THE AMERICAN MUSEUM OF NATURAL HISTORY
CENTRAL PARK WEST AT 79th STREET, NEW YORK, N.Y. 10024

L. MACMILLAN

LABEL #21 A

7 KANGAROO RATS

20 JUNE 1940

MAMMAL DEPT.
No. 21A.

American Museum of Natural History

7 KANGAROO [illegible]

Queensland: ROSEBERY BIRDSVILLE AREA

21.A. 20TH JUNE, 1940.

L. Macmillan

L. MacMillan

MAY 17 – JUNE 1, 1940

DICKAREE WATERHOLE
S.A.

June 7

Birdsville
QLD.

June 12 – June 22

ROSEBERTH
QLD.

June 27 – July 3

Birdsville
QLD.

Collection Purchased from

L. MacMillan

S.W. Queensland, Australia

Field Notes

SPECIES

MAMMAL DEPT.
DICKAREE WATER-HOLE
10 miles south of BIRDSVILLE.
WESTERN QUEENSLAND. (actually 2 miles inside South Australia).
Eastern Margin SIMPSON DESERT.

COLLECTOR: L. MACMILLAN.
COLL. NO. 2.

A.M.N.H. NO. 153419

DATE 17TH MAY 1940.

SPECIES RAT

SEX ♂ CONDITION GONADS.

TOTAL LENGTH. 325 mm.
TAIL 143 mm.
H.F.C.U. 40 mm.
H.E.A.C. 28 mm

SHOT 12 P.M. midnight **WGHT.** 218·8. gm. **SKL.**

STM.

SPIRIT SPECIMEN (BEING FIRST CAPTURE).

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

Iris black or very dark brown. Lips + nose. dusky flesh. Pads. dusky flesh.

These rats are very common about the flats (subject to rare flooding by overflow of Diamentiever River, but annual rainfall is 5 inches or less most years). surrounding the waterhole + in the flats between the sand hills of the desert margin. They are also found well into the desert. This or another species makes its burrows in the sandhills also. Burrows are extensive in the soft sandy soil + extremely difficult to dig out, tho' abo's (Aust. natives) do capture some by this method. Burrows have many entrances usually + some well concealed, also rats dig nearly as fast as you can with a shovel. Burrows have been followed to a depth of several feet. Tracks on sandhills show the species to be very abundant + also well worn pads to water etc. show this but it is seldom or never seen even with a flashlight at night. This specimen was collected by that method but is the first which has actually been seen.

188 body.

2/47

S. W. Q = South West Queensland.

PADV 185

S. & MCD. PTY. LTD., MELB., NO. 4764.

SPECIES

Dickaree Water hole, 10 miles south of BIRDSVILLE AREA, S.W. QUEENSLAND. East margin of Simpson Desert.

COLLECTOR : L. MACMILLAN.

COLL. No. MAMMALS 1.

A.M.N.H. NO. 153495

DATE 20-21st MAY 1940.

SPECIES RAT.

SEX ♂ CONDITION GONADS. large testis, weighing 5·3 gms.

TOTAL. 337. m/m.
TAIL. 153.
H.F.C.U 34·5
H.E.A.C 21.

TRAPPED ~~SHOT~~ 9 P.M. night of 20-21st. WGHT. 191·6 gm. SKL. marked with ticket No. 1.

STM. 1/1 full of green vegetable matter, chewed leaves.

TRAPPED with a bait of beef fat rubbed on as bait or lure. captured near a burrow.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP, LOWER BACK, UPPER BACK, NAPE, CROWN, CHEEKS
UNDERS—VENT., FLANKS, BELLY, BREAST, NECK, CHIN

ABR. W. T. W./T.

SKULL

This is numbered SK. No 1.

REMARKS

Iris dark brown. Lips slightly dusky flesh. Pads. dusky flesh.

This is the common species of rat about the waterhole flats + sandhills. There has recently been a plague of them. Drovers + horsemen in camp have to protect their leather gear from them. In this area the plague has passed but areas closer in to the coast are suffering from them at present. (It is possible the one causing the plague may be another species, my knowledge of mammals not being sufficient to know ~~that~~ whether that is the case or not.). Actually this appears to be the only mammal about this water hole apart from beef cattle, foxes + dingoes + rabbits. Others may be present, (possibly a mouse as small tracks have been seen but a native says these are young rats) but so far tracks have not been seen in the sand hills where tracks of many rats are plainly seen.

The area where these are collected is actually in South Australia, being 2 miles south of the Q.-SA. border.

3/47

Body 184.

S. & MCD. PTY. LTD., MELB., NO. 4764.

SPECIES

AUSTRALIAN SECTION. MAMMAL DEPARTMENT.
DICKAREE WATER-HOLE
10 miles south of BIRDSVILLE, S.W.Q.
East margin of Simpson Desert.

COLLECTOR: L. MACMILLAN.
COLL. NO. M. 2.

A.M.N.H. NO. 153475

DATE 20th-21st MAY 1940.

SPECIES RAT.

SEX ♀. CONDITION GONADS. gravid uterus, foeuters about 5mm. long.

TOTAL. 324 M.M.
TAIL. 140 m/m.
H.F.C.U. 33·5 m/m.
H.E.A.C. 20 m/m.

~~SHOT~~ TRAPPED 10 P.M.-1 A.M. WGHT. 175·8 gm. SKL. Number No M. 2.

STM. 1/4 full of green vegetable matter, possibly clover.

TRAPPED WITH BEEF DRIPPING AS LURE.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

Numbered M. 2.

REMARKS

Iris dark brown. Nose + lips. flesh with very slight dushy tinge, feet Pads very light tinge of dushy flesh.

SPECIES

A.M.N.H. NO. 153476

MAMMAL DEPT.

Dickarce Waterhole, 10 miles south of BIRDSVILLE, S.W. Queensland
East Margin of Simpson Desert.

AUSTRALIAN MAMMALS.
COLLECTOR: L. MACMILLAN.
COLL. No. M. 3

DATE 21st MAY 1940.

SPECIES ♂ RAT

TOTAL.	356 mm.
TAIL	169 mm
H.F.C.U.	39 mm.
H.E.A.C.	22 mm.

SEX ♂ CONDITION GONADS. testes weigh 2·65 gms.

~~SHOT~~ Trapped 1-7 A.M. WGHT. 208·0 gm. SKL. Marked M. 3.

STM. 1/1 full of green + dry vegetable matter + seeds, probably some type of grass seed.

Trapped between 1 AM + 7 AM with a trap placed alongside a pad + smeared with beef dripping as a lure.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

Marked M. 3.

REMARKS soft parts as previous specimens.

198/165/363

5/47

SPECIES

DICKAREE WATER-HOLE
10 miles south of BIRDSVILLE
East Margin of Simpson Desert.

S. W. QUEENSLAND.
COLLECTOR: L. MACMILLAN.
COLL. No. Spirit specimen. 3. A.

A.M.N.H. NO. 153425 MAMMAL DEPT. AUSTRALIAN SECTION. DATE 21st MAY 1940.

SPECIES ♀ RAT.

SEX CONDITION GONADS.

Trapped ~~SHOT~~ 1-7 AM. WGHT. 170·0 gm. SKL.

STM.

Trapped along side a well worn pad with a trap smeared with beef dripping as a lure.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

c/47

175.

S. & MCD. PTY. LTD., MELB., NO. 4764.

SPECIES

MAMMAL DEPT.

DICKAREE WATER-HOLE 10 miles south of BIRDSVILLE, S.W. Queensland.

East Margin of Simpson Desert

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. M. 4.

A.M.N.H. NO. 153477

DATE 21st MAY 1940

SPECIES ♀ RAT.

SEX ♀ CONDITION GONADS. Pregnant, 5 young about ¾ developed, sacks size of a very large green pea.

TOTAL: 307 mm.
TAIL: 134 mm.
H.F.C.U.: 31 mm.
H.E.A.C.: 16 mm.

~~SHOT~~ TRAPPED 1-7AM. WGHT. 151·55. gm. SKL. Numbered M. 4.

STM. ¼, green vegetable matter, grass or herbage, some dry grass.

Trapped in trap placed alongside well defined pad, trap smeared with beef dripping a bait.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP, LOWER BACK, UPPER BACK, NAPE, CROWN, CHEEKS

UNDERS—VENT., FLANKS, BELLY, BREAST, NECK, CHIN

ABR. W. T. W./T.

SKULL

fully detected + marked M.4.

REMARKS

Soft parts usual.

