga, thence overland to Compostella, headwaters of Agusan River, down said river to Butuan and return to Zamboanga, all on the Island of Mindanao, April 17 to May 12.

VIII. Verbal orders confirmed by Par. I, S.O. #118, Headq. Department of Mindanao, June 9, 1904.

From Zamboanga to Buluan and Suipe-ton, and back to Zamboanga. May 14 to June 6, 1904.

- IX. Par. 2, S. O. # 153, Heady. Dept. Mindanao, July 25, 1904.
From Special Service to duty as Surgeon at post of
Zamboanga, Mindanao, P. I.
- X. Par. 1, S. O. # 161, Heady. Department Mindanao, Aug. 4, 1904.
From Zamboanga to 1st Div. Hosp., Manila, P. I.
- XI. Par. 3, S. O. # 188, Heady. Philippine Division, Sept. 9, 1904.
From 1st Div. Hosp., Manila, P. I. to Genl. Hosp., San Francisco,
California. Sailed on U. S. A. T. Logan.

May 1892

Med. Dept. 1892

To the Subsistence Department

573 says he is allowed to travel July 2
B. July 17. at 1.00 per day. 5 dollars 67

W. H. Delany

Trans. Dept. 1892

This will not be good unless an order
has been published covering the journey.

I made the trip to Davao on Genl. Wood's
verbal order. Returning from Davao to Zambo
Capt. of Mindanao said he had given my receipts
to Mr. Hunt, 2nd M. man in charge of transportation but I
never got them.

U. S. Army Transport

Mindanao

No 97 _____, 190

RECEIVED from Maj E. W. Mearns

Dollars eight Cents

for 2 Meals from Oct 30 "D" to Dec 1 "D"

L. W. Crosby
Transport Commissary.

U. S. Army Transport

Mindanao

No 25 _____, 1906

RECEIVED from Maj E. W. Mearns

Dollars fifty Cents

for 8 Meals from Oct 30 "D" to Dec 1 "D"

two soldiers &
two natives.

L. W. Crosby
Transport Commissary.

1903

Coast Guard Vessel

*"Ranger"**Hambroga*, *May 12*, 190*4*

Received of *Major Mearns U.S.A.*, the sum
 of *ten dollars* ———— (*10* ¹⁰⁰ Dollars,) *U.S.* Currency,
 for *10* ———— days' subsistence in the *Officers* ———— Mess,
 at the rate of *\$1.00 U.S.C.* per day.

1382-2

H. B. Anderson
Commanding.

2922

Coast Guard Vessel

*"Troy"**Davas*, *June 12*, 190*4*

Received of *Major E. Mearns*, the sum
 of *Three* ———— ¹⁰⁰ Dollars, *U.S.* Currency,
 for *Three* ———— days' subsistence in the *Officers* ———— Mess,
 at the rate of *.100* ———— per day.

1382-2

Chas. Yarnberg
Commanding.

1927

Coast Guard Vessel

*"Ranger"**Hambroga*, *May 24*, 190*4*

Received of *Major Mearns U.S.A.*, the sum
 of *sixty - six cents* ———— (*66* ¹⁰⁰ Dollars,) *U.S.* Currency,
 for *1/3* ———— days' subsistence in the *Officers* ———— Mess,
 at the rate of *\$1.00 U.S.C.* per day.

1382-2

H. B. Anderson
Commanding.

22.50

- 1 Tin of 50 lbs. flour
 20 lbs. American fruit
 2 Tins 5 lbs. Potatoes
 4 Cans 2 lb. Jam 13 lbs. of
 1 Can 5 lb. Coffee
 2 " 1 " Tea Japan
 2 Blq. Malates
 1 " Paper
 3 Bot. 3 lbs. Salt
 2 Basins hand wash.
 2 Beef, chipped 1 lb.
 3 ~~Butter 3 lbs 1 lb.~~
 2 Can openers
 2 Boxes cigars (Londres)
 50 ft. clothesline
 2 Cans of cold ham 1/2 lb
 4 " Jelly currant 2 "
 6 " milk condensed 1 "
 2 " Oatmeal 2 "
 1 Bot (1/2) Olives ft.
 12 Cans Peaches 3 "
 3 cakes soap Toilet O.M.
 6 Pcs. Shoestrings Kahki
 2 Plugs Tobacco

- 6 Tobacco Kull Mountain
 4 Cans 1 lb. Beef 2 lb.
 6 " 1 lb. 3 lbs
 1 " Ham Bread
 1 " Talcum Powder
 6 pairs Needles
 2 spools thread Kahki

Total \$25.21

25.21

Cigar Co. Manila
 W.A.M. Miranda
 Manila

In 1. - 507

2 Lbs. H. S. each	50
6 " Canned Beef	12
8 " Beef "	16
10 Lbs. Beans	10
3/3 Sack Rice	50
8 Lbs. Beans	8
10 Lbs. Coffee	10
18 " Sugar	18
6 " Salt	6
6 Cans Peaches	18
6 " Apples	12
2 " Bananas	4
2 Lbs. Tea	2
4 " Soap	4
	<hr/> 220
	7.3

- 2 3/4 Hard hat
- 2 3/4 Buck's Broom
- 2 3/4 Rice
- 1 3/4 Tent fly + ax
- 1 3/4 Accumulation
- 1 3/4 Traps

	8	H. & W.
	3	Rice
	9	Bacon
	1	Corn
<hr/>	9	Carrots
		Nov 26.

MEMORANDUM.

