

~~MEASUREMENTS~~

~~REMARKS~~

Roy Chapman Andrews

1916-1922

Number	Sex	Name	Locality
1 to 47		Bats	Yenping, Fukien Prov.
48		Leopard	
48		Leopard	Futsing, "
43093		Civet <i>Viverra zibetha</i>	"
49			"
510	♂	Muntjac	Yenping "
43129	♂	<i>Herpestes curva</i>	" "
511	♂	" <i>curva</i>	" "
43130	♂	" <i>curva</i>	" "
52	♂	" <i>curva</i>	" "
53	-	Cat	" "
54	-	Seal	Hsatanq Is. (Formosa Channel)
55	-	Manis	Futsing
56	♂	Muntjac	Yenping
57	♂ juv.	Crab Eating Mongoose (?)	Futsing
58		Cat	"
59		"	"
60		Pencil Cat	"
61	♂ ad.	Muntjac	"
62	♂	"	"
63	♀	"	"
64	♀ juv.	"	"
65	♀	Raccoon Dog	"
66	♀	"	"
67	♂	"Baby"	"
68	♀	<i>Putorius sibirica</i> (?)	"
69	♂ juv.	"	"
70	♀	Water Rat	"
71	♂	Spiny "	"
72	♀	" "	"
73	♂	Sciurus	"
74	♀	Crab-Eating Mongoose?	"

Date	Measurements	Remarks
June 16, 18		All these bats taken in a single case - most had young or were pregnant
1912	-	skull only (purchased)
1912	-	" " " "
Jan. 1916	-	skull in skin "
Mar. "	-	" " " "
May "	-	" " " "
Spring "	-	skin only (purchased)
1914	-	" " " "
Oct 2, 1915	-	skull in skin "
June 15, 1916	-	skin & skull (in bamboo ravine)
July 1, "	-	" " " found beside road.
" 6 "	-	skin only (purchased)
" "	-	" " " "
" "	-	" " " "
" 7 "	-	skin and skull
" 8 "	-	" " "
" " "	-	skin only
" " "	-	" "
" 7 "	-	skin & skeleton (nursing) (claws in burrows)
" " "	-	" and skull " "
" 8 "	-	" " " Killed by a tiger
" 10 "	440 - 115 - 45	" " " " " " dog 79
" " "	370 - 105 - 50	" " " " " " " 79
" 10 "	295 - 140 - 30	" " " Caught in rice field.
" 12 "	335 - 160 - 27	" " " "
" " "	-	" " " "
" " "	420 - 160 - 52	" " " "
" 13 "	480 - 140 - 60	" " skeleton

Number	Sex	Name	Locality
75	♀ juv	Bat	Futsing
76	♀ ad	"	"
77	♂ juv	"	"
78	♂ juv	"	"
79	♂ juv	"	"
80	♂ juv	"	"
81	♂ juv	"	"
82	-	"	"
83	-	"	"
84	♂	Crab-Eating Mongoose	"
85	♀ juv	Spiny Rat	"
86	♂	" "	"
87	♂	" "	"
88	♀	" "	"
89	♀	" "	"
90	♀ juv	" "	"
91	♂ juv	" "	"
92	♀	Shrew	"
93	♀	Spiny Rat	"
94	♂	" "	"
95	♀	" "	"
96	♀	" "	"
97	♂	" "	"
98	♀	" "	"
99	♀	" "	"
100	♂	" "	"
101	♀	Bat	"
102	♀	"	"
103	♀	Spiny Rat	Futsing
104	♀	Myotis (subulata)	"

Date	Measurements	Remarks
July 18, 1916	-	skin only
" "	-	" "
" "	-	" "
" "	-	" "
" "	-	" "
" "	-	" "
" "	-	skin & skull
" "	-	" " "
" 20	520 - 150 - 65	" " "
" "	300 - 160 - 29	" " "
" "	308 - 167 - 29	" " "
" "	330 = 187 - 30	" " "
" "	325 - 175 - 27	skin only
" "	295 - 160 - 29	skin & skull
" "	280 - 150 - 30	" " "
" "	260 - 145 - 28	" " "
" 21	-	" " "
" "	275 - 155 - 27	" " "
" "	360 - 210 - 30	" "
" "	325 - 185 - 28	" "
" "	295 - 165 - 29	" "
" "	300 - 160 - 28	skin only
" 22	B.L. 115 - 155 - 27 - 18 ^{Ear}	" + skull { Hereafter L = body length only - E. = Ear
" "	105 - 153 - 27 - 18	" " "
" "	135 - 175 - 29 - 19	" " "
" "	50 - 38 - 8 - 11	skin & skull
" 3	48 - 34 - 8 - 10	" " "
July 22		found in
" "		"

skulls eaten by mud

Hereafter L = body length only - E. = Ear

Number	Sex	Name	Locality
105	♀	Myotis	Tatsing
106	♂	"	"
107	"	"	"
108	"	Spring Rat	"
109	"	"	"
110	♀	"	"
111	♂	"	"
112	"	"	"
3	♀	Scotophilus	Lougton
4	"	Myotis	Log Sich
5	"	"	"
6	♂	Spring rat	"
7	"	"	"
8	"	Epimys	"
9	♀	Myotis	"
120	"	"	"
1	"	"	"
2	"	Spring Rat	"
3	"	Sorex	"
4	♂	Water Spring rat	"
5	♀	Spring "	"
6	♀	Cervulus muntjac	"
7	"	Giant Rat	"
8	♂	Epimys	"
9	"	" norvegicus	"
130	♀	Spring rat	"
1	♂	"	"
2	"	"	"
3	"	"	"
4	"	"	"
5	"	"	"

Date	Measurements	Remarks
July 22		formalin
"		"
"		"
23	160-200-29-20	
"	142-190-30-19	
24	135-175-29-18	
"	136-171-30-20	
20		
27	82-45-12-18	
	52-38-8-13	
	48-36-8-12	
	140-190-29-20	
	122-161-29-18	
	130-125+ 34-19	
"	7 formalin	
"	"	
"	"	
23	134-165-26-19	4 embryos
24	75-51-13	
25	150-155-30-18	
26	135-178-30-20	
25	820-160-238-83	Stomach: leaves only of red Wisteria. Nursing
28	260-322-52-32	2 embryos
"	165-165+ 35-23	
"	140-150-33-20	Caught in monastery
"	130-155-27-18	
"	145-190-27-18	
"		
"	150-190-29-19	
"	135-168-27-19	
"	142-185-29.5-18	
"	140-190-29-19	

Ms

136 ♂ Spiny rat
 7 ♀ " "
 8 ♂ Scotophilus
 9 ♀ " "
 40 " " "
 1 " " "
 2 ♂ Scotophilus
 3 ♀ " "
 4 " " "
 5 " " "
 6 " " "
 7 ♂ Spiny rat
 8 ♀ " "
 9 " " "
 50 ♀ Sciurus
 1 ♂ Spiny rat
 2 " Scotaeus
 3 " Eptesicus
 4 ♀ " "
 5 " " "
 6 " " "
 7 " " "
 8 ♂ Giant Rat
 9 ♂ Eptesicus
 60 " Sciurus
 1 ♀ " "
 2 " " "
 3 ♂ " "
 4 " Putorius
 5 ♂ Scotaeus
 166 ♀ Pterodromus

Futung, Ling Siuh Monastery 28

916

125-158 - 30-18
 115-152 - 27-18
 75-52-12-18
 85-55-13-19
 75-48-13-17

75-52-13-19
Formalin

2 embryos

200-130-50-10
 135-176-30-18.5
 75-52-11-15
 78-43-13.5-17.5
 80-53-13-17
 75-46-13-18.5
 80-48-13-18.5
 82-49-13-18
 250-323-53-34

formalin
 205-170-50-19
 190-175-50-19
 200-182-50-18
 205-175-52-20

245-162-48-22
 formalin
 530-420-80-50

Nursing. Skin dried flat

- 167 ♀ *Eptesicus*
- 8 " *Myotis* (black)
- 9 ♂ *Pachyura murina*
- 70 ♀ *Epomops* *vateri*
- 1 ♂ " *norvegicus*
- 2 " *Scotaeus*
- 3 ♀ *Eptesicus*
- 4 ♂ "
- 5 ♀ "
- 6 ♂ *Lepus*
- 7 ♀ *Spiny Rat*
- 8 " *Sciurus*
- 9 " *Scotaeus*
- 80 " "
- 1 " "
- 2 " "
- 3 " "
- 4 ♂ "
- 5 ♀ *Eptesicus*
- 6 ♂ *Canis*
- 7 *Talpa*
- 8 " "
- 9 " "
- 90 " "
- 1 *Pipistrellus*
- 2 *Myotis*
- 3 ♂ *Genetta viverricula indica*
- 4 ♀ *Hipposecurus*
- 5 " *Sciurus*
- 6 " "
- 197 ♂ *Tupia*
- 166 ♀ *Paradoxurus*

July
Hutsing, Ling Siah

Futsing

Shaowu, Min River

Yunnan - fong

43125

July 31 Formalin

Aug 1 120-70-21

" 137-150-27-18

" 146-163-33-21

2

" Formalin

1

"

Feb. 1916 flat skin (purchased)

Aug 1, " 150-178-29-19

2 205-180-50-21

3 Formalin

"

"

"

"

"

"

1915 skin with skull inside 250 Miles above Foochow

Sept 8 540-390-210-35

9 formalin

"

"

16 158-160-42-16

Caught in monastery
" on rice terrace.

no skull killed with poison arrow
three embryos

2. "

Roost under tiles of temple roof

Purchased in city in the flesh
Shot in cypress hedge

160 miles east Chi-Hsinng

198 ♂ Sciurops

9

200

1

2

3

4

5

6

7

8

9

10

1

2

3

4

♂ Rhizomys

5

♀

6

♂ Tupia

7

" Sciurops

8

♀ Epimys (white bellied)

9

♂ Tupia

20

"

1

♂ Pachyura

2

"

3

"

4

♂ Microtus

5

" Epimys (small)

6

"

7

♀ Apodemus

228

♂ Spiny rat

Yun-nan

1916

Sept. 16

215-160-50-21

Chu Hsing Fu, alt. 6000

Tali-fu

Oct. 24

Purchased at Tali-fu

Tali-fu alt. 6,700 feet

27

190-190-45-18

Shang Kuan village

28

220-190-57-24

" " "

29

160-178-30-22

Pei-ya, Yangtze drainage

Oct. 3

170-176-46-17

7 embryos
20 miles S. of Li Chiang

"

150-170-42-15

" " "

4

80-66-16

Li Chiang alt. 8,200 feet

"

90-75-16.5

"

88-74-17

"

83-39-19.5-11

"

95-76-22-14

"

110-99-22.5-16

"

120-146-29-22

"

130-173-30-22

Ti Chiang, alt. 8200 feet.

- 2 2 ♀ *Spizella monticola*?
- 30 ♀ " "
- 1 ♂ *Pachyura*
- 2 *Spizella* (small)
- 3 ♂ *Pachyura*
- 4 ♀ "
- 5 ♂
- 6 ♀
- 7 ♂
- 8 "
- 9 "
- 40 "
- 1 "
- 2 "
- 3 " *Microtus*
- 4 " "
- 5 " "
- 6 " "
- 7 ♀
- 8 ♂
- 9 "
- 50 "
- 1 "
- 2 ♀ *Microtus*
- 3 " *Spizella* (small)
- 4 ♂ *Apodemus*
- 5 ♀ "
- 6 ♂ "
- 7 "
- 8 " *Myotis* (black)
- 2 5 9 " *Tupia*

1916

Oct 4

- 160-130-35-19
- 145-129-33-19
- formalin
- 105-81-21-7
- formalin
- 5 90-66-16
- 82-76-17
- 85-71-16.5
- 85-69-17
- 85-73-16
- 93-75-18
- 90-80-19
- 87-75-17
- 90-57-17
- 110-51-21.5
- 115-44-21
- 105-43-21
- 110-50-20
- 105-43-21
- 110-44-21
- 105-51-21.5
- 98-45-20
- 110-46-21.5
- 100-47-21
- ~~120-163-29-22~~
- 135-172-27-22
- 105-137-26.5-22
- 120-163-29-22
- 120-165-29-23
- 105-142-28-21
- 52-45-7-16 F 41
- 168-165-44-16

skull only; body eaten by stream

260 ♀ *Spizella* (small)

Li Chiang, alt. 8,200 feet

Oct. 5

110-81-21-15

4 embryos

1 " " "

95-78-22-14

2 " " "

115-91-22-15

7 embryos

3 " " "

105-61-21.5-16

4 "

4 " " "

110-82-21-15

5 ♂ " "

105-96-23-16

6 ♀ " "

90-82-22.5-14

7 " " "

98-74-23-15

8 " " "

105-53-22-16

9 ♂ " "

98-53-22-15

70 ♀ " "

110-81-23.5-15

5 embryos

1 " " "

110-51-20-15

2 " *Spizella* (norvegicus?)

150-131-35-19

3 " " "

125-101-29-17

4 ♀ *Microtus*

120-45-21

3 embryos

5 " *Spizella* (small)

105-83-23-16

6 "

6 " " "

100-72-23-15

7 "

7 " " "

110-81-23.5-15

5 "

8 " " "

90-67-22-14

9 ♂ " *norvegicus*

188-163-39-20

80 *Apodermis*

5 formalin

1 *Pachyura*

" "

2 " "

" "

3 " "

" "

4 " "

" "

5 " "

" "

6 ♀ *Microtus*

" "

7 ♂ " "

" "

8 ♂ *Spizella* (small)

" "

9 *Tupaia*

" "

290

160-160-40-16

160-162-43-17

29 1 ♂ *Microtus large*
 2 ♀ "
 3 ♂ "
 4 ♀ "
 5 ♂ "
 6 " *Epimys (small)*
 7 ♀ "
 8 ♂ "
 9 " "
 3 00 " "
 1 ♀ *Myotis*
 2 ♂ *Pachyura*
 3 " "
 4 " "
 5 " "
 6 ♀ *Epimys*
 7 ♂ *Epimys (small)*
 8 " "
 9 ♂ *Tupia*
 10 ♂ *Pachyura*
 1 " "
 2 ♀ *Microtus*
 3 ♂ "
 4 " "
 5 " *Epimys norvegicus*
 6 ♂ *Pachyura*
 7 ♀ *Epimys (small)*
 8 ♂ "
 9 ♀ *Microtus*
 20 " *Tupias*
 3 21 ♂ "

Li-Chiang, alt. 8200 feet

Oct. 6

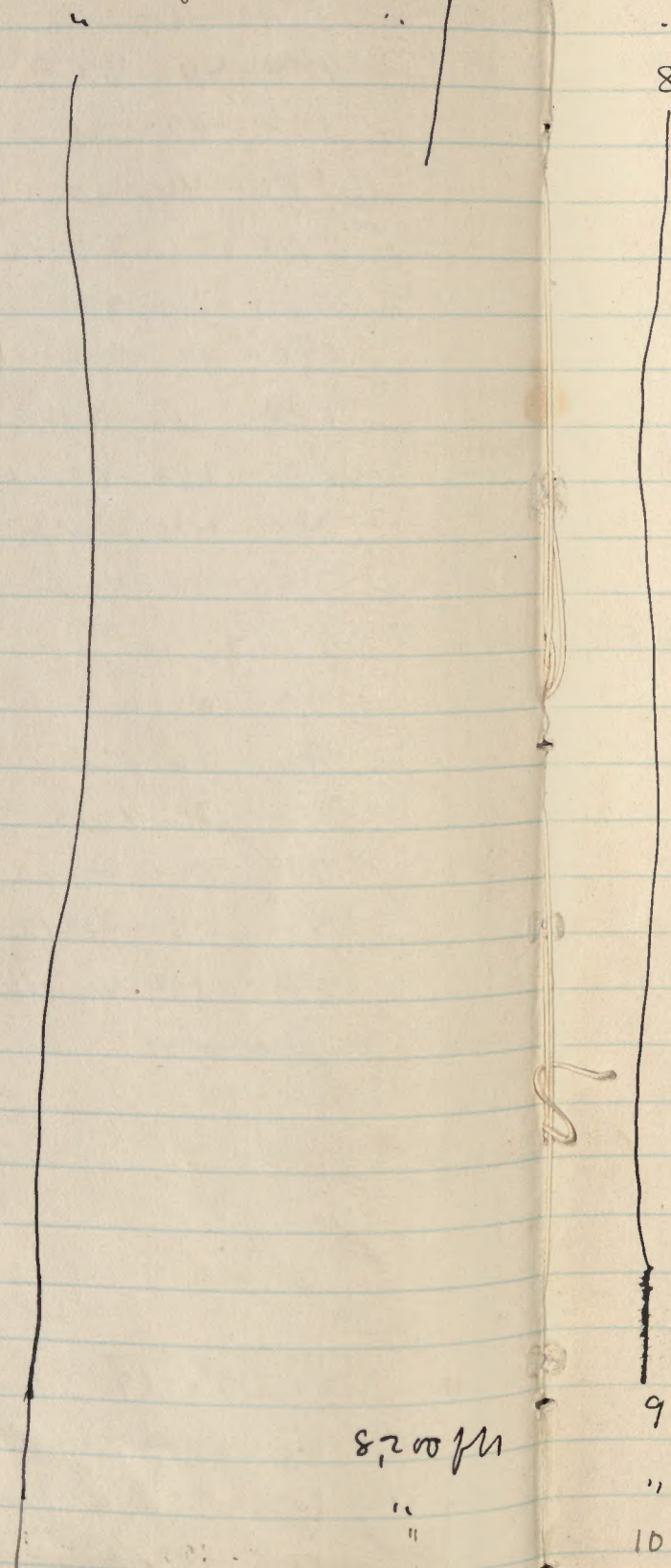
120-50-20-14
 120-43-20
 115-44-21
 115-47-21
 100-44-22
 105-88-22-16
 105-100-23-16
 120-90-22-15
 110-71-22-15
 110-73-22-16
 41-44-6-12 F37
 90-81-18
 85-76-18
 90-70-16
 90-76-16.5
 90-71-16.5
 71-53-20-13
 72-55-20-13
 120-128-46-16
 6 formalin
 " "
 " "
 " "
 " "
 " "
 7 85-78-17
 95-85-22-15
 105-83-22-16
 115-47-20.5
 160-165-42-17
 165-170-45-11

3 embryos

- 32 2 ♂ Pachyura
- 3 " Epimys (small)
- 4 ♀ Felis (spotted)
- 5 ♂ Apodemus
- 6 Paradoxurus
- 7 "
- 8 "
- 9 "
- 30 Civeta
- 1 " yg?
- 43126 2 Bennett Viverricula indica
- 3 Felis (spotted)
- 4 " "
- 5 " "
- 6 " "
- 7 " civet
- 8 Nyctereutes (Asian Dog)
- 9 Aelurus (Panda)
- 40 " "
- 1 Pole cat
- 2 Pteromys
- 3 Sarcophaga large
- 4 " small
- 5 Trypia (striped)
- 6 Civeta
- 7 "
- 8 ♀ Nyctereutes large
- 9 " "
- 50 ♀ Apodemus (big ear)
- 1 ♂ Epimys
- 352 ♂ Epimys

Ti Chiang

8,200 ft. alt. Oct. 7



8,200 ft.

formalin

8

455-275-115-50

100-143-28-22

Purchased No skull

Purchased in flesh

9

60-22-10-19F53

formalin

10 1916

95-103-23-16

88-74-21.5-15.5

90-80-21.5-15

salt

- 35 3 ♀ Myotis
- 4 " "
- 5 ♂ " ^{large}
- 6 ♂ large shrew
- 7 ♂ Epimys
- 8 ♂ Myotis
- 9
- 60 ♀ spiny rat
- 1 ♂ long tailed Apodemus
- 2 ♀ Apodemus ^{large}
- 3 ♀ "
- 4 ♂ large shrew
- 5 ♂ large shrew
- 6 ♂ Spiny rat
- 7 ♀ Epimys
- 8 ♀ Epimys
- 9 ♂ spiny rat
- 70 ♂ Epimys
- 1 ♂ Usinus (small)
- 2 " "
- 3 " Hystrix
- 4 ♀ Myotis (small)
- 5 " " (large)
- 6 " " small
- 7 ♂ Myotis
- 8 ♂ "
- 9 ♂ shrew
- 80 Crocidura (brown)
- 1 ♀ long tailed Apodemus
- 2 ♂ spiny rat
- 38 3 ♂ " "

Li-chiang, 9 on ft. alt.

Li-chiang

Oct. 10

Formalin

Su-sau-chong village

"

"

70-35-15-26-f 59

83-71-17

90-54+-23-14

52-45-9-16-f 41

112-140-27-21

102-132-26-20

Oct 11th

85-105-25-19

85-95-23-20

93-76-16.5

Oct 11th

100-74-17

125-152-29-22

Oct

106-70+22-15

90-80-22-14.5

125-170-29-21

95-85-23-15.5

formalin

formalin

"

40-38-75-12-f 33

50-45-80-14-f 38

54-44-11.5

Oct 12th

66-40-11.5

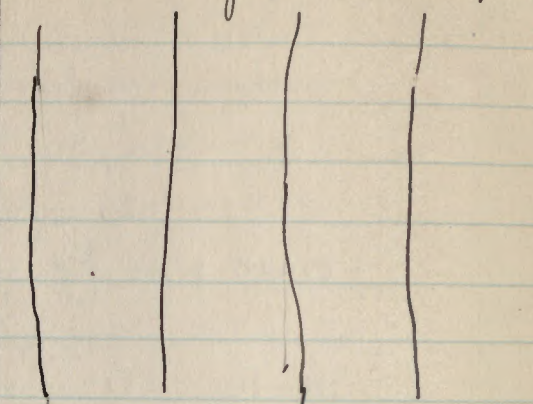
85-107-24-22

128-168-29-24

130-170-29.5-21.5

- 384 *Sorex*
- 5 ♀ *Epimys*
- 6 *Nyctalis*
- 7 "
- 8 *Pachyura*
- 9 "
- 90 *Epimys* (small)
- 1 *Apodemus* "
- 2 ♂ " big ear
- 3 ♀ *Apodemus* big ear
- 4 ♂ " "
- 5 ♀ " "
- 6 ♂ " "
- 7 ♂ *Apodemus*
- 8 ♀ alp. *microtus*
- 9 ♀ alp. *microtus*
- 400 ♀ " "
- 1 ♀ *Alpine Microtis*
- 2 ♀ *alpine microtis*
- 3 ♀ " "
- 4 ♂ alp. "
- 5 ♂ alp. "
- 6 ♂ " "
- 7 ♂ " "
- 8 ♂ alp *microtus*
- 9 ♂ " "
- 10 ♂ " "
- 11 ♂ " "
- 12 ♂ *Alpine microtis*
- 13 ♂ " "
- 14 ♂ *alpine microtis*

Li Chiang, alt. 9000 ft.



13,000 ft.

Snow Mt

Oct. 12

186-170-52-22

85-55+-26-14

Floralin

13

95-90-24-20

105-99-25-20

95-94-26-20.5

100-86+-24-18.5

100-101-25.5-20

110-112-25.5-26.5

100-41-18.5

100-44-18.5

90-39-17

100-39-18

103-33+-17

100-42-18

102-42-18

90-39-18

100-38-17.5

93-32+-18.5

100-41-17.5

92-36-17.5

95-38-18

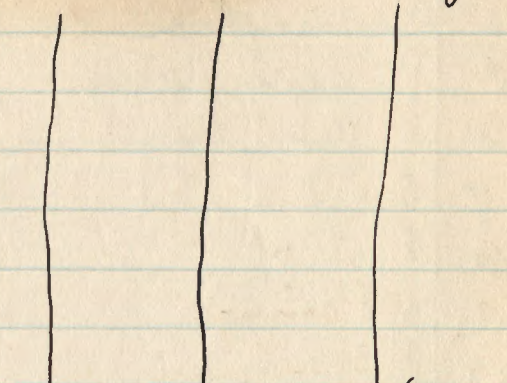
95-36-18

85-32-17

80-34-17

90-36-18

Ssu-san-chong



Snow Mountain, timber-line

H 15 ♂ Hamorhaedus

♂ Lichiang, 13,000 ft

Oct. 14 skeleton taken + skin 2.1120 - T.175 - 2.315 ~~2.315~~ Hg. 800

Snow Mt. Timber line

- 16 ♂ microtus
- 17 ♂ alpine microtus
- 18 ♂ alpine microtus
- 19 ♂ " "
- 20 ♂ " "
- 4 21 ♂ " "
- 22 ♂ " "
- 23 ♂ " "
- 24 ♂ " "
- 25 ♂ alp. microtus
- 26 ♂ " "
- 27 ♂ alpine microtus
- 28 ♂ Apodemus
- 29 ~~shrew~~ Blarina Talpa
- AMNH 44360 30 ♂ long snouted shrew Urospilus gracilis
- 1 ♂ sores brown
- 2 ♂ Crocidura brown
- 3 ♀ Apodemus (biphas)
- 4 ♀ " "
- 5 ♀ Apodemus
- 6 ♀ Apodemus
- 7 ♂ Apodemus
- 8 ♀ " "
- 9 ♀ " "
- 40 ♀ " "
- 1 ♀ Apodemus
- 2 ♀ " "
- 3 ♀ alp. microtus
- 4 ♀ alp. microtus
- 5 ♂ alp. microtus

12,000 ft

15

- 86-25-15-16
- 100-30-16-14
- 105-32-17-13
- 95-30-17-12
- 96-32-18-12
- 96-33-18-12
- 102-35-17-14
- 103-35-18-14
- 105-32-18-13
- 95-30-19-12
- 85-30-15-13
- 85-75-23-19
- 88-26-15
- 70-56-14
- 60-50-12
- 72-51-13
- 100-104-26-21
- 100-112-26-21
- 105-113-26-21
- 100-104-23-18
- 114-118-26.5-21
- 114-118-26-51
- 70-80-23-20
- 81-87-23-17
- 81-85-22-17
- 80-79-23-19
- 81-85-22-17
- 105-42-18
- 100-38-17
- 98-37-17.5

- 44 6 ♂ Microtus
- 7 ♂ Naemorhagus
- 8 ♀ Apodemus
- 9 ♂ "
- 50 ♂ "
- 1 ♂ "
- 2 ♂ "
- 3 ♀ "
- 4 ♀ "
- 5 ♂ "
- 6 ♀ "
- 7 ♂ "
- 8 ♂ "
- 9 ♀ "
- 60 ♀ "
- 1 ♂ "
- 2 ♀ "
- 3 ♂ "
- 4 ♂ Microtus
- 5 ♂ "
- 6 ♂ "
- 7 ♀ "
- 8 ♂ ^{long snouted} shrew ~~sores (brown)~~
- 9 ♀ " sores brown
- 70 ♀ Naemorhagus
- 1 ♂ long snouted shrew ^{Uropsilus gracilis}
- 2 ♂ pigmy apodemus
- 3 ♂ Apodemus
- 4 ♀ Apodemus
- 5 ♂ ^{large eared} apodemus [♂]
- 476 ♀ Microtus

AMNH 44371

Li Chiang, 12,000 ft. alt. Oct. 15

" " " " "

Oct 16

alt. 14,000 ft

" 12,000 "

" 17

- formalin
- L 1060-7110-5122-49,705
- 105-95-24-20
- 102-92-25-18
- 95-86-25-19
- 102-103-25-20
- 113-105-25-21
- 105-100-24-16
- 105-100-23-16
- 100
- 92-88-24-19
- 93-84-24-18
- 96-98-21-20
- 95-86-24-19
- 98-85-24-19
- 85-82-22-17
- 85-86-24-16
- 85-80-23-17
- 81-75-24-18
- 96-34-15-11
- 91-30-17-12
- 89-29-17-11
- 106-34-18-13
- 77-59-18-8
- 59-43-12
- 59-43-12
- skin + leg bones
- 875-145-260-110 kg. 575
- 76-60-14-5
- 100-93-23.5-15
- 113-100-26-21
- 95-93-24-20
- 93-92-25-19.5
- 72-62-14
- formalin

Sierra Nevada forest, shot by R.C.A. skins + 3 leg bones

Shot by E.H. 575. Skin: leaves of herbs & berries. Timber-line forest.