These seem a strange species as regards sex organs. The ♂ penis + the mammary glands of the ♀ appear almost identical in outward appearance. The large scrotum of the ♂ is the most noticable difference in the sexes + by looking the large vagina of the ♀ is plainly visable.

SPECIES

MAMMAL DEPT.

DICKAREE WATER-HOLE, 10 miles south of BIRDSVILLE, S.W. Queensland.

East Margin of Simpson Desert.

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. Spirit N.o.4.

A.M.N.H. NO. 153422

DATE 22nd May 1940

SPECIES ♂ RAT.

SEX

CONDITION GONADS.

SHOT Trapped 9 P.M. WGHT. 251·0 gm. SKL.

STM.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

Trapped alongside the camp fire in a mouse trap which though it did not kill the specimen kept it held by the nose, seemingly showing the animal is not strong or not a fighter as it should have easily escaped from such a low power trap.

A larger number of these than usual are being put in alcohol in case they are new, though that is doubtfull as, as far as this persons knowledge goes this is the same species which has been recently a plague.

8/47

SPECIES

MAMMAL DEPT.

DICKAREE WATER-HOLE, – 10 miles south of BIRDSVILLE, S.W. Queensland. East Margin of Simpson Desert.

AUST. SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. Spirit No 5.

A.M.N.H. NO. 153423

DATE 23rd May 1940.

SPECIES ♂ RAT.

SEX CONDITION GONADS.

Trapped. 2 A.M.–3 A.M.

~~SHOT~~ WGHT. 172.0 gm. SKL.

STM.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

9/47

SPECIES

MAMMAL DEPT. | AUST. SECTION.

COLLECTOR: L. MACMILLAN.

DICKAREE W.H. – 10 miles south of BIRDSVILLE, S.W. Queensland

COLL. No. Spirit No. 6.

A.M.N.H. NO. 153476

East margin of Simpson Desert.

DATE 24TH MAY 1940.

SPECIES ♀ RAT.

SEX

CONDITION GONADS.

Trapped ~~SHOT~~ 2AM–7AM. WGHT. 141·7. gm. SKL.

STM.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

10/22

SPECIES

MAMMAL DEPT.

DICKAREE WATERHOLE — 10 miles south of BIRDSVILLE — S.W. Queensland East Margin of Simpson Desert.

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. spirit No 7.

DATE 24TH MAY 1940.

A.M.N.H. NO. 153424

SPECIES ♂ RAT.

SEX CONDITION GONADS.

~~SHOT~~ Trapped. 2-7.A.M. WGHT. 212·8. gm. SKL.

STM.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

SPECIES

A.M.N.H. NO. 153470

MAMMAL DEPT.

DICKAREE WATERHOLE, 10 miles south of BIRDSVILLE, S.W. Queensland. East Margin of Simpson Desert.

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. Spirit No. 8.

DATE 24TH MAY 1940.

SPECIES ♂ redish Brush-tailed Kangaroo Rat.

SEX ♂. Dugout of burrow. CONDITION GONADS.

~~SHOT~~ 10·45 AM. WGHT. 28·24 gm. SKL.

STM.

TOTAL:- 227·5 mm.

TAIL: 138 mm.

H.F.C.U.: 35 mm.

H.E.A.C.: 2 mm.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

Iris. dark brown or black. Nose + lips pink flesh. Pads flesh, with least suggestion of duskyness.

During the morning's collecting far out on the flats towards the foot of a sand hill a crow was seen attacking something which was dodging around + around ~~an~~ a dead stump. The crow left as soon as collector approached + when arriving there nothing could be seen except a small burrow amongst the roots of the dead stump. This was dug out + a more or less stunned specimen was found. The burrow was small, about 1" to 1¼" in diameter at the entrance + narrowing to ¾" for the greater part of its length. It was only about 18" in length + curved around the tap root of the stump + was nowhere deeper than 4" in the very soft sandy soil. At the end of the burrow a domed circular chamber about 3" to 3½" in diameter ~~with~~ with a floor of dried grass or nest. Also there were numbers of the ~~sho~~ spiky green seeds of the castor oil (local name for a water side herb) with the inner seeds eaten out, evidintally one food of the species. Numbers of similar burrows were dug out + all corresponded closely to this, only the length varying from 1 ft to 2 ft in length. One other similar but more redish or sandy specimen was captured in such a burrow (SP. No. 9.). Many tracks of the species have been seen but this is the first time it has been captured inspite of much night hunting, digging, + trapping.

12/21

SPECIES

MAMMAL DEPT.

DICKAREE WATERHOLE, - 10 miles south of BIRDSVILLE, S.W. Queensland. East Margin of Simpson Desert.

AUSTRALIAN SECTION

COLLECTOR: L. MACMILLAN.

COLL. No. Spirit No. 9.

A.M.N.H. NO. 153469

DATE 24TH MAY 1940

SPECIES ♀ very sandy reddish Brush-tailed Kangaroo Rat.

SEX ♀. CONDITION GONADS.

Dug out.

~~SHOT~~ 2 P.M. WGHT. 31·35 gm. SKL.

STM.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

Tail damage was dry + healed when captured.

Captured in short burrow as described for previous specimen (SP. No. 9.).

13/77

SPECIES

MAMMAL DEPT.

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. Spirit No. 10.

DICKAREE WATERHOLE, 10 miles south of BIRDSVILLE S.W. QUEENSLAND. East Margin of Simpson Desert.

A.M.N.H. NO. 153471

DATE 24TH May 1940.

SPECIES ♂ MOUSE

SEX ♂ CONDITION GONADS.

Dug out.
~~SHOT~~ 3 P.M. WGHT. 13·63 gm. SKL.

STM.

TOTAL.	159 mm.
TAIL	89 mm.
H.F.C.U.	18 mm.
H.E.A.C.	12 mm.

Small mouse, reddish sides, dark sandy back, white unders.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

Iris. black or dark brown ?? nose. pink flesh. Pads pink flesh.

This is the first mouse seen hereabouts though their traps have been seen on the sandhills. They live in extensive warrens evidentally, generally in a low mound a few inches above the surrounding plains or sandhills surface. These warrens have entrances over an area of 25 or more square feet with many entrances. Burrows do not appear to be very deep, (only one dug out + it was ~~seen~~ no where more than 12 to 15" deep + mostly less than 6". The mice dug themselves out at all sorts of unexpected places while digging is going on. Nesting chambers are seen at the end of short side channels + are about 2" across (circular + domed). Generally the burrow is only an inch in diameter. Apart from these warrens smaller burrows are to be found in surrounding areas but none had any tennants when dug out.

14/47

SPECIES

MAMMAL DEPT.

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. Spirit. No. 11.

DATE 24TH MAY 1940.

DICKAREE WATERHOLE, 10 miles south of BIRDSVILLE, S.W. Queensland. East Margin of Simpson Desert.

A.M.N.H. NO. 153472

SPECIES ♂ dark sandy MOUSE.

SEX ♂ CONDITION GONADS.

Dug out of warren.

SHOT 3.P.M. WGHT. 11·0 gm. SKL.

STM.

TOTAL. 148 mm
TAIL 75 mm.
H.F.C.U. 16 mm.
H.E.A.C. 10 mm.

Possibly an imm. of the previous spirit specimen No. 10, as it was captured in the same warren.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

Soft Parts as previous except nose + lips + pads are much pinker.

In colouration it is quite different to the previous specimen but I believe it to be the same species. Lack of a smattering of a knowledge of mammals is a handicap ~~to~~ to good collecting, so in case it is different it is being put into spirit as if it were the first specimen collected of a new sub-sp.

15/47

Body.106.

SPECIES

A.M.N.H. NO. 153484

SKIN. | MAMMAL DEPT. | AUSTRALIAN SECTION.

Dickons Waterhole – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND

East Margin of Simpson Desert. (actually 2 miles into S.A.)

COLLECTOR: L. MACMILLAN.

COLL. NO. M. 5.

DATE 26TH MAY 1940

SPECIES Reddish Sandy Brush tailed Kangaroo-Rat.

SEX ♀. CONDITION GONADS. no sign of pregnancy. though I believe the specimen has had young ones.

~~SHOT~~ Trapped 12 P.M.-6.A.M. WGHT. 36·45. gm. SKL.

TOTAL. 234 mm.
TAIL. 131 mm.
H.F.C.U. 31 mm.
H.E.A.C. 23 mm.

STM. 1/1, full chewed green vegitable matter, probably some of the green herbage which has grown up where flood waters recently covered the flats, when the Diamintina was recently in flood.

Captured in a mouse trap baited with cheese rind set beside a pad.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

NUMBERED. M. 5.