Loads for packing:

- 2 boxes for specimens;
- 1 ammunition;
- 1 traps;
- 1 Cooking outfit and tentage;
- 2 bedding;
- 5 rations.

12 cargadores.

Duplicate
Data for Dr. Stejneger.

March 30, 1907. - The Sergeant in charge of the steam launch Yokane, which took Guegal Wood's party up the river to Camp Wilhelm, Lucina, southern Luzon, showed me the skin of a crocodile which he had shot, 2 months before. The skin had been cut off behind the head. Shrunken and dry as it was when I saw it, and lacking the head, the skin measured 17 feet in length in the median line. When fresh, the reptile measured, according to the Sergeant, just 21 feet in total length. Another crocodile, 12 feet in length, had just been shot in the river.

Botanical data.

Chum-ping Chum-ping is the Moro name of the Moro cemetery flower, a succulent littoral plant very abundant and pretty in sandy soil.

Dulao is the Moro dye-plant. From the same plant the Moro women can dye hemp red, purple, or yellow.

Fruits of Jolo, Julu Island:—Papaya, Chico, Mangastine, Lanzoni, Pumelo (Grapefruit), Jackfruit (Breadfruit), Durian, Fig, Orange, Lime, Coconut, Banana, Custard-apple, etc. The staple vegetables are: Rice, Comotes (yams), Tapioca, Maize, Eggplant, Gobbi (poey).

The gobbi is called Hō'-pee by the Tiruray people in the hills around Cotabato, Mindanao. May 18, 1904.—The floating islands in Lake Liguasan, Rio Grande Valley, Mindanao, are composed mainly of two species of grass; and the cogon grass grows wherever the banks become locally solid. The water cabbage and entangling vines (perhaps a species of the gentian or buckbean family) (specimen taken) which bear fleshy leaves and white flowers. Locally Convolvulus, senna, sedge, and Polygonum are abundant. Senna is the only shrub.

Botanical data.

The middle tree (Casuarina) grows on the
Tubay River, below the native town of Santiago.

FLORA OF THE PHILIPPINES.

HERBARIUM OF THE BUREAU OF SCIENCE.

Ficus baletii

~~Cary~~

No.

3636-2

Spec identified by Dr. Merrill.

190

April 29, 1904. — The middle tree (Casuarina) grows
along the middle course of the Baganga River, in
Eastern Mindanao.

May 8, 1904. — Agusan River near Lake Linao,
Mindanao "Uango" is the name of the Yucca-like
tree with stem 30 feet high, with long linear serrate-edged
leaves at the top, and large orange-red fruits.

In February, 1906, I collected specimens
from a tree bearing large red pods, on the
Island of Basilan. This tree is called
Kam-pee'-ny by the Moros of Basilan.

On the Island of Basilan, P. I., February 16
between camps No. 3 and 4, we ate a delightfully
acid fruit of a tree with light ^{colored} bark and compound
leaves. Fruit the size of a fig and sour tasted like
a nearly mature gooseberry. Called E'-ba.

Botanical Data.

Styphelia is the yew of Mt. Apo.

Ericaceae. Diplycosia merrittii Merrill. This was the principal food of Merula mindorensis on Mt. Halcón.

January 17, 1907. -- Collected a Casuarina and a fine tree orchid, at Tadsan, Ilocos Norte, Luzon, ^{altitude about 11,000 ft.} B. I.

March 25, 1907. -- On the edges of the Nanjan River, Mindoro, a coarse floating grass having shoots 40 feet long lined the river shores in many places. Lake Nanjan appears to be about the same size as Lake Buluan, Mindanao. It is bordered by lotus, which was the only water lily I saw. The shallows are densely grown with eel-grass (Vallisneria), which has the pistillate flowers lowered by a spiral twisting of the flower stem. I saw many fruiting plants and gathered some which were afterwards lost.

The nest of unidentified bird on Summit of Mount Bliss was placed in a coarse parasitic plant growing on an oak-tree, determined by Dr. Merrill as a species of Nedinilla.

The lake Moros call the Purnelo Pa-gat!

Casuarina = needle-tree.

Lacrydium clatum (Roxb.) Wall.
The cedar of Malindang.
Agathis = *almariga*.

Podocarpus - The
Humboldt Wood Malindang

Atlantic Union.

Phyllocladus - Malindang

Founded by

THE LATE SIR WALTER BESANT

Annual Report

For 1905.

Perth:

COWAN AND CO., LTD., TAY STR.

Statement of Service for the year
ending June 30, 1905.