- 477 ♀ Microtus
- 8 " "
- 9 " Apodemus
- 80 " "
- 1 " "
- 2 " "
- 3 ♂ long snouted shrew
- 4 ♀ pigmy apodemus
- 5 ♂ "
- 6 ♀ "
- 7 ♀ Apodemus (big ear)
- 8 ♀ " "
- 9 ♂ "
- 90 ♂₁₀ Apodemus
- 1 ♀₁₀ Apodemus
- 2 ♀₁₀ Apodemus
- 3 ♀₁₀ "
- 4 ♀ alp. microtus
- 5 ♂ " "
- 6 ♀ alp. microtus
- 7 ♂ " "
- 8 ♀ Apodemus
- 9 ♂ alp. microtus
- 500 + ♀ " "
- 1 ♀ alp. microtus
- 2 ♀ Apodemus
- 3 ♂ Microtus
- 4 " "
- 5 ♀ "
- 6 ♀ Crocidura (brown)
- 507 ♂ sorex brown

Li Chiang, 2000 ft.

Oct. 12

Formalin

Timber line forest

- 18 65-62-14
- 80-83-21-15
- 110-104+-25-20
- 107-114-25-21
- 105-117-26-20
- 100-98-25.5-20
- 96-100-24.5-19
- 90-90-24.5-19
- 86-89-24.5-19
- 88-88-24-19
- 86-93-24-18.5
- 105-32-19
- 103-28+-19
- 96-43-18.5
- 91-36-17.5
- 100-98-25.5-20
- 95-48-18
- 95-37-17
- 98-38-18.
- Formalin
- "
- "
- "
- 70-38-12
- 55-52-12

- 50 ♂ ♂ shrew long snouted
- 9 ♂ ♂ Apodemus (big ears)
- 10 ♂ " "
- 1 ♀ Apodemus
- 2 ♀ " "
- 3 ♀ " "
- 4 ♀ large ears "
- 5 ♀ alp. microtus
- 6 ♀ " "
- 7 ♀ alp. microtus
- 8 ♀ alp. microtus
- 9 ♀ " "
- 20 ♂ alp. microtus
- 1 ♂ alp. microtus
- 2 ♂ " "
- 3 ♀ large ears apodemus
- 4 ♀ pigmy apodemus
- 5 ♀ apodemus large ears
- 6 ♀ Apodemus " "
- 7 ♀ " "
- 8 ♀ Apodemus " "
- 9 ♀ ~~Blarina~~ ♀ pigmy apodemus
- 30 ♀ long tailed Apodemus
- 1 ♀ Behatona
- 2 ♀ Apodemus
- 3 ♀ " "
- 4 ♀ Apodemus
- 5 ♀ " "
- 6 " "
- 7 ♂ Apodemus large ears
- 53 8 ♂ alp. microtus

Di-chiang Inus Ml 12,500 ft

Di-chiang Inu Shan Ml

- 65-61-15
- Oct 19th 108-108-25-19
- 111-108¹⁰²-24-26
- 105-115-26-26
- 100-94-25-26
- 103-103-25-26
- 106-94-25-19.5
- 100-39-18
- 97-46-18
- 95-37-17.5
- 98-35-17
- 95-44-18
- 95-34-17
- 95-38-17.5
- 90-36-17.5
- 80-85-22.5-15.5
- 86-82-22.5-16
- 90-92-24-21
- 96-88-25.5-18
- 92-98-25-21.5
- ~~80~~ 85-86-24-18
- 83-80-22.5-16
- 115-148-27-21
- Oct 20 156-12-26-16
- " 100-104-25.5-18.5
- 95-101-25-19.5
- Oct 20th 115-111-26.5-21
- 95-92-23.5-20.5
- 72-79-18.2-14.5
- 85-35-17

altitudo 12,000 ft

- 539 ♂ *Microtus alpinus*
- 44-518 40 ♂ *Blarina* *fuscicaudatus* affinis
- 1 ♂ *Sorex* *large-headed*
- 2 ♂ *Sorex* *brown*
- 3 ♂ *Sorex* *brown*
- 4 ♂ *shrew* *long-nosed*
- 5 ♂ *spiny-eared* *Apodemus* *pygmy*
- 6 ♂ *Apodemus* *large-eared*
- 7 " " "
- 8 " " "
- 9 " " "
- alp. *Microtus*
- 50 ♀ *alp. Microtus*
- 1 ♀ " "
- 2 ♂ " "
- 3 ♂ " "
- 4 ♂ " "
- 5 ♂ *alp. Microtus*
- 6 ♂ " "
- 7 ♀ *Brown bellied weasel*
- 8 ♂ *Apodemus* *(large eared)*
- 9 ♀ " "
- 60 " " "
- 1 ♂ *Sorex*
- 2 ♂ *Nemorhaedus*
- 3 ♀ " "
- 4 ♀ *Apodemus*
- 5 ♂ *Epimys*
- 6 ♂ *alp. Microtus*
- 7 ♀ *alp. Microtus*
- 8 ♂ *alp. Microtus*
- 569 ♀ *Microtus*
- 558 ♂ *alp. Microtus*

Li Chiang, 12,000 ft alt. Oct. 21

Li Chiang, Lsu Shan Mt. Oct. 21

- 87-35-17
- 82-37-14
- 68-34-11
- 61-48-12.5
- 58-48-12
- 70-59-14.5
- 81-83-21-14
- 107-109-24-21
- 105-115-25.5-20.5
- 85-86-24-19
- 90-40-17.5
- 93-35-18
- 90-38-17
- 95-46-17.5
- 88-88-17
- 96-36-18
- 92-46-17.5
- 92-36-17.5
- 235-135-43-23
- Formalin
- "
- "
- 60-50-12
- 100-130-280-140 Hg 730
- 970-150-290-125 Hg 720
- 108-88-25-21
- 88-92-23-16.5
- 98-43-18
- 96-35-17
- 85-39-18
- Formalin

22

Lsu Shan Mountain.

alt. 12,000 ft

Shot by R.C.A.
" " " "

Li Chang, 12,000 ft. alt. Oct. 22

Flourensin

Sou Shan Mtn. Forest

9,000

65-³²/~~32~~-11
70-33-11.5
66-48-13
72-62-14
68-60-15
90-69-16
86-70-17
82-67-16.5
95-93-24.5-19
98-108-26.5-20
85-86-24.5-20
88-96-25-20.5
96-100-25-20
115-155-27-23
80-65-22-15
98-88-21.5-14.5
85-92-22-16
140-197-33-25
48-40-11-15 f 48
50-18-10-19 f 41
45-17-11.5-18 f 40
50-18-9-17 f 42
63-26-11-19 f 52
Flourensin
195-170-53-25

Sou Shan Chang.

- 570 ♂ Microtus
- 1 " "
- 2 ♂ Sorex largeheaded
- 3 ♂ " " "
- 4 ♂ Sorex brun
- AMNH 44365 5 ♂ long snouted shrew Uroscillus gracilis
- 6 ♂ long snouted shrew
- 7 ♂ Crocidura large shrew
- 8 " " large shrew
- 9 " " " "
- 80 ♂ Apodemus big ear
- 1 ♀ Apodemus big ear
- 2 ♂ Apodemus
- 3 ♂ " "
- 4 ♂ Apodemus
- 5 ♂ " long tailed
- 6 ♀ Epimys
- 7 ♂ Epimys
- 8 ♀ " "
- 9 ♂ Apodemus (giant)
- 90 ♂ Myotis
- 1 ♀ Myotis small
- 2 ♂ " "
- 3 Myotis small
- 4 ♂ Myotis large
- 5 ♂ Myotis (large)
- 6 ♀ " "
- 7 " " "
- 8 " " "
- 9 ♂ Scimus

600

601-7 ♂ *Myotis (small)*

608-50 ♀ " "

651

2 *Apodemus (large)*

3 ♂ *Epimys*

4 ♂ "

5 ♀ *Tupia*

6

7

8

9

60

1

2

3

4

5

666 ♂ *Capericornis*

7 ♀ *Sciurus*

8 ♂ *Epimys*

9 " *Apodemus (giant)*

70

1

2 ♂ *Epimys*

3 ♂ "

4 ♂ *Apodemus (large sized)*

5

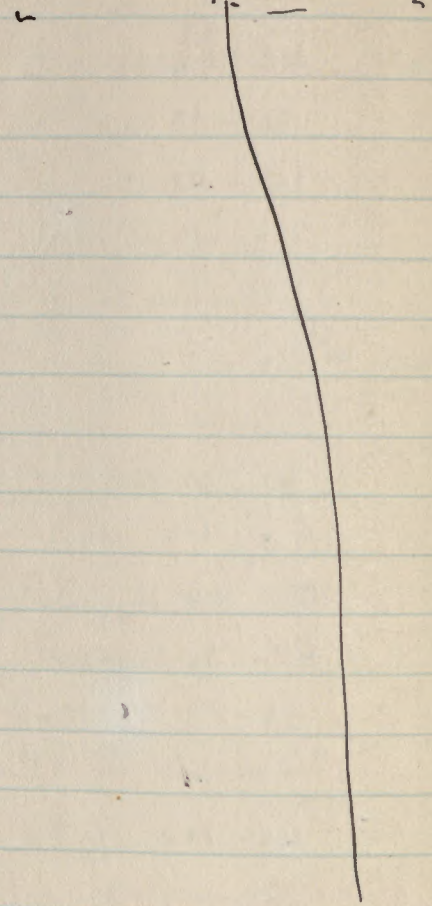
6 ♂ *Apodemus (giant)*

7

8

679

Li Chiang, 9,000 feet, alt.



11,000 ft.
9,000 "

Oct. 24

Formalin

Sen Shan Chang

25

95-93-24-18-

95-85-22-15

100-92-24-15.5

166-138+-42-17

26

1530-1151-400-206 #920

200-178-53-22

80-89-23-16

125-182-32-23

85-72-21-14

78-73-20.5 14

Formalin

160-225-35-26

Shot by native Hunter

6 80

1

2

3

4

5

♂ Apodemus

6

"

7

♀ Myotis

8

♀

9

"

"

90

1

2

3

4

5

6

7

♂ Sciurus

8

9

7 00

1

2

3

4

5

6

7

8

9

7 10

Li Chiang 9,000 Ft. Oct. 27

28

Formalin

29

205 - 135 + - 57-23

Son Shan Chang

7 11
2
3
4
5
6
7

8 ♂ Apodemus (large)
9 " Microtus (Lichiang)
20 " " "
1 ♀ " "
2 " Apodemus (large eared)
3 ♂ Eprings (small)
4 " " "

7 Weasel

30
1
2
3
4

5
6 ♀ Sciurus
7 ♀ Microtus (Lichiang)
8 ♂ Apodemus (long tailed)
9 " Eprings (small)

40 ♀
74 ♂

Lichiang, 9,000 feet alt.

Oct. 30

31

Sun Shan Chang

Formalin

"
"
"
"
"
"

200 x 122 x 37

200-176-55-22

Formalin

17
"
"
"

742 ♀ *Epimys*

3

4

5

6

7 ♂ *Apodemus* (large eared)

8 " *Epimys* (small)

9 ♀ "

50 " " "

1 ♂ *Capricornis*

2

3

4 ♂ *Apodemus* (giant)

5 " "

6

7

8 ♂ *Apodemus* (giant)

9 " *Crocodylus* (large slaty)

60 " *Apodemus* (large eared)

1 " *Epimys* (small)

2 *Heterolestes procyonides*

3

4

5

6 ♂ *Sciurus*

7 ♂ *Apodemus* (large eared)

8

9

70

1

772 ♀ *Sciurus*

Li Chiang, 9,000 ft alt.

Oct 31

Formalin

Hsueh Song-tsun
Ssu Shan Chang

Nov. 1

Formalin

"

"

"

2

1500-85-400-200 Hg 925

Shot by native Hunter

135-180-32-25.5

145-218-34-26.5

Formalin

"

"

"

3

Skin only. Purched at Li Chiang
Ssu Shan Chang

200-193-54-24

Formalin

5

210-200-55-24

773 ♀ *Sciurus*
 4 ♀ *Elaphodus*
 5 ♂ *Capricornis*
 6 ♀ *Myotis* (black null)

Li Chiang, 9,000 ft alt.
 11,000 "
 " "
 9,000 "

80

1
 2 ♀ *Sciurus*

10,000 "

3

4

5

6

7

8

9

90

1

2

3 ♂ *Apodemus* (small)

4 ♀ " (long eared)

5 ♂ *Microtus* (Li Chiang)

6

7

8

9

800

1

2

803 ♂ *Apodemus* (great)

Nov. 4 200-190-55-25

" 1150-140-305-105/1/2 600

5 1620-80-400-190 " 900

Formalin

Hsueh. Song Tsuen
 Shot by native Hunter Snow Water

" " " " " "

Hsueh Song Tsuen

180-170-54-22

6

Pes-wi, Snow Water

Formalin

"

"

7

150-240-35-27

804 ♀ Epimys (small)

5 ♂ Caporicornis

6

7

8

9

10

1

2

3

4

5

6

7

8

9

20

1

2

3

4

5

6

7

8

9

30

1

2 ♀ Apodemus

3 " Microtus

834 ♂ Myoxentodes

Li Chiang, 10,000 feet alt.

11,000 . . .

Nov. 7

Formalin

{ Fresh skin measurements
1600-90-420-200

Peshawar, Snow Mtn.

Shot by native (hunter) bones

Peshawar, Snow Mtn.

10

Formalin

"

"

"

520-190-97-50

Purchased alive

8 875 ♀ *Myiobuteo*
 6 ♂ *Crocodyrus* (small gray)
 7 ♀ *Tamias*

Lichiang, alt. 9000 feet

8
9

40

1

2

3

4

5 ♂ *Apodemus* (long tailed)

6

7

8

9

50

1

2

3

4 ♀ *Apodemus* (long tailed)

5

6

7

8

9

60

1

2 ♀ *Apodemus* (large eared)

3

4

865

837 ♂ *Myiobuteo*

Nov. 10 510-180-102-50

Purchased alive.

Formalin

11

Formalin

12

Formalin

13

Formalin

14

8
 866
 7
 8
 9
 70
 1 ♀ ^{ad} *Azodermus* (large eared)
 2 " " "
 3
 4
 5
 6
 7
 8
 9
 80
 1 ♂
 2 ♂
 3 ♂
 4 ♂
 5 ♂
 6 ♀
 7 ♀ ^{ad} *Memnonia*
 8
 9
 90
 1
 2
 3
 4
 5
 896
 865

Azodermus (large eared)

Memnonia

12,000 ft

Hsueh-shan
Peh-hsuei (Snow Mtn.)

Nov. 14

|

15

Formalini

"

Nov. 15

185-145-50-24

Nov. 16

95-74-24-19

"

103-105-25-20

"

80-65-22-18

"

122-150-27-20

"

160-204-35-27

"

55-42-11-5

"

810-120-240-110 Hg 580 shot by native Hunter

8 897

8

9

900

1

2

3

4

5

6

7

8

9

10

1

2

3

4

5

6

7

8

9

9

20

1

2

3

4

5

6

9 2 7

8 6 5

8
 9 2 8
 9
 3 0
 1
 2
 3
 4
 5
 6
 7
 8
 9 ♀ *Epimys (norvegicus?)*
 40
 1
 2
 3
 4
 5
 6
 7
 8
 9
 50
 1
 2
 3
 4
 5
 6
 7
 9 5 8
 8 6 5

Epimys (norvegicus?)
 ;
 ;
 ;

Yangtze River, Hokaido
 | | |

22 Formosa
 | ;
 | ;
 | ;

600 ft. alt.
 |

8 959
60

1
2
3

4 *Vulpes*
5 *Civetta*

6 *Arctocebus*

7 *Felis*

8 *Lepus*

9 *Sciurus*

70 "

1 "

2 "

3 *Ursus*

4 *Hystrix*

5 ♂ *Eprinus*

6 ♂ "

7 ♂ "

8 ♂ "

9 ♂ "

80 ♂ "

1 ♂ "

2 ♂ *Tupaia*

3 *Cervulus*

4

5

6

7

8

9 8 9
8 6

Lichiang 8200 ft alt.

"

"

"

"

"

"

"

"

Ha pa, 20 miles N. Tabu

" " " "

Pahle Village 8000 ft

"

"

"

"

"

Pahle 8000 ft

" 10000 "

16

skin only

Purchased

"
Front of jaws only, in skin

skin only

" "

" "

" "

" "

22

skull only

" "

25

135-135-28-20

"

135-125-29-21

"

140-135-30-22

"

130-120-20-20

"

95-80-22-15

"

85-80-22-16

"

95-65-22-17

"

155-160-44-12

"

520-75-X-60 ^{skin} measurements

skin only
Purchased from a hunter, newly born

8 990

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

~~1000~~

- 1
- 2
- 3
- 4
- 5

- 6 ♀ Apodemus (small)
- 7 ♀ Spizella "
- 8 " Apodemus (long tailed)
- 9

10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

- 9 ♂ Apodemus (long tailed)
- 10 10 ♀ " (small)

Pak-ti, 30 miles south of Chung-tien Twn.

Fire Mtn. 10000 ft. alt
Hua Shan

- 26 Formalin
- " "
- " "
- 27

Formalin

8 10 21

2

3

4

5

6

7

8

9

30

1

2

3

4

5

6

7

8

9

40

1

2

3

4

5

6

7

8

9

50

1

8 6 5

1052

3

4

5

6

7

8

9

60

1

♂ Microtus

2

♀

"

3

4

5

6

7

8

9

70

1

2

3

4

5

6

7

8

9

80

1

1082 ♂ *Blennius* *Scaptomyx*
86 ♀ *tricaudatus affinis*

Pehr. to 30 Miles South Chung tien

Vertical lines representing data or specimens.

To - nun. lang, Chung-tien lists

Hoa Shan, summit, 13,000 feet

Vertical lines representing data or specimens.

Oct. 29
Nov.

Flourensia

"

Dec. 1 85-31-16

10,000 feet. alt.

1083 to Sorey

4

5

6

7

8

9

90

1

2

3

4

5

6

7 ♀ Microtus

8 ♂ Spizop (small)

9 " " "

11 00 " " "

1 " " "

2 " " "

3 " Apodemus (long tailed)

4 " " (robust)

5 ♀ " (small)

6 " " "

7 " " "

8 " " "

9

10

1

2

11 13

0 0

To-mu-lang, Chung-tien dist.

Dec. 1

10,000 Feet alt.

Tu-gan-sha, 20 Miles S. "

Nov. 30

Formalin

1114

5

6

7

8

9

20

1

2 ♂ *musculus*

3 ♂ "

4 ♂ "

5 ♂ "

6 ♂ "

7 ♂ "

8 ♂ *apodemus*

9 ♀ *epimus*

30 ♀ *shrew* *Sorex* (*leucurus*)

1 ♂

2

3

4

5

6

7

8

9

40

1

2

3

1144

8 0 5

To-mor-loug, Chung-tien disk Dec. 2

"

"

"

"

"

"

"

"

"

"

"

10,000 feet alt.

Dec. 3 91-40-18-12

" 95-38-18-11

" 95-38-18-12

" 94-40-18-11

" 98-39-19-12

" 87-41-18-12

" 80-80-22-17

" 95-56-22-14

" 63-46-14

" *Formosensis*

"

11 1145

6

7

8

9

50

1

2

3

4

5

6

7

8

9

60

1

2

3

✓ 4

5

6

7

8

9

70

1

2

3

4

11 1775

8 6

11 76

7

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80

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3

4

5

6

7

8

9

90

1

2

3

4

5

6

7

8

9

12 00

1

2

3

4

5

11 12 0 6

11 1207

8

9

10

1

2

3

4

5

6 ♀ *Nemourhaedus*

-7

8

9

20

1

2

3

Rejected 4

5

6

7

8

9

30

1

2

3

4

5

6

Hsiao-ke-la, Mekong River

22 1000-130-280-120 Hg 630

Segbons alt. 10,000 Feet.
Shot by R & A

11 1238

9

40

1

2

3

4

5

6

7

8

9

50

1

2

3

4

5

6

7

8

9

60

1

2

3

4

5

6

7

1268

11 1269

70

1

2

3

4

5

6

7

8

9

80

1

2

3

4

5

6

7

8

9

90

1

2

3

4

5

6

7

8

11 1299

1300

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

10 Micromys
1 "

- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

1330

Yang-tien, Mekong drainage

" "

31 Flomalin
" "

9000 Feet
" "

1331

2

3

4

5

6

7

8

9

40 ♀ *Tupia*

1

2

3

4

5

6

7

Felis pardus

8

" (*chinesei*)

9

" "

50

" "

1

" "

2

" "

3

Mustela

4

Panda

5

"

6

"

7

Sciuropterus

8

Pangolin

9

60

1361

Wei-shi, 8500 Feet alt.

Tali-fu 6,700 Ft.

Lichiang 8,200 "

Tali-fu 6,700 Ft.

5 Formalin

Dec. 10 No skull. Purchased

Jan. 10
Nov. 20

Sept 20

1362

3

4

5

6

7

8

9

70

1

2

3

4

5

6

7

8

9

80

1

2

3

4

5

6

7

8

9

90

1 ♀ Myotis

1392

.. ..

Young Chary 5500 ft. alt

Jan. 23

Formalin

Taken in cave, dormant or hibernating

1393

4

5

6

7

8

9

14 00

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142 4

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40

- 1
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- 3
- 4
- 5

6 ♀ Microtus

7 " Apodemus (Small gray)

8 " " "

9 " " "

50 ♂ Naked-tailed Tupia-like shrew

1 Micromys

2 Naked-tailed Tupia-like shrew

3 Proboscis shrew

145 4 ♀ Micromys

Mu-cheng, Salween drainage Feb. 8

7,000 feet alt.