REMARKS

Iris brown? black. Nose + pads pink flesh.

Though never seen this species must be abundant without a doubt. When digging them out one seems invariably to damage the tail which seems to become detatched extremely easily so much so that it would almost appear as if in a very much lesser degree this species was able to shed its tail like a lizard. The brush is very conspicuous as the animal hops away + doubtless would catch the eye of an attacking bird or mammal. Tracks where foxes have been digging them out may be found + these dug out burrows are invariably short ones, pointing to this being done at night when the animal is making new burrows or flees for protection to the nearest under ground refuge handy (so Hitler aint the only one can put fellas under ground). They are doubtless scented + dug out by the fox.

10/42

SPECIES

A.M.N.H. NO. 153483

MAMMAL DEPT.

DICKAREE WATER-HOLE - 10 miles S. of BIRDSVILLE, S.W. Queensland
East Margin of Simpson Desert

AUSTRALIAN SECTION.
COLLECTOR: L. MACMILLAN.
COLL. NO. M. 6.
DATE 28TH MAY 1940.

SPECIES. Redish field mouse.

SEX ♂ CONDITION GONADS.

Dug out of burrow.
SHOT 2.30 P.M. WGHT. 15·3 gm. ~~SKL.~~

STM. ½, seeds, roots ?, grass.

Tail broken while skinning (L. J. Value).

Captured by digging out burrow.

TOTAL.	159·5 mm.
TAIL.	80 mm.
H.F.C.U.	18·5 mm.
H.E.A.C.	9 mm.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

Body 82.

SKULL

marked. M. 6.

REMARKS

Iris black. nose + pads pink flesh.

This species lives in large parent warrens with small outlier burrows which are generally not extensive. They burrow in the parent burrows to considerable depth (2ft 6"). but generally speaking do not go far below 12". In the outlier burrows 3–6" is the general depth + mostly 3". The burrow is seldom more than ½-¾" of an inch in diameter except where larger nesting chambers are present or where numbers of chambers lead off from one central hall. They feed on a small onion root bulb which is abundant in the soil though it does not show on the surface except where flood waters on flats or rain on sandhills + flats causes it to sprout. They also feed on the seed of the sandhill cane grass. They seem to be fairly abundant in this area though hard to trap or dig out. One never sees them even with flash lamps at night. Tracks on the sand hills show them to be numerous.

SPECIES

A.M.N.H. NO. 153482

MAMMAL DEPT.

DICKAREE WATERHOLE — 10 miles south of BIRDSVILLE; S.E. Queensland East of margin of Simpson Desert.

AUSTRALIAN SECTION
COLLECTOR: L. MACMILLAN.
COLL. NO. M. 7.
DATE 28TH MAY 1940

SPECIES ♂ Mouse. (dark reddish).

SEX ♂ CONDITION GONADS. large & white.

Dug out.
~~SHOT~~ 2·30 P.M. WGHT. 13·05 gm. ~~SKL.~~

TOTAL: 153 mm.
TAIL: 80 mm
H.F.C.U.: 17·5 mm
H.E.A.C. 9 mm.

STM. 1/1, full of white hernal of some seed or possibly the bulb of the onion grass.

Captured by digging out of burrow in sand-hill.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. ~~1,2,3,4,5,6,7,8,9,10.~~ UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

Body 73.

SKULL

NUMBERED No. M. 7.

REMARKS

The mice are seldom seen but tracks are numerous. Probably their greatest enemy they have is the kite-hawk which is extreemly abundant here abouts. Crows doubtless account for an odd one found far from a burrow. In small feeding burrows close to the main larger burrows one can trace where they have been burrowing about looking for food, probably during the day time. These small feed burrows are just below the surface + may be opened by inserting a finger + lightly lifting upwards as they are seldom more than an inch deep + in this loose sand easily laid open. Doubtless numbers are killed by cattle + crushing them in such burrows. Humans sink into them + possibly crush an odd one unlucky enough to be in the road. Foxes may account for numbers when larger food is scarce + doubtless snakes, especially the fast moving species called locally "Whip snake", account for large numbers infact they may be their main diet.

SPECIES

A.M.N.H. NO. 153481

MAMMAL SKIN 8	MAMMAL DEPT.	AUSTRALIAN SECTION.
DICKAREE WATERHOLE — 10 miles south of BIRDSVILLE — S.W. QUEENSLAND. East Margin of Simpson Desert (actually 2 miles inside S. Aust.		COLLECTOR: L. MACMILLAN. COLL. NO. M. 8. DATE 29TH MAY 1940

SPECIES ♂ mouse.

m/m.
TOTAL :- 122.
TAIL :- 51.
H.F.C.U. :- 16
H.E.A.C. :- 9.

SEX CONDITION GONADS.

Trapped ~~SHOT~~ 10 P.M. WGHT. 13·53 gm. ~~SKC.~~

STM. full of mixed foods, grain, bulbous onion grass roots, beef dripping, scraps of damper.

Trapped actually on board the work van which would tend to show they will enter dwelling. BAIT. Whole-meal damper (camp bread).

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP, UNDERS—VENT., LOWER BACK, FLANKS, UPPER BACK, BELLY, NAPE, BREAST, CROWN, NECK, CHEEKS, CHIN

ABR. W. T. W./T.

SKULL

Badly damaged.
MARKED. M. 8.

REMARKS

This specimen has an extremly short tail for the species but this may be an injury.

The tail of this specimen was badly damaged during skinning making the specimen of little or no value.

L. J. Value.

Body 72.

July 16, 1942.

No field notes for Museum Nos. 153455 to 153462, both inclusive.

19/47

SPECIES

MAMMAL SPIRIT 12.	MAMMAL DEPT	AUSTRALIAN SECTION
DICKAREE WATERHOLE — 10 miles south of		COLLECTOR: L. MACMILLAN.
BIRDSVILLE - S.W. QUEENSLAND		COLL. NO. SPIRIT No. 12.
East margin of Simpson Desert.		DATE 29TH MAY 1940

A.M.N.H. NO. 153429-153439

SPECIES (about a dozen) Brush tailed Kangaroo Rats.

SEX CONDITION GONADS.

SHOT WGHT. gm. SKL.

STM. ALL IN LARGE GLASS JAR, LABEL MARKED No. 12.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

These specimens commenced to go bad so were popped into spirit. This was due to a rise in temp. + close weather.

These specimens are in a large size glass "Agee" Jam Jar along with 2 different species of mice + a lizard. Label on jar is marked No. 12.

These specimens were collected by digging out during the day + by shooting by flash light at night, which latter is much the best way of collecting. The sex ratio seems to be very many ♂'s to a single ♀. This lot should be a pretty fair cross section but it is just possible ♀ are more common in small outlier burrows where they breed, though from burrows dug out it is definite they breed freely in the large burrows.

20/47

SPECIES

SPIRIT No. MAMMAL 13 | MAMMAL DEPT.

AUSTRALIAN SECTION

DICKAREE WATERHOLE — 10 miles south of BIRDSVILLE — S.W. QUEENSLAND

East margin of Simpson Desert.

COLLECTOR: L. MACMILLAN.

COLL. No. Spirit No. 13.

DATE 28TH MAY 1940

A.M.N.H. NO. 153415

SPECIES Redish mouse.

SEX CONDITION GONADS.

SHOT WGHT. gm. SKL.

STM. PUT IN LARGE GLASS JAR WITH LABEL MARKED No. 12. ALONG WITH NUMEROUS BRUSH-TAILED KANGAROO-RATS.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

This SPECIMEN IS IN THE JAR BUT HAS NO INDIVIDUAL LABEL.

Collected by digging out large warren. This species seems to be rather rare as apart from these dug out specimens none have been seen at night when hunting by flashlight, nor have they been seen by day. What were though to be their tracks are the tracks of other species I believe. Where they are found the area they frequent seems to be limited. I believe they also feed on the bulbous roots of the onion grass, seeds of the sand hill cane grass + salt bush + other grasses + herbs.

21/47

SPECIES

A.M.N.H. NO. 153417 and 153418

SPIRIT No. 14 | MAMMALS

DICKAREE WATERHOLE – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND

East margin of Simpson Desert.

AUSTRALIAN SECTION

COLLECTOR: L. MACMILLAN.

COLL. No. SPIRIT 14.

DATE 29TH MAY 1940

SPECIES 2 RATS (♂♀)

SEX CONDITION GONADS.

SHOT ♂ 9 P.M. ♀ 11.30 P.M. WGHT. gm. SKL.