On duty in the Philippine Islands, per
S.O. # 72, par. 26, Headquarters of the Army,
dated Washington, D. C., March 27, 1903, from
July 1 to September 15, 1904, as follows:

July 1 to 24, 1904, on special service at
G.I., dated Hdqrs. Dept. Mindanao, March 22, 1904.
Headquarters Dept. of Mindanao, per ^{par. 2} S.O. #
and on duty, for the same period, with expedition
to Davao and Mount Apo, Mindanao, per
verbal orders of Department Commander.

July 25 to August 8, 1904, on duty as
Surgeon post of Zamboanga, Mindanao, P.
I., per S.O. # 153, par. 2, dated Hdqrs. Dept. Mindanao, July 25, 1904.
August 9 to 17, 1904 en route from
Zamboanga, Mindanao, to First Division
Hospital, Manila, P. I., per Par. 1, S.O. # 161,
dated Headquarters Department of Mindanao, August
4, 1904. August 18 to September 14, 1904, patient
in First Division Hospital, Manila, P. I., per
Par. 1, S.O. # 161, order above cited. ~~September~~
~~15 to October~~ ~~P~~ ~~October~~ September 15 to October
17, 1904, en route to the U. S. A. General
Hospital, Presidio of San Francisco, Cali-
fornia, for treatment, per ~~S.O. # 1~~ Par. 3, S.
O. # 188, dated Headquarters Philippine Division,
September 9, 1904. Nov. 17, 1904 to Jan. 17, 1905, on
sick leave of absence per Par. 4, S.O. # 253, H. D. C.
Nov. 17, 1904.

Jan. 8, S.O. # 63, dated Manila, March 18, 1905.

STATEMENT OF ABSENCES FROM ZAMBOANGA, MINDANAO, P.I., OF
MAJOR EDGAR A. MEALICK, CHIEF SURGEON, DEPARTMENT OF MINDANAO,
FROM DECEMBER 27TH. 1905 TO AUGUST 9TH 1906.

- - - - -

Reported at Headquarters Department of Mindanao December 27, 1905
and announced as Chief Surgeon, Department of Mindanao and as Attending
Surgeon, Headquarters Department of Mindanao, same date.

Absent January 4th to 11th inclusive on tour of inspection, with
Department Commander, to Jolo, Siassi, Bongoa, Sibuta, and Tawi-Tawi
Islands.

Absent January 20th to 24th inclusive accompanying Department Com-
mander on inspection trip to Davao, Mindanao.

Absent January 26th to February 4th inclusive with map making
expedition on Island of Basilan, P.I.

Absent February 13th to 21st inclusive on Island of Basilan, P.I.
with surveying party.

Absent March 1st to 3rd inclusive accompanying Brig. General Bliss
U.S. Army on tour of observation to Sulu and Basilan Islands.

Absent March 8th at Jolo, P.I. in answer to emergency call for
medical assistance from Commanding Officer, Jolo, Jolo on account of
numerous casualties resulting from engagement of troops with hostile
Moros at Bud-Dajo, P.I.

Absent March 13th to 16th inclusive at Parang, Mindanao inspect-
ing hospital under construction.

Absent March 26th. at Jolo, P.I. as member Board of Officers to
report upon the physical condition of Major Ebon F. Wilcox, 4th Cavalry.

Absent May 6th to June 15th inclusive on biological and geographi-
cal reconnaissance at Mt. Malindang, Mindanao.

Absent July 8th to 27th inclusive at Manila, P.I. per telegram
from Headquarters Philippines Division.

1000 G 3.15 to at Manila at 7:00

July 11-4th Chief Surgeon, D.M. per G.O. 41, Dept. Mind. Dec. 27, 1905. 5th to 8th en route to Manila per Telegraphic Authority, Hdqrs Phil. Div., dated July 5, 1906. In Manila July 8th to 27th. En route to Zamboanga July 28-30th. July 31st to Oct. 12, On duty as Chief Surgeon, D.M., per G.O. 41, D.M., Dec. 27, 1905. On Special duty Hdqrs Philippines Division, Oct. 23, 1906 to April 15, 1907, per par. 3, S.O. 232, Phil. Div., dated Oct. 23, 1906. Commanding Military Hospital, Camp John Hay, Benguet April 16th to May 18, 07, per par. 10, S.O. 74, Phil. Div., April 13, 07. On detached service in the field May 19th to June 28, 1907, per V.O. Commanding Gen'l, Phil. Div. 29th to 30th Commanding Mil. Hosp. Camp John Hay.

Record of personal service.
Sick leave from Genl. Hosp. S.
H. per S.O. # 253, D. Col. Nov. 17, 1904
Ordinary leave per. S.O. # 307,
War Dept., Dec. 31, 1904.
Extended by S.O. # 27, W.D.,
Febr. 2, 1905.
Sick leave per D.O. # 63,
W.D., March 18, 1905.

Sgt.