Fl orvalin

2 embryos

9

Body in formalin

Fl orvalin

Fl orvalin

Birds
all taken at Futzing, Fukiens
Prov. China

- 1 to 124 Purchased from H. R. Callwell - Taken at Futzing 1912-1913
- 125 Ruddy Sparrow (Passer rutilans) ♂ July 11
- 126 Fukiens Lesser Scimitar Laughing Thrush ♂ "
- 127 Ruddy Sparrow, ♂ July 12
- 128 Lesser Scimitar L. Thrush ♂ July 12
- 129 Silver Eye ♂ juv Zosterops simplex July 1
- 130 Lesser Tit (Parus minor) ♂ juv July 1
- 131 Silver eye ♂ July 1
- 132 warbler ♂ July 1
- 133 Silver eye ♂ July 1
- 134 Ruddy Sparrow ♂ July 1
- 135 " " ♀ " 3
- 136 Bulbul ♂ July 2
- 137 Eastern House Swallow ♂ July 3, 1
- 138 white eye ♂ July 3, 1916
- 139 Bulbul ♀ " " "
- 140 Fulvous Chusquea Flycatcher July 10
- 1 white eye July 4
- 2 Ruddy Sparrow ♀ July 10
- 3 " " ♂ July 4
- 4 Little Blue Kingfisher " 13 ♂
- 5 Dayle Bird juv 2 July 10, 1916
- 6 Bulbul ♀ juv " 4, "
- 7 Ruddy Sparrow ♂ July 10
- 8 Oriole ♂ " 4
- 9 Dayle Bird ♀ July 4
- 150 Laughing Thrush
- 151 white eye ♂ July 4

July 18

- | | | | |
|-----|--------------------------|-------------------|----|
| 152 | white eye | Futzing | 18 |
| 3 | Dayle Bird | July 18 | 4 |
| 4 | Idihami | " | 10 |
| 5 | white eye | " | 4 |
| 6 | Dayle Bird | " | 10 |
| 7 | Manavett | " | 10 |
| 8 | thick billed shrike | " | 10 |
| 9 | Manavett | " | " |
| 160 | Parus minor | " | 10 |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | ♀ Sandpiper | Futzing | 21 |
| 8 | X Chickadee | " | " |
| 9 | Black-necked Oriole | Songton (Futzing) | 20 |
| 170 | ♂ Dayle-bird | Futzing | 23 |
| 1 | " Lesser-tit Parus minor | " | " |
| 2 | " Oriole (black-necked) | " | 20 |
| 3 | " Lesser Scimitar | " | 24 |
| 4 | " Red-backed Shrike | " | 22 |
| 5 | " Bulbul, Chinese | " | " |
| 6 | ♀ Red backed shrike | " | " |
| 7 | ♂ Ruddy Sparrow | " | " |
| 8 | " Chinese bulbul | " | 23 |
| 9 | " Lesser Crow-pheasant | " | " |
| 180 | ♀ Chinese bulbul | " | 24 |
| 1 | " Black-necked Oriole | " | " |
| 2 | " Lesser Crow-pheasant | " | 11 |

14	183	♂	Dayal Bird	Hutzing
	4	♀	Chinese Bulbul	"
	5	"	Red-backed Shrike	"
	6	♂	Huami Thrush	"
	7	♀	Whitley Owllet	"
	8	♂	Lesser Scimiter	"
	9	♂	" "	"
	190		Owl	"
	1	♀	Eastern Wagtail	"
	2	"	Black-necked Oriole	"
	3	"	Huami Thrush	"
	4	♂	Blue Magpie	"
	5	"	" "	"
	6	"	Lesser Tit	"
	7	♂	Pond Heron	"
	8	♀	" "	"
	9	♂	Wood Pigeon	"
	200	"	Sharp-tailed Grassquit	"
	1	"	White-rumped "	"
	2	"	Mandarin Woodpecker	"
	3	"	S. China Green "	"
	4	"	Chinese Little Bittern	"
	5	"	Ruddy Kingfisher	"
	6	♀	Spectacled Babbling Thrush	"
	7	♂	White-cheeked "	"
	8	♀	" " " "	"
	9	♂	Spectacled " "	"
	210	"	Lesser Scimiter	"
	1	"	" "	"
	2	"	Fulvous Chicky Flycatcher	"
	3	"	" "	"

14

July

214	♀	Eusypia	Hutzing, Lung Sioh vill.	26
5	♂	"	"	"
6	"	"	"	"
7	"	"	"	"
8	♀	Blue-winged Magpie	"	27
9	"	" " "	"	"
220	♂	Barbet	"	"
1	"	" "	"	"
2	"	Great Spotted Kingfisher	"	"
3	♀	Little Blue "	"	"
4	"	Turtle Dove	"	"
5	♂	Spotted Fork-tail	"	"
6	"	Crested Minor	"	"
7	♀	" "	"	"
8	"	Red-backed Shrike	Hung Sioh Village	"
9	"	Huami Thrush	"	"
30	"	White-cheeked Babbler	"	"
1	♂	Chestnut backed Bulbul	"	"
2	"	Chinese "	"	"
3	♀	Little Spotted Owl	"	28
4	♂	Blue-winged Magpie	"	"
5	♀	Ruddy Kingfisher	"	"
6	♂	Red-backed Shrike	"	"
7	"	Spectacled Babbling Thrush	"	"
8	"	Little Blue Kingfisher	"	"
9	"	Grassquit	"	"
40	"	Chinese Bulbul	"	"
1	♀	Grassquit	"	"
2	"	Huami Thrush	"	"
3	♂	Piolet Whistling Thrush	"	"
24	4	Swinhoe's Green-wg. Bulbul	"	"

14	245	♂	Chestnut Backed Bulbul	Hutsing, Ling Sioh
	6	"	Grassquit	
	7	"	Himalus Chikony Flycatcher	
	8	"	Tailor-bird	
	9	"	Grassquit	
	50	"	"	
	1	"	"	
	2	♀	"	
	3	♂	Blue-wing Magpie	
	4	"	Lesser Scimitar	
	5	"	Grassquit	
	6	"	"	
	7	"	Passer montanus	
	8	"	Grassquit	
	9	"	Fork-ted Quail	
	60	"	Lesser Scimitar	
	1	"	Silver-eye	
	2	"	"	
	3	"	"	
	4	"	Chinese Bulbul	
	5	"	Crested Myia	
	6	♀	Ruddy Kingfisher	
	7	"	Bittern	
	8	♂	Barred Owl	
	9	"	Blue-winged Magpie	
	70	"	Wood Hoopoe	
	1	"	"	
	2	"	Spotted Kingfisher	
	3	"	Arango	
	4	"	Paradise Flycatcher	
14	27	♀	Grassquit	

July

* Specimens in Alcohol not numbered from Li-chiang district.

1916 Aug. 2

276	♀	Grassquit	Hutsing, Ling Sioh
277-372	2	Hutsing, collected by Harry Caldwell in 1912	
373	♂	Phasianus elegans	Li-chiang, alt. 9,000 ft.
4	"	"	"
5	"	"	"
6	"	Lady Amherst Pheasant	" 11,000
7	♂	Black & White Mitercocker	" 10,000
8	"	Blue Magpie	"
9	♀	"	"
80	"	Ground Thrush	Peh-hsui
1	"	Robin	"
2	♂	Bullfinch	"
3	♀	Crested Bulbul	"
4	♂	"	"
5	"	Black-headed "	"
6	"	Chinese Jay	"
7	♀	Raven	"
8	x	Blue Magpie	"
9	♂	Amherst Pheasant	"
90	♀	Robin	"
1	♂	Rufous breasted Woodpecker	"
2	"	"	"
3	"	Black "	"
4	♀	Olive Thrush	"
5	♂	Striped Babbling Thrush	"
6	♂	Amherst Pheasant	Peh-ti-ping, Mekong River drainage
7	"	Arab. Babbling Thrush	Li-chiang, Peh-hsui
8	♀	Button Quail	Chung-tung
9	"	Roller	Shui-chai, Mekong River
400	♂	Small Babbling Thrush	Yang Chang
1	"	"	"

Aug

Dec 23

Nov. 9

1917 Jan 17

19

28

- 402 ♂ Red-vented Bulbul
- 3 X " " "
- 4 ♂ " " "
- 5 ♀ Tailor-bird
- 6 " " "
- 7 ♂ Gray-backed Wheatear
- 8 ♀ " " "
- 9 ♂ Streaked " "
- 10 ♀ " " "
- 1 " Bullfinch
- 2 ♀ White-capped Water V "
- 3 ♂ Tree Sparrow
- 4 ♀ Small Ruddy Shrike
- 5 ♂ Large " "
- 6 " Vermiculated " "
- 7 " Blue Wheatear
- 8 " Streaked pipit
- 9 ♀ " " "
- 20 ♂ Gray wagtail
- 1 ♀ " " "
- 2 ♂ Hornero
- 3 " Bullfinch
- 4 " " " "
- 5 ♀ Streaked-backed Wheatear
- 6 ♂ Kinglet
- 7 ♀ " 3
- 8 ♂ Field Sparrows
- 9 " " " "
- 30 " Chickadees
- 43 2 " Yellow wagtail

Yung-chang

* Specimens from Yung-chang & Meng-tung in alcohol numbered

- Jan 27 433 ♂ Little Blue Kingfisher
- 24 4 " Oriole
- 28 5 " Drogon
- 27 6 " "
- " 7 ♀ Wrenneck
- " 8 " Dusky Robin
- " 9 ♂ " "
- " 40 " Sparrow Hawk
- " 1 " Purple Thrush
- 28 2 ♀ Black + white Magpie
- " 3 " " " "
- " 4 ♂ White-headed Starling
- " 5 " Plum-colored Minabird
- " 6 ♀ " " " "
- 27 7 ♂ Crested " "
- 26 8 " " " "
- 27 9 " Rufous Robin
- 28 50 " Red-backed Sun-bird
- 27 1 ♀ Red-billed Bulbul
- " 2 " Black + Gray Babbler
- 28 3 ♂ Vermilion Shrike
- " 4 " 5-colored Sun-bird
- " 5 " " " "
- " 6 " Ash-throated Bulbul
- 27 7 " Crested Minabird
- " 8 " Roller
- 28 9 " " " "
- " 60 ♀ Dusky Swallow
- 27 1 ♂ Green Bulbul
- 28 2 " " " "
- 27 463 " Red-winged Thrush

Yung-chang

Shih-tien

Yoo-kuan

Ta-shui-tung

Hsiao Meng-tung

Chen-kuan

Jan 27

26

27

28

24

27

28

30

"

"

31

"

Feb 2

"

3

"

6

"

"

464	♂	Curved-billed Babbling Thrush	Mu-cheng
5	♀	" " " "	
6	"	White-cheeked " "	
7	♂	Streaked " "	
8	"	Golden-winged " "	
9	"	Black-headed " "	
70	"	Blue-green Wheatear	
1	"	" headed " "	
2	"	"-tailed " "	
3	♀	Ground Chickadee "	
4	♂	White-headed Water Wheatear	
5	♀	Green Creeper	
6	"	Blue-tailed Chickadee	
7	"	Black Flycatcher	
8	♂	Fire-colored Sunbird	
9	"	Green-headed " "	
80	♀	Rufous-headed Kingfisher	Meng-tung
1	"	White-headed Starling	
2	♂	Purple Finch	
3	♀	Jaywing	
4	"	" " " "	
5	"	Black-headed Shrike	
6	"	Halcyon	
7	♂	Barn Swallow	
8	"	Crested Bullbul	
9	♀	" " " "	
90	♂	Yellow Flycatcher	
1	"	Giant Pipit	
2	♀	Broadbill	
3	×	Streaked Swallow	
494	♂	White-headed Starling	

Feb 10
13
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19
18

495	♀	Bamboo Partridge	Mu-cheng
496	♂	Little crow	Meng-tung
7	×	Blk + White Hornbill	Nan-tung River Burma Border
8	♂	" " " "	
9	"	Crested Falcon	
500	×	Golden Jay-cock	
1	♀	Purple Thrush	
2	♂	" " " "	
3	♀	Large Crow-Phasant	
4	"	" " " "	
5	♂	" " " "	
6	"	Wood-cock	
7	♀	Mourning Dove	
8	♂	Trogon	
9	"	White-headed Bulbul	
10	"	Lusby Flycatcher	
1	"	" " " "	
2	"	Blue + Black " "	
3	"	" " " "	
4	"	White " " "	
5	♀	Gray Headed " "	
6	♂	Black-throated Flower-pecker	
7	"	" " " "	
8	♀	Ashy Starling	
9	♂	Crested Sparrow	
20	♀	Brown Grassquit	
1	♂	Vermillion-throated Nuthatch	
2	♀	Blue-Backed " "	
3	♂	Pygmy Barbet	
4	♀	Lesser Babbling Thrush	
525	♂	Long-shanked " "	

Feb 10
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Mar 1
Feb 28
Mar 3
Feb 29
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23
28
Mar 2
Feb 23
28
21
25

526	♀	Pygmy Mound Thrush	Nam-ling River at Burma Border	Feb 25
7	"	Long-tailed Water Wag-tail		"
8	"	Barned Owl		Mar 1
9	"	Rufous winged Crow-pheasant		3
70	"	White-chested Gallinule		4
1	♂	Bamboo Partridge		2
2	"	Francolin		4
3	"	Jungle Fowl		1
4	"	"		6
5	♀	"		Feb 28
6	"	"		Mar 4
7	♂	"	Hue-peiya	9
8	♀	"	Ma-li-pa Burma	14
9	♂	Harpy Eagle		"
40	"	Square-tailed Dove		10
1	"	"		14
2	"	Vinaceous Pigeon		11
3	"	Francolin		"
4	"	Slaty backed Gallinule		14
5	"	Green Woodpecker		"
6	"	Crested Minia bird		12
7	♀	White necked "		13
8	"	Crested "		12
9	♂	White crested Babbler Thrush		14
50	♀	Black banded "		"
1	♂	Giant Black Woodpecker		15
2	"	Golden Backed "		"
3	♀	Crested Minia bird		12
4	♂	"		13
5	♀	Button Quail		"
55	♂	Chinese Jay		14

557	♂	Grant Pipit	Malipa Burma	Mar 14
8	♀	Chipping Sparrow		13
9	♂	Zosterops		15
60	"	Brown headed Pygmy Flycatcher		16
1	"	Vermillion Shrike		10
2	"	Blue Gray Shrikelet		14
3	"	Red eyed Bulbul		12
4	"	"		"
5	♀	"		11
6	♀	Blue Nuthatch		13
7	"	Lesser Babbler Thrush		15
8	♂	Tawny "		16
9	"	White headed "		14
70	"	Greater White bellied Gallinule	Meng-pei-yun-man	17
1	♂	Jungle fowl	Chang-lung ^{Salween} Ferry	20
2	♀	Crow-pheasant		22
3	♂	Long-tailed ^{Blue} Brown Auklet		20
4	"	Purple Woodpigeon		18
5	"	"		20
6	"	Metallic Thrush		21
7	♀	Zosterops		"
8	♂	Olive Kinglet		18
9	♀	Yellow Vireo		21
80	♂	Brown Wheatear		18
1	"	Cobalt Flycatcher		20
2	"	"		21
3	"	Blue backed "		20
4	"	Black & Gray "		17
5	"	Golden Bulbul		19
6	♀	" vented Bulbul		"
58	7	♂	" winged "	"

1455 ♂ Microtus

6 "

7 " Apodemus (small gray)

8 ♀ " " "

9

60

1

2

3

4

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6

7

8

9

70

1

2

3

4

5

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80

1

2

3

4

1485

Mrs. Cheng, Salween drainage

Feb. 9

Formalin

7,000 F set alt.

1486

7

8

9

90

1

2

3

♂ Sorex (small brown)

4

" Microtus (pygmy)

5

6

7

8

9

1500

1

2

3

♂ Microtus (large)

4

" "

5

" "

6

♀ "

7

" "

8

" "

9

♀ "

Apodemus (gray, small)

10

" "

1

♂ "

2

" "

3

" "

4

" "

5

1516

Mu-cheng, Salween drainage Feb. 10

7000 Feet alt.

Formalin

"

Formalin

15 17

8

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30

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40

1

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7

1548 ♀ Sauber

Mu-cheng, Salween drainage

Feb. 11

7000 Feet alt.

Formalin

iron

1549 ♂ *Cervulus*

50 " *Civetta*

1

2

3

4

5

6

7

8

9

60

1 ♀ *Tupia-like carnivore*

2 ♂ *Microtus*

3

4

5

6

7

8

9

70

1

2

3

4

5

6

7

8

1579

Yu-cheng, Salween drainage

Feb. 11

952-180-585-102

7000 feet, shot by Eth

12

770-455-132-56

Photos in trap

Formalin

121580

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

1599

1590

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

3 8 Proboscis shrew

1600

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

1610

Microtus

Mr. Cheng, Salween drainage Field

7000 Feet alt.

13 Formosian

14 Formosian

1611 ♀ *Tupia-like insectivore*

Mu-cheng, Salween ^{drainage}

Feb. 14 Formosa

7000 ft alt.

- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

Pachyura (large)

Nam Ting River, Burma Border

21

1700 ft alt.

9

" "

"

40

" "

"

Formosina

1641



Waikiang River at Burma ^{Border} Feb

1642

3

4

5

6 ♂ Civetta

7 ♀ Vornula

8 ♂ Civetta

9 " "

50

1

2

3

4

5

6

7

43127

8 ♀ Genetta Viverricula indica

9

60

1

2 ♀ Pachyura

3

4

5 ♂ Vornula

6 " Semnopithecus

7

8

9

70

1

1672

1700 Feet alt.

22 630-350-115-50

22 500-390-95-40

skeleton

23 660-390-130-55

" 615-325-120-50

24 440-270-78-40

skeleton

24 Hornbill, 3 embryos

25 520-400-112-43

" 500-780-185-35

skeleton

1673

4

5

6

7 ♂ *Pachyura* (large)

8 " *Spinus* (large)

9 *Pachyura* (small)

80

1

2

3

4

5

6

7 ♀ *Vormula*

8

9

90

1

2

3

4

5

6

7 ♂ *Pachyura*

8

9

17 00

1

2

3

Nam-tung River at Burma Border Feb. 25

17 or 18 alt.

26

Formalin

"

"

One *Spinus*

490-415-100-40

27

Formalin

Meng-tung River at Burma Border Feb. 28

1700 Feet alt.

- 1704
- 5 Pachyura
- 6 ♂ Gray Spiny Mouse
- 7
- 8
- 9
- 10
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8 Felis temminckii?
- 43063 9 ♀ Hylobates lar entelloides
- 43070 20 " " lar entelloides
- 1 Canis (red wolf)
- 2 ♂ Bat (flat skulled)
- 3 " " "
- 4 " " "
- 5 " " "
- 43128 6 ♂ Genetta Viverricula indica
- 7 " Palm civet Paguma larvata intrudens
- 8 ♀ Semnopithecus
- 9
- 30 ♀ Semnopithecus
- 1 ♂ " "
- 2
- 3
- 17347 Macacus

Formalin

- Feb. Skin only. Caught by native near village
- Mar. 1 410-x-140-28
- " " 400-x-125-30
- Feb. Skin only. Caught by native near Meng-tung
- Mar. 2 Formalin
- " "
- " "
- 530-425-115-40
- 530-350-97-42
- 1 485-480-90-48
- 2 455-620-152-30
- 3 480-760-175-32
- " 500-730-174-32
- 3 500-210-160-35

skeleton

skeleton

1735 ♂ *Felis pardus*

Nam-ling River, Burma ^{Burma} Border March

6

7
8

9 *Semnopithecus*

40 ♀

1 ♂

2 ♀ *Macacus*

3

with (retained)

⁴³⁰⁶⁴ 1745 ♂ *Hyllobates lar entelloides*

~~1744 ♀ *Macacus* with retained~~

6

7 ♀ *Semnopithecus*

8

9 ♀ *Cercolus*

50 ♀ *Semnopithecus*

1 *Procyon*

2

3

4

5

6

7

8

9

60

1

2

3 ♀ *Epomys*

4 *Micromys*

1763

Chung-ling
" "

Felis pardus ^{no skull} purchased

1700 Feet alt.

4

Formalin

Embryo of no. 1740
Parent of last no.

..

520-780-175-33

550-815-183-32

4

480-225-150-33

..

440-200-147-35

5

385-X-125-35

4

270-130-93-30

5

5

550-780-185-32

Nursing

6

1000-170-280-103

Nursing

..

185-275-80-25

Parent no 1747

7

Formalin

20

Formalin

21

"

1766
 7
 8
 9
 70
 1
 2
 3
 4
 5
 6
 7
 8
 9
 80
 1
 2
 3
 4
 5
 6
 7
 8
 9
 90
 1
 2
 3
 4
 5

♀ *E. plesicus*

Homestead

♂ *Myotis* (umber)

" " "

Mar 29 Journalin

12 miles down river 220 ft

April Journalin

" "

1797

8

9

1800

1

2

3

4

5

6

7

8

9

10

1

2

3

4

5

6

7

1818

9 ♂ *Apodemus*

20 " *Insectivora* (*Tupaia* like)

1

2 ♀ *Insectivora* (*Tupaia* like)

43065

3 " *Hylobates hoolock leucodys*

4

9

6

1827

Ho mu shu Pass, Yunnan

3 Formalin

1 "

4 Formalin

" 520-X-155-34 skeleton preserved

Contained a large embryo ^{no. 1836} shot by R.C.A.

1828

7

30

1

2

3

4

5

43066 ♀ *Hyalobates*^{hoplock} (embryo. found 1823)

7

8

9

40

Is this the lar # 23997? ♂ *Hyalobates*

2

3

4

5

6

7

8

9 ♂ *Sorex* (short tailed)

50

1

2

3

4

5

6

7

1858

Ho. mu. shu Pass

April

8000 feet altitude

4 *Flourelia*

5 420-x-128-28

6 *Flourelia*

1859

60

43068

1 ♂ *Hylobates hoolock leucodys*

2
3
4

5 ♂ *Insuligne (Tupia-like)*

6
7
8
9

70

1
2
3
4

Pteropus

5 ♂ *Leucon pithecius*

6

7

8

9

80

1
2
3
4

5 ♀ *Mycteris (opiant)*

6
7
8

1889

Ho-nun-shu Pass

April 7

8

550-7-164-33 ^{to nos 1500} edent fingers (59 inches)

"

8

Formalin

Flat skin, no skull

10

580-760-180-37 skeleton coll. In herd with next two nos.

490-740-168-32 " " " 1875+7

260-390-106-28 Skeleton coll. " " " last two nos.

10

Formalin

Taken in a cave

8000 Feet altitude

~~Skeleton preserved~~

Shot by H. Skeleton preserved

preserved

1890 ♀ Myotis (giant)

- 1 "
- 2 "
- 3 "
- 4 "
- 5 "
- 6 "
- 7 "
- 8
- 9

Taipei, Suifu, Shuei-Kuan, April 10

Formalin

Taken in a cave

1900

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

♂ Samnophanes

490-740-173-73 ^{skent 1290 (51 inch)} skeleton

1920

Panda

Felt skin mostull purchased

- 1921
- 2 ♀ *Ceroulus*
- 3
- 4
- 5
- 6
- 7
- 8
- 9 *Cupricornis*
- 30 Flying squirrel
- 1 " "
- ~~2 " Nit used~~
- ~~3 " " "~~
- 4
- 5
- 6 *Naemorhaedus*
- 7 ♀ " "
- 8 *Sciurus*
- 9 ♂ *Naemorhaedus*
- 40 ♀ *Naemorhaedus*
- 1 ♀ *Naemorhaedus*
- 2 ♀ *Ceroulus*
- 3 ♂ "
- 4 ♂ *Naemorhaedus*
- 5 ♂ *Macacus*
- 6 ♀ *Macacus*
- 7 ♂ "
- 8 ♂ *Naemorhaedus*
- 9 ♀ "
- 50 *Macacus*
- 1951 ♂ *Naemorhaedus*

Taipei, Suwei River

Chen Kabin Kegma
wei-shie

Teng-yueh, Hui-yao village

April 12

1150-195-300-112 Htg 620

Shot by Sing Hunter with a
poisoned dart.

Nov

Flat skin, no skull
purchased

Dec

" " "

" " "

" " "

" " "

Said to come from
mt. on Burma border
about 60 miles from
wei-shie

April 25

Embryo of no. 1941 Fomulin
915 lg. Htg 605

Shot by R.C.A.

1050-150-275-125

Shot by SH

1000-175-260-120

Shot by SH

1050-150-270-125

" " "

1010-170-x-x

Shot by R.C.A.

embryo
no. 1936
embryo
skin no. 1943
embryo of last

760-110-225-100

Shot by SH

400-205-140-35

" " R.C.A.

420-245-155-40

Large embryos preserved no 90

430-230-145-37

Shot by R.C.A.

1050-135-270-117

Shot by SH

1000-140-270-123

" " R.C.A.

Fomulin, parent 1946

415-60-145-70 Flatus

Parent no 1949

1952 ♀ *Naemorhagus*
 3 ♂
 4
 5
 6 *Paradoxurus*
 7 ♂ *Naemorhagus*
 8 ♂ ad "
 9 ♂ ad "
 60 ♂ im "
 1 ♀ ad "
 2 ♀ ad "
 3 ♀ ad "
 4 ♀ im "
 5 *Paradoxurus*?
 6 ♀ im *Naemorhagus*
 7 ♂ "
 8 ♀ ad "
 9 ♂ ad "
 70 ♀ ad "
 1 ♀ ad *Cervulus*
 2 ♂ ad "
 3 ♂ ad *Naemorhagus*
 4 ♀ im "
 5 ♂ *Cervulus*
 6 ♀ *Bats*
 7 ♀ "
 8 ♀ "
 9 ♀ "
 80 ♀ "
 1 ♀ "
 1982 ♀ "

Tengyueh, Hui-yao village

April 28 1050-135-265-120 shot by ZH
 " Embryos formalin Haired embryos no. 1953
 " " Parent 1952
 29 scalp + skull only wild dog kill
 30 970-130-580-50 height shot by RCA
 May 1 1050-150-275-132 Hg 610 " " ZH
 2 830-140-250-118 " 590 " " RCA
 " 970-140-265-122 " 640 " " ZH
 " 1040-160-266-130 Hg 620 " " " Nursing
 " 1000-160-265-126 Hg 630 " " RCA with embryos
 " Embryos of last; hairless. Formalin
 3 765-110-207-98 Hg 425 Shot by ZH
 " Skin only, purchased
 4 970-170-270-115 Hg 615 shot by ZH
 " 980-148-270-125 Hg 620 " " R.C.A
 " 1020-150-265-122 " 630 " " "
 " 460-60-165-83 Hg 300 Felis of 1968 Scaled
 5 1060-140-275-125 Hg 650 Shot by ZH. Nursing
 6 1030-203-290-102 Hg 600 " " "
 " Formalin parent 1971
 " 1020-130-260-123 Hg 610 shot by ZH
 7 825-110-235-110 Hg 550 " " R.C.A.
 8 1000-160-290-100- Hg 590 " " ZH
 " Formalin (in case)
 " "
 " "
 " "
 " "
 " "
 " "
 " "

1983

1984

1985

1986

1987

1988

1989

1990 ♀ Bat

1991 ♀ "

1992 ♀ "

3 ♂ Cervulus

4 ♀♀ Capreolus

5

6

7 ♂ Cervus

8

9

2000

1

2

3

4 ♂ Moschus

5 ♀ "

6 "

7 ♀ Bat

8 ♀ "

9 ♀ "

10 ♀ "

1 ♀ "

2 ♀ "

2013

Teng-yueh (Hui-yao)

"

"

Wa-Teen

Hui-yao

"

"

"

"

"

"

"

"

"

May 8, 1989

"

"

"

9

10

11

12

May 20

"

"

"

May 22

"

"

"

"

"

"

1500 - 170 - 300 - 100 kg 600

1350 - 180 - 390 - 175 kg 950

2140 - 320 - 590 - 190 kg 1330

1030 - 150 - ~~270~~²⁷⁰ - 125 - 640

1000 - 130 - 280 - 120 - 650

Pregnant

Formalin

Shot by ZH

RCA (skeleton)

Horns 27 1/2 in. by curve; spread 23 1/2 in.
Shot by ZH. Skeleton

Shot by RCA

RCA

Foetus (formalin) from 2006

Formalin in case

2014	♂	Bat	Tung-yueh (Hui-yao)	May 22		Informative	Cave
15	♂	"	"	"		"	"
16	♀	"	"	"	Pregnant	"	"
17	♀	"	"	"	"	"	"
18	♀	"	"	"	"	"	"
19	♀						
2020	♀						
21	♀						
22	♀						
23	♀						
24	♀						
25		Civet	Tung-yueh		Purchased		Wiskull
26		Polcat Wt record	"		"		"
27		Red Dog Wt record	"		"		"
28							
29							
2030							
31							
32							
33							
34							
35							
36							
37							
38							
39							
2040							
41							
42							

Itinerary evident from preceding notes,
compiled in 1959 by Jos. E. Moore:

month	collecting days	locality	province	country
January	17th	Chung-tung		
"	19th	Shin-chai, Mekong R.		
"	26-28th	* Yung-chang		
"	30th	* Shih-tien		
"	30th	* Yoa-kuan		
"	31st	"		
February	2-3rd	* Ta-shui-tang		
"	3rd	* Hsiao Meng-tung		
"	6-7th	* Chen-kang		
"	9-16	Mu-cheng		
"	16-19	* Meng-ting		
"	18-28	* Namting River at Burma Border		
March	1-6	" " " "		
"	9	* Hwa-pyen		
"	10-16	* Malipa		Burma
"	17	* Meng-peng, Yunnan		
"	17-21	Chaung-lung, Salween ferry		
"	29	Homushu Pass		
April	1-10	" "		
"	10-12	Taiping-pu, Shweli River		
"	25-30	Hui-yao, Teng-yueh		
May	1-11	" "		
"	12	Wa-tien, "		
"	20-22	Hui-yao, "		

* On map in "Complete Atlas of China"

Additional collecting dates evident from squirrel labels.