No number on individual tags but date & locality.
BOTH ♂ & ♀ in SAME BUNDLE GAUZE.

STM.

Is IN LARGE SPIRIT TANK. No 1.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

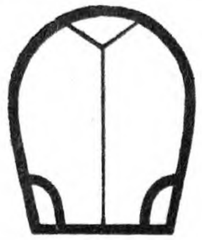
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL



REMARKS

Specimens were going bad so put into alcohol to save them.

The ♂ was shot sitting up on his hind legs (like a squirrel) outside the entrance to his burrow. He seemed as much curious as afraid of the flashlight beam when it was focussed on him.

The ♀ froze in a normal all fours attitude in about ½" depth of water where she had been drinking or crossing to a small island or knoll in the waterhole (depth 4", width of water 8 ft.). when the flash lamp beam caught her.

22/47

SPECIES

A.M.N.H. NO. 153413

S.P. 15. | MAMMALS

DICKAREE WATERHOLE – 10 miles S.W. of BIRDSVILLE – S.W. QUEENSLAND

East margin of Simpson Desert

AUSTRALIAN SECTION

COLLECTOR: L. MACMILLAN.

COLL. NO. SPIRIT. S.P. 15.

DATE 31st MAY 1940

SPECIES FAT-TAILED MOUSE

SEX ♀ (?). CONDITION GONADS.

SHOT 8. P.M. WGHT. 15·4 gm. SKL. body entire in spirit.

STM.

TOTAL:- 145 mm.
TAIL:- 63·5 mm.
H.F.C.U:- 18 mm.
H.E.A.C:- 18 mm.

captured by shooting.

IS IN LARGE GLASS JAR WITH TAG No. 12 (in with the Brush tailed N. Rats)

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

PUT IN SPIRIT AS IT IS THE FIRST SPECIMEN OF THE SPECIES CAPTURED TO DATE.

This specimen was shot by flashlight on a dark moonless night (moonrise 2 A.M.) in green herbage, 18" high, which had sprung up on flats alongside the waterhole after the water from the flooded Diamentiner River had receded. (No rain fell locally, inches fell up towards the Gulf Country + head waters of the D. but the river at Birdsville was 14 miles wide, + more across all its channels + flats.) This herbage is called locally Castor Oil plant, because of its smell when crushed (+ its white trumpet like flowers + spiny seed pod,) + the seeds appear to be a great source of food to many species of the local small mammals such as rats + mice.

This specimen did not seem one atom alarmed + sat up cleaning its face in the flash light beam, making no attempt to escape even on close approach, nor did slight noises made during approaching seem to worry it much. It owned more curious than frightened at the brilliance about it + considered it an good chance for a clean up while the light was good. (though it is a ♀ no mirror or powder puff was noticed but it seemed to do as well in that line as paws would allow) It remained in the beam for fully 5 minutes without alarm.

23/47

B-dy 106.

S. & MCD. PTY. LTD., MELB., NO. 4764.

SPECIES

A.M.N.H. NO. 153485

MAMMAL | SKIN No. 9

DICKAREE WATERHOLE — 10 miles south of BIRDSVILLE — S.W. QUEENSLAND.

East margin of Simpson Desert.

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. M. 9.

DATE 31st MAY 1940

SPECIES ♀ Sandy Rock Brush-tailed Kangaroo-Rat

SEX ♀ CONDITION GONADS. pregnant ?? very very small, looks like 2 young.

SHOT 8 R.M. WGHT. 37·9 (37·9.) gm. SKL. labeled M. 9.

STM. 1/4, chewed up castor oil seeds.

TOTAL:- 244 mm.
TAIL:- 137 mm.
H.F.C.U:- 35 mm.
H.E.A.E.:- 21 mm.

Shot in flashlight beam on moonless night. Apparently feeding on the seeds of the locally named Castor Oil Herb.

MOULT

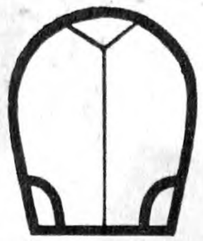
WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP, LOWER BACK, UPPER BACK, NAPE, CROWN, CHEEKS
UNDERS—VENT., FLANKS, BELLY, BREAST, NECK, CHIN

ABR. W. T. W./T.

SKULL



Ticket market M. 9. same date.

REMARKS

Iris black. nose + pads pink flesh.

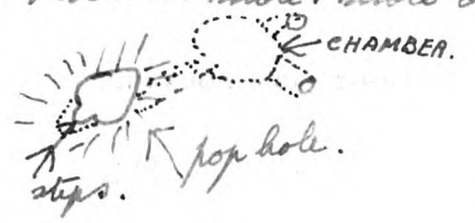
As regards previous notes on this species I find some remarks were incorrect. This species lives in large warrens where numbers of the species live, I believe mostly ♂ + non breeding ♀. Many ♀'s do breed in the main warren but the majority I believe breed in small outlying burrows previously described. Many of both species use these small burrows for daytime feeding on seeds such as the castor oil plant carried in there or on the bulbous roots of grasses. Small feeding burrows without nests are to be found in places where onion grass roots, etc. are plentiful. At the present season all seem to be extremely keen on feeding on the succulent green feed left on the flats which were recently flooded by the Diamentiner River.

When digging out a burrow one finds many burrows choaked by loose sand. I believe in most cases this is purely a place to deposit surplus sand + is a matter of convenience but the species DOES throw up this loose sand behind it when the burrow is being dugout. This form of protection has probably evolved as a method of protection against snakes which are their probable greatest enemies. (One whip snake was captured with its half consumed victim in one burrow which was dug out). Invariably the original or first entrance to a burrow is completely choked with sand + even difficult to

(CONT. OVER LEAF. P.T.O.)

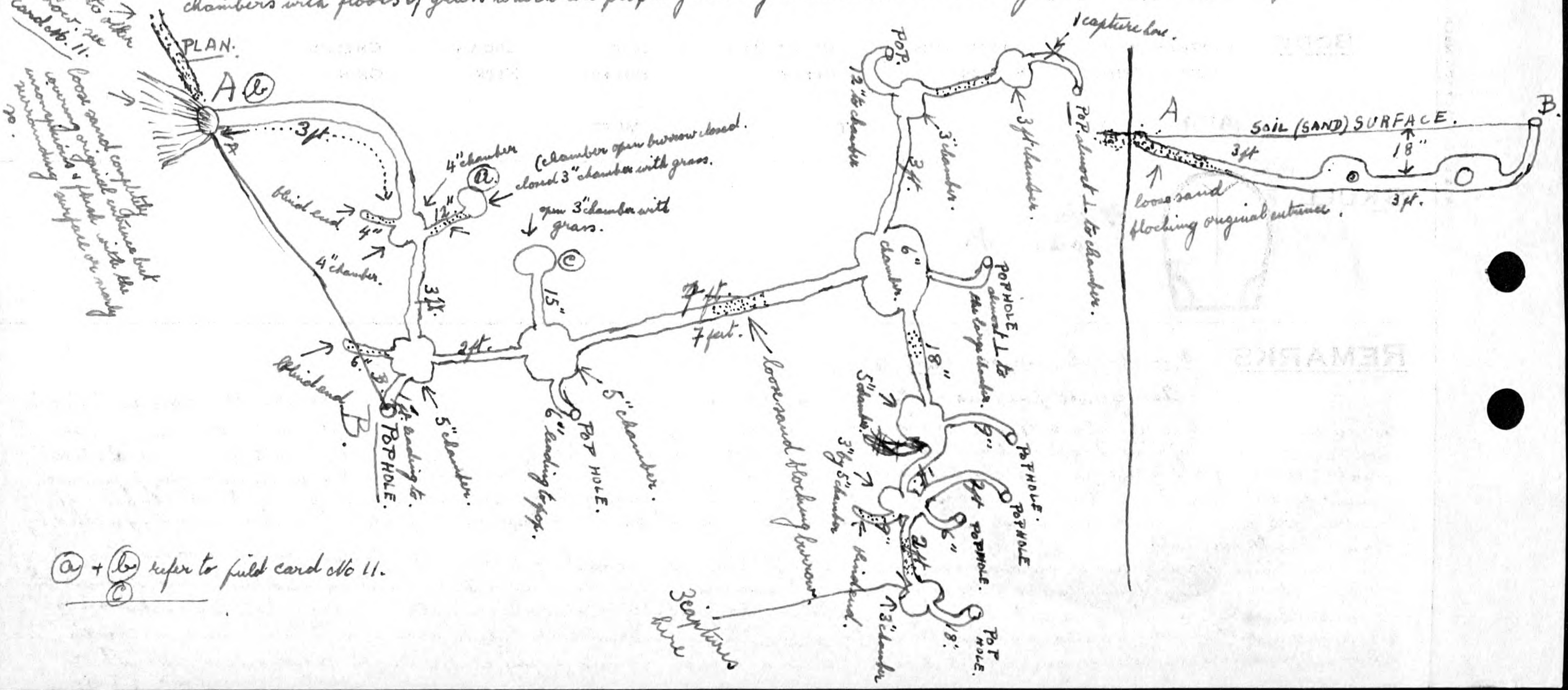
located in most cases but there are always a number of step perpindicular pop holes left open. These pop holes never have any loose sand about them + are I believe dug from the bottom up, it is from these that the loose sand comes which is found in side burrows running + about the original entrance if such is not too far away to transport it there. It is of interest to note that in these perpindicular pop-holes there are small steps like the rungs of a ladder which are doubtless of assistance in climbing out as they offer toe holds. I do not think these toe holes are intentional but are formed ~~in the~~ because of the soft nature of the soil + constant use + after the first ascent or two become more or less permenant + are doubtless found very convenient + become more + more definate with use.