Zambaonag, Mindanao, special service, par 2, S.O. 61, D.M., dated Mch 22, 1904. Surgeon Zambaonga, Mindanao, per par. 2, S.O. 153, D.M., dated July 25, 1904. Reported same date. Sick in Qrs July 25-31, 04. Will proceed to Manila for obs. and treatment, per par. 1, S.O. 161, D.M., dated Aug. 4, 1904. Left Zamboanga Aug. 9, and reported at Division Hospital Aug. 17, 1904. Transferred to General Hosp. San Francisco, Cal. for treatment, per par. 3, S.O. 188, P.D., dated Sept. 9, 1904. Left Manila Sept. 15, 1904. Returned to Manila from the United States on the U.S.A.T., Logan July 26, 1905. Assigned to the Dept. of Luzon, per par. 9, S.O. 173, P.D., July 28, 1905. Camp Gregg, Pang. per par. , S.O. 160, D.L., ~~####~~ 1905. Joined July 29, Left Camp Gregg, en route to Manila July 30, 1905. Assigned to duty as Chief Surgeon Dept. of Luzon, per ~~par. 10~~ G.O. 52, D.L. July ~~##~~, 1905. Joined July 31, 1905. Relieved from duty as Ch. Surg. and assigned as assistant to C.S., D.L., per G.O. 68, D.L., Oct. 9, 1905, joined same date. Relieved from duty in the Dept. of Luzon and assigned to duty in the Dpt of Mindanao, per par. 10, S.O. 280, P.D., dated Dec. 11, 1905. Left Manila en route to Baguio, Benguet Nov. 27, 05, per par. 2, S.O. 252, D.L., dated Nov. 25, 1905. Returned to Manila December 16, 1905. Left Manila en route to Zamboanga Dec. 19, 1905. Arrived Zambaonga December 27, 1905. Assigned to duty as Chief Surgeon, Dept. of Mindanao, per G.O. 41, D.M., dated December 27, 1905, assumed the duties Dec. 28, 1905. Left Zamboanga Jan. 4, 06 on tour insp. to Jolo, Siassi, Sibutu, and Tawi-Tawi, per V.O., C.G., D.M., Jan. 3, 1906. Returned to Zamboanga Jan. 11, 1906. On detached service accompanying Map making exp. to the isld of Basalin, Jan. 26-Feb. 4, 06, per V.O. Dept. Comd'r, Jan. 25, 1906. On tour of insp. to Parang March 13-16-06, per V.O., D.C., March 12, 1906. On det. service May 6, to May 1906, per 1st. Ind. Hdqrs Dept. Mind. dated April 16, 1906. In Manila July 8-27, per Tel. auth. Hdqrs Phil. Div. dated July 5, 1906.

*Ordered to Camp John Hay by S.O. # 74,
par. 10, H. P. S., April 13, 1907.*

Time - Book

After long delay

I have landed with
my party upon
completion of journey.

On duty as Post Surgeon, Baguer
Camp John Hay, Benguet Province,
Luzon, July 1 to August 6, 1907
per Par. 10, S.O. No. 74, H. & D.,
April 13, 1908.

Relieved from duty in M. Philippines
Division, to leave on transport
(U.S.A.Y. Sherman) sailing from
Manila for San Francisco,
August 15, 1907, per ^{Par. 123,} S.O. # 123,
War Department, Washington, May 25,
1907. Left Camp John Hay
August 7, 1907; arrived at San
Francisco September 16, 1907;
reported for duty at Fort Totten,
New York September 26, 1907, per
order last cited.

On duty as Surgeon, Fort Totten,
New York, per order last cited, September
27, 1907; detached service (riding test),
Oct. 20 to 24, 1907; on duty as Surgeon, Fort
Totten, N. Y. October 25 to Nov. 6, 1907, per

MEDICINES.

Acacia (pulvis), in 500-gm. bottles. bottles.
Acetanilidum, in 125-gm. bottles. bottles.
Acidum aceticum, in 250-c.c. bottles. bottles.
Acidum arsenosum, 1-gm. tablets (125 in bottle), for field use only. bottles.
Acidum boricum (pulvis), in 250-gm. bottles. bottles.
Acidum boricum, 24-gm. tablets (125 in bottle), for field use only. bottles.
Acidum carbolicum, in 250-gm. bottles. bottles.
Acidum citricum, in 250-gm. bottles. bottles.
Acidum gallicum, in 25-gm. bottles. bottles.
Acidum hydrochloricum, in 250-c.c. g. s. bottles. bottles.
Acidum hydrocyanicum dilutum, in 25-c.c. g. s. bottles. bottles.
Acidum lacticum, in 25-c.c. g. s. bottle. bottles.
Acidum nitricum, in 250-c.c. g. s. bottles. bottles.
Acidum phosphoricum dilutum, in 250-c.c. g. s. bottles. bottles.
Acidum salicylicum, in 250-gm. bottle. bottles.
Acidum sulphuricum, in 250-c.c. g. s. bottles. bottles.
Acidum sulphuricum aromaticum, in 250-c.c. g. s. bottles. bottles.
Acidum tannicum, in 25-gm. bottles. bottles.
Acidum tartaricum, in 250-gm. bottles. bottles.
Aconiti tinctura, in 50-c.c. bottles. bottles.
Aconiti tinctura, 0.1-c.c. tablets (200 in bottle). bottles.
Ether, in 100-gm. tins. tins.
Ætheris spiritus compositus, in 250-c.c. bottles. bottles.
Ætheris spiritus nitrosi, in 500-c.c. bottles. bottles.