4th

13th

See "Journal of Bombay Nat. Hist. Soc."
"Journal of Nat. Hist. Soc. of Calcutta"
"Records of Ind. Mus."

Gymnura (Hylomys Müller & Schlegel 1837)

See Fauna of Brit. Ind. Blanford Jo. 219

Anderson's specimen from near Bhamo is a skeleton - the other spirit specimens noted in catalogue could not be found. I saw a specimen of H. swillius dorsalis from Kina Balu Borneo which is much deeper & richer brown than ours & with a very short tail only 13 mm. in the dried skin

H. hodlock varies from black to pale yellow but is certainly different from the Gibbon of the Nam Tung. The call of the two was very different.

Our black Gibbon is possibly H. hodlock

Macacus arramensis looks like the one we killed in the Nam-Tung

M. rhesus like monkeys at this spot. Anterior plate very bad - much redder in rump -

M. arctoides a long haired dark rufous animal seen all over.

Balaenoptera edeni

What Dr. Andersen says about the skull of the Sittang whale i.e. that the beak is more forwardly directed & is less shelving at the base is true in the type.

On the contrary the Arabian skull does not agree with the type in the above particulars - The beak is a little straighter than in my Japan skull but is little above the opening - The shelving is the same.

The narrow beak at the base in each of the Arab. skulls gives them a somewhat different appearance from mine - The beak is as it may narrow at base but not narrow at middle.

The "absence of curvature of mandible externally" is not nearly so important.

Andersen's remarks about the atlas of B. edeni are all true.

Sidihi Is., Noakhally Bengal by C. E. F.

Tommy's sex? - Jan 21, 1892

Andersen's notes on the skull

As the sidhi isle noakhally skulls, in which the maxillae are disarticulated they appear to be rather like those of the type giving a flat beak.

Spines of dorsal lumbar more bent backward than in B. borealis.

The atlas of the sidhi isle specimen is remarkably like that of the type from Sittang figured by Andersen in fact. The trans. proc. have the same shape being long & shallow basally rather than short & thick as in B. borealis. The shape of the trans. proc. & neural arch and the facets which practically touch all shows the characters of the type & differ from B. borealis.

M. macrurus from Muspur, west Hin are quite unlike those of ours - they are very red.

M. macrurus like the numbers at Kiu-yao - Andersen's figure very bad - much redder on rump.

~~Macacus assamensis looks like
 the one we killed in the Nam-tung area
M. arctoides is a long haired dark
 rufous animal - monkey ears
 One black Gibbon is possibly
H. hoolock~~

- 588 ♀ Red nented Bulbul
- 9 ♂ Lesser Robin
- 90 ♀ " "
- 1 ♂ Belted Bee-eater
- 2 ♀ " "
- 3 " " "
- 4 " Gray Shrike
- 5 ♂ Blue throng
- 6 " Olive headed Sparrow
- 7 " " " "
- 8 " Brown Titmouse
- 9 ♀ Slaty breasted Babbling Thrush
- 600 ♂ " " " "
- 1 " Streaked " " "
- 2 " Redfronted Barbet
- 3 ♀ " " "
- 4 " Rufous backed Lesser Shrike
- 5 ♂ Pigmy Oriole
- 6 " Giant Green Sun birds
- 7 " " " "
- 8 ♀ " " "
- 9 " Short billed " "
- 10 " Olive " "
- 1 " Blue Nuthatch
- 2 " Crested Flower pecker
- 3 ♂ " " "
- 4 " Rufous backed Tree Sparrow
- 5 ♀ Cow heron
- 6 ♂ Short-tailed Wren
- 7 " Banded Forest Shrike
- 618 " Giant Wheatear

Chaung-hung Salween Ferry

Jung-ling

Ho-mo-shu Pass

April

- 619 ♂ Black-eyed Titmouse
- 20 " " " "
- 1 ♀ Gray checked Nuthatch
- 2 " " Broadbill
- 3 " Square tailed dove
- 4 " Bamboo Partridge
- 5 ♂ Tragopan
- 6 " Silver pheasant
- 7 ♀ Pea fowl
- 8 ♂ Creeper
- 9 " Cobalt Flycatcher
- 30 " Black White " "
- 1 ♀ | | |
- 2 " | | |
- 3 " | | |
- 4 ♂ Gray headed " "
- 5 " Red fronted Barbet
- 6 " Gray Magpie
- 7 " Spotted Wren
- 8 " Vermilion Flycatcher
- 9 ♀ " " "
- 40 " Streaked Bulbul
- 1 ♂ Green " "
- 2 ♀ " " "
- 3 " " " "
- 4 ♂ Black grey Shrike-Bulbul
- 5 " Streaked Titmouse
- 6 " Brown Sparrow
- 7 " Rufous Robin
- 8 ♀ Amherst Pheasant
- 649 " Francolinus

Ho-mo-shu Pass

Chaung-hung Salween Ferry
Tai ping pu, " divide

Teng-yueh, 5500 feet

- 21
- 22
- 4
- 7
- 8
- 7
- 8
- 7
- 21
- 9
- 12
- 13
- 12
- 13
- 12
- 11
- 11
- 11
- 13
- 12
- 9
- 10
- 22

Apr

5650	♂	Banded Cuckoo	Tengyueh, 5500/-	sub coll.
1	"	Blue Magpie	Hui yao, 6000	" "
2	"	Green Woodpecker	" "	" "
3	♀	" "	" "	" "
4	♂	Banded Bulbul	" "	" "
5	♀	Blue-winged Vireo	" "	" "
6	♂	Banded Cuckoo	Wa-tien 7,000	" "
7	♀	White-cheeked ^{Babbling} Thrush	" "	" "
8	"	Gray Magpie	" "	" "
8	♂	Banded Bulbul	" "	" "
60	"	Black + white Flycatcher	" "	" "
1	♀	" " " "	" "	" "
2	♂	Olive Kinglet	" "	" "
3	"	" "	" "	" "
4	"	Five colored Sun-bird	" "	" "
5	♂	Amherst Pheasant	" "	(Purchased)
6				
7				
8				
9				
70				
1				
2				
3				
4				
5				
6				
7				
8				
9				
680				

page 168 notes made at Lab. Mus.
" 184 B. edeni

6 160 55 1386 140 70
 15 70
 P.22 cont
 P.32 cont
 833 Rockchuck Aug 10 ♂
 K&T. 219

150
 140
 290

340
 290
 50

Loc 901 ♂ juv Aug 20
 Rockchuck 902 ♀ juv Aug 20
 Squaw 963
 " 964
 " 965

45
 4
 180

80
 4
 120
 60
 180

16
 16
 1.50
 22.50

135
 2
 12.5

Andrews, R.C.
 1918-1920

20
 3
 60

L - 270 + 5

Stone - 50

Hunter at Tzelva

Yang San Hai

楊三海

住楊門前後街

Yang men hai Ho-chueh.

20 li from Tzelva best place for pig

3/2
2/2
20/6
13/2
2/6

Man

mule 8 mas per day working
1/2 " " " " " "

donkey 4 mas working
" 3 1/2 " " " "

Kao chra chuang

Sable (*Martes zibellina*) Siberia & Manchuria

Pine Marten (*Martes martes*), Szechuan & "

Ermine (*Mustela erminea*)

Raccoon Stone Marten (*Martes foina*) North Shensi rare

Mink (*Mustela davidiana*) Tientsin

" (*" sibirica*) Shensi & Shansi

Yellow throated Marten *Martes flavigula borealis*

Polecat (*Mustela larrata*) Kansu

" (*" tatarata*) W.M. Shensi

Vormula (*Vormula negans*) Ordos Desert

Wolverine (*Gulo luscus*) Manchuria & N. Mongolia

Otter (*Lutra*) " S. Shensi Kansu

Lynx (*Felis isabellina*) Tibetan frontier, Mongolia, Siberia

Cat (*" chinensis*)

Manul (*Felis manul*) Mongolia, N. Chukhi, & Shensi ^{few spots}

Wild cat (*Felis catus*) larger & shorter tail than gray tabby

Fox (*Vulpes vulpes*)

" (*Canis corsac*) Mongolia soft yellow-grey fur

Wolf (*Canis lupus tschiliensis*) China Mongolia?

Badger (*Meles leptorhynchus*) Peking

Perhaps long suited animal from
Yunnan & others is sand-badger Arctomys

Group A Muntiacus Tungle, Chukiang Prov.
ad. ♀, ad. ♂, juv ♂

Plan - Group to represent muntjac in a grove
of young bamboo. To be in a square case
with glass on all sides, & sit in center
of hall or in alcove.

Material - Twelve or fifteen stalks of
bamboo with branches.

One can of fresh leaves in formalin

One box of dry leaves

Notes - The bamboo stalks grow up
straight at irregular intervals.

The stalks are green with a faint
tint of white at each joint.

Ground thickly strewn with dry
bamboo leaves & shoots of green

grass sparsely distributed between
them. The muntjac feed on the

grass & bamboo shoots in the grove.

Group B

Mongolian Gazelle Gaz

males, females & yq. many specimens

Time - June -

Open plains - animals feeding & resting
grass covered - green - painted back

ground showing rolling plains
with herd of antelope - or a supply

open case group - latter probably
better

Group C Rehuck (Capreolus)

Illiga ♂♂ - ♀♀ - yq ♂ - ♀ - section of 17 specimens
Time - Early August

Plan - Group is to show rehuck standing
on hill side just below the crest.

In the background is a pine &
spruce forest. This is to be painted.

The hill crest to run up & back into
the painting - Hill, grass covered &
thickly spotted with bluebells. There

should be 300 - or 400 bluebells in the
group.

Grass is green - specimens
of some flowers sent in
formalin.

Group should be exceedingly
effective for the orange yellow animal
will be in splendid contrast with the
blue flowers.



No	NAME	DATE	SEX	LOCALITY
45564 ✓ 1 ✓	Muntiacus			antung, Fuhien Prov. China
45563 ✓ 2 ✓	Mavis			
45564 ✓ 3 ✓	Viverra zibetha			
45565 ✓ 4 ✓	Muntiacus			
45563 ✓ 5 ✓	Paradoxurus Paguma larvata larvata			
45569 ✓ 6 ✓	Putorius			
45566 ✓ 7 ✓	Muntiacus			
45567 ✓ 8 ✓	Muntiacus			
45561 ✓ 9 ✓	Putorius			
45565 ✓ 10 ✓	Viverra zibetha			
45563 ✓ 11 ✓	Mungos			
45566 ✓ 12 ✓	Viverra			
45567 ✓ 13 ✓	Viverra zibetha			
45568 ✓ 14a ✓	" zibetha			
45520 ✓ 14 ✓	Felis tigris			
45521 ✓ 15 ✓	Felis pardus variegata?			
45509 ✓ 16 ✓	Viverra zibetha			
45510 ✓ 17 ✓	Viverra "			
45560 ✓ 18 ✓	Rhinomys			
46442 ✓ 19 ✓	Gazella gutturosa	Sept 3, 1918	♀	Gobi Desert between Kalgan & Ugya - killed near Ude by R. C. A.
46443 ✓ 20 ✓	" subgutturosa	" 12, "	♂ juv	" " " " " Turin "
45270 ✓ 21 ✓	Lepus swinhoei	Jan. 4, 1919	♂	Killed at Tung-dow, Chihli Province, near Peking
45277 ✓ 22 ✓	" "	" "	♀	" " " " " " "
45275 ✓ 23 ✓	" "	" "	♂	" " " " " " "
45279 ✓ 24 ✓	" "	Jan. 6	♂	" " " " " " "
45280 ✓ 25 ✓	" "	" "	♀	" " " " " " "
45281 ✓ 26 ✓	" "	" "	♀	" " " " " " "
45329 ✓ 27 ✓	Neomachados caudatus	" 8	♀	" " Peking no skull
45282 ✓ 28 ✓	Lepus swinhoei	" 18	♂ juv	Tung-hing, Chihli Prov. (Eastern Toub) fairly plentiful
45338 ✓ 29 ✓	Lepus ?	" 20	♂	Peking
		Mar 1	♀	Tung-hing Chihli Prov. plentiful found in long grass in river beds & on hillsides L 440 - 135 - H.F. 105 - E. 80

No	Name	Date	Sex	Locality	
45339 ✓ 30	Sciurus	Mar. 2	♂	Tungku Chekiang Prov.	
45341 ✓ 31	Muntiacus leucurus?	" "	♂	" "	} For group A skin skull & leg bones
45342 ✓ 32	" "	" 3	♀	" "	
45343 ✓ 33	" "	" "	♂	" "	
45340 ✓ 34	Sciurus	" 4	♂	" "	
45346 ✓ 35	Hydropotes inermis	Feb. 8	-	" "	no skull (purchased)
45347 ✓ 36	" "	" "	-	" "	" "
45332 ✓ 37	Vulpes	" "	-	" "	" "
45334 ✓ 38	Meles	Mar 8	-	" "	" "
45335 ✓ 39	Mungos	" 9	-	" "	" "
46472 ✓ 40	Viverra zibetha	Feb. 20	-	Fong-hsien, Shupai Prov.	" 130 li S.W. of Sao-ho-how
45283 ✓ 41	Lepus swinhoei	Mar 19	♂	Peking	
45284 ✓ 42	" "	" 23	♀	" "	
45290 ✓ 43	Cristulus giseus	" 24	♂	" "	
45291 ✓ 44	" "	" "	♀	" "	
45294 ✓ 45	Meles leptorhynchus	Apr. 13	♂	Tungku, Chekiang Prov.	skin & skull - 600-175-92-35
45297 ✓ 46	Sciurus vulgaris	" "	♀	" "	230-195-65-25
45307 ✓ 47	Eutamias a. sennerus ♀	" "	♂	" "	145-90-32-15 (no skull)
45308 ✓ 48	" "	" "	♂	" "	" "
45330 ✓ 49	Neomohadus caudatus	" 14	♂	" "	<u>Inches</u> 42-5-11 1/2-5 1/2
45298 ✓ 50	Sciurus	" 15	"	" "	205-150-54-19
45309 ✓ 51	Eutamias	" 15	♀	" "	165-115-38-15
45310 ✓ 52	" "	" "	♂	" "	155-110-37-14
45311 ✓ 53	" "	" "	"	" "	150-90-33-14
45312 ✓ 54	" "	" 16	♀	" "	140-85-32-14
45313 ✓ 55	" "	" "	♀	" "	142-82-32-15
45314 ✓ 56	" "	" "	♀	" "	142-65-35-14
45315 ✓ 57	" "	" "	♀	" "	140-84-34-15
45316 ✓ 58	" "	" "	♀	" "	138-78-33-15

No	Name	DATE	SEX	LOCALITY	
45217 ✓ 39	Eutamias	Apr. 16	♀	Tung-ling, Chubbi Prov.	146-80-35-15
45299 ✓ 60	Sciurus	"	♀	" " "	
45300 ✓ 61	"	"	♀	" " "	
45318 ✓ 62	Eutamias	"	-	" " "	
45319 ✓ 63	"	"	♂	" " "	
45320 ✓ 64	"	"	♂	" " "	
45321 ✓ 65	"	"	♀	" " "	
45301 ✓ 66	Sciurus	"	♂	" " "	210-140-51-23
45302 ✓ 67	"	"	♀	" " "	223-X-53-21
45303 ✓ 68	"	"	♂	" " "	230-X-55-25
45304 ✓ 69	"	"	♀	" " "	-
45326 ✓ 70	Pteromys melanopterus	" 13	♂	" " "	no skull (purchased)
45295 ✓ 71	Melis leptorhynchus	" 17	♂	" " "	590-125-92-42 skin & skeleton skull
45327 ✓ 72	Pteromys melanopterus	" 17	♂	" " "	320-285-65-36
45322 ✓ 73	Eutamias	" "	♂	" " "	skull only
45323 ✓ 74	"	" "	♂	" " "	160-113-40-15
45324 ✓ 75	"	" "	♂	" " "	137-82-36-15
45325 ✓ 76	"	" "	♂	" " "	138-85-35-15
45331 ✓ 77	Remorhodus caudatus	" 18	♂	" " "	Inches 43-5 1/2 - 11-5 1/4
45296 ✓ 78	Melis leptorhynchus	" "	♂	" " "	
45320 ✓ 79	Pteromys melanopterus	" "	♂	" " "	350-310-65-32
45305 ✓ 80	Sciurus	" 21	♂	" " "	215-138-51-25
45306 ✓ 81	"	" "	♂	" " "	225-138-53-25 (no skull)
45328 ✓ 82	Eutamias	" "	♂	Shansi Prov.	gift; skull in skin
45359 ✓ 83	Sciurus	" "	♂	" " "	" " " "
45355 ✓ 84	Melis	" "	♂	" " "	" " " "
45295 ✓ 85	Eutamias	Aug 11, 1918	♀	Ping-ting hsien Shansi	skin only - gift (23 1/4 - 8 1/2 - 3 3/4 inches)
45286 ✓ 86	Sciurus	Apr 23	♂	Tung-ling	Formalin specimen
45115 ✓ 87	Citellus mm. umbrinus	Apr 26	♀	Peking	475-70-115-87
		May 18	♀	Innan huiyuan 120 mi. n.w. of Kalgan	

No	Name	DATE	SEX	LOCALITY	Notes
45714 1 88	Citellus mon. umbratus	May 18	♀	30 mi N.W. of ^{Kalgan} Del	Inner Mongolia in grass lands
45715 89	" "	"	♂	" "	" "
45716 90	" "	"	♂	" "	" "
45717 4560291	Citellus lupus no specimen	May 18	♀	170 mi N.W. Kalgan	" " (no skull) skin & skull
45718 45719 92	" "	"	♂	" "	(no skull)
45720 93	" "	"	♀	" "	" "
45721 94	" "	"	♀	" "	" "
45722 95	" "	"	♂	" "	" "
45723 96	Citellus mon. umbratus	May 18	♀	30 mi N.W. of ^{Kalgan} Del	Inner Mongolia in grass lands
45724 97	" "	"	♂	" "	" "
45725 98	" "	"	♂	" "	no skull
45726 100	no specimen	"	"	" "	" "
45727 101	no specimen	"	♂	" "	skull only
45728 102	" "	"	♂	" "	no skull
45729 103	" "	"	♂	" "	" "
104					
105					
106					
107					
108					
45653 110	Lepus	May 20	♂	30 mi S. of Ude, Outer Mongolia	in long grass in sandy places
45729 111	Citellus sp.	May 21	♀	Ude, Outer Mongolia	Sandy places abundant
45730 112	"	"	♀	" "	" "
45731 113	"	"	♀	" "	" "
45732 114	"	"	♂	" "	" "
45733 115	"	"	♂	" "	" (no skull)
45734 116	"	"	♂	" "	" "

210
700
280

305
110
415

300
110
495

310
110
495

No	Name	DATE	SEX	LOCALITY	Measurements
45656 ✓ 117	Marmota robusta	May 23	♀	Mongolia, 30 mi. N. of Urga,	
45657 ✓ 118	"	"	♂	"	
45654 ✓ 119	Lepus	"	♀	"	
45658 ✓ 120	Marmota robusta	"	♂	"	
34751 ✓ 121	Citellus sp.	May 23	♂	Mongolia, 30 mi. S. of Urga on grassy plains	
45659 ✓ 122	Marmota robusta	" 23	♀	"	
46379 ✓ 123	Citellus	" 26	♀	" Urga	100-10-14-14
45660 ✓ 124	Marmota robusta	June 1	♂	"	
125 ✓ 45844 ✓ 126	Microtus	May 7	♂	40 miles S.W. Urga	
45845 ✓ 127	Microtus	" "	♀	"	
128 ✓ 45846 ✓ 129	Microtus	" "	♀	"	
46402 ✓ 130	Alactaga Alactaga	June 17	♂	Mongolia, 40 mi. N. of Urga in grassy rolling plains -	164-198-77-41 Col. Camp # I
45847 ✓ 131	Microtus	"	♀	"	112-16-18-12
45848 ✓ 132	"	"	♂ juv	"	98-15-18-10
45849 ✓ 133	"	"	♀ juv	"	91-19-18-10
45661 ✓ 134	Marmota robusta	"	♀ juv	"	250-75-62-17
45662 ✓ 135	"	"	♂	"	490 140-90-30 skull only
45663 ✓ 136	"	"	♀	"	440 150-87-27 skull only
45664 ✓ 137	"	"	♂ juv	"	255-90-65-20
45665 ✓ 138	"	"	♂ juv	"	250-100-65-20
45666 ✓ 139	"	"	♂ juv	"	415-140-90-25 skull only
45667 ✓ 140	"	"	♂ juv	"	255-70-65-19
45668 ✓ 141	"	"	♂ juv	"	247-77-63-17
45669 ✓ 142	"	"	"	"	
45670 ✓ 143	"	June 20	♀ ad	" 60	Col. Camp # I
45671 ✓ 144	"	"	♂	"	
45672 ✓ 145	"	"	♀	"	
45673 ✓ 146	"	"	♂	"	

305
256
420

No. NAME DATE SET Locality

45674 ✓ 147 Marmota robusta June 20 Eyes 60 mi S.E. of Uliga in grassy rolling plains

45675 ✓ 148 " " " " " " " " " " " " " "

45676 ✓ 149 " " " " " " " " " " " " " "

45677 ✓ 150 " " " " " " " " " " " " " "

45678 ✓ 151 " " " " " " " " " " " " " "

46380 ✓ 152 Cricetus " ♂ " " " " " " " " " " " "

46381 ✓ 153 " " June 21 ♂ 80 mi " " " " " " " "

46382 ✓ 154 " " " ♂ " " " " " " " " " "

46383 ✓ 155 " " " ♀ " " " " " " " " " "

46384 ✓ 156 Microtus " ♀ " " " " " " " " " " " "

46385 ✓ 157 Lepus " ♀ juv " " " " " " " " " "

46386 ✓ 158 Marmota robusta " ♂ juv " " " " " " " " " "

46444 ✓ 159 Gazella gutturosa " " ♀ " " " " " " " " " "

46445 ✓ 160 " " " ♀ " " " " " " " " " "

46446 ✓ 161 " " " ♀ juv " " " " " " " " " "

46447 ✓ 162 " " " ♀ juv " " " " " " " " " "

46384 ✓ 162 Cricetus June 22 ♀ " " " " " " " " " "

46385 ✓ 163 Marmota robusta " ♂ ♀ " " " " " " " " " "

46386 ✓ 164 " " " ♀ " " " " " " " " " "

46387 ✓ 165 " " " ♀ " " " " " " " " " "

46388 ✓ 166 " " " ♀ juv " " " " " " " " " "

46389 ✓ 167 Cricetus " ♂ " " " " " " " " " "

46390 ✓ 168 " " " ♂ " " " " " " " " " "

46391 ✓ 169 Gazella gutturosa " 22 ♂ " " " " " " " " " "

46392 ✓ 170 Cricetus " 23 ♀ " " " " " " " " " "

46393 ✓ 171 Marmota robusta " ♀ " " " " " " " " " "

46394 ✓ 172 Marmota robusta " ♀ juv " " " " " " " " " "

46395 ✓ 173 " " " ♀ " " " " " " " " " "

Col. Camp # II

Inches
50-4 1/4-14 1/2-4 1/2
48-3 1/2-13 1/2-4 1/2

spin. skeleton carrying young no 160

23-1 1/2-9 1/2-2 3/4
45-4 1/2-13 1/2-4
21 1/4-1 1/2-9 1/4-2 1/2

rolling plain

93-10-13-15

455-120-86-22

460-125-92-25

475
400 115-87-21

230-85-65-20

96-6-15-15

90-4-14-15

50-4 1/4-14 1/2-4 1/2 inches

94-5-14-14

95-9-13-15

270-95-60-22

455-140-84-22

No	NAMES	DATE	SEX	LOCALITY
45656 ✓174	Marmota robusta	June 23	♀	80 mi S. 2 of Mags
45687 ✓175	"	"	♀ juv	"
45688 ✓176	"	"	♂	"
45689 ✓177	Mustela	"	♀	"
46389 ✓178	Citellus	"	♂	"
46390 ✓179	"	"	♂	"
46391 ✓180	"	"	♂	"
46394 ✓181	"	"	♀	"
46393 ✓182	"	"	♂	"
45851 ✓183	Microtus	"	♀ juv	"
45852 ✓184	"	"	♂ juv	"
45853 ✓185	"	"	♂ juv	"
46449 ✓186	Quzella gutturosa	"	♀	"
45854 ✓187	Microtus	" 24	♂ juv	"
45855 ✓188	"	"	♀ juv	"
45659 ✓189	Marmota robusta	"	♀	"
45660 ✓190	"	"	♂	"
45691 ✓191	"	"	♀	"
45692 ✓192	"	"	juv	"
45693 ✓193	"	"	"	"
45694 ✓194	"	"	"	"
45695 ✓195	"	"	♀	"
45696 ✓196	Mustela	"	♂	"
45857 ✓197	Microtus	"	♂	"
45858 ✓198	"	"	♂ juv	"
45859 ✓199	"	"	♂ juv	"
45860 ✓200	"	"	♂ juv	"
201	"	"	"	"

in rolling grassy plains	445-140-85-25	skeleton skin
"	480-155-90-28	291
"	480-155-90-25	skeleton skin
" in marmot hole	395-150-63-25	
"	103-5-12-16	
"	94-6-12-14	
"	87-5-12-14	
"	98-6-14-13	
"	102-6-14-16	
"	104-17-20-10	no skull
"	100-15-20-10	"
"	83-16-20-8	"
"	41-4-13-4	skin skeleton bones
"	78-14-17-8	
"	81-16-18-8	no skull
"	440-140-90-20	301 20 395
"	440-145-92-23	
"	425-135-85-20	
"		
" in marmot hole-	395-170-67-24	same place as 177
"	122-18-20-16	
"	80-11-17-8	
"	82-11-19-9	
"	82-12-18-10	
"	89-15-18-8	

♂

No	Name	Date	Sex	Locality
45869 ✓ 230	<i>Microtus</i>	June 30	♀	140 mi. S.E. of Maya
45870 ✓ 231	"	"	♂	"
45871 ✓ 232	"	"	♂ juv	"
45872 ✓ 233	"	"	♀ juv	"
45873 ✓ 234	"	"	♀ juv	"
46454 ✓ 235	<i>Gayella gutturosa</i>	June 30	♀	"
46460 ✓ 236	"	"	juv	"
46461 ✓ 237	"	"	♂	"
45874 ✓ 238	<i>Microtus</i>	July 1	♂	"
45875 ✓ 239	"	"	♀	"
45876 ✓ 240	"	"	♂	"
45877 ✓ 241	"	"	♀	"
45878 ✓ 242	"	"	♂	"
45879 ✓ 243	"	"	♀	"
45880 ✓ 244	"	"	♂ juv	"
46396 ✓ 245	<i>Cricetus</i>	"	♀	"
46397 ✓ 246	"	"	♂	"
46398 ✓ 247	"	July 1	♂	"
46399 ✓ 248	"	"	♂	"
46403 ✓ 249	<i>Alartaga</i>	"	♀	"
45881 ✓ 250	<i>Microtus</i>	"	♀	"
45882 ✓ 251	"	"	♂	"
45883 ✓ 252	"	"	♀	"
45884 ✓ 253	"	"	♂	"
45885 ✓ 254	"	"	♀	"
45886 ✓ 255	"	"	♂	"
45887 ✓ 256	"	"	♀	"
45888 ✓ 257	"	"	♂	"

~~107-16-20-9~~ ✓
~~107-16-20-9~~
~~109-17-20-10~~
 109-17-20-10
 91-17-17-14 no skull
 79-15-15-9
 89-16-17-9
 skin, skull, & leg bones
 " " " " " "
 skull only - killed by wolves
 126-16-21-12
 124-18-18-11
 106-19-20-10
 104-19-19-10
 110-17-20-10
 100-16-20-10
 85-16-17-9
 97-6-14-15
 93-4-13-15
 98-4-14-15
 92-3-14-14
 155-188-70-41
 109-20-15-10
 137-22-16-12
 112-18-17-10
 111-17-20-10
 115-16-17-10
 132-20-15-11
 112-17-16-11
 81-18-16-9 no skull

No.