Roughly a plan of such a hole would be thus.



These pop holes almost invariably lead down + after a very short turn into the horizontal lead into a large chamber from which other burrows lead off (not to the surface). Almost invariably a chamber has a pop hole off from it besides the burrows leading to other parts of the warren.

A typical burrow was charted + is here given in plan + elevation as far as this observers ability as an artist allows, but is not to scale. Average depth below the surface was about 18", average burrow about $\frac{3}{4}$" to 1" in diameter. Large chambers average about 3 to 5 inches + are roughly circular or oval with a flat floor covered with dry loose sand. Off the main burrow short burrows 6" or so long lead to 3" circular chambers with floors of grass which are probably nesting chambers + are certainly used as warm resting chambers.



(a) + (b) (c) refer to field card No 11.

SPECIES

A.M.N.H. NO. 153486

MAMMAL Sk. No. 10

DICKAREE WATERHOLE – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND

East Margin of Simpson Desert.

AUSTRALIAN SECTION.

COLLECTOR : L. MACMILLAN.

COLL. No. M. 10.

DATE 31st MAY 1940

SPECIES Adisto Sandy Brush-tailed Kangaroo Rat

TOTAL:- 233 mm.
TAIL:- 142 mm.
H.F.C.U.:- 34 mm.
HEAC.:- 23 mm.

SEX ♂ (apparently IMM). **CONDITION GONADS.** large white, 13 to 14 mm long.

SHOT 9 P.M. **WGHT.** 33·31. gm. **SKL.** ticketed M. 10. Badly shot damaged.

STM. 3/4, seeds, soil, green vegetable matter.

shot by flashlight hunting on moonless night in green herbage locally called Castor oil plant, about 18" or less in height which has sprung up on flats recently flooded by the Diamantina River. (No local rain for some months)

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

Labeled M. 10.

Badly shot damaged.

REMARKS

It is of interest to note that when caught in the beam of the flash lamp this species sneaks or runs along the ground in the normal manner of other rats but when alarmed by a noise or gun shot or it wants to get places in a hurry it hops like a kangaroo + can travel thus at a great speed, taking leaps of a foot with apparent ease. It carries its body in a more balled up or huddled position + more upright ~~than an~~ as regards position of body over hind legs than a kangaroo. It does not appear to be as flat on its feet as a kangaroo but more on their toes.

24/47

Body 95.

25/27

SPECIES

A.M.N.H. NO. 153447

MAMMAL | SPIRIT No. 16

DICKAREE WATERHOLE — 10 miles south of BIRDSVILLE — S.W. QUEENSLAND

East margin of Simpson Desert.

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. SPIRIT 16.

DATE 31st MAY 1940

SPECIES ♀ Brush-tailed Kangaroo Rat.

shot on moonless night by flashlight hunting. Feeding on seeds of castor oil plant.

SEX CONDITION GONADS.

SHOT 9 P.M. WGHT. 33·32 gm. SKL.

STM. IS IN LARGE GLASS JAR WITH TICKET MARKED No. 12.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

Put into alcohol as there were few ♀'s in the last lot spirited.

26/47

Body 105.

SPECIES

A.M.N.H. NO. 153487

MAMMALS | SK. No. 11

DICKAREE WATERHOLE – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND

East margin of Simpson Desert.

AUSTRALIAN SECTION

COLLECTOR: L. MACMILLAN.

COLL. No. M. 11. (eleven).

DATE 1st. JUNE 1940.

SPECIES ♂ Reddish Sandy BRUSH-TAILED KANGAROO-RAT.

TOTAL:- 237 mm.
TAIL:- 137 mm
HFCU:- 34.5 mm
HEAC:- 25 mm.

SEX ♂ (normally imm) CONDITION GONADS. There is some doubt about the sex of this specimen, what ever it is it appear to have very small gonads. as a thing like a penis could be obtruded. It was classed as a ♂.

DUG OUT OF SMALL BURROW. ~~SHOT~~ 2PM – 5P.M. WGHT. 34·57 gm. SKL.

STM. 1/1, chewed seeds, probably grass seeds, sand.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

Ticketed Number M. 11.

REMARKS

During this afternoon only small outlier burrows were dug out + it was found that there was a marked preponderance of ♀ over ♂! (6♀, 2♂) + both these ♂ may be sub adult or imm.

From general observation during digging out I place the life history of the burrow as follows. ~~Referring~~ back to the rough chart on field card for specimen No. 9 (31st. May).

From the point marked (b) on the plan a long single direct line burrow full of loose sand led ~~for~~ 12 ft to another even larger burrow which when dug out yeilded not a single specimen. This other burrow I take to be the real parent burrow of the escample given + its original entrances were fully 24 ft from the original entrance to the burrow given as an example + charted. To me it appears as if the ~~ft~~ charted burrow started as a small outlying breeding burrow of the real parent burrow + ~~started~~ its original first entrance was at (b). + the nest or breeding chamber was ~~that~~ at (a). This burrow was extended + enlarged + probably (c) ~~became the~~ later become the nest or breeding burrow. This burrow eventually grew sufficiently large to become in its turn a parent burrow + the ♀'s

(cont over leaf. P.T.O.)

captured on this date (1st June) were in turn establishing their outlyer burrows, which providing ~~they~~ the parents survive would in turn become parent burrows with their outlyer breeding burrows.

At some period while the actual parent burrow was still in use (not charted) + the charted burrow was still comparatively small but enlarging the long 12 ft. direct connecting burrow ~~as~~ was made. This later became merely a convenient place for storing the loose sand dug out in enlarging the charted burrow. Just how long a burrow takes to reach the size of the one charted is difficult to state with any degree of accuracy but from observations I do not think it would be less than 2 years + possibly not more than 3 years. This would seem to point to a ~~long~~ fast rate of breeding. ~~It~~ Generally speaking any burrow with about 40 ft of more or less direct tunnels can be classed as an established parent burrow, (few are more than 40 to 45 ft, none over 50 ft have been seen), a burrow up to 20 ~~ft~~ would be probably a ~~first~~ first year breeding burrow enlarged for a second or ~~more latter~~ numbered brood. The short single style is a first brood burrow. (Actually I do not know if the species breeds more than once a year so the term brood + year is very loosely applied.) I feel sure they have a definate breeding season even if more than 1 brood per year is raised, otherwise it would be difficult to account for the entire ~~lack~~ absence of nestlings in all the burrows (a large number) dug out by us at this season. Also considering the wonderfully good season which the floods have caused one would expect to find the species breeding like rabbits.