Per Par. 10 S.O. 210, D. & Aug. 21, 1907.

FORM NO. 11.

(Authorized November 5, 1896.)

ABSTRACT

OF

MEDICAL PROPERTY

RECEIVED BY PURCHASE AT

MEDICAL SUPPLY DEPOT,

S. O. # 123, W. D., May 25, 1907; on leave of absence November 7 and 8, 1907, per ^{par. 21} S. O. # 177, Fort Totten, New York, November 6, 1907; on duty as Surgeon, Fort Totten, New York, November 9 to December 8, 1907, per. par. 21, S. O. # 123, W. D., May 25, 1907; on leave of absence December ¹⁰ 9 to 12, 1908, per. S. O. No. 194, Fort Totten, New York, December 5, 1907; on duty as Surgeon, Fort Totten New York December 12, 1907 to June 30, 1908, per. ^{par. 21} S. O. # 123, W. D., May 25, 1907.

Col. Crampton
Major La Haze
" Jno. W. Barnister
Constituted B. of R. for
Case of Carter
Libson
Johnston

Dr. William Augustus Downes

Thirty-seven West Seventy-first Street

VOTE FOR

Senate Constitutional Amendment

No. 4

to exempt from taxation the

California Academy of Sciences

a free educational institution
a free museum for the people

HANCOCK

STATEROOM No. 111

BERTH

{ UPPER
LOWER
SETTEE

Seat No. 10

'Casoid' Biscuits.

FREE FROM STARCH & SUGAR.

Equal in Nourishment to Six times their weight of Ordinary Bread.

THREE VARIETIES.

No. 1. (Plain).—Suitable for use instead of bread at all meals. Excellent with cheese. They keep in good condition indefinitely if stored in a cool place.

No. 2.—Plain Crackers for general use instead of bread. Very nutritious. Should be stored in a cool place.

No. 3.—Sweetened with Saccharine. For use with coffee or tea. Crisp and appetizing.

Price: \$1.50 per box.

Or 6 boxes (assorted if desired) for \$8.00.

CARRIAGE PAID.

HUNT, BARNARD & CO., BLANDFORD ST., W.

'CASOID' DIABETIC FOODS.

The only STARCHLESS Foods
in the World.

MANUFACTURED

BY

CALLARD, STEWART & WATT,
74, REGENT STREET,
LONDON, ENGLAND.

Also TORONTO, MELBOURNE, & VIENNA.

GENERAL AGENTS FOR
THE UNITED STATES:

THOS. LEEMING & CO.,
73, WARREN STREET,
NEW YORK CITY.

Casoid Dinner Rolls.

These Rolls are made from vegetable albuminoids. They contain not more than 4% of starch, and this small proportion can be safely ignored. They can be used instead of bread and toast at all meals, and are improved by toasting. When grated the crumbs can be used for frying cutlets or fish. They keep indefinitely whilst the tin remains unopened. **Price \$1.50 per box; 6 boxes for \$8.**

"Casoid" Sugarless Marmalade.

Free from Starch and Sugar.

This Preserve is absolutely free from sugar and starch. An admirable substitute for ordinary Orange Marmalade. Patients appreciate it as a luxury. Unopened jars keep six months.

Price 75 cents per jar.

"Casoid" Sugarless Chocolate.

In small tablets, slightly sweetened, consisting of pure concentrated Chocolate. Its flavour is very strong. One tablet dissolved in hot water makes a cup of excellent chocolate beverage.

Boxes containing 36 tablets, per box \$1.00.

Saccharin Pellets.

For sweetening, as a harmless substitute for sugar
500 pellets in bottle, \$1.00.

Kalari Biscuits.

(Crackers.)

FOR WEIGHT REDUCTION. Free from drugs.
\$1.00 per box.

"Casoid" Diabetic Foods

Will be sent by express, prepaid on receipt of the price.

Sole Agents for the United States—

THOS. LEEMING & CO.,
73, WARREN STREET, NEW YORK.

CASOID (Reg. U.S.A. Pat. Office.) STARCHLESS FOODS. FOR DIABETES.

MANUFACTURED BY

Callard, Stewart & Watt,
LIMITED,

Food Specialists,

74, Regent Street, London, England.

Agents for the United States:

THOS. LEEMING & CO.
73, Warren St., New York City.

DIABETES.

The disease known as Diabetes is a condition in which the body is unable to use up starchy and sugary foods. If a diabetic patient takes starch and sugar in any form, it is not used up by the body, but remains unassimilated, and passes into the blood; its presence there causes all the well-known symptoms; it eventually passes into the urine. The only successful treatment of diabetes consists in depriving the patient of the foods containing starch and sugar, and thus allowing no accumulation of these substances in the blood. Some patients only partially lose their assimilative power, and these cases can be allowed limited quantities of starch and sugar, as may seem best to the physician. It is unwise for patients to relax the restrictions of the diet unless they receive special instructions from their medical adviser. Diabetic diet merely consists in the avoidance of starchy and sugary foods, and replacing them with starchless foods, such as Casoid Flour and Casoid Biscuits.