Name

Date

SEX

LOCALITY

45908 ✓

286

Microtus

July 5

♀

120 mi S.E. of Urya

45909 ✓

287

"

"

♀

"

45910 ✓

288

"

"

♂

"

45911 ✓

289

"

"

♀

"

45912 ✓

290

"

"

♀

"

45913 ✓

291

"

"

♀ juv

"

45914 ✓

292

"

"

♀

"

45915 ✓

293

"

"

♂

"

45916 ✓

294

"

"

♂

"

45917 ✓

295

"

"

♂

"

45918 ✓

296

"

"

♂

"

45919 ✓

297

"

"

♂

"

46401 ✓

298

Cricetulus

"

♂

"

46470 ✓

299

Gayella gutturosa

"

♂

"

45920 ✓

300

"

"

♂

"

45921 ✓

301

Microtus

"

♂

60

"

45922 ✓

302

"

"

♂

"

45923 ✓

303A

"

"

♂

"

34735 ✓

304

Citellus

July 16

♀

20 mi N.W. of Urya

34736 ✓

305

"

"

♂

"

45924 ✓

306

Microtus

" 19

♂

35 mi south of Urya

Along Tekelache River

45925 ✓

307

"

"

♂

"

45926 ✓

308

"

"

♂

"

45927 ✓

309

"

" 20

♂

45

"

45928 ✓

310

"

"

♀

"

45929 ✓

311

"

"

♂ juv

"

45930 ✓

312

"

"

♂

"

34737 ✓

313

Citellus

"

♀

"

120-21-18-11

111-21-18-9

120-21-19-10

123-20-18-10

120-19-19-11

94-16-18-9

123-23-19-11

121-21-18-11

122-20-19-11

125-24-17-11

114-24-17-10

112-22-18-11

formalin

skin skull & leg bones

skull + skull

123-18-20-12

124-20-19-11

118-20-16-11

126-20-19-10

225-100-45-10

229-105-50-9 no skull

142-44-19-13 forest

132-38-19-13

122-7-19-13

no measurements

124-41-20-13

100-33-20-13

89-20-17-10

247-110-56-9

No	Name	Date	Sex	Locality
45758 343	Citellus	July 21	♂ juv	4.5 mi N.E. of Olga
45759 344	"	"	♀	"
45760 345	"	"	♂	"
45761 346	"	"	♀	"
45762 347	"	"	♀	"
45740 348	Microtus (long tailed)	July 23	♀	"
45741 349	"	"	♀	"
45942 350	"	"	♀	"
45943 351	"	"	♂	"
45944 352	"	"	♂	"
45945 353	"	"	♂ juv	"
45946 354	Microtus (short tailed)	"	♀	"
45947 355	Long tailed shrew	"	♀	"
45948 356	Microtus (long tailed)	"	♀	"
357	" (short tailed)	"	♂	"
45949 358	"	"	♀ juv	"
45950 359	"	"	"	"
45763 360	Citellus	"	♂	"
45764 361	"	"	♂ juv	"
45765 362	"	"	♂	"
45572 363	Long eared shrew	July 24	♀	"
46215 364	Eutamias	"	♂	"
45911 365	Eutamias	"	♀	"
45766 366	Citellus	"	♂	"
45750 367	Microtus (short tailed)	"	♂	"
45951 368	"	"	♂ juv	"
45952 369	"	"	♂	"
45953 370	" long tailed	"	♂ juv	"
45954 371	"	"	♂	"

122-43-20-12
 135-37-20-14
 133-7-19-14
 125-37-20-14
 100-32-20-14
 98-29-19-12
 127-25-17-10 no skull
 70-30-12-7
 102-32-20-14
 715-18-17-9 spoiled
 92-15-15-11
 85-15-15-10
 245-110-50-11
 180-85-46-9
 180-90-46-10
 61-35-13-6
 90-15-17-12
 135-110-37-17
 245-114-50-10
 129-32-16-10
 no measurements

No	Name	Date	Sex	Locality
45955r 372	Mimus (short tailed)	July 24	♀ juv	4.5 mi north E. of Mya.
45767 373	Citellus	"	♀ "	"
45768 374	"	"	♂ "	"
45769 375	"	"	♀ "	"
45770 376	"	"	♂ "	"
45771 377	"	"	♂ "	"
45772 378	"	"	♀ "	"
45773 379	"	"	♀ "	"
45774 380	Musculus long tailed	"	♂	"
45775 381	" " "	"	♂	"
45456 382	" short tailed	"	♂	"
46216 383	Eutamias	"	♂	"
46217 384	"	"	♂	"
45412 385	Eutamias	"	♀	"
45957 386	Mimus (short tailed)	July 25	♂	"
45458 387	" " "	"	♂	"
45774 388	Citellus	"	♀	"
45611 389	Ochotona	"	♂	"
45612 390	"	"	♂	"
45613 391	"	"	♂	"
45614 392	"	"	♂	"
45615 393	"	"	♂	"
45616 394	"	"	♂	"
395	"	"	♂	"
45617 396	"	"	♂	"
45618 397	"	"	♂	"
45619 398	"	"	♂	"
45620 399	"	"	♂	"
45621 400	"	"	♂	"

no measurements

no measurements

skull only Andersen

Presented to Andersen

skin skull 115-19-19-10

87-25-19-13

108-25-18-14

117-100-35-15 no skull

107-20-17-10

118-21-16-10

skull only Presented to Andersen

170-X-26-20

155-X 25-19

165-X 25-20 skull broken

150-X 25-19

155-X 25-19

147-X 25-19 no skull

165-X 24-20 no specimen

155-X 25-17

165-X 25-18 no skull

175-X 26-19

155-X 25-19 no skull broken

173-X 26-19

No	Name	Date	Sex	Locality
45622 ✓ 401	Ochtona	July 25	♂	48 mi n.e. of Urya
45623 ✓ 402	"	"	♀	"
45624 ✓ 403	"	"	♀	"
45625 ✓ 404	"	"	♂	"
45754 ✓ 405	Microtus	"	♂	"
45760 ✓ 406	"	"	♂	"
46218 ✓ 407	Eutamias	"	♂	"
46219 ✓ 408	"	"	♂	"
46220 ✓ 409	"	"	♂	"
46221 ✓ 410	"	"	♂	"
45813 ✓ 411	Eutamias	"	♀	"
45814 ✓ 412	"	"	♀	"
45815 ✓ 413	"	"	♀	"
45816 ✓ 414	"	"	♀	"
46222 ✓ 415	Eutamias	July 26	♂	"
46223 ✓ 416	"	"	♂	"
45626 ✓ 417	Ochtona	"	♀	"
45627 ✓ 418	"	"	♀	"
45628 ✓ 419	"	"	♀	"
45629 ✓ 420	"	July 27	♂	"
45630 ✓ 421	"	"	♂	"
45631 ✓ 422	"	"	♂	"
45632 ✓ 423	"	"	♀	"
45633 ✓ 424	"	"	♀	"
45634 ✓ 425	"	"	♀	"
45635 ✓ 426	"	"	♀	"
45636 ✓ 427	"	"	♀	"
45817 ✓ 428	Eutamias	"	♂	"
45818 ✓ 429	"	"	♂	"

not sure of sex

not sure of sex of Ochtona

135-X-25-17
185-X-26-19 no skull
172-X-25-19
155-X-25-18
133-40-22-14
127-35-19-13
90-27-17-14
118-35-18-15
102-22-17-15
85--14-19-12
135--105-37-15
145-98-33-17
125-90-33-14
150-105-37-18
120-28-20-13
105-27-19-15
165-X-25-19
148-X-26-19
146-X-25-18
170-X-27-19
168-X-26-18
165-X-26-20
158-X-25-18
145-X-25-17
148-X-25-17
143-X-25-17
145-X-24-16
143-104-35-15
125--104-38-15

No	Name	Date	Sex	Locality
45819 ✓	Eutamias	July 27	♀	4.5 mi N.E. of Migo
430 ✓		"	♀	"
46224 ✓	Eutamias	"	♀	"
431 ✓		"	♂	"
45961 ✓	Microtus (long tailed)	"	♂	"
432 ✓		"	♂	"
46225 ✓	Eutamias	"	♂	"
433 ✓		"	♂	"
45962 ✓	Microtus	"	♂	"
434 ✓		"	♂	"
45638 ✓	Ochotona	"	♂	"
435 ✓		"	♂	"
45775 ✓	Citellus	July 28	♀ juv	"
436 ✓		"	♂ "	"
45776 ✓		"	♂ "	"
437 ✓		"	♀ "	"
45777 ✓		"	♀ "	"
438 ✓		"	♀ "	"
45778 ✓		"	♀ "	"
439 ✓		"	♀ "	"
45779 ✓		"	♀ "	"
440 ✓		"	♀ "	"
45780 ✓		"	♀ "	"
441 ✓		"	♂ juv	"
45781 ✓		"	♀ juv	"
442 ✓		"	♀ juv	"
45782 ✓		"	♀ adol	"
443 ✓		"	♀ adol	"
45783 ✓		"	♀ adol	"
444 ✓		"	♀ adol	"
45784 ✓		"	♀ adol	"
445 ✓		"	♀ adol	"
45785 ✓		"	♀ adol	"
446 ✓	Eutamias	"	♂	"
45786 ✓		"	♂	"
447 ✓		"	♀	"
45639 ✓		"	♀	"
448 ✓	Ochotona	"	♀	"
45640 ✓		"	♀	"
449 ✓		"	♀ juv	"
46226 ✓		"	♀ juv	"
450 ✓	Eutamias	"	♀	"
46227 ✓		"	♀	"
451 ✓		"	♂	"
45963 ✓		"	♂	"
452 ✓	Microtus (long tailed)	"	♀	"
45964 ✓		"	♀	"
453 ✓		"	♀ juv	"
45965 ✓		"	♀ juv	"
45573 ✓	Shrew (long eared)	"	♀	"
45785 ✓		"	♀	"
455 ✓	Citellus	"	♂	"
45786 ✓		"	♂	"
456 ✓		"	♂ juv	"
46471 ✓		"	♂ juv	"
457 ✓	Fat tailed shrew	"	♂	"

140-110-36-15
122-30-17-16
105-30-19-14
102-28-19-13
115-39-18-14
167-X-25-20
200-95-46-11
210-95-48-11
200-85-45-9
204-93-46-10
200-85-44-10
160-68-43-8
173-75-45-9
185-80-44-9
203-85-47-10
235-95-45-11
135-100-37-17
127-100-34-17
160-X-24-16
135-X-23-17
103-26-17-16
105-25-20-15
118-34-19-14
87-23-20-10
72-32-14-7
225-105-50-11
200-85-45-10
purchased skin

No	Name	DATE	SEX	LOCALITY			
458 45787	Citellus	July 29	♂ juv	4.5 mi N.E. of Aboga	no specimen	220-100-50-18	discarded
459 45788	"	"	♂ "	"		215--100-48-9	
460 45789	"	"	♀ juv	"	no specimen	200-88-45--10	discarded
461 46228	"	"	♀	"		222-100-45--10	
462 46229	Eutamias	"	♀	"		100-25-19-14	
463 46230	"	"	♂ juv	"		87-23--18-14	
464 46231	"	"	♀ "	"		83-23-17-14	
465 45789	"	"	♂ "	"		88-23-18-14	
466 45641	Citellus	"	♀	"		210-95-45-13	
467 45642	Ochrotina	"	♀	"		170-X-27-18	
468 45643	"	"	♀	"		155-X-26-19	no skull
469 45644	"	"	♀	"		160-X-26-18	" "
470 45645	"	"	♀	"		165-X-26-18	
471 46232	"	"	♀	"		150-X-27-18	
472 45766	Eutamias	8 "	♂	"		122-30-18-14	
473 45767	Microtus (longtailed)	"	♀	"		105-27-20-13	
474 45768	"	"	♂ juv	"		100-30-20-13	
475 45740	"	"	♀	"		125--36-20-15	
476 45791	Citellus	July 30	♂	"		230-105-50-11	
477 45792	"	"	♀ adol	"		220-100-45-10	
478 45793	"	"	♂ juv	"		205-97-48-9	no skull
479 45794	"	"	♀ adol	"		195-82-47-9	
480 45795	"	"	♂ juv	"		200-100-46-8	
481 45796	"	"	♀ adol.	"		210-95--50-9	
482 45797	"	"	♀ "	"		215-95--47-10	
483 45798	"	"	♂ juv	"		215-110-50-9	
484 45799	"	"	♂ "	"		205-110-49-10	
485 45646	Eutamias	"	♂	"		135-100-48-16	
486	Ochrotina	"	♀ juv	"		143-X-26-17	

No	Name	DATE	SEX	LOCALITY
46233 487 ✓	Eutamias	July 30	♀	45 mi n.e. of Olga
46234 488 ✓	"	"	♂	"
45744 ✓ 489	Citellus	"	♀	"
45800 ✓ 490	Citellus	"	♀	"
491 ✓	"	"	♀ juv	"
46235 ✓ 492	"	July 31	♀	"
46236 ✓ 493	"	" "	♂	"
46237 ✓ 494	"	" "	♂	"
46238 ✓ 495	"	" "	♂ juv	"
45969 ✓ 496	Microtus (long tailed)	" "	♂	"
45970 ✓ 497	"	" "	♂	"
45971 ✓ 498	"	" "	♂	"
45972 ✓ 499	"	" "	♀ juv	"
46411 ✓ 500	Capreolus	" "	♂ juv	"
45973 ✓ 501	Microtus (long tailed)	Aug 1st	♂	"
45974 ✓ 502	"	"	♂	"
45975 ✓ 503	"	"	♀	"
45976 ✓ 504	"	"	♀	"
45374 ✓ 45375 505	Long eared shrew	"	♂	"
46239 ✓ 506	Eutamias	"	♂	"
46240 ✓ 507	"	"	♂	"
45977 ✓ 508	Microtus	"	♂	"
509 ✓	Citellus	"	"	"

Measurements
112-27-18-15
103-27-17-14
220-95-47-11
215-90-47-10
skeleton only Presented to Dr. J. G. Anderson
110-25-18-14
95-23-18-14
92-23-18-16
88-24-18-12
118-35-19-14
113-30-20-12
100-35-20-13
85-17-15-9
33"-1/2"-12"-4 1/2" Inches
95-31-19-12
105-35-20-14
115-40-20-14 - skull
125-37-19-15
70-30-12-7
115-30-20-19
100-20-19-14
125-20-18-12
skeleton only Presented to Anderson

46412	x Capreolus	♀ ad.	
563	"	♂	
46413	"	♀ ad.	
564	"	♂	
46414	"	♀ ad.	
565	"	♂	
46485	moschus	♂	
566	"	♂	
45801	scurus	♂	Aug 4
567	"	♂	Aug 7
45802	"	♂	Aug 5
568	"	♂	" 6
45825	cutarras	♀	" "
569	"	♂	
45703	manistardunta	♂	
570	"	♀	
45704	"	♂	
571	"	♀	
45705	"	♂	
572	"	♀	
45706	"	♂	
573	"	♀	
45025	micurus	♂	Aug 8
574	"	♂	
46026	"	♀	
575	"	♀	
46027	"	♀	
576	"	♀	

Inches

49"-x-15³/₄"-6"-33¹/₂" (width at shoulder)

46"-x-15"-5¹/₂"-30¹/₂"

35¹/₂"-1¹/₂"-12¹/₂"-4¹/₄"-22³/₄" skin & skeleton

9¹/₂"-7"-2³/₈"-1¹/₈"

no measurements

Inches

19¹/₂"-5¹/₂"-4"-1¹/₄"

16"-5¹/₂"-3¹/₂"-7¹/₈"

13¹/₂"-3¹/₂"-3"-5¹/₈"

13¹/₂"-4"-3¹/₄"-5¹/₈"

46028	577	Microtus	Aug 8	♀
46029	578	"	"	♀
46030	579	"	" 9	♂
46031	580	"	"	♂
46032	581	"	"	♀
46033	582	" " small	"	♂
46241	583	Eutamias (red)	"	♂
46242	584	"	"	♀
46243	585	Eutamias? (brown)	"	♂
46244	586	" "	" 10	♀
46245	587	Eutamias (red)	" "	♂
46246	588	" "	" "	♂ juv.
46247	589	" "	" "	♂ juv.
45647	590	Ochrotoma	" "	♀
46415	591	Capreolus	" "	♂ juv.
46034	592	Microtus	" "	♀
46035	593	"	" "	♂
46248	594	Eutamias red	" "	♂
46249	595	" "	" "	♂ juv.
46250	596	" "	" "	♂ juv.
46251	597	" "	" "	♂
46036	598	Microtus gray headed	"	♀
46037	599	" "	"	♀
	600	Ochrotoma	"	♀
	601	" "	"	♀
46252	602	Eutamias	"	♂
46253	603	"	"	♂
46254	604	"	"	♀
45426	605	Eutamias	" 12	♀

125-48-21-14	"
130-40-21-14	125-48-21-14
96-35-20-13	130-40-21-14
	96-35-20-13
	86-18-16-11
	115-35-19-16
	100-25-19-15
	78-16-17-11 no skull
	100-25-19-13
	95-27-18-19
	85-24-18-15 no skull
	90-25-17-15 formalin
	153-X-26-19
	32 1/2"-X-12-4 1/4
	formalin
	skeleton only Presented to Anderson
	100-25-17-15
	86-26-18-13
	80-23-19-13
	78-19-18-11
	100-13-15-11
	110-13-17-11
	skeleton Presented to Anderson
	" " " "
	formalin
	"
	102-30-18-16
	145--100-36-17

46039 ✓ 606	microtus (grey headed)	Aug 12	♂
45577 ✓ 607	Shrew	"	♀
46255 ✓ 608	Eutamias (red)	"	♂ juv
46256 ✓ 609	" "	"	♀ "
46257 ✓ 610	" "	"	♀ "
46258 ✓ 611	" "	"	♀ "
46039 ✓ 45257 612	Two species same no		
46041 ✓ 45260 613	"		
45427 ✓ 45261 614	"		
45645 ✓ 615	Ochotona		
46042 ✓ 46043 616	"		
45649 ✓ 46044 617	Ochotona, microtus)		
45650 ✓ 618	Ochotona		
46045 ✓ 619	"		
46262 ✓ 620	"		
46263 ✓ 621	"		
46264 ✓ 622	"		
46046 ✓ 623	"		
46265 ✓ 624	"		
45578 ✓ 625	"		
46047 ✓ 626	"		
46267 ✓ 627	"		
46266 ✓ 628	"		
46416 ✓ 629	Capreolus	Aug 13	♂ juv
46048 ✓ 630	"	"	"
46273 ✓ 631	"	"	"
46049 ✓ 632	"	"	"
46050 ✓ 633	microtus	"	"
46268 ✓ 634	Eutamias (brown)	Aug 14	♂ juv
46269 ✓ 635	" red	"	♀ "
	" "	"	♂ juv

110-15--16-12
65-29-12-9

skin skull & leg bones

90-24-20-14
70-19-16-12
70-20-17-12

46272	636 ✓	Evotomys	Aug 17	♀
45579 ✓	637 ✓	shrew long-eared	"	♀
45634	638 ✓	Ochrotoma	"	♀?
	639	"	"	♀?
46274 ✓	640 ✓	Evotomys red	"	♂ juv
46272 ✓	641 ✓	"	"	♂ "
46271 ✓	642 ✓	"	"	♂ "
46275 ✓	643 ✓	"	"	♀ "
46276 ✓	644 ✓	"	"	♂ "
46277 ✓	645 ✓	"	"	♂ "
45691	646 ✓	Ochrotoma	"	♀? juv

formalin
 60-29-13-6
 148--X-24-17
 skeleton Presented to Andersen

No	Name	Date	Sex	Locality	MEASUREMENTS	REMARKS
46417 746	Capreolus	Aug 20	♂	60 mi N.E. of Muga		skin skull & leg bones
46407 747	Cervus	" 21	♀	"	80 - 5 1/4 - 24 - 9 - H. 25.51	" "
46408 748	"	" "	♂ juv	"	55 - 4 - 19 1/2 - 7 - " 40 1/2	" "
49418 749	Capreolus	" 22	♂	"	46 1/2 - 1/2 - 14 3/4 - 5 1/2 - 31	" " "
46406 750	Moschus	" 24	♀	"	33 1/2 - X - 12 3/4 - 4 - 23 1/4	" " "
46419 751	Capreolus	" 25	♀	"	49 1/2 - X - 14 1/2 - 5 1/4 - 30 1/2	" " "
46420 752	"	" "	♂	"		" " "
46421 753	"	" "	♀	"		" " "
46422 754	"	" "	♂ juv	"		" " "

No	Name	Date	Sex	Locality
46423 755 ✓	Capreolus	Aug 27	♂	60 mi N.E. of Urya
46404 756 ✓	Sus	"	♀ ad	"
46424 757 ✓	Capreolus	-	♂	"
46425 758 ✓	"	-	♂	"
45803 759 ✓	Sciurus	Aug 21	-	"
45804 760 ✓	"	"	-	"
45805 761 ✓	"	"	-	"
46409 762 ✓	Alces	11 25	♀ ad	"
45803 763 ✓	Canis	-	-	Urya
45523 762 ✓	Shrew	-	♀	15 mi N. of Urya
45524 763 ✓	"	-	♂	"

46426 961 ✓	Robin	Aug 20	♂ juv	15 mi N. E. of Urya
46427 962 ✓	"	"	♀ juv	" "
45809 963 ✓				"
45810 964 ✓				"
965 ✓				"

MEASUREMENTS

REMARKS

skin + skull

49 1/2 - 7 - 12 - 4 - 29 " " + leg bones

~~horns~~ antlers only

" "

skin + skull

"

"

"

45404 ✓
1008 ✓ *Meriones*

45405 ✓
1009 ✓ "

1010 ✓
45406 ✓
1011 ✓ "

1012 ✓
45407 ✓
1013 ✓ "

45408 ✓
1014 ✓ "

45409 ✓
1015 ✓ "

45410 ✓
1016 ✓ "

45411 ✓
1017 ✓ "

45412 ✓
1018 ✓ "

1019 ✓
1020 ✓ "

45413 ✓
1021 ✓ "

45414 ✓
1022 ✓ "

45415 ✓
1023 ✓ "

45416 ✓
1024 ✓ "

45417 ✓
1025 ✓ "

1026 ✓
1027 ✓ "

45418 ✓
1028 ✓ "

45419 ✓
1029 ✓ "

45420 ✓
1030 ✓ "

45421 ✓
1031 ✓ "

45422 ✓
1032 ✓ "

45423 ✓
1033 ✓ "

45424 ✓
1034 ✓ "

45444 ✓
1035 ✓ *Cricetulus triton incanus?*

45445 ✓
1036 ✓ "

45446 ✓
1037 ✓ "

Oct. 16

Kuei-hua-cheng

♀

♀

♀

♀

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115-90-30-14

125-95-28-15

123-88-30-14

120-95-29-14

120-80-29-13

120-95-30-13

125-93-30-14

120-94-28-15

115-95-30-14

109-90-29-14

105-85-20-13

123-95-30-15

108-85-20-14

113-90-30-14

105-95-30-14

113-83-29-13

130-90-30-14

123-82-27-14

123-X-30-14

115-20-17-16

113-25-17-18

109-25-16-16

These gerbils were living in great colonies on the Kuei-hua-cheng plain. Almost every bank or dyke along the road & in the fields was honey combed with their burrows which consist of a perfectly round shaft about 2 in diameter going into the ground at a rather abrupt slant. The little fellows are playing about in the sunshine & small footpaths run into their holes when we approached only to pop out again almost immediately & gaze at us. We killed them all with our barrels, they would struggle into their holes again when almost dead, & they are apparently entirely diurnal for traps set at their holes at night yielded only 3 burrowers. The latter must have been living in the same burrows.