N. B. A light shower of rain fell during the early part of the night 31st May - 1st June which wiped out all tracks in the sand (only a matter of a few points fell, the first rain actually to fall here since late last year, roughly 5 months) + during the day a close check up on tracks was made. Mammals are not as ~~plentiful~~ as was at first thought to be the case from the tracks in the sand. In this desert country tracks remain plainly visable + apparently fresh for long periods + it is the accumulation of tracks which make it appear as if animal life was abundant. At the present time rats (collected) appear to be very abundant about the flats near the waterhole but scarce out on the sandhills, they were evidentally very plentiful before the flood as thousands of drowned carcasses may be seen about the country. What appears to be another species of rat or small bandicoot is present but rare in the sandhills (not seen or collected). Kangaroo Rats (collected) are abundant on the sandy flats above water mark + about the bases of the sand hills + on flats between sand hills but seem to be rare on the sandhills themselves. Mice (collected) are not common anywhere except in certain restricted areas close about their warrens + these warrens are generally pretty far apart. Fat tailed mice (1 collected) are not ~~so~~ very common but seem to be evenly but thinly distributed over the whole area but to a less degree on the actual sandhills, but more so on the flats at the immediate foot of the sandhills + thinning out slightly further out across the flats, but they appear to be nowhere plentiful. They seem to be definately wanderers having no fixed warrens or burrows but ~~establish~~ dig feeding burrows here + there about patches of onion grass, possibly slightly enlarging such a burrow for breeding, remaining to rear a brood + then move on. They do not appear to be breeding at present but to be roving the country. Rabbits are fairly numerous about the waterhole. Foxes are very plentiful about the waterhole + adjacent sand hills. Dingoes are very numerous about the water hole + far out into the sand hills seem to be still fairly pentiful. No other mammals or tracks have been seen.

27/42

SPECIES

A.M.N.H. NO. 153448

MAMMAL DEPT. SPIRIT No. 17
DICKAREE WATERHOLE – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND.
East margin of Simpson Desert.

AUSTRALIAN SECTION
COLLECTOR: L. MACMILLAN.
COLL. NO. SPIRIT 17.
DATE 1st JUNE 1940.

SPECIES ♀ MOUSE.

TOTAL:
TAIL:-
H.F.C.U:-
H.E.A.C.

SEX CONDITION GONADS.

DUG OUT OF BURROW.
~~SHOT~~ 2 to 5 P.M. WGHT. 12·85 gm. SKL.

STM.

IS IN LARGE GLASS JAR WITH TICKET No. 12. along with 2 numerous kangaroo rats.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

Tail damaged so put specimen in alcohol.

28/47

Body 100.

SPECIES

A.M.N.H. NO. 153488

MAMMALS. | SKIN NO. 12.

DICKAREE WATERHOLE – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND

East margin of Simpson Desert.

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. NO. M.12.

DATE 1st JUNE 1940.

SPECIES ♂ Reddish sandy BRUSH-TAILED KANGAROO RAT.

TOTAL:- 233 mm.
TAIL:- 139 mm.
HFOT:- 35·5 mm
HEAR:- 24 mm.

SEX ♂ CONDITION GONADS. testis very small, white.

CAPTURED BY DIGGING.

~~SHOT~~ 2.45 P.M. WGHT. 31·98 gm. SKL.

STM. 1/4, sand + what appears to be chewed up roots + seeds.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

Ticket marked. M.12.

REMARKS

29/47

Body/Dr.

SPECIES

A.M.N.H. NO. 153489

MAMMALS | SKIN No. 13

DICKAREE WATERHOLE – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND
East margin of Simpson Desert.

AUSTRALIAN SECTION
COLLECTOR: L. MACMILLAN.
COLL. No. M. ~~12~~. 13.
DATE 1ST JUNE 1940

SPECIES ♀ redish sandy BRUSH-TAILED KANGAROO RAT.

TOTAL:- 238 mm.
TAIL:- 136 mm.
H.F.C.U.:- 32 mm.
H.E.A.C.:- 24 mm.

SEX ♀ CONDITION GONADS. not pregnant, but appears to have recently bred.

DUG OUT ~~SHOT~~ 2 to 5 P.M. WGHT. 35·95 gm. SKL.

STM. 1/1, full of chewed grass + seeds.

MOULT

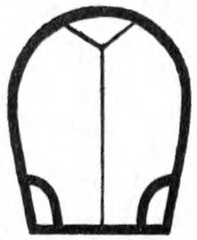
WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP, LOWER BACK, UPPER BACK, NAPE, CROWN, CHEEKS
UNDERS—VENT., FLANKS, BELLY, BREAST, NECK, CHIN

ABR. W. T. W./T.

SKULL



Ticket renumbered M.13.

REMARKS

somewhat moth eaten on left side.

32/47

SPECIES

A.M.N.H. NO. 153480

MAMMALS | SKIN 14

DICKAREE WATERHOLE – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND
East margin of Simpson Desert

AUSTRALIAN SECTION
COLLECTOR: L. MACMILLAN.
COLL. No. M. 14.
DATE 1ST JUNE 1940

SPECIES reddish brown FIELD-MOUSE

TOTAL:- 164 mm
TAIL:- 82 mm.
H.F.C.U:- 15 mm
H.E.A.C:- 10 mm.

SEX ♀ CONDITION GONADS. pregnant, with six young about 12 mm. long, eyes + fur primed + distinct. 4 on one side left, 2 on right side.

DUG OUT OF BURROW
~~SHOT~~ 2–5 P.M. WGHT. 20·11. gm. SKL.

STM. ¼ full of soft white hernal of a species of onion grass or nut grass, probably the latter.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY

UPPERS—RUMP	LOWER BACK	UPPER BACK	NAPE	CROWN	CHEEKS
UNDERS—VENT.	FLANKS	BELLY	BREAST	NECK	CHIN

ABR. W. T. W./T.

SKULL

Ticket numbered M. 14.

REMARKS This species live in large warrens but have small feeding burrows close about where they dig for the bulbous roots of grasses.

SPECIES

A.M.N.H. NO.

SPECIES

SEX

SHOT

STAT.

MOUNT

WING

TAIL

BODY

ASST.

SKULL

REMARKS

31/47

Body. 81.

S. & MCD. PTY. LTD., MELB., NO. 4764.

SPECIES

A.M.N.H. NO. 153479

MAMMAL DEPT. | SKIN NO. 15

DICKAREE WATERHOLE – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND. East margin of Simpson Desert.

AUSTRALIAN SECTION

COLLECTOR : L. MACMILLAN.

COLL. No. M. 15

DATE 1ST. JUNE 1940

SPECIES ♂ rudish FIELD-MOUSE

TOTAL:- 168·5 mm
TAIL:- 84 mm.
H.F.C.U.:- 17·5 mm.
H.E.A.C.:- 15 mm.

SEX ♂ CONDITION GONADS. testes, large, white. (testes are internal).

DUG OUT OF BURROW.

~~SHOT~~ 2-5 P.M. WGHT. 19·0. gm. SKL.

STM. 1/1, white kernal of sweet grass.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP, LOWER BACK, UPPER BACK, NAPE, CROWN, CHEEKS

UNDERS—VENT., FLANKS, BELLY, BREAST, NECK, CHIN

ABR. W. T. W./T.

SKULL

Ticket numbered M. 15.

REMARKS

32/42

SPECIES

A.M.N.H. NO. 153478

MAMMAL DEPT | SKIN NO. 16

DICKAREE WATERHOLE – 10 miles south of BIRDSVILLE – S.W. QUEENSLAND. East margin of Simpson Desert.

AUSTRALIAN SECTION.
COLLECTOR: L. MACMILLAN.
COLL. NO. M. 16.
DATE 1ST JUNE 1940

SPECIES Pradish FIELD MOUSE

TOTAL:- 150 mm
TAIL:- 80 mm.
H.F.C.U.:- 17·5 mm.
H.E.A.C.:- 10 mm.

SEX ♂ CONDITION GONADS. large, white.

DUG OUT OF BURROW.
~~SHOT~~ 2-5 P.M. WGHT. 14·12 gm. SKL.

STM. ½, white kernal of nut grass, a bulb like root of a species of onion grass or nut grass.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

Ticket marked M. 16.

REMARKS

33/47

SPECIES

A.M.N.H. No. 153414

MAMMAL DEPT. | SPIRIT | Australian section,

BIRDSVILLE, S.W. Queensland.
Sandhills, stony flats, salt pans, overflow flats of Diamentiner River.

COLLECTOR: L. MACMILLAN.
COLL. No. SPIRIT No. 17A.
DATE 7TH JUNE 1940.

SPECIES NYCTINOMUS AUSTRALIS. Leaf eared Bat.

SEX CONDITION GONADS.

SHOT 9A.M. WGHT. gm. SKL.

STM.

TOTAL:-
TAIL:-
H.F.R.U.:-
H.E.A.C.:-

PUT INTO LARGE GLASS JAR WITH TICKET MARKED No. 12.
Along with numerous Kangaroo-rats, mice, etc.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP, LOWER BACK, UPPER BACK, NAPE, CROWN, CHEEKS
UNDERS—VENT., FLANKS, BELLY, BREAST, NECK, CHIN

ABR. W. T. W./T.