The principal article to avoid is ordinary bread.

The following are the common articles of food which must be avoided:—

SUGAR. BREAD. ROLLS. TOAST. CRACKERS.

CEREAL FOODS. RICE. MACARONI.

POTATOES. BEETROOT. PEAS. BEANS.

PASTRY. PUDDINGS. BANANAS. GREEN CORN.

CASOID FOODS CONTAIN NO DRUGS.

"CASOID" FLOUR.

For making Diabetic Bread.

This preparation consists only of albumen, and is therefore very highly nutritious. It does not contain starch, sugar, or dextrine in any form, this being the essential condition of any food which is fit for the use of diabetic patients. Full directions for its use are supplied with each package. Bread, etc., made from it is equal in nourishment to six times its weight of ordinary bread. It is not quite as palatable as the articles made with ordinary wheat flour, but a preference for this food is soon acquired by patients.

The baking powder used with it should be starchless, but if this is not available, one of the ordinary baking powders can be used.

In 2-lb. bags, Price \$1.50, carriage paid.

Particulars of Casoid Biscuits on next page.

OBESITY.

The CASOID FOODS are largely prescribed by physicians for the treatment of this uncomfortable condition, and the results are found to be excellent. If ordinary starchy foods, such as bread, rolls, crackers, biscuits, rice, potatoes, and sweet foods be avoided, and Casoid Biscuits taken to replace them at all meals, weight reduces at the rate of 2 lbs. per week after the first week. In cases of extreme stoutness about 3 or 4 lbs. per week is lost. This steady reduction is effected without impairing the strength or causing inconvenience. The biscuits cannot be harmful in any way.

CASOID FOODS CONTAIN NO DRUGS.

CASOID FLOUR.

This Flour consists of a mixture of vegetable and milk albuminoids, and is free from starch and sugar. It is useful for making bread, cakes, biscuits, pastry, etc., at home. Full directions are on each package, and it keeps in good condition indefinitely if stored in a dry place. It is highly nitrogenous, and therefore affords concentrated nutriment.

2-lb. packages. Price \$1.50.

KALARI BATONS

Kalari Batons are free from starch and sugar. They are made from milk albuminoids; very crisp and light. Being plain they are suitable for use with or without butter at all meals instead of bread and toast. They should be stored in a cool, dry place.

Price \$1.50 per box; 6 boxes for \$8.

Casoid Foods are free from Starch & Sugar

CASOID BISCUITS

THREE VARIETIES.

No. 1 CASOID BISCUITS (Plain Crackers).

These Biscuits being quite plain are suitable for use instead of bread at all meals. They are excellent with cheese, and can be toasted with advantage. They keep in good condition indefinitely if stored in a cool place.

\$1.50 per box; 6 boxes for \$8.

No. 2 CASOID BISCUITS (Plain Crackers).

These Biscuits are suitable for use instead of bread at all meals, but their flavour is different from that of No. 1 Casoid Biscuits.

\$1.50 per box; 6 boxes for \$8.

No. 3 CASOID BISCUITS (Sweetened).

These Biscuits are suitable for use with tea or coffee. They are sweetened with saccharin. Crisp and palatable.

\$1.50 per box; 6 boxes for \$8.

Casoid Foods are free from Starch & Sugar

THIS PAMPHLET IS SENT TO
QUALIFIED PHYSICIANS ONLY.

Warning.

The so-called "Gluten" foods which are sold as "diabetic" should always be tested before sanctioning their use. These preparations contain a large proportion of starch and other carbohydrates, which render them useless for diabetics. If any food shows a blue-black colour with aqueous solution of iodine, it contains starch and is fraudulent.

GASOID FOODS.

Starchless and Sugarless.

General Agents for the United States—

THOS. LEEMING & CO.,

Importers,

73, WARREN STREET,
NEW YORK CITY.

FOR PHYSICIANS ONLY.

The Few

Definite .

Facts . .

About . .

Diabetes

And its . .

Rational .

Treatment.

Published by

CALLARD & CO.,

74, Regent Street, London, England.

DIABETES MELLITUS

is one of the pathogenic conditions the treatment of which is often very unsatisfactory to the general practising physician. The fact that no actual curative treatment has yet been given to the world is discouraging, and the lack of improvement in the patient's condition causes despair and loss of faith in any measures adopted.

The strict dietetic measures, which are so irksome to the patient, are often disappointing, this circumstance being largely due to the lack of care and thoroughness in making that restricted diet bearable to the patient. It is practically impossible for a busy physician to give such details the care and attention they require, and he has had to rely upon the patient's own ingenuity and self-abnegation, which in most cases amounts to very little.

THE ONE CERTAIN FACT

that stands out in the investigation of carbohydrate metabolism and the pathology of diabetes mellitus is, that the patient loses partially or wholly the power of assimilating carbohydrates, and that the unassimilated material passes into the blood and eventually into the urine. The presence of this carbohydrate matter in the blood causes the familiar symptoms which are so distressing.