	Name	Date	Sex	Locality
45365 ✓ 1067	Lepus s. Smerbyae?	Oct 24	♀	Kwei-kwa-cheng, Shansi
45366 ✓ 1068	"	"	♂	"
45367 ✓ 1069	"	"	♂	"
45354 ✓ 1070	Mustela sibirica	" 28	♀	"
45449 ✓ 1071	Cricetus	Nov 1	♂	" mu tai hai
45429 ✓ 1072	Microtus	"	♂	"
1073 ✓	Cricetus	"	♀	"
1074 ✓	"	"	♂	"
45430 ✓ 1075	Microtus	"	♀	"
45428 ✓ 1076	Meriones	"	♀	"
45470 ✓ 1077	Arvicol	"	♂	"
45450 ✓ 1078	Meriones	" 2	♂	"
45451 ✓ 1079	"	" 1	♂	"
45431 ✓ 1080	Microtus (brown)	" 1	♀	"
45368 ✓ 1081	Lepus	" 1	♀	"
45325 ✓ 1082	Apodemus? brown	" 3	♂	"
45432 ✓ 1083	Microtus	" 4	♂	"
45366 ✓ 1084	Apodemus?	" 4	♂	"
45452 ✓ 1085	Meriones	" 4	♂	"
45452 ✓ 1086	Meriones	" 4	♂	"
45433 ✓ 1087	Microtus	Nov 5	♂	"
45434 ✓ 1088	"	"	♂	"
45474 ✓ 1089	Capreolus bedfordi	Nov 5	♀	"
45475 ✓ 1090	"	"	♂	"
45476 ✓ 1091	"	"	♂	"
45441 ✓ 1092	Craxomys	" 6	♂	"
45442 ✓ 1093	"	"	♂	"
45443 ✓ 1094	"	"	♂	"
45387 ✓ 1095	Apodemus	"	♀	"
45471 ✓ 1096	Arvicol	"	♂	"

Measurements

250-198-55-20

♀ 78" - H. 5.5-2 1/2" - Ear 8" - H. H 24" Rca + HRC

85 - 24 - 16 - 13

90 - 30 - 16 - 16

113 - 20 - 18 - 8

400 - 70 - 120 - 80

105 - 90 - 22 - 15

Rca

Rca

HRC

105 - 25 - 20 - 15

106 - 30 - 20 - 14

106 - 27 - 21 - 13

100 - 80 - 24 - 15

HRC

	Date	Sex	Locality
45488 1091 ✓	Nov. 7"	♀	River Luan-chung
45477 1098 ✓	"	♀	"
45478 1099 ✓	"	♀	"
45479 1100 ✓	"	♂	"
45480 1101 ✓	"	♀ juv	"
45454 1102 ✓			
45455 1103 ✓			
45456 1104 ✓			
45457 1105 ✓			
45435 1106 ✓			
45436 1107 ✓			
45437 1108 ✓			
45388 1109 ✓			
45472 1110 ✓	Nov. 9	♂	
45481 1111 ✓	"	♂	
45458 1112 ✓			
45488 1113 ✓			
45459 1114 ✓			
45460 1115 ✓			
45482 1116 ✓	Epis. Nov 10		
45439 1117 ✓			
45440 1118 ✓			
45481 1119 ✓	Epis Nov 11		
45488 1120 ✓	♀	Dr. H. H. Shun, Shansi	
45375 1121 ✓	♂	"	"
45461 1122 ✓	♂	"	"
45462 1123 ✓	♂	"	"
45376 1124 ✓	♂	"	"
45371 1125 ✓	♂	"	"
45488 1126 ✓	♂ juv	"	"

Measurements	
39" - 5 1/2" - 10 3/4" - 5"	HRC
45" - X - 13 1/2" - 5 1/2"	RCA
45 1/2" X - 13 1/2" - 6"	HRC
46" - X - 13 1/2" - 5 1/2"	R.C.A
33 1/2" - X - 12" - 5"	R.C.A
73" - 4" - 34 - 7 1/4" - 4 1/2"	RCA
	RCA
	RCA
	RCA
165 - 65 - 25 - 18	
125 - 145 - 29 - 20	
97 - 30 - 19 - 15	
98 - 28 - 17 - 15	
220 - 135 - 50 - 20	
195 - 140 - 50 - 20	
	RCA

45463	✓	Cricetulus	Dec 5	♀	He-shan Shan
1127	✓		"	♀	"
45389	✓	Apidemus	"	♀	"
1128	✓		"	♀	"
45376	✓	Brown Rat	116	♂	"
1129	✓		"	♂	"
45377	✓	"	"	♂	"
1130	✓	"	"	♂	"
45378	✓	"	"	♂	"
1131	✓	"	"	♂	"
45379	✓	"	"	♂	"
1132	✓	"	"	♂	"
45380	✓	"	"	♂	"
1133	✓	"	"	♂	"
45381	✓	"	"	♂	"
1134	✓	"	"	♂	"
45382	✓	"	"	♂	"
1135	✓	"	17	♀	"
45383	✓	"	"	♀	"
1136	✓	"	"	♀	"
1137	✓	"	"	♀	"
45384	✓	"	"	♀	"
1138	✓	"	"	♀	"
45385	✓	"	"	♀	"
1139	✓	Cricetulus	"	♀	"
45372	✓		"	♀	"
1140	✓	Sorex	18	♂	"
45468	✓	Grand Hamster?	"	♂	"
1141	✓		"	♂	"
45465	✓	Cricetulus	"	♀	"
1142	✓		"	♀	"
45466	✓	"	"	♀	"
1143	✓	"	"	♀	"
45467	✓	"	"	♀	"
1144	✓	"	"	♀	"
45496	✓	Sus	" 9	juv	"
1145	✓		"	juv	"
45465	✓	Capreolus	" 10	♂ juv	"
1146	✓	"	"	♂ ad	"
45497	✓	Sus	" 16	♀ juv	"
1148	✓	"	"	♀ ad	"
45498	✓	"	"	♀ ad	"
1149	✓	"	"	♀ ad	"
45600	✓	Bat	Dec 2		Wan Ping Hien
1150	✓	"	"		"
45601	✓	"	"		"
7151	✓	"	"		"
45286	✓	Lepus	Nov 24	♀	Peking
1152	✓	"	"	♀	"
45287	✓	"	"	♀	"
1153	✓	"	"	♀	"
45288	✓	"	"	♀	"
1154	✓	"	"	♀	"
45289	✓	"	"	♀	"
1155	✓	"	"	♀	"

95-30-17-17
 95-95-25-15-
 125-113-29-18
 140-152-30-20
 130-143-30-20 no skull
 148-150-30-22
 130-150-30-20
 133-150-29-19

no skull

133-52-22-16
 90-28-18-15-
 85-32-15-14
 90-30-17-15-

skin & skull

57-9 1/4 - 8 1/2 - 4 1/4 - 32

no skull

45499 1156 ✓	Sus	Dec 10	♀ ad	He-shui-shan
45292 1157 ✓	Ursus	Dec 15	ad	Tung-ling, Chihli
45283 1158 ✓	"	"	juv	" " " "
45348 1159 ✓	Capreomys argyrorhatus	Sep 19	♂	Tung-ling Che-kiang Prov.
45349 1160 ✓	"	" 23	♂	" " " "
45344 1161 ✓	Muntiacus	Sept 25	♂	" " " "
45345 1162 ✓	"	Nov 7	♂	" " " "
45336 1163 ✓	Momogloss	111	♂	" " " "
45337 1164 ✓	Paguma larvata larvata	115	♂	" " " "
45333 1165 ✓	Racomys?	" 20	♀	" " " "

skin & skull - no label on skin or skull
 " " " " " " " "

Continued on page 76

Field No-	Name	Metal Number	Date, sex	Locality
45502 1166	Putorius	18	Dec 19 ♀	Yenping Fukun
45511 1167	Xiverra zibetha	4	June 7 ♀	Futsing
45512 1168	" "	5	" " ♀	
45515 1169	Mungos	3	" 16 ♀	
45516 1170	" [Herpestes urva]	6	July 10 ♂	
45517 1171	"	7	" 17 ♂	
45518 1172	"	8	" 22 ♀	
45519 1173	Tiger	1	May 13 ♂	
45522 1174	Eutamias	15	Dec 13 ♀	Yenping
45523 1175	"	16	" " ♀	
45524 1176	Rat	20	Dec 26	
45525 1177		24	" 30	
45526 1178		34	Jan 3 1920	
45527 1179		36	" 7 " ♂	
45528 1180		12	Dec 11 ♂	
45529 1181		13	" " ♂	
45530 1182		14	12 ♀	
45531 1183		21	26 ♀	
45532 1184		22	27 ♀	
45533 1185		23	" ♂	
45534 1186		25	31 ♂	
45535 1187		26	" ♀	
45536 1188		27	Jan 1, 1920 ♀	
45537 1189		28	" ♀	
45538 1190		29	" ♂	
45539 1191		30	" ♀	
45540 1192		31	" ♀	
45541 1193		32	" ♂	
45542 1194		33	3 ♀	
45543 1195		35	7 ♀	

Field No.	Name	Metal No	Date	Sex	Locality
45544 1196	Rat	37	Jan 7, 1920	♀	Yungping Fuhien
45545 1197		38	"	♀	
45546 1198		39	"	♀	
45547 1199		40	"	♂	
45548 2000		41	9	♀	
45549 1201		42	"	♂	
45550 1202		43	"	♂	
45551 1203		44	"	♂	
45552 1204		45	12	-	
45553 1205		46	"	♂	
45554 1206		47	"	♀	
45555 1207		50	13	♂	
45556 1208		51	"	♀	
45557 1209		52	"	♂	
45558 1210		53	14	♂	
45559 1211		54	"	-	
45561 1212	Porcupine	2	June 6 1919	♂	Futung Fuhien
45562 1213	"	19	Dec 23	♀	
45568 1214	muntricus	11	June 7	♂	
45569 1215	"	10	July 20	♀	
45570 1216	"	9	" 22	♂	

G. teneb. Saw none north of Tumi - south of
 Pantaleo Panjan on plain & till Tumi antelope
 G. sub. mostly of this species - smaller & darker
 gutturosa than G. gutturosa (very conspicuous)
 and carries long tail straight up from
 body at rt. 15. These animals seem to
 prefer the more sandy portions of Gobi
 and especially to live among the "stigger
 heads" or bunch grass. Those we shot
 on way to Mega had two deep & conspicuous
 glands on ^{the} anterior side of testis - G. gutturosa
 does not have these glands. A important
 difference I think. On Panjan plain
 chased me herd containing both species
 running together - never saw that before
~~and~~ ^{and} carrying young of about same
 size & probably give birth at same time.

Mongolian
Antelope
O. gutturosa

On June 27 I shot a ♀ which had given birth to a young one only a few moments before. She could run apparently as rapidly as ever but circled about & was loath to leave the spot.
On June 29 we discovered several young antelope on the big plain just 20 mi north of Turin. These little fellows ^{could} only have been born two or three days. We discovered them by accident for they lay flat in the short grass with neck outstretched and did not move till our horses were within ten feet of them. The first one then jumped up and sped off at a tremendous gallop - with its white rump looked just like a jack rabbit - often leaped as do the old ones. Put my horse after it and tho' he could overtake it when he was doing his very best, the little fellow dodged so rapidly that it got away. Even after a chase of about 2 miles it seemed not in the least tired & ran as fast as ever. When we were very close gave a squeaking cry - ran with ears laid straight back - old ones carry ears up & back so that they look like horns & very difficult to tell difference.

On July 2 I shot an antelope carrying young ready for birth. The little fellow I chased on June 29 had the umbilical cord still visible altho' dry - about 3" of it -

Does do not give birth young till the second summer after they are born -

In other words a doe born in ~~late~~ June of 1919 will not have young till spring of 1921. We shot several which had been born a year before. Apparently only one young at a time - never found 2 fetuses. Tho' teats well developed however.

On June 27 found enormous herd on plain north of Turin - about 4000 antelope. Mongols said grass further south was drying up & animals moving north to better grazing. Think this correct as we had every day to go further north on plain for antelope.

Young born right out on flat plain & trust to speed & hiding for protection - wolves must get a good many. When young about adults will not run far away but circle about for several miles.

Young do not begin to run with adults till about a week or ten days after birth - first one we saw with adults was on July 2.

At this time ^{ad.} bucks live mostly alone among hills & out on plain. On June 20 shot ad. buck with head of about 20 but think this unusual - Probably bucks with larger heads. Never saw bucks near females which were grazing young. Shot 3 young bucks out of herd.

Where rams & consequently Mongol herds seldom find antelope - Antelope hit in hind leg cannot run far or fast - hit in fore leg will take very fair horse to catch if catch at all -

Harems - Run about in daytime & just before dark I caught one in hands - can not remember live in holes in grassy plains - Kang caught one - feet heavily furled - caught some at entrance to fairly large holes & some at very small holes - Caught them as far south as 30 mi from Timor our furthest south camp.

otted Gophers - Live along base of hill in main valley of Talleche River - found them only here except in one place beside a ^{stream} coming up to Talleche River - Live in usual colonies

Microtus - Live in colonies & make the usual distinct runways - it being that the *Microtus* caught at all camps on the southern trip are the same species & if so there is an enormous color variation - caught many in traps between sun down & dark.

Short tailed Microtus - On one hill side among gopher holes caught only this *Microtus*. On a hill side a few hundred yards away caught only the long tailed *Microtus* which also lives in woods & in bushes beside stream.

Comps - At our camp on the Talleche River 45 mi from Ulega, brown wood crickets were very plentiful - live in loose moss around rocks at base of hills & on hill sides - made very distinct runways, between holes, about 3" wide & 1" deep - did only see one dead I see grass but as in N. Am. comes - this ~~one~~ had several little bundles of grass at entrance to hole but none heaped up in pellets - Forverby says he never saw it in Chinese combs. Animals very tame - will sit motionless on rock until one is 8 or 10 feet away then dive in. Make a very high pitched squeak, like "tseef".

Evotomys chipmunk - Red backed *Evotomys* live in same places & also chipmunks & I often caught them in cony traps. *Evotomys* also live further down hill in thick grass on the woods. Comes out mostly in daytime I think - not come to bait on traps but catch in runways -

Marmots. Manu saw marmots (*Marmota robusta*) at Turin among the rocks but there are not many here. He says none go south of Turin at all. We saw our first one 23 miles north of Turin on the big grassy plain & the animals became more plentiful as we neared Ugea - a good many all the way about Ugea - Mungols eat them - sell millions of skins every year - Distance from Ugea to Turin is 170 miles and Turin is certainly the southern limit of the animals - Animals live in villages of sometimes singly but seldom. will lie flat on ground like a stick, absolutely motionless - sometimes with head just out of hole - run rapidly for hole & then stop difficult to get unless kill dead for get into hole.

On the Turin plain we saw a rabbit (hare) & marmot together - fixed at marmot several times and rabbit would not leave - it ran only a few yds & stopped & killed both - marmot was some distance from hole - neither seemed to want to leave the other - white

Young marmots about size of prairie dog in June 17 - play about on top of hole like kittens -

Caught pole cats in marmot holes probably going in to catch young

Marmots whistle sharp & in very high key - sometimes stand straight up and duck head each time whistle - when July 9 when we returned seemed to have taken on short gray coat & lost yellow fur of spring - not savage - do not attempt to fight much when caught - very stingy - very difficult to pull out of hole -

Hares. Saw several on plain & sometimes in burnt grass - will stop & try to hide if not chased - when first put up - usually singly - only one saw two together - not abundant -

Col. Camp # I

In grassy rolling plains - the earth is free from sand & covered with very thick grass. This camp was just at the edge of a flat plain 33 miles across. On this plain there was a ~~top~~ light surface layer of fine gravel, but good earth beneath. The grass was long but much thinner than at Camp # I where there was no surface gravel.

This light gravel continued all the way to Turin & thence on into the Gobi Desert ~~the~~ becoming heavier & the grass sparser as the desert area is entered more deeply.

Thus the Gobi begins so very gradually that it is difficult to say just where it really starts but Mr. Larren ~~and he~~ says that he considers it to properly begin at Turin 170 miles from Ula & agree with him. There is much less rain fall on the last 70 miles toward Turin than there is at Ula.

The Bogd-ol which is a ^{prominent} ~~long~~ mountain ridge with covered with heavy forest extends ^{generally} east & west for about 25 miles, at its western end it gradually lowers

It becomes more rocky - here the forest disappears. The hills are forested apparently only on the northern slope - at least such is the case on the eastern portion.

This mt. ridge seems to be responsible for much rain in the Unga valley than falls on the southern side. The clouds empty themselves before they go over the summit.

I should say as a first impression, that Turin marks the transition area between the Siberian & Gobi Desert life zones. The mammals stop there, the gopher & antelope does not appear north of Turin, which the sparrow & field lark & other birds south of Turin I cannot say - also I cannot say if the Alactaga goes further south but I imagine it does.

Gophers On way from Hem-a-ho to Panyin we camped 90 mi from Hem-a-ho and killed 18 specimens between these points - probably Citellus mongolicus. The animals were very plentiful here but after leaving this camp we saw only 2 or 3 during the next 100 miles - this is probably the limit of distribution. The animals are living together but not in extensive villages, closely placed, as our prairie dogs at home.

On the Hde plain (about 30 miles beyond Hde) we came into the home of another species & killed six - none between these points.

Then no more until about 20 miles south of Unga where another species appeared. Killed one with rifle. These three species are very distinct & can not interbreed as ranges do not overlap. This last species is confined to a very short area. It begins about 20 miles from Unga and continues for about 15 miles south - we saw none after 35 mi from Unga. They are not abundant & are scattered even in the area they do inhabit - How far east or west they go, I can't say.

No	Name	DATE	SEX	LOCALITY	
20	<i>Nuttall's formosum</i>	Mar 21	♂	Peking	
31	<i>Otis dybowskyi</i>	" 22	♀	Shan-tsu, Chihli Prov.	Weight 16 1/2 lbs
32	<i>Nuttall's formosum</i>	" 23	♀	Peking	
33	<i>Emmetta falcata</i>	" 25	♂	"	
34	Seamup	" 26	♂	"	
35	<i>Nuttall's formosum</i>	" 28	♂	"	
36	<i>Casarca casarca</i>	" "	♀	"	
37	<i>Microrisops cinereus?</i>	" 29	♀	"	legs yellow, bill yellow & black, iris red
38	<i>Emmetta falcata</i>	" "	♂	"	iris brown - legs slate blue
39	Anser	" "	♂	"	bill red on sides & on band across middle - pink stripe thru center of bill - legs ^{orange-yellow}
40	<i>Merula</i> sp	" "	♂	"	
41	" "	" "	♀	"	
42	<i>Syrnium nevesi</i>	Apr 14	♂	Tung-ling (East end Tientsin)	Chihli Prov.
43	<i>Puerasia pambolus</i>	" 15	♂	" "	" "
44	<i>Numenius cyanopus</i>	Aug 23, 1917	♀	Peking	" " gert
45	<i>Anthropoides virgo</i>	May 23	♂	Urga, Mongolia	iris red
46	" "	" "	♂	" "	" "
47	" "	" "	♀	" "	" "
48	" "	" "	♂	" "	" "
49	" "	" "	♂	" "	" "
50	" "	" "	♂	" "	" "
51	<i>Otis dybowskyi</i>	" 29	♂	" "	30 mi S.W. of Urga - gular sac blue
52	<i>Milvus melanotos</i>	" 28	♂	" "	" "
53	crow	" 29	♂	" "	" "
54	<i>Graculus graculus</i>	Apr 30	♀	" "	legs & bill orange red
55	" "	" "	♂	" "	" "
56	" "	" 31	♂	" "	" "
57	" "	" "	♂	" "	" "
58	" "	" "	♂	" "	" "

No.	NAME	DATE	SEX	LOCALITY	
59	<i>Colinus neglectus ^{damuricus?}</i>	May 31		Mongolia, Urga	
60	" <i>neglectus?</i>	" 29	♀	" "	
61	<i>Sterna</i>	" "	♀	" "	
62	"	" "	♀	" "	
63	<i>Corvus corax</i>	June 1	♀	" "	
64	<i>Colinus damuricus</i>	"	♂	" "	
65	" <i>neglectus?</i>	"	♀	" "	
66	<i>Anser cygnoides</i>	" 12	♂	" "	Tola River, legs orange yellow
67	"	" "	♂	" "	legs & bill bright yellow
68	"	" "	♂	" "	" "
69	"	" "	♀	" "	" "
70	<i>Anser cygnoides</i>	" 15	juv	" "	
71	"	" "	"	" "	
72	<i>Casarca casarca</i>	" "	"	" "	
73	<i>Amurville</i>	July 10	"	" "	50 mi S.E. of Urga
74	<i>Copercalle</i>	" 20	♀	" "	45 mi. north east of Urga
75	"	"	♂ juv	" "	

{ In heavy spruce forest on top of mt.
 ♀ had about 6 eggs with her

{ In marshy, moss covered flat, interspersed
 with alder & willow scrub - all forest
 sparse cover - no other adult birds, but
 6 or 7 young

Group D - Marmots (marmota robusta)
 Unga - Mongolia
 Time - Spring June
 Specimens in yellow spring pelage
 males, females & young
 Group either with or without a
 painted background. Probably
 will be better in a paper case
 to show the characteristic mound
 grass cover, with three or four
 holes. The adults & yg. to be sitting
 & playing about on top of mound.
 The yellow coated animals in
 the green grass will be very
 effective.

Group
EMt. Shufu (*Ovis jubata*)

Kwei-thua-shing N. Shensi

Time - mid October

Specimens - Same males from yesterday's track.
 No accessory material ~~for~~ was collected
 for now's necessary.

The rams are to stand at the spot
 marked X in the photo below. The
 knoll upon which they stand is
 covered with dry grass. The hills
 in the background are largely of
 granite & basalt. They are brown
 with reddish tinges in the rocks.



Bustard

weighed bustard from Shanhaikwan
full grown Jan. 5, - weight $17\frac{1}{4}$ lbs.

Jan. 13

Bustard weighed $13\frac{1}{2}$ } gutted

" 13

Bustard #31 weighed $16\frac{1}{2}$

I saw Bustard along Han River in Hupoh
Prov. between Saw-ho-kaw & Hankow. These
birds I saw three times, & once there were
seven on the sand dunes of the old river
bed apparently feeding as they were walk-
ing about. They kept fairly close together.
The second time I saw two bustards
together on the sand dunes & the third
time there were six. All appeared
to be feeding - extremely wild - took
wing when I was still 250 to 300
yds away. In Honan Prov. (about
the middle) I picked up a Bustard
feather in a wheat field but saw no
birds

May 22

On way to Uiga ~~after~~ just ^{after} Turin
saw ~~the~~ Bustards - ^{all} very wild -
when we came up in Sept. 1918 we
saw Bustards all along the way -

May 23

after passing Turin on the high plain
(grassy) lots of bustards were about.
Collman shot one a huge male weighing
35 lbs on scale at Uiga. The neck was
greatly enlarged - a conspicuous gular
patch was bare of feathers & colored
light blue - whiskers greatly developed.

Evidently this is due to mating season and the testes were enlarged. During the winter the specimens I got from Shan-hai-kuang had no gular patch & small necks.

I presume the birds must have moved north since we saw none below the Turin region - Cottman's bustard was scarce but others were in flocks.

When standing the birds are very erect with back almost at right angles to body.

Shot ~~see~~ another cock bustard on July 20. Female flew away & some time later saw cock on plain strutting about with drooping wings & spread tail just like a turkey cock. Gular patch & whiskers greatly developed & neck much swollen - badly torn by bullet. See Journal for hiding of ♀ when presumably near nest.

Almost as large as one Cottman shot on Turin plain but no means of weighing

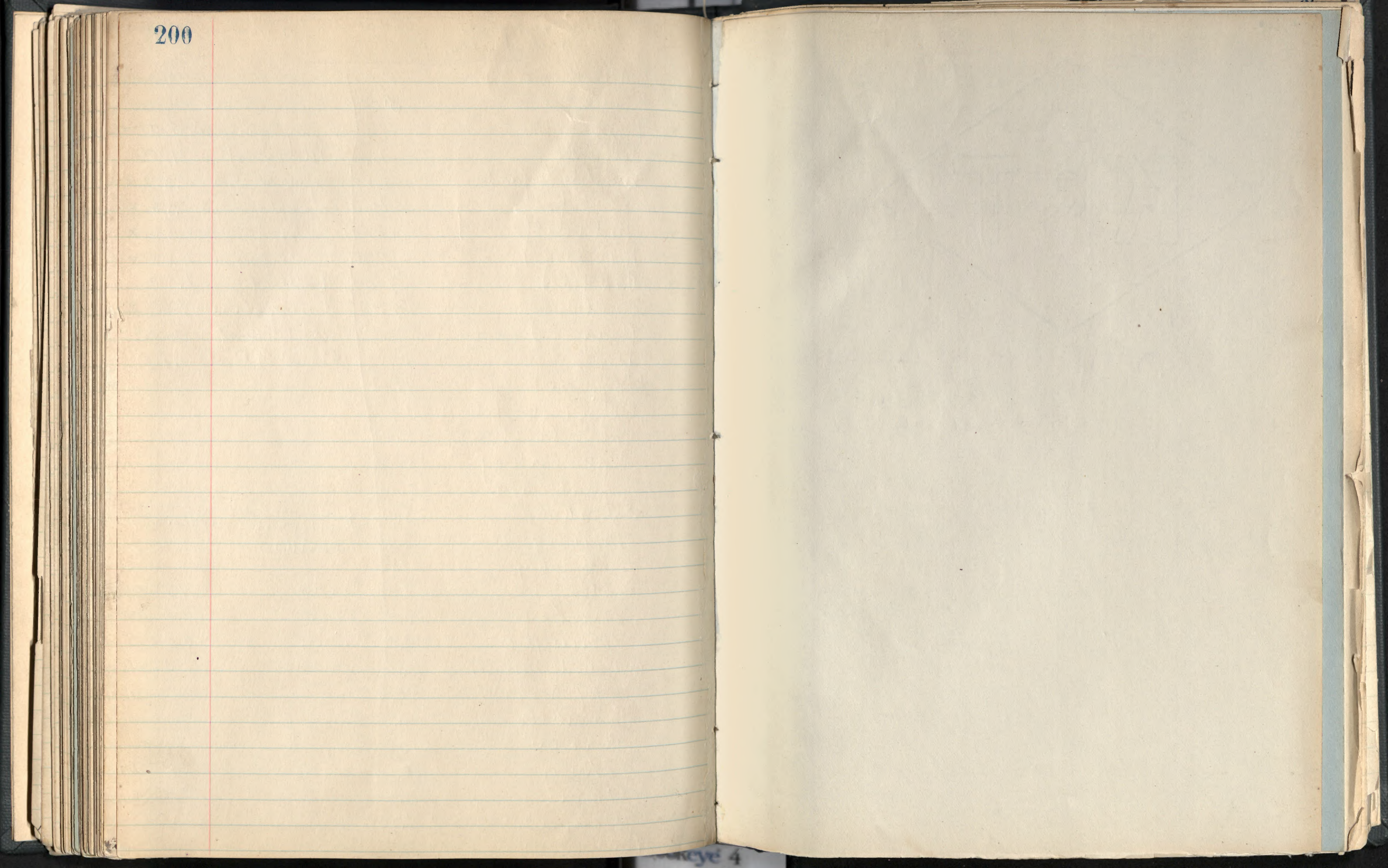
Cranes Demisele cranes were very abundant all across the desert of Urga - Usually in pairs but also in flocks - On the grassy plain just south of Urga saw about 50 cranes all feeding together - birds not wild - killed with shot gun - ♂ often dancing about ♀ with wings spread - eyes bright red - killed me at 55 yds - 5 paces off.