SKULL

REMARKS

This specimen was captured right in the small village (1 pub, 1 store, 1000 Goats) of Birdsville. It had I believe been hit by the blades of the fan of a wind charging plant (electrical) during the night + had fallen to the foot of the mill stand. A crow was seen attacking it shortly after ~~daybreak~~ sun up + was secured by the collector. Being the first specimen captured it was put in alcohol instead of being skinned. The species was entirely unknown to white inhabitants of the "ville" but abos (aust. natives) have seen odd ones at wide intervals. It apparently is permanently present in the area but is scarce, probably because of lack of suitable resting places in this barren land, only in trees along the rivers + a few small limestone caves would bats find suitable resting places, probably the reason for its presence at Birdsville is that metropolises' nearness to the large trees of the Diamentiner which has larger Coolibah trees with hollows.

34/47

SPECIES

MAMMALS | SPIRIT No. 18

ROSEBERTH – 18 miles north + west of BIRDSVILLE – S.W. Queensland

Open stony downs + dry creeks (sandy)

AUSTRALIAN SECTION.

COLLECTOR: L. MACMILLAN.

COLL. No. SPIRIT No. 18.

DATE 12TH JUNE 1940.

A.M.N.H. NO. 153420

SPECIES ♀ RAT.

SEX ♀ CONDITION GONADS.

SHOT WGHT. gm. SKL.

STM.

IN LARGE TANK MARKED No. 1.
along with Rat No. 18A.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY

UPPERS—RUMP	LOWER BACK	UPPER BACK	NAPE	CROWN	CHEEKS
UNDERS—VENT.	FLANKS	BELLY	BREAST	NECK	CHIN

ABR. W. T. W./T.

SKULL

REMARKS

Appears similar to specimens collected at Dickane Waterhole, 10 miles south of Birdsville.

35/47

SPECIES

A.M.N.H. NO. 153421

MAMMAL DEPT. | SPIRIT

Roseberth. — 18 miles north + west of
BIRDSVILLE — S.W. Queensland.
Open stony downs + dry sandy breaks

Australian section
COLLECTOR: L. MACMILLAN.
COLL. NO. SPIRIT No. 18. A.
DATE 13TH JUNE 1940.

SPECIES ♂ RAT.

SEX CONDITION GONADS.

Dug out of burrow.

SHOT 11 A.M. WGHT. 183·4. gm. SKL.

STM.

PUT IN LARGE SPIRIT CAN MARKED No. 1.
along with RAT. No. 18.

TOTAL:
TAIL:-
H.F.C.U:
H.E.A.C.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

34/42

SPECIES

A.M.N.H. NO. 153449–153454

MAMMAL DEPT. | SPIRIT

Roseberth – 18 miles north + west of BIRDSVILLE – S.W. Queensland. Open stony downs + dry sandy creeks.

Australian section

COLLECTOR: L. MACMILLAN.

COLL. NO. SPIRIT No. 19.

DATE 15TH JUNE 1940

SPECIES Mirsel. Kangaroo Rats.

SEX Digging out burrow. 6 specimens

CONDITION GONADS.

~~SHOT~~ 9 AM–3 P.M. WGHT. 217·0. gm. SKL.

STM.

PUT IN CHEESE CLOTH BUNDLE IN LARGE SPIRIT CAN MARKED No. 1.

No details were taken as these specimens came in with a flood of ornithological specimens, so these were put into alcohol.

These kangaroo-rats appear at first glance to be different to those at Dickane, the colour being different + ears appear longer.

TOTAL.
TAIL:
H.F.C.U.
H.E.A.C.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

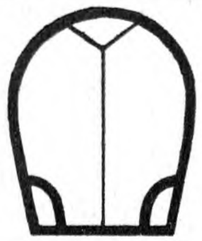
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP, LOWER BACK, UPPER BACK, NAPE, CROWN, CHEEKS

UNDERS—VENT., FLANKS, BELLY, BREAST, NECK, CHIN

ABR. W. T. W./T.

SKULL



REMARKS

SPECIES

A.M.N.H. NO. 153463 - 153468

MAMMAL DEPT. | SPIRIT

Roseberth - 18 miles north west of
BIRDSVILLE - S. W. Queensland
Open stony downs & dry sandy creeks

Australian Section
COLLECTOR: L. MACMILLAN.
COLL. NO. SPIRIT No. 20
DATE 19TH June 1940

SPECIES Mixed. 5 FIELD-MICE

SEX CONDITION GONADS.
Dug out of burrow of 5 specimens.
SHOT 12AM to 5P.M. WGHT. 72·4 gm. SKL.

STM.

These mice appear similar to those at Deckane but are being put in spirit in case they are different.
PUT IN LARGE SPIRIT TANK No. 1.

TOTAL	
TAIL	
H.F.C.U.	
H.E.A.C.	

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY
UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

38/87

SPECIES

A.M.N.H. No. 153473 and 153474

MAMMALS DEPT. SPIRIT

Roseberth - 18 miles north & west of BIRDSVILLE - S.W. Queensland.

Open stony downs & dry sandy creeks.

Australian Section

COLLECTOR: L. MACMILLAN.

COLL. No. SPIRIT No. 21.

DATE 20TH June 1940

SPECIES 2 FIELD MICE

SEX CONDITION GONADS.

TRAPPED in camp with traps baited with damper, during night of 20th

SHOT WGHT. 2 specimens. 26·2 gm. SKL.

These were captured in the van which would point to the species inhabiting human dwellings when such are available.

STM. PUT IN LARGE SPIRIT TANK No. 1.

TOTAL.
TAIL
H.F.C.U.
H.E.A.C.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS

UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

39/47

SPECIES

A.M.N.H. NO. 153440-153446

MAMMAL DEPT. | SPIRIT

Roseberth - 18 miles north + west of
BIRDSVILLE - S.W. Queensland.
Open stony downs + dry sandy creeks

Australian section
COLLECTOR: L. MACMILLAN.
COLL. NO. SPIRIT No. 21A.
DATE 20TH JUNE 1940.

SPECIES 7 KANGAROO-RATS

SEX CONDITION GONADS.
Dug out of burrows. 7 specimens
SHOT 8A.M-5P.M. WGHT. 268·25 gm. SKL.

PUT IN LARGE SPIRIT TANK No. 1.

STM.

TOTAL.
TAIL.
H.F.C.U.
H.E.A.C.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

SPECIES

A.M.N.H. NO. 153412

MAMMAL DEPT. | SPIRIT No. 22

ROSEBERTH – 18 miles north + west of BIRDSVILLE – S.W. Queensland. Mountainy downs + dry sandy creeks

AUSTRALIAN SECTION

COLLECTOR: L. MACMILLAN.

COLL. NO. SP. 22.

DATE 21st JUNE 1940

SPECIES CHOEROPUS CASTANOTIS (?)

? Pig footed Bandicoot. ? spiny ant eater (unlikely).

SEX ♀ CAPTURED BY DIGGING.

CONDITION GONADS.

SHOT **WGHT.** 751·9 gm. **SKL.**

STM.

measurements approx. given as guide only. Can be inked in later by yourself.

TOTAL. 495 mm
TAIL. 210 mm.
H.F.C.V. 93 mm
H.E.A.C. 101 mm

Is IN LARGE SPIRIT TANK MARKED No. 1.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP, LOWER BACK, UPPER BACK, NAPE, CROWN, CHEEKS
UNDERS—VENT., FLANKS, BELLY, BREAST, NECK, CHIN

ABR. W. T. W./T.

SKULL

REMARKS

This specimen being the first of its kind captured is being put in alcohol.

This specimen is reported to be becoming extremely rare here about but is said by natives to be still fairly common in one small area about 100 miles east of Birdsville (Dwrie). In case it is not collected at Dwrie as we had found its tracks here we put in a lot of time after it + this was the only capture in many many burrows dug out. It is an unknown animal to me + a brief description will be given. An abo. tells me it was long ago present at Windorah but has been long extinct there. Abo's say it lives on grubs it digs out of the ground, + on ants + insects, but such information may be open to doubt.

a Brief Description. General colour greyish white or silver grey with a distinct jet black band on the central ⅓ of the tail. Nose long + pointed, Ears long like a rabbit. Feet with powerful claws. Are of peculiar formation also. Tail has an upper side crest of hackle. Tongue is long + elastic. Fur beautifully soft.

SPECIES

A.M.N.H. NO.

SPECIES

SEX

SHOT

STM.

MOUT

WING

TAIL

BODY

ADR

SKULL

REMARKS

41/47

SPECIES

A.M.N.H. NO. 153490

MAMMALS | SKIN

Roseberth – 18 miles north & west of BIRDSVILLE – S. W. Queensland. Open stony downs & dry sandy creeks.