It often happens that a patient having sugar in the urine is ordered a starchless diet, and the physician, seeing the patient again in a few days, judges his condition as the result of a starchless diet. In many cases this is entirely misleading, as many circumstances may have occurred to upset the calculations. The patient may not have been faithful to the directions, he may have been taking so-called

"gluten" food, he may have lost his assimilative power entirely, or he may have only partially lost it.

There is abundant CLINICAL EVIDENCE to prove that diabetes mellitus can be controlled and kept down, in a patient over 30 years of age, if the diet contains no more than the amount of carbohydrates (starch, sugar and dextrose) which he can assimilate.

THE TOLERATION-POINT

can be easily ascertained in the following way. The patient should be instructed to diet according to the diet list on page 7 (separate lists can be had on application), for at least 2 weeks, using Casoid preparations to replace bread and cereals. His urine should then be quantitatively examined and the result noted. For the next two weeks he should continue the same diet, but with an allowance of $1\frac{1}{2}$ ozs. of ordinary bread per diem, after which another quantitative examination of the urine must be made. If the sugar secretion has not increased, another two weeks' trial with 3 ozs. of ordinary bread per diem can be tried and so on until the toleration-point is ascertained.

A PATIENT'S ALLOWANCE

of starchy food should be kept within the toleration limit, and if the intelligent co-operation of the patient is obtained, results will be satisfactory. The toleration-point should be ascertained again in a few months, as the assimilative power seldom remains stationary and frequently increases. Sudden Loss of Weight with no sugar secretion often denotes the increase of assimilative power.

THE DIET PROBLEM

immediately presents itself, and it is the object of this pamphlet to show the physician how he can be reasonably sure of getting correct results. The sudden cutting off of some staple articles of diet often leaves the patient in a quandary, and he either starves or breaks through his restrictions, thus vitiating the calculations of his physician.

CALLARD & Co., publish a **DIABETIC COOKERY BOOK**, which contains an explanation of the disease suitable for the layman, and giving directions for the proper observance of a starchless diet, with 150 recipes of all kinds. The patient's requirements are explained, practical help given, and there can be no excuse for starving or disregarding directions.

An excellent substitute for bread and cereals is provided by Callard's "Casoid" preparations (flour and biscuits), which are palatable and highly nutritious, particulars of which are given on page 6. These foods are composed of milk and vegetable albumen only, and are absolutely free from carbohydrates of any kind. They are prepared with great care and are necessarily more expensive than ordinary foods.

CASOID FOODS CONTAIN NO DRUGS.

A GUIDE TO **Diabetic Cookery**

By F. JAMES, M.P.S. (Great Britain).

A COPY WILL BE SENT FREE TO PHYSICIANS.

Price to Patients ~~40~~ cents.

50

"CASOID"

FLOUR.

For Making Diabetic Bread.

This preparation consists only of albumen, and is therefore very highly nutritious. It does not contain starch, sugar, or dextrine in any form, this being the essential condition of any food which is fit for the use of diabetic patients. Full directions for its use are supplied with each package. Bread, etc., made from it is equal in nourishment to six times its weight in ordinary bread. It is not quite as palatable as the articles made with ordinary wheat flour, but a preference for this food is soon acquired by patients.

The baking powder used with it should be starchless, but if this is not available, one of the ordinary baking powders can be used.

In 2-lb. bags Price \$1.50,

Particulars of Casoid Biscuits on next page.

Analysis of Casoid Flour.

Water	...	...	...	...	10.80%.
Fat	...	...	...	...	1.40%.
Mineral Matter	...	...	...	...	2.50%.
Proteids	...	...	...	...	84.56%.
Cellular Fibre, etc.	..	...	...	...	0.74%.
					<hr/> 100.00%.

'Casoid'

Biscuits.

FREE FROM STARCH & SUGAR.

— CRISP & PALATABLE. —

Equal in Nourishment to Six times their weight of Ordinary Bread.

THREE VARIETIES.

No. 1. (Plain).—Suitable for use instead of bread at all meals. Excellent with cheese. They keep in good condition indefinitely if stored in a cool place.

No. 2.—Plain Crackers for general use instead of bread. Very nutritious. Should be stored in a cool place.

No. 3.—Sweetened with Saccharine. For use with coffee or tea. Crisp and appetising.

Price: \$1.50 per box.

Or 6 boxes (assorted if desired) for \$8.00

CARRIAGE PAID.

These foods are practically free from carbo-hydrates and may be taken in any quantity.

Butcher's Meat of all kinds.

Ham, Bacon, or other smoked, salted, dried, or cured meats.

Poultry.

Game.

Shell-fish, and Fish of all kinds, fresh, salted or cured.

Animal Soups not thickened, Beef-tea and Broths.

Eggs dressed in any way.

Cheese.

Cream Cheese.

Butter.

Cream.

Greens. Spinach. Turnip-tops. Turnips.

French Beans. Brussels Sprouts. Cauliflower.

Broccoli. Cabbage. Asparagus. Seakale.