Capercaillie
July 20 - Found the ♀ with 6 young on top of nest in heavy spruce forest - ♀ let me come to within 10 ft. before she flew - my birds could fly short distance - they scattered in all directions hiding in the grass & bushes - ♀ flew into tree & I shot her - no sign of ♂ but next day saw a male ♂ fly out of tree with great whirr - a few days later saw 3 males, singly, each was on ground & flew up but did not alight - also saw 2 different ♀s with young about as big as prairie chickens - they were in the bush covered bog land at edge of wood.

July 27

Saw very few - only half a dozen flocks
 after leaving the - do not reach Turin
 when grassy plains begin - mostly
 in sandy part of desert - when came
 up in Sept. 19 saw hundreds of birds -
 July 2 Saw quite a good many in plain north
 of Turin in pairs & several flocks - mostly
 flocks - Saw a few pairs at Camp # 2 -
 some s. e. of mesa - some were fairly near

x	Cat (F. chumensis)	4.00	
x	Parus Cat	5.00	
x	Tiger	75.00	Flying Squirrel 5.00 x
x	Leopard	15.00	Marmot 4.00
x	Marble Leopard	20.00	Squirrels .50 x
x	Wolf	15.00	Micro Rats skins .50 x
x	Red Wolf	10.00	Bats (30 spec.) 5.00 x
x	Hill Dog	7.00	Porcupine 4.00 x
x	Red Fox	7.00	Rabbit 1.50
x	Wild Hog	15.00	Paragorilla 7.00 x
x	Bear full grown	30.00	Red Palm Civet 10.00
x	Badger	5.00	Bamboo Rat 1.00
x	Dog-nose Badger	7.00	
x	Civet (Common)	3.00	
x	Palm Civet	5.00	
x	Raccoon Dog	5.00	
x	Leopard Cat	7.00	
x	Small Cats	5.00	
x	Mongoose	2.00	
x	Crab-eating "	15.00	
x	Otter	7.00	
x	Monkeys	10.00	
x	Muntjac	3.00	
x	Crested Muntjac	15.00	
x	Lik (Deer)	50.00	
x	Sambur	100.00	
x	Serow	40.00	
x	Takin	100.00	
x	Goral	15.00	
x	Prasels (yellow)	1.50	
x	Bamboo "	2.50	
			Skin of skins without skulls
			Serow 15.00
			Goral 10.00
			Takin 50.00
			Sambur 50.00
			Lik 15.00
			Bear 20.00
			Leopard 12.00
			Marble Leopard 15.00
			Wolf kind 10.00
			Tiger (mountable) 60.00
			Boar 7.00



75
30
2250

20
75

Fenchon for 2 1/2 days of Tayan-fu

Go to Tayan-fu get carts 40

then get mules to mts. Kivai-lin-ti

carts 2 per day tenters 20. shall money

1 Pung-tung-sho - if snow
get off at yang-chua - if snow
get mules to He-shun - 2 days - 5
from there with 20 li - Li-chi-chun

1

Third Asiatic Expedition
of the
American Museum of Natural History

1603 number

Note. Many entries in this catalogue were copied in by R.C. Andrews from labels or catalogue of Mr. Pope (and others?) so that it cannot be assumed that Mr. Andrews was the collector of all specimens.

MAMMAL FIELD CATALOGUE

squirrel = sung-shoor
 snake " = hui - "
 maceave = shang-hu
 bay " = shan-sung
 nest = di-shoo
 - bat ^{bin-pu}
 bat ~~bin-pu~~
 hedgehog = steen we

ant = yang-ping

160 balls
 220 silver
 K&T 221

Lao Chang
 1 knife
 1 match box
 1 hatchet
 1 tent
 1 camp hat

wafiti place (Kweilina cheng)
 Nyur-soo - on motor road nearest to wafiti place
 about 10 mi. east of Salachu
 From Nyur-soo go by cart to Law-daw-goh
 which is 20 li
 Then by mule & donkeys to Taw-daw-goh which
 is camping place (missionary's camp)

I bet
 H si Pao Tou by car from Kweilina cheng
 then to Kwang Ye Kwei - (90 li) by carts
 Belgian Mission, Father de Wilde
 (Father Ernest Diekens)
 was there formerly

Sheep ground due north & north-east
 of the mission station from 5 to 15 li
 I bet ground ("Shih Yang") about 20 li
 to the west of station where hills cut up
 & are very rocky.

To get

Ridgways colors
candle lamp
traps
nets for fish
hooks

Ans 81"
T. 8 1/2"
H. at S. 5' 2 1/2"
H.F. 22"
T. 16 1/2"
T. to end hair 37

Index of measurements

1. Length of body - 2. length of tail (root to end of bone) 3. hind foot
heel to longest claw or nail - 4. ear, bottom of notch to tip
as example $\begin{matrix} \text{L.T.B.} & \text{I.T.P.} & \text{H.F.} & \text{E} \\ 50 & - & 72 & - & 40 & - & 18 \end{matrix}$
Measurements all in millimeters unless
otherwise stated

Collecting Camps in Mongolia 1919
(see card index for descriptions of camps)

- 1 Pang-khang
- 2 Iren Dabam (Mongol name) Erhlien (Chinese)
- 3 Tsetin
- 4 20 mi S.W. of Ugsa, Tola River valley
- 5 80 " W. " " " " "
- 6 30 " N.E. " Tze Tzen Wang
- 7 Tze Tzen Wang
- 8 40 mi S.W. of Tze Tzen Wang
- 9 Ongon River
- 10 Sain Noin Khan, alt. 7000 ft.
- 11 " " " " 8000 ft. (forest)

Note - See page 178 for description of country.

No	SPECIMEN	SEX	DATE	LOCALITY	Province	MEASUREMENTS
1	<i>Eutamias asiaticus?</i>	♀	July 31	Eastern Tsin	100 mi E. of Nkung, Chulili Prov.	135-120-40-18
2	" (grey species)	♂	"	"	"	140-X-33-15
3	"	♂	"	"	"	130-90-34-15
4	"	♂	Aug 1	"	"	142-88-35-16
5	"	♂	"	"	"	142-90-35-17
6	"	♂	"	"	"	140-93-32-16
7	36677 <i>Apodemus</i> (rat)	♂	"	"	"	143-129-30-21
8	56499 "	♀	"	"	"	160-142-28-22
9	"	♂	"	"	"	133-129-29-20
10	56495 "	♂	"	"	"	128-129-28-21
11	56492 "	♂	"	"	"	130-129-28-20
12	56494 " (mouse)	♂	"	"	"	120-113-28-19
13	56430 " mouse	♂	"	"	"	160-73-22-17
14	56437 "	♀	"	"	"	94-83-22-16
15	56429 "	♂	"	"	"	95-77-22-15
16	56447 "	♂	"	"	"	98-76-23-18
17	56423 "	♂	"	"	"	93-77-20-16
18	56432 "	♂	"	"	"	105-X-23-17
19	<i>Sciurus vulgaris</i>	♂	"	"	"	239-197-68-34
20	"	♀	"	"	"	240-175-70-35
21	"	♀	"	"	"	240-188-68-34
22	"	♂	"	"	"	221-135-64-35
23	<i>Surotamias davidianus</i>	♀	"	"	"	204-153-55-25
24	<i>Apodemus</i> (rat)	♂	"	"	"	128-125-29-20
25	"	♂	"	"	"	149-132-27-21
26	"	♂	"	"	"	128-125-28-21
27	56493 "	♂	"	"	"	129-122-28-20
28	"	♂	"	"	"	163-144-29-20
29	56500 "	♂	"	"	"	140-123-27-20

These two species living together in exactly the same environment, and have similar habits

(See page 176 for field notes)

Label off

No	Specimen	Sex	Date	Locality	Province	Measurements
30	⁵⁶⁶⁷⁸ Apodemus	♀	Aug 2	Eastern Tondo	100 mi E of Palany, Chilibi Prov.	127-115-28-20
31	⁵⁶⁶⁷⁰ "	♂	"	"	"	122-127-26-20
32	⁵⁶⁴⁸⁸ "	♂	"	"	"	119-102-26-18
33	"	♀	"	"	"	130-125-26-20
34	⁵⁶⁴³⁴ " (mouse)	♂	"	"	"	106-97-25-16
35	⁵⁶⁴²⁶ "	♂	"	"	"	94-76-22-15
36	⁵⁶⁴³¹ "	♂	"	"	"	90-80-21-15
37	⁶⁵²⁸⁶ Myotis	♂	"	"	"	42-35-2 of radius 32 - ear 12 - formalin
38	Sciurus vulgaris	♀	"	"	"	210-200-65-32
39	⁵⁶⁴²⁴ Apodemus (mouse)	♀	"	"	"	84-78-21-16
40	⁵⁶⁴⁴⁵ "	♀	"	"	"	97-90-21-16
41	⁵⁶⁴³³ "	♂	"	"	"	98-89-23-17
42	⁵⁶⁴²⁷ "	♂	"	"	"	85-88-24-16
43	⁵⁶⁴²⁸ "	♀	"	"	"	88-80-23-15
44	⁵⁶⁴⁹⁶ " (rat)	♀	"	"	"	128-130-27-20
45	⁵⁶⁶⁷⁴ "	♂	"	"	"	140-135-28-20
46	⁵⁶⁶⁷⁵ "	♂	"	"	"	135-144-29-21
47	⁸⁵²⁸⁷ " (mouse)	♂	"	"	"	90-85-22-15 formalin
48	⁸⁵²⁸⁸ " (rat)	♀	"	"	"	formalin
49	⁵⁶⁴⁸⁶ "	♀	"	"	"	140-135-28-21
50	Sciurus vulgaris	♀	"	"	"	220-193-65-34
51	Eutamias asiaticus	♀	"	"	"	155-123-35-19
52	Sciurus vulgaris	♂	"	"	"	215-185-62-33
53	"	♂	"	"	"	230-185-65-36
54	"	♂	"	"	"	235-220-65-35
55	⁸⁵²⁸⁹ Apodemus (mouse)	♀	"	"	"	formalin
56	⁵⁷¹⁰⁹ Melos leptorhynchus	♀	"	"	"	480-155-100-40
57	⁵⁶⁴³⁶ Apodemus	♂	Aug 8	"	"	92-85-21-17
58	⁵⁶²¹⁶ " agrarius corea?	♀	"	"	"	103-75-20-13

No. SPECIMEN

SEX

DATE

LOCALITY

Province

STAC Y32

MEASUREMENT

No.	SPECIMEN	SEX	DATE	LOCALITY	Province	STAC Y32	MEASUREMENT
59	56214 <i>Apodemus a. coreae?</i>	♀	Aug 8	Eastern T	Chungchi Prov.		110-x-22-13
60	56501 <i>Erymus</i>	♂	"	"	"	"	142-120-29-16
61	56502 "	♂	" 9	"	"	"	121-104-30-28
62	<i>Apodemus a. coreae?</i>	♀	"	"	"	"	105-80-22-14
63	56217 " " "	♀	" "	"	"	"	100-80-22-13 no skull
64	56491 " (rat)	♂	"	"	"	"	130-135-30-20
65	56672 " "	♀	"	"	"	"	125-130-27-20
66	56435 " (mouse)	♂	"	"	"	"	105-90-24-16
67	56442 " "	♀	"	"	"	"	98-82-22-15
68	56399 <i>Micromys</i>	♀	Aug 10	"	"	"	65-50-15-11 caught in & with bank in corn field. caught three others which were spoiled
69	<i>Martes flaviventer borealis</i>	♂	July 28	"	"	"	caught by native (disgarded)
70	56425 <i>Apodemus</i> (mouse)	♂	Aug 11	"	"	"	90-83-22-15
71	"	♀	" "	"	"	"	95-85-20-16
72	56448 "	♂	" "	"	"	"	103-100-23-16
73	56440 "	♂	" "	"	"	"	92-73-23-15
74	56446 "	♂	" "	"	"	"	95-95-23-x
75	56441 "	♂	" "	"	"	"	95-83-24-16
76	56444 "	♂	" "	"	"	"	82-95-25-15
77	56438 "	♂	" "	"	"	"	102-x- ²³ 14-15
78	56443 "	♀	" "	"	"	"	97-x-23-15
79	56095 <i>Eumacrus dealbatus</i>	♂ juv	-	-	"	"	135-6-30-20 4 half grown brot' by native
80	<i>Pteromys melanopterus</i>	-	-	-	"	"	this brot' by native
81	57027 <i>Meles leptorhynchus</i>	♂	Aug 11	"	"	"	450-130-95-40
82	56825 "	♀	"	"	"	"	430 572-150-90-35
83	85290 <i>Myotis</i>		" 12		(Yaoang chung)		formalin
84	85291 "		" 12		"		"
85	"	♂ juv	" "		"		45-31-ear 12 } Caught under tiles in house
86	"	♂ juv	" "		"		48-35- " 11 }

No	Specimen	SEX	DATE	LOCALITY	Province	Measurement
87	Myotis	♂	Aug 13 1921	Eastend	Tombs Chilli Province (Hanyuan)	49-35 - ear 11
88	"	♂	"	"	"	49-34 - " 11
89	"	♀	14	"	"	48-37 - " 13
90	"	♀	"	"	"	47-37 - " 12
56188 91	"	♂ juv.	"	"	"	45-30 - " 11
92	"	"	"	"	"	formalin
56190 93	Apodemus	♀	"	"	"	135-139-26-20 } } <i>collected from bushes in low scrub</i>
56193 94	"	♀	"	"	"	130-135-26-19 } } <i>collected by Chinese</i>
95	Myotis	♀	Sept 1	Peking		formalin
96	Macacus	♂	March 1920	Tom Eastern	Tomus	skull & skull
97	"	♂	Feb. 1921	"	"	" "
98	"	♂ juv.	Jan 1920	"	"	" "
99	Vulpes	♂	-	"	"	" "
100	Macacus 57040	♂	Sept 1920	"	"	" "
101	Felis	-	-	"	"	" "
102	Ursus 57074	-	-	"	"	" "
103	Lepus	♀	Sept 22, 1921	30 mi W. of	Sian-pu Shensi Prov	400-80-110-90
104	Apodemus (striped back)	juv ♂	" 27 "	100 mi S.W. of	Sean Futai Pei Shau - <i>Tungling</i>	88-65-22-14
105	"	♂	"	"	"	110-89-22-15 110-X-23-15
106	"	♀	"	"	"	110-89-22-15
107	"	ad. ♀	"	"	"	85-72-20-13 no skull
108	"	juv ♀	"	"	"	83-73-20-13
109	"	♀	"	"	"	95-77-22-13 no skull
110	Lepus	♀	"	"	"	no measurement
111	"	♀	"	"	"	" "
112	Mus	♀	28	"	"	78-60-18-14
113	Apodemus (rat)	ad. ♂	"	"	"	110-122-25-20
114	" striped back	♀	"	"	"	113-86-21-14
115	"	♀	"	"	"	102-89-21-13
	"	♀	"	"	"	92-82-20-14

117	<i>Apodemus</i> (slumped back)	♂	Sept 28 1921	Base of Tai'pei Shan	102-80-20-14
118	56854 <i>Suncus</i>	♂	" 29	"	190-130-53-25
119	56854 <i>Ochetona</i>	♂	Sept 30	Tai'pei Shan alt 10000ft	178-X-32-21
120	56855 "	♀	" "	" "	164-X-30-20
121	Shrew	♀	" "	" "	80-81-18-9
122	"	♀	" "	" "	82-84-18-10
123	<i>Apodemus</i>	♂	" "	" "	90-94-23-17
124	56380 <i>Microtus</i>	♂	" "	" "	100-57-18-13
125	56384 "	♂	" "	" "	82-50-18-11
126	56383 "	♂	" "	" "	85-53-18-12
127	56375 "	♀	Oct 3	" "	90-49-18-12
128	<i>Budorcas bedfordi</i>	♀	Oct 3	" "	11,000ft { ^{skin + skeleton} Length over ^{tail} curves 70 1/2" Tail 5 1/2" Hads. 40" H. foot 14 1/2" Ear 4 1/4" Horns tip to tip 9" - Circum base left 8 1/2" right 9 1/4" length on curve of both 12" (skin + leg bones) L. on curves to tip of tail 46" - Tail 4 1/2" H. at shoulder 30" H. Foot 11 1/2" Ear 3 1/2" wt. about 105 lbs.
129	57015 <i>Budorcas bedfordi</i>	♀ juv	" "	" "	
130	56372 <i>Microtus malcomi</i> ?	♂	Oct 3	" "	
131	56858 <i>Ochetona</i>	♀	"	"	
132	56316 <i>Microtus malcomi</i> ?	♂	"	"	
133	56381 " ?	♂	"	"	
134	56377 " ?	♀	"	"	
135	Shrew (brown)	♀	"	"	
136	" "	♀	"	"	
137	56857 <i>Ochetona</i>	♀	"	"	
138	56379 <i>Microtus malcomi</i> ?	♂	"	"	
139	56371 " "	♀	"	"	
140	56378 " "	♂	"	"	100-49-18-11
141	50405 <i>Mus</i> (grey mouse)	♂	"	"	82-77-22-17
142	56406 " " "	♀ juv	"	"	68-58-21-15
143	56369 <i>Microtus</i>	♂	"	"	98-37-20-11
144	Mole	♂	"	"	98-15-16-X

No	Species	Sex	Date	Locality	Measurements
145	⁵⁶³⁸² <i>Microtus</i>	♂	Oct. 5	Taipei Shan at 10,000 ft	
146	"	♂	" "	" "	no skull no skull
147	"	♂	" "	" "	no skull
148	⁵⁶³⁷³ "	♂	" "	" "	
149	⁵⁶⁰⁹⁴ mole <i>Scapanus oweni</i>	♂	" "	" "	
150	⁵⁶⁸⁵⁶ <i>Odor</i>				
151	⁵⁶¹⁰⁸ <i>Mischus</i>	♂	Oct. 7	Base of Taipei Shan	caught by native hunter in ruts - skin of badly spoiled - skins & skeletons Measurements: L. 830 - X - HF. 245 - ear 110 - H. 225 - 5'20 R. tuck 40 - S. tuck 35 - 6 gumb
152	⁵⁶⁷¹⁷ <i>Epinys</i>	♂	Oct. 10	" " " "	125-55-25-19
153	⁵⁶⁷²⁴ ⁵⁶³⁸⁹ "	♂	" "	" " " "	155-72-25-22
154	⁵⁶⁷⁴⁷ striped backed mouse	♂	" "	" " " "	77-64-20-14
155	⁵⁶²⁴⁸ " " "	♂	" "	" " " "	70-55-19-13
156	" " "	♂	" "	" " " "	70-56-18-14
157	⁵⁶⁶³³ <i>Apodemus</i> (rat)	♂	" "	" " " "	110-130-26-21
158	⁵⁶²³⁷ striped back mouse	♂	" "	" " " "	82-70-21-15
159	⁵⁶²⁴⁷ " " "	♂	" "	" " " "	90-70-22-14
160	⁵⁶²²² " " "	♂	" "	" " " "	85-73-21-13
161	⁵⁶⁶¹³ <i>Apodemus</i> (rat)	♂	Oct 15	" " " "	
162	⁵⁶²⁴² striped back mouse	♂	" "	" " " "	
163	⁵⁶²²⁶ " " "	♂	" "	" " " "	
164	⁵⁶²⁵¹ " " "	♂	" "	" " " "	
165	⁵⁶²²¹ " " "	♂	" "	" " " "	
166	⁵⁶²⁶¹ " " "	♂	" "	" " " "	
167	⁵⁶⁴⁰¹ Brown mouse	♂	" "	" " " "	
168	⁵⁶²¹⁹ striped back mouse	♂	" "	" " " "	
169	shrew	♂	" "	" " " "	
170	⁵⁶²¹⁶ striped back mouse	♂	" "	" " " "	
171	⁵⁶⁷⁵³ <i>Epinys</i> (rat)	♂	" "	" " " "	
172	⁵⁶⁴⁰⁴ <i>Apodemus</i> rat	♂	" "	" " " "	

no measurements
native collector

These mammals were caught by a native collector in week of Oct 1 to 8. The sexing is probably uncertain as he is a new man

No	SPECIES	SEX	DATE	Locality
173	⁵⁶⁴⁰³ Brown mouse	♂	Oct 1 to 8	Base of Tai Pi Shan Tamu Ling mts, Shensi
174	⁵⁶²⁶⁴ striped back mouse	♂	" "	" "
175	⁵⁶⁶¹⁰ Apodemus rat	♂	" "	" "
176	⁵⁶²⁶⁴ striped back mouse	♀	" "	" "
177	⁵⁶³⁹² Epimys	♀	" "	" "
178	⁵⁶²⁷⁸ striped back mouse	♂	" "	" "
179	⁵⁶²⁹² " " "	♂	" "	" "
180	⁵⁶⁶⁰⁹ Apodemus rat	♂	" "	" "
181	⁵⁶²⁹¹ striped back mouse	♂	" "	" "
182	⁵⁶²⁴³ " " "	♂	" "	" "
183	" " "	♂	" "	" "
184	⁵⁶²²⁰ " " "	♂	" "	" "
185	⁵⁶⁵⁸⁵ Apodemus rat	♂	" "	" "
186	⁵⁶²⁴³ " " "	♂	" "	" "
187	⁵⁶²⁴⁴ striped back mouse	♂	" "	" "
188	" " "	♂	" "	" "
189	⁵⁶⁴¹⁶ " " "	♂	" "	" "
190	⁵⁶²⁷¹ " " "	♂	" "	" "
191	⁵⁶²⁶² " " "	♀	" "	" "
192	⁵⁶²²⁷ " " "	♂	" "	" "
193	⁵⁶²²⁴ " " "	♂	" "	" "
194	mole	♂	" "	" "
195	⁵⁶²³⁶ striped back mouse	♂	" "	" "
196	⁵⁶²³⁹ " " "	♂	" "	" "
197	⁵⁶²²⁵ " " "	♂	" "	" "
198	⁵⁶²⁸⁴ " " "	♂	" "	" "
199	⁵⁶²²⁸ " " "	♂	" "	" "
200	⁵⁶²⁶⁹ " " "	♂	" "	" "
201	⁵⁶²⁸³ " " "	♂	" "	" "

No	SPECIES	SEX	DATE	LOCALITY	REMARKS
202	⁵⁶²⁴¹ striped back mouse	♀	Oct 16/21	Base of Tai Pi Shan	Tsing Ling mts Shensi
203	⁵⁶²³³ " " "	♂	"	"	"
204	" " "	♂	"	"	"
205	⁵⁶⁶⁰⁴ Apodemus (rat)	♀	"	"	"
206	⁵⁶⁶²⁸ " " "	♀	"	"	"
207	⁵⁶²⁵² striped back mouse	♂	"	"	"
208	⁵⁶²³⁴ " " "	♂	"	"	"
209	⁵⁶²⁵⁴ " " "	♂	"	"	"
210	⁵⁶²⁶⁷ " " "	♀	"	"	"
211	⁵⁶²⁹⁰ " " "	♂	"	"	"
212	⁵⁶²³⁰ " " "	♀	"	"	"
213	⁵⁶²⁵⁷ " " "	♂	"	"	"
214	⁵⁶⁶¹⁷ Apodemus rat	♂	"	"	"
215	striped back mouse	♂	"	"	" no skin
216	Vulpes	-	Jan 1920	"	hunters skin (no skin)
217	⁵⁶²⁸⁴ striped back mouse	♀	Oct 1-8 1921	"	"
218	⁵⁶²⁶⁵ " " "	♂	"	"	"
219	⁵⁶²⁸⁰ " " "	♂	"	"	"
220	⁵⁶²³⁸ " " "	♂	"	"	"
221	⁵⁶⁴⁰² Brown mouse	♂	"	"	not certain that skin belongs to this specimen
222					
223					
224					
225					
226					
227					
228					
229					
230					
231					

No	Species	SEX	DATE	LOCALITY	Measurements
231	Shrew	♀	Oct. 12	Base of Taipei Shan Shensi	61-35-12-8
232	⁵⁶⁵⁹ Apodemus (rat)	♀	"	"	130-140-28-20
233	⁵⁶⁶⁵ Eprings	♀	"	"	130-80-24-20
234	striped back rat	♂	"	"	112-88-22-15 (no skin)
235	" " mouse	♀	"	"	90-70-22-14
236	⁵⁶²⁸² " "	♀	"	"	90-70-22-13
237	⁵⁶²³⁵ " "	♀	"	"	82-70-22-13
238	⁵⁶⁸⁶³ Lepus	♂	"	"	"
239	Manis	♂	Oct 1	Ninghsuifu Anhwei Province	480-181-60-13

245	⁵⁶⁶²¹ Apodemus rat	♀	Nov. 1921	Base of Taipei	Pei Shan Tsung Tung Shensi
246	⁵⁶⁷⁸⁹ striped back (mouse)	♂	"	"	"
247	⁵⁶⁷⁷² Apodemus rat.	♀ juv	"	"	"
248	⁵⁶⁶⁰⁵ Apodemus (rat)	♂	"	"	"
249	⁵⁶⁶⁵⁶ " "	♂	"	"	"
250	shrew	"	"	"	"
251	"	♂	"	"	no skull
252	⁵⁶⁵⁹ shrew	♀	"	"	"
253	Apodemus (rat)	♀	"	"	"
254	⁵⁷⁰⁷⁶ shrew	♀ ad	"	"	skin skull & leg bones skeletons
255	⁵⁶⁶⁰⁶ Apodemus (rat)	♀	"	"	"
256	⁵⁶⁶⁵³ " "	♂	"	"	"
257	shrew	♂	"	"	"
258	shrew	♀	"	"	"
259	striped back mouse	♀	"	"	"