Australian section

COLLECTOR: L. MACMILLAN.

COLL. NO. M. 17.

DATE 22ND June 1940.

SPECIES Greyish Kangaroo-Rat.

SEX ♀ CONDITION GONADS. non gravid uterus. Possibly an imm. as it does not appear to have bred yet.

DUG OUT

~~SHOT~~ 5 P.M. WGHT. 29·2 gm. SKL. marked M. 17.

STM. ¼ full of chewed seeds & vegetable matter.

TOTAL	232 MM
TAIL	136
H.F.C.U.	36
H.E.A.C.	25.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY

UPPERS—RUMP	LOWER BACK	UPPER BACK	NAPE	CROWN	CHEEKS
UNDERS—VENT.	FLANKS	BELLY	BREAST	NECK	CHIN

ABR. W. T. W./T.

SKULL

REMARKS

I believe though a different colour from those found at Dickaree Water hole they are the same species with a colouration more suited to their surroundings. Roseberth is a limestone outcrop country with a consequent whitening of the soil, especially the sand, & thus local species have developed a greyer colour. Burrows & habits seem very similar to Dickaree. In case they are a different race a number will be put in alcohol.

They are fairly numerous in the dry sand blows, dry sandy channels & dry creeks of the area. They do not seem common out amongst the stones of the stony areas though some have been seen out there at night but never in the day. The sandy places which are really gaps in the surface stone are where they seem to be at home.

Body, 99.

A7/47

SPECIES

A.M.N.H. NO. 153491

MAMMAL DEPT. | SKIN

Roseberth - 18 miles north & west of BIRDSVILLE - S. W. Queensland.
Open stony downs & dry sandy creeks.

Australian Section.
COLLECTOR: L. MACMILLAN.
COLL. NO. M. 18.
DATE 22nd June 1940.

SPECIES ♂ Kangaroo Rat.

SEX ♂ CONDITION GONADS. large & white

Dug out of burrow.

SHOT 4-6 P.M. WGHT. 33·82 gm. SKL. tied M. 18.

STM. 1/4, chewed up seeds.

TOTAL:- 238 mm.
TAIL:- 138 mm.
H.F.C.U:- 35 mm
H.E.A.G:- 28 mm.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

Body 106.

SKULL

Eye very dark, black or brown Nose. pink flesh. Pads flesh pink.
The scrotum of this specimen is soft & pink, not hard & black as were the scrotums of specimens collected at Dickens Waterhole.
Later What looked like a scrotum may be a ruptured teste.

REMARKS

43/47

SPECIES

A.M.N.H. NO. 153492

MAMMALS DEPT. | SKIN

Roseberth – 18 miles north + west of
BIRDSVILLE – S. W. Queensland
Open stony downs + dry sandy creeks.

Australian Section
COLLECTOR: L. MACMILLAN.
COLL. No. M. 19.
DATE 22ND JUNE 1940.

SPECIES ♀ KANGAROO-RAT.

SEX ♀ CONDITION GONADS. appears to be in extremely early pregnancy, as very small foetus being present, almost infinitesimal.

Dug out of burrow.
~~SHOT~~ 3-6 P.M. WGHT. 34·73 gm. SKL. ticketed No. 19.

STM. ½, green vegetable matter.

TOTAL. 255 mm
TAIL 151. mm
H.F.C.U. 38 mm.
H.E.A.C. 30 mm.

Body 101.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

REMARKS

44/47

SPECIES

A.M.N.H. NO. 153493

MAMMAL DEPT. | SKIN

Roseberth - 18 miles north + west of
BIRDSVILLE - S.W. Queensland
Open stony downs + dry sandy creeks.

Australian section.
COLLECTOR: L. MACMILLAN.
COLL. NO. M. 20
DATE 22ND JUNE 1940.

SPECIES ♂ Kangaroo Rat.

SEX ♂ CONDITION GONADS. testes large + white, scrotum pink flesh.

Dug out of burrow.

SHOT 3-6 P.M. WGHT. 34·86 gm. SKL. numbered M. 20.

STM. +, chewed up seeds + vegetable matter.

TOTAL 253. m/m.
TAIL 149
H.F.C.U. ~~28~~ 35 mm.
H.E.AC. 28

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY

UPPERS—RUMP	LOWER BACK	UPPER BACK	NAPE	CROWN	CHEEKS
UNDERS—VENT.	FLANKS	BELLY	BREAST	NECK	CHIN

ABR. W. T. W./T.

SKULL

REMARKS

After closer examination + measuring it appears as if the kangaroo-rats of this area are at least different sub-sp. to those at Dickare. The colouration is different, they run slightly larger, have definatily longer ears, + though not at all fat as were those at Dickarie weigh more. Also the scrotum of the species at Dickaree was invariably black tipped + hard flesh, where as the scrotum of these specimens are invariably pink flesh. It would be well to look closer into the spirit material, ample of which will be supplied. Also these specimens appear to have longer whiskers.

44/94

SPECIES

A.M.N.H. NO. 153494

MAMMALS DEPT. SKIN

Rosebank – 18 miles north & west of
BIRDSVILLE – S.W. Queensland
Open stony downs & dry sandy creeks

Australian Section.
COLLECTOR: L. MACMILLAN.
COLL. NO. M. 21.
DATE 22nd June 1940

SPECIES ♂ Kangaroo-Rat.

SEX ♂ CONDITION GONADS. testes very large + white, scrotum pink flesh tip.

Dug out of burrow.

SHOT 3-6 P.M. WGHT. 37·78 gm. SKL. numbered M. 21.

STM. 3/4, chewed grass seeds.

Fattest specimen seen in this area.

TOTAL :- 252 m/m.
TAIL :- 152.
H.F.C.U. :- 37.
H.E.G.C. :- 28.

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.
L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.
L. 1,2,3,4,5,6,7,8,9,10.

BODY UPPERS—RUMP LOWER BACK UPPER BACK NAPE CROWN CHEEKS
UNDERS—VENT. FLANKS BELLY BREAST NECK CHIN

ABR. W. T. W./T.

SKULL

M. 21.

REMARKS

SPECIES

A.M.N.H. NO. 153416

MAMMAL DEPT | SPIRIT | Australian section.

COLLECTOR: L. MACMILLAN.

COLL. No. SPIRIT No. 23.

BIRDSVILLE – S.W. Queensland

Stony plains, sand hills, 1 mile from River

DATE 27th June 1940.

SPECIES *Nyctinomus australis.* ♀ Leaf eared (white sided) Bat.

SEX CONDITION GONADS.

SHOT 7.30 AM. sunup. WGHT. gm. SKL.

STM.

PUT IN LARGE SPIRIT TANK No. 1.

TOT.

TL.

H.F.C.U.

H.E.R.C.

[redacted]

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY

UPPERS—RUMP	LOWER BACK	UPPER BACK	NAPE	CROWN	CHEEKS
UNDERS—VENT.	FLANKS	BELLY	BREAST	NECK	CHIN

ABR. W. T. W./T.

SKULL

REMARKS

This specimen was again collected at the foot of the mill stand carrying the fan of the electrical wind charger, it having be ~~stuck~~ struck by the whirling blades of the fan. Pushed up at sun up.

42/42

SPECIES

MAMMAL DEPT. | SPIRIT | Australian section.

COLLECTOR: L. MACMILLAN.

COLL. No. SPIRIT No. 24.

BIRDSVILLE - S.W. Queensland.

True desert sandhill habitat.

DATE 3rd July 1940.

A.M.N.H. NO. 153427, 153428

SPECIES RAT.

Believed to be different to other specimens collected to date. Appears darker + is a greyish white not brownish rat.

SEX

CONDITION GONADS.

SHOT

WGHT. A. 81·75. B. 67·35 gm.

SKL.

STM.

PUT TOGETHER IN LARGE SPIRIT TANK No 1.

TOTAL.

TAIL.

H.F.C.U.

H.E.A.C.

[redacted]

MOULT

WING R. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

L. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25. SEC. UP COVS. UND. COVS.

TAIL R. 1,2,3,4,5,6,7,8,9,10. UP COVS. UN COVS.

L. 1,2,3,4,5,6,7,8,9,10.

BODY

UPPERS—RUMP	LOWER BACK	UPPER BACK	NAPE	CROWN	CHEEKS
UNDERS—VENT.	FLANKS	BELLY	BREAST	NECK	CHIN

ABR. W. T. W./T.

SKULL

REMARKS

2 rats captured by Kite Hawks but dropped by them on approached by collector.