Vegetable Marrow. Mushrooms. Watercress.

Mustard and Cress. Cucumber. Tomato. Lettuce.

Endive. Radishes. Celery. Rhubarb. Vinegar.

Oil.

Pickles.

Jellies and Custard sweetened with Saccharine.

Savoury Jelly.

Blanc-mange made with Isinglass or Gelatine and Cream.

Nuts of any description, except Chestnuts.

Olives.

The following articles of food contain large proportions of either starch, sugar, or dextrine, and should be avoided by diabetics.

Sugar in any form.

Wheaten Bread and Biscuits of all kinds.

Toast.

Crackers.

Rice. Arrowroot. Cornflour. Oatmeal. Sago.

Tapioca. Macaroni. Vermicelli.

Potatoes. Carrots. Parsnips. Beetroot. Peas.

Spanish Onions. Green Corn.

Pastry and Puddings of all kinds.

Fruits of all kinds (Lemons excepted), fresh & preserved.

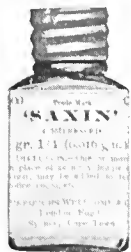
Sauces and Gravies thickened with Flour.

'SAXIN'

(TRADE MARK)

"The sweetest thing on earth"

'SAXIN' provides the maximum of sweetness in the minimum of space. A small bottle containing 100 or 200, each of which corresponds in sweetening power to one lump of loaf sugar, can be carried comfortably in the waistcoat pocket or in a lady's purse. When sugar is forbidden 'SAXIN' is essential. It is perfectly harmless, even for those who suffer from obesity, diabetes, gout or rheumatism, and who must not take sugar. 'SAXIN' simply imparts its delicious sweetness to the food or fluid with which it is



Bottle of 100
slightly reduced
Actual height, 1 1/2 in

The white triangle
= 5 cwt. Sugar
The dark apex
= 1 lb. 'Saxin'
1 lb. 'Saxin'
= 5 cwt. Sugar

used. It is free from the metallic tang which makes artificial sweetening agents so objectionable. 'SAXIN' is a dainty, delicate sweetener, so portable as to be always at hand even when travelling or visiting. You simply use one instead of a lump of sugar. For touring, travelling, or picnicking it is ideal.

'SAXIN,' gr. ¼, is supplied by all Chemists in bottles of 100, 200 and 500

TRADE MARK 'TABLOID' BRAND TEA

'TABLOID' TEA is all tea, but not all of the tea leaf. It contains nothing but pure tea of fine quality, from which the useless portions of the leaf, such as the stem and midrib, have been removed. Therefore it goes further than teas of ordinary commerce, and produces a finer and more delicious beverage. By compression into a small space, not only is such compactness attained that tea sufficient for producing 50 to 100 cups can be carried comfortably in the pocket, but other still more important advantages are secured. It is well known, for instance, that tea loses its fine aroma and deteriorates in strength and in quality by contact with the air. In the case of ordinary tea, each tiny leaf, even when kept in the caddy, is surrounded by and in

contact with a layer of air. In 'TABLOID' TEA the surface presented to the air is infinitely less, and by the careful method of packing even this surface is adequately protected from deteriorating influences.

THE ART OF TEA-MAKING

To yield a perfect beverage, the tea must not only be of fine quality and in perfect condition, but it must be freshly made. Here, again, 'TABLOID' TEA conforms to the ideal. From it, "the cup that cheers" is prepared quickly and without loss. Place one or more, according to taste, in a warmed cup. Pour on, whilst still boiling, fresh water, which has been allowed to boil furiously but not long; stir, and allow to infuse for three to five minutes. Then add milk or cream, 'SAXIN' or sugar, to suit individual tastes.

The perfect beverage



If preferred, the beverage may be served in the teapot by proceeding as follows:—Place sufficient 'TABLOID' TEA in a warm jug. Pour on the boiling water, cover and allow to stand from three to five minutes, and then strain off into a warm teapot. By these means the full value of the theine, which is the "soul" of the tea, and acts as a bracing stimulant to the

The "soul" of the tea

Retains its freshness and aroma

nerves, is obtained, and the unwholesome tannin, which would be extracted by allowing the leaves to stew in the teapot, is left behind.

Either method produces a beverage possessing exceptional delicacy and aroma, and far superior to that obtainable from ordinary tea.



'TABLOID' TEA, in addition to its superiority for ordinary regular use, is the most suitable for the early morning cup, for afternoon tea, or for travellers, sportsmen, cyclists, motorists, and for picnic parties. It is supplied in handsome metal pocket-cases containing 100 and 200.



Box of 100 'Tabloid' Tea
One-half actual size

'TABLOID' Brand TEA. Special Blend

A unique blend of the very choicest varieties, highly approved by connoisseurs, is also supplied in tins of 100 and 200.

Obtainable of all Chemists and Tea Dealers

The word 'Tabloid' is a brand which indicates that this fine Tea is issued only by

BURROUGHS WELLCOME & CO., LONDON (ENG.)

Branches. NEW YORK MONTREAL SYDNEY CAPE TOWN