	Species	Sex	1924	Local	Locality
260	⁵⁶⁶⁴⁴ Apodemus (rat)	♂	Nov Nov.	Tung	Long into Base of Tai'pei Shan
261	⁵⁶⁶³⁵ Apodemus (rat)	♀	"	"	"
262	⁵⁶⁶⁴¹ Apodemus (rat)	♀	"	"	"
263	⁵⁶⁵⁶⁹ Apodemus (rat)	♀	"	"	"
264	⁵⁶⁵⁹² Apodemus rat	♂	Nov.	"	"
265	" "	♂	"	"	no skull
266	shrew	♂	"	"	"
267	"	♂	"	"	"
268	Striped back mouse	♂	Nov	"	no skull
269	⁵⁶⁶¹⁸ Apodemus (rat)	♀	"	"	"
270	⁵⁶²⁷⁵ striped backed mouse	♂	"	"	"
271	shrew	♂	"	"	"
272	⁵⁶²⁷⁷ striped back mouse	♂	"	"	"
273	" " "	♂	"	"	"
274	⁵⁶²⁸⁹ " "	♂	"	"	"
275	⁵⁶⁶³⁴ Apodemus (rat)	♂	"	"	"
276	⁵⁶²⁷⁴ striped back mouse	♂	"	"	"
277	⁵⁶²⁸⁷ " "	♂	"	"	"
278	shrew	♂	"	"	no skull
279	⁵⁶²⁶³ striped back mouse	♂	"	"	"
280	" " "	♂	"	"	no skull
281	Apodemus (rat)	♂	"	"	no skull
282	⁵⁶⁶⁵⁵ Apodemus rat	♂	"	"	"
283	Striped back mouse	♂	"	"	no skull
284	shrew	♂	"	"	"
285	⁵⁶²⁵⁶ striped back mouse	♂	"	"	"
286	⁵⁶²²⁹ striped backed mouse	♂	"	"	"
287	shrew	♂	"	"	"
288	⁵⁶⁶⁶⁵ Apodemus rat	♂	"	"	"

Species	Sex	Date	Locality
²⁶⁶³⁸ 289 <i>Aprodemus</i> (rat)	♂	Nov. 1921	Trang Lungs mountains near of Tai Pui & Luang & Luang
⁵⁶⁶⁴⁰ 290 " "	♂	"	"
⁵⁶⁵⁸⁸ 291 <i>Aprodemus</i> (rat)	♀	"	"
⁵⁶⁶⁴⁴ 292 <i>Aprodemus</i> (rat)	♂	"	"
293 shrew	♂	"	"
294 "	♂	"	"
295 shrew	♂	"	"
296 shrew	♂	"	"
297 shrew	♂	"	"
⁵⁶⁶⁵⁰ 298 <i>Aprodemus</i> (rat)	♂	"	"
⁵⁶⁶⁶¹ 299 <i>Aprodemus</i> (rat)	♂	"	"
⁵⁶⁵⁶⁵ 300 <i>Aprodemus</i> (rat)	♂	"	"
⁵⁶⁶⁶² 301 " "	♂	"	"
⁵⁶⁵⁹¹ 302 <i>Aprodemus</i> (rat)	♀	"	"
303 ⁵⁶⁶⁶⁶ " "	♂	"	"
304 ⁵⁶⁶³¹ " "	♂	"	"
305 <i>Sciurus</i>	♂	"	"
⁵⁶⁶⁵⁹ 306 <i>Aprodemus</i> (rat)	♂	"	"
⁵⁶⁶⁶² 307 " "	♂	"	"
⁵⁶⁵⁹³ 308 <i>Aprodemus</i> (rat)	♂	"	"
⁵⁶³⁸⁷ 309 Gray short tail rat	♂	"	"
⁵⁶⁶⁴² 310 <i>Aprodemus</i> (rat)	♂	"	"
⁵⁶⁶¹⁸ 311 " "	♂	"	"
312 <i>Capreolus bedfordi</i>	♀	"	"
⁵⁶⁶¹¹ 313 <i>Aprodemus</i> (rat)	♂	"	"
⁵⁶⁶⁴⁵ 314 <i>Aprodemus</i> (rat)	♂	"	"
315 " "	♂	"	"
⁵⁶¹⁴⁴ 316 <i>Aprodemus</i> (rat)	♂	"	"
317 <i>Striped back mouse</i>	♂	"	"

no skull

skull & skull

no skull

no skull

Species	Sex	Date	Locality
⁵⁶⁶⁵⁸ 318 Apodemus (rat)	♀	Nov.	Tamylangur - Base of Tai Prishan
⁵⁶³⁵⁸ 319 Gray short tail rat	♀	"	"
⁵⁶⁵⁹⁰ 320 Apodemus (rat)	♀	"	"
⁵⁶⁶²⁶ 321 Apodemus (rat)	♀	"	"
⁵⁶⁶⁶³ 322 Apodemus (rat)	♂	"	"
323 Sciurus	♀	"	"
⁵⁶⁵⁹⁶ 324 Apodemus (rat)	♂	"	"
⁵⁶⁶³⁶ 325 Apodemus (rat)	♀	"	"
⁵⁶⁶⁴³ 326 " "	♂	"	"
327 Apodemus (rat)	♂	"	"
328 Apodemus (rat)	♂	"	" " no skull
⁵⁶⁶⁰¹ 329 " "	♂	"	"
330 shrew	"	"	"
⁵⁶⁵⁹⁴ 331 Apodemus (rat)	♀	"	"
⁵⁶⁶²⁴ 332 Apodemus (rat)	♂	"	"
333 " "	♂	"	" " no skull"
⁵⁶⁵⁹⁸ 334 " "	♂	"	"
⁵⁶⁵⁸⁷ 335 " "	♂	"	"
⁵⁶⁶⁵⁹ 336 Apodemus (rat)	♀	"	"
⁵⁶⁵⁹⁷ 337 Apodemus (rat)	♂	"	"
⁵⁶⁵⁸⁶ 338 Apodemus (rat)	♂	"	"
⁵⁶⁶⁶¹ 339 Apodemus (rat)	♂	"	"
⁵⁶⁶⁴⁶ 340 " "	♂	"	"
⁵⁶²⁵⁴ 341 striped back mouse	♀	"	"
342 Apodemus rat	♀	"	" " (no skull)
343 Shrew	♀	"	"
⁵⁶⁵⁴⁵ 344 " "	♂	"	"
345 Gray short tail rat	♂	"	"
⁵⁶⁵⁹⁴ 346 Apodemus (rat)	♂	"	"

Species	Sex	Date	Locality
562 ⁶⁰ striped back mouse	♂	Nov.	Trung-Lung mts
347 ⁵⁶⁵⁴² Afrodemus (rat)	♂	"	"
348 Grey short tail rat	♂	"	"
349 Scurus	♂	"	"
350 "	♂	"	"
357 Shrews	♂	"	"
352 Scurus	♂	"	"
353 ⁵⁶⁶⁵¹ Afrodemus (rat)	♂	Nov.	"
354 ⁵⁶⁴⁸⁸ Epimys "	♂	"	"
355 ⁵⁶⁶⁴⁷ Afrodemus rat	♂	"	"
356 ⁵⁶⁶³⁹ Epimys "	♂	"	"
357 ⁵⁶⁶⁶¹ Afrodemus "	♂	"	"
358 ⁵⁶⁶⁶⁸ " "	♂	"	"
359 ⁵⁶⁶¹⁶ " "	♂	"	"
360 ⁵⁶⁶²⁵ " "	♂	"	"
361 ⁵⁶⁶⁴⁹ Afrodemus rat	♂	"	"
362 ⁵⁶⁶⁵⁷ " "	♂	"	"
363 ⁵⁶⁵⁹⁹ Afrodemus rat	♂	"	"
364 Scurus	♂	"	"
365 "	♂	"	"
366 "	♂	"	"
367 ⁵⁶⁶²⁴ Afrodemus (rat)	♂	"	"
368 ⁵⁶⁶¹⁴ Afrodemus (rat)	♂	"	"
369 Scurus	♂	"	"
370 ⁵⁶⁶¹² Afrodemus (rat)	♂	"	"
371 ⁵⁶⁶⁰⁷ Afrodemus (rat)	♂	"	"
372 ⁵⁶⁶⁰³ Afrodemus (rat)	♂	"	"
373 Scurus	♂	"	"
374 "	♂	"	"
375 ⁵⁶²⁹⁵ Striped back mouse	♂	"	"
376 Scurus	♂	"	"

Bar 7 Taipei Shan

No	SPECIES	SEX	DATE	LOCALITY	
406	⁵⁶³²³ <i>Sambar</i>	♂	Dec 14, 1921	Kweichow	Cheng Shansi
407	⁵⁶³³⁰ "	♂	" "	"	"
408	"	♂	" "	"	" no skull
409	⁵⁶³²² "	♀	" "	"	"
410	"	♀	" "	"	"
411	⁵⁶³²⁹ "	♀	" "	"	"
412	<i>musculus</i>	♂	" "	"	"
413	⁵⁶⁴⁷³ <i>Capreolus</i>	♀	" "	"	"
414	⁵⁶⁴⁷⁴ "	"	" "	"	"
415	⁵⁷¹¹² <i>Cervus</i>	♀	Dec 13 -	"	" L 66" - T. 5" - H.F. 19 21" - H. at stags head 46 1/2"
416	⁵⁷⁰²⁶ ⁵⁷⁰²⁶ "	♂	" 17	"	" L 80" - T. 5" - H.F. 21 1/2 - H. " " 48 1/2"
55993 417	<i>Capreolus bedfordi</i>	♂	" 15	"	" L 47 - T. 1" - H.F. 12" - H. " " 26" (horns shed)
418	<i>Ovis cornosa</i>	♀	" 18	"	" L 46 - T. 3" - H.F. 14 1/2 - H. " " 33 1/2"
419	⁵⁷⁰⁰⁶ <i>Cervus</i>	"	Nov. ?	"	" <i>hunting skins purchased no skull</i>
420	⁵⁶⁹⁶⁴ <i>Capreolus argyrorhynchus</i>	♂	Jan 1920	Tungshu	Chekiang Prov (A. Castle collector) skin & skull (complete)
421	⁵⁶⁹⁷⁹ "	♀	Feb. "	"	" " " " " " " (")
422	⁵⁶⁹⁸² "	♀	Jan "	"	" " " " " " " no fore hoofs
423	⁵⁶⁹⁸⁰ "	♂	-	"	" " " " " " " skin only no head
424	⁵⁶⁹⁹¹ <i>Cervus mandchuricus</i>	♂	Feb. 1920	"	" " " " " " " skin & skull (complete)
425	⁵⁷⁰⁷⁵ <i>Moschus</i>	"	winter 1922	Eastern Tonkin	Chuli Prov. purchased from native skin & skull
426	<i>Pteromys melanoleucus</i>	"	" "	"	" " " " " " " " " "
58517 427	<i>Macacus</i>	-	" "	"	" " " " " " " " " "
57042 428	"	-	" "	"	" " " " " " " " " "
57044 429	"	-	" "	"	" " " " " " " " " "
57043 430	"	-	" "	"	" " " " " " " " " "
57110 431	"	♂	" "	"	" " " " " " " " " "
57111 432	"	-	" "	"	" " " " " " " " " skin skull + leg bones
57108 433	"	-	" "	"	" " " " " " " " " "
434	<i>Sambar</i>	♂	1921	"	" " " " " " " " " "

No	Species	Sex	Date	Locality	Notes
435	Sciurus	♂	1921	Eastern	Chubbi Prov. Tombes purchased from native collector skin & skull
436	"	♂	"	"	" " " " " "
437	Eutamias	♂	"	"	" " " " " "
438	"	♂	"	"	" " " " " "
56850 439	Citellus	-	"	Peking outside south east gate	" " " " " "
56851 440	Rat	-	"	"	" " " " " "
441	Rat	♂	"	"	" " " " " "
442	56349 "	♂	"	"	" " " " " "
443	"	-	"	"	" " " " " skin only
56792 444	"	♂	"	"	" " " " " "
445	"	-	"	"	" " " " " "
56337 446	Striped Hamster	-	"	"	" " " " " "
56350 447	" "	-	"	"	" " " " " "
56340 448	" "	♀	"	"	" " " " " "
56343 449	" "	♀ juv	"	"	" " " " " "
56341 450	" "	♀	"	"	" " " " " "
451	" "	♀	"	"	" " " " " "
56342 452	Rat	♂ juv	"	"	" " " " " "
46346 453	" "	♂	"	"	" " " " " "
56345 454	Felis	♂ juv	"	"	" " " " " "
56294 455	Bat	♂ juv	Feb. 1922	Peking	Found in Feb. lying dead in Exp. courtyard
56305 456	Gayella gutturosa	"	"	" mark	found in Mongolia head skin & skull belongs to K.C.A.
56360 457	Microtus	♂	Mar 1922	100 miles N. E. of Peking	Last seen Tiger no skull
458	Apodemus mouse	♀	" "	"	" " " " " "
459	" "	♀	" "	"	" " " " " "
56449 460	" "	♀	" "	"	" " " " " "
56316 461	Hamster	♀	" "	"	" " " " " "
462	Microtus	♀	" "	"	" " " " " "
56318 463	Hamster	♂	" "	"	" " " " " "

1922

	Sex	Date	Locality
550 ^{King 5648H} Brown rat	♂	Jan 12	Hussey College
551 ^{56694 56351} " "	♀	" "	"
552 ⁵⁶⁷⁰⁰ Brown rat	♀	Jan 12	"
553 ⁵⁶¹⁹⁶ Striped back mouse	♀	Jan 12	"
554 ⁵⁶⁷⁶⁵ Long tail rat	♀	Jan 12	"
555 ⁵⁶⁶⁸⁷ Brown rat	♂	" "	"
556 ⁵⁶²¹³ Striped back mouse	♂	" 12	"
557 ⁵⁶²⁰⁵ " " "	♂	" "	"
558 ⁵⁶²⁰² Striped back mouse	♂	Jan 12	"
559 ⁵⁶⁷⁵⁹ Long tail rat	♂	Jan 13	"
560 ^{56460 56766} " " "	♀	" "	"
561 ⁵⁶⁶⁷⁹ Brown rat	♀	" 13	"
562 ⁵⁶¹⁹⁴ Striped back mouse	♀	" "	"
563 ⁵⁶⁴⁸⁰ Brown rat	♂	" 13	"
564 ⁵⁶¹⁹⁹ Striped back mouse	♂	" 13	"
565 ⁵⁶¹⁹⁵ " " "	?	" "	"
566 Brown rat	♀	Jan 13	"
567 ⁵⁶¹⁹⁸ Striped back mouse	♂	" "	"
568 ⁵⁶²⁰⁸ Striped back mouse	♂	Jan 13	"
569 ⁵⁶⁷⁶⁰ Long tail rat	♀	Jan 15	"
570 ⁵⁶²¹² Striped back mouse	♂	" "	"
571 ⁵⁶⁴⁷⁵ Apodemus mouse	♀	Jan 15	"
572 ⁵⁶⁶⁸⁰ Brown rat	♀	Jan 16	"
573 ⁵⁶⁷⁶³ Long tail rat	♀	Jan 16	"
574 ⁵⁶²⁰⁶ Striped back mouse	♂	" 16	"
575 ⁵⁶⁶⁸² Mongoose 57120	♀	" 20	"
576 ⁵⁶⁶⁹⁵ Long tail rat	♀	Jan 24	"
577 ⁵⁶⁶⁹⁵ Brown rat	♂	" "	"
578 ⁵⁶²¹⁰ Striped back mouse	♂	" 24	"
579 ⁵⁶⁶⁹⁵ Striped back mouse	♂	" "	"

Measurements by Pope

Measurements
Yokohama City Human Prov 125-157-27-20
120-152-26-18
120-155-26-18
88-88-19-12
170-202-35-27
115-155-26-19
83-89-20-7
82-93-20-10
94-95-22-13
180-206-35-27
160-175-34-23
115-155-26-19
80-80-20-8
113-90-20-12
95-90-20-12
87-90-21-13
98-115-20-13 no skull
95-81-19-12
90-84-20-12
175-186-35-24
95-x-20-12
90-87-20-14
130-x-27-18
143-160-31-22
88-88-21-12
148-220-30-22
125-185-28-19
80-80-20-12
88-79-20-12

No	Species	Sex
580	Long tail rat	♀
581	Shrew	♀
582	Brown rat	♂
583	Striped back mouse	♂
584	" " "	♀
585	Brown rat	♀
586	" " "	♀
587	" " "	♀
588	" " "	♀
589	" " "	♂
590	" " "	♀
591	Striped back mouse	♂
592	Striped back mouse	♂
593	Long tail rat	♂
594	Brown rat	♀
595	" " "	♀
596	Striped back mouse	♀
597	Felis	♀
598	Brown rat	♀
599	Shrew	♂
600	Long tail rat	♀
601	Striped back mouse	♂
602	Long tail rat	♀
603	" " "	♂
604	" " "	♀
605	Brown rat	♂
606	Shrew	♂
607	Long tail rat	♂
608	Prionis	♀
609	Long tail rat	♂

Date
Jan 25
" "
" "
" "
" "
" 26
" "
" "
" 27
" "
" "
Jan 28
" "
" "
" "
" 29
" 30
Jan 30
" "
" 30
" "
" "
" 31
" "
" "
Feb. 1
Feb 3

1922
 Harpur College
 Yonkers City

Measurements by Pope

160-175--35--23 no skull
70-49-13-8
110-95--20-14
90-95--19-13
88-72-19-14
104-150-27-19
120-173-24-20
109-168-25-20
114-155--25--20
110-165--27-21
118-165--27-20
77-88-18-13
82-88-20-13
125-175--28-21
108-140-25-19
100-153-25-18
75-80-18-13
skin + skeleton
112-X-26-20
72-85-12-9 no skull
152-172-33-23
97-100-21-14
130-175--27-19
114-165--26-18
122-180-28-19
107-140-23-19
71-55-13
130-195-27-19
138-183-26-20

No	Species	Sex	Date	Locality	Notes
610	⁵⁶²⁰⁴ striped back mouse	♂	Feb. 3	Hungary Creek	Yoshon City Human Prov. 82-80-20-12
611	⁵⁷⁰³³ mongoose	♀	" 4		skin skull & skeleton
612	⁵⁶¹⁹⁷ striped back mouse	♂	Feb. 4		85-89-22-14
613	⁵⁶⁷⁶⁸ Apodemus mouse	-	Feb. 4		- 100-19-13
614	mongoose	♂	" #5		
615	⁵⁶⁷⁴¹ Brown rat	♀	" 5		155-175-31-22
616	⁵⁶²¹¹ striped back mouse	♀	Feb. 5		85-87-19-13
617	⁵⁶²⁰⁷ " " "	♂	" 6		83-x 20-13
618	⁵⁶⁴⁷⁷ Apodemus mouse	♀	" 6		80-70-19-12
619	⁵⁶⁶⁸⁹ Brown rat	♂	" 8		131-191-28-21
620	⁵⁶⁴⁷⁹ Apodemus rat mouse	♂	Feb. 8		90-90-20-15
621	⁵⁷⁰⁷¹ Sulpes		" 12		skin & skeleton
622	⁵⁶⁶⁸⁷ Brown rat	♂	Feb. 12		130-184-27-19
623	⁵⁶⁶⁸³ Brown rat	♂	Feb. 12		115-165-27-21
624	Bat	♂	" "		no skull
625	⁵⁷³³⁹ Felis	♀	" 13		
626	⁵⁷³⁴⁰ Raccoon dog	♀	" 13		skin & skeleton
627	⁵⁷⁰⁶³ <i>Viverricula andita</i> Herpess	♂	" 13		" " "
628	⁵⁶⁹⁹³ Muntiacus	♂	" 15		" " "
629	⁵⁷³⁷⁷ Hydropotes		Feb 15		" " "
630	Herpestes	♀	Feb 17		
631	⁵⁷³⁷⁷ Herpestes	♂	" 19		
632	⁵⁷³⁴⁴ Raccoon dog	♀	" 19		" " skeleton
633	Raccoon dog	♀	" 20		
634	⁵⁶⁹⁹² Muntiacus	♀	" 23		
635	⁵⁶⁹⁹⁶ Muntiacus	♂	Feb 24		
636	⁵⁶⁹⁹⁵ Muntiacus	♂	" 25		
637	⁵⁷¹⁰⁵ Hydropotes	♀	Mar. 2		
638	⁵⁶⁹⁹⁴ "	♀	" 2		
639	⁵⁷¹⁰⁴ Meles	♀	" 4		

1927

Yoshon City Human Prov. 82-80-20-12

85-89-22-14

- 100-19-13

155-175-31-22

85-87-19-13

83-x 20-13

80-70-19-12

131-191-28-21

90-90-20-15

skin & skeleton

130-184-27-19

115-165-27-21

no skull

skin & skeleton

" " "

" " "

" " "

" " skeleton

640	^{NEOMERIS} Neomeris	♂	Jan 4 1922	Huiping College Yochow (Tung Tung Lake) Hunan	Pipe Col	
641	"	♂	Dec 24 1921	"	"	"
642	"	juv	" 12 "	"	"	"
643	Lipotes	♀	" 21 "	"	"	"
644	Lipotes visina	♀	Mar 4 1922	"	formalin	"
645	Bat		March	"	"	"
57218 646	ledge-hog	♀	" "	"	"	"
57219 647	" "	♂	" "	Wuhu	An-twei	"
648	Afodemus mouse	♀	Mar. 1922	100 mi N.E. Peking (Lao Tsai Tzu)	res skinned	
649	⁵⁶⁴⁶⁵ " "	♀	" "			
650	⁵⁶⁴⁵¹ " "	♀	" "			
651	" "	♀	" "		res skinned	
652	⁵⁶³¹⁹ Hamster	♂	" "			
653	⁵⁶⁴⁶⁷ " "	♂	" "			
654	⁵⁶⁴⁷¹ Afodemus mouse	♂	" "			
655	mole Rat	♂	" "			
656	⁵⁶⁴³² Lepus	♀	" "			
657	Eulagys fume 632			Yochow Hunan Prov.		
658	" " 634			" " "		
659	" " 633			" " "		
660	" fume Neomeris			" " "		
661	Hamster	♀	March 1922	Chili	Shan Hai Kwan	97-25-16-14 (Chih, faye, dremot)
662	"	♂	"	"	"	85-27-14-13 " "
663	"	♀	"	"	"	95-27-14-13 " "
664	"	♂	"	"	"	70-25-15-13 " "
665	"	♂	"	"	"	72-24-14-13 " "
666	"	♂	"	"	"	70-22-14-13 " "
667	"	♀	"	"	"	73-24-14-13 " "
668	"	♀	"	"	"	90-28-15-15 " "
669	"	♀	"	"	"	83-25-15-14 " "

670	Hamster	♀	March, 1972	Chile
671	"	♀	"	"
672	"	♂	"	"
673	"	♂	"	"
674	"	♂	"	"
675	"	♀	"	"
676	"	♂	"	"
677	"	♂	"	"
678	"	♀	"	"
679	"	♂	"	"
680	"	♀	"	"
681	"	♀	"	"
682	"	♂	"	"
683	"	♀	"	"
684	"	♀	"	"
685	"	♂	"	"
686	"	♂	"	"
687	"	♂	"	"
688	"	♂	"	"
689	"	♀	"	"
690	"	♂	"	"
691	"	?	"	"
692	"	♀	"	"
693	"	?	"	"
694	"	♀	"	"
695	"	♀	"	"
696				
697				
698				

Shan Hai Kewan	80 - 25 - 15 - 13	(Chih, collector)
"	70 - 22 - 14 - 13	"
"	92 - ? - 15 - 14	"
"	95 - 15 - 16 - 15	"
"	95 - 26 - 16 - 14	"
"	97 - 28 - 15 - 15	"
"	95 - 30 - 15 - 15	"
"	98 - 25 - 15 - 14	"
"	85 - 26 - 14 - 14	"
"	96 - 25 - 16 - 14	"
"	80 - 23 - 13 - 14	"
"	92 - 32 - 14 - 15	"
"	95 - 23 - 15 - 15	"
"	97 - 30 - 16 - 15	"
"	85 - 27 - 15 - 14	"
"	100 - 30 - 16 - 15	"
"	78 - 22 - 14 - 14	"
"	75 - 26 - 15 - 14	"
"	88 - 21 - 15 - 14	"
"	90 - 28 - 15 - 15	"
"	81 - 25 - 15 - 14	"
"	80 - 26 - 15 - 14	"
"	80 - 26 - 15 - 14	"
"	70 - 22 - 14 - 13	"
"	98 - 35 - 14 - 15	"
"	93 - 28 - 15 - 15	"

Number	Species	Sex	Date	Locality
699	<i>Citellus mongolicus</i> ^{umbrosus}	♂	April 22	Talook
700	"	♂	"	"
701	"	♂	"	"
702	"	♂	"	"
703	"	♂	"	"
704	"	♂	"	"
705	"	♂	"	"
706	"	♂	"	"
707	"	♂	"	"
708	<i>Alactaga</i>	♂	Apr. 23	Pang-kang
709	<i>Citellus</i>	♂	" 26	225 mi S. W. of 100 mi beyond Ude to Hlga road
710	"	♂	" "	" " " " " " " " " " " "
711	<i>Alactaga</i>	♂	" 28	Tarim 175 mi S. E. of Hlga on the main Kalgan-Hlga road
712	"	♂	" "	" " " " " " " " " " " "
713	"	♂	" "	" " " " " " " " " " " "
714	"	♂	" "	" " " " " " " " " " " "
715	"	♂	" "	" " " " " " " " " " " "
716	<i>Meriones</i> <i>fabalis</i>	♂	" 29	" " " " " " " " " " " "
717	<i>Alactaga</i>	♂	" 28	" " " " " " " " " " " "
718	"	♂	" 29	" " " " " " " " " " " "
719	"	♂	" 29	" " " " " " " " " " " "
720	"	♂	" "	" " " " " " " " " " " "
721	<i>Crucetulus</i> (striped)	♀	May 1	" " " " " " " " " " " "
722	" (pale)	♂	" "	" " " " " " " " " " " "
723	<i>Alactaga</i>	♂	" "	" " " " " " " " " " " "
724	"	♂	" "	" " " " " " " " " " " "
725	"	♂	" "	" " " " " " " " " " " "
726	"	♂	" "	" " " " " " " " " " " "
727	"	♂	" "	" " " " " " " " " " " "
728	"	♀	" "	" " " " " " " " " " " "

See card index for notes on species

Mongolia

These measurements all by Chinese collector

see this page 61

100 mi N W Kalgan

} no skull

Pang-kang

100 mi beyond Ude to Hlga road no skull 198-35-41-7

" " " " " " " " " " " " 180-44-42-7

175 mi S. E. of Hlga on the main Kalgan-Hlga road 135-195-73-37

140-200-74-35

132-192-70-36

138-195-71-40

122-200-71-37

110-100-32-12

70-17-11-12

81-28-13-14

125-200-71-36

135-201-73-41

132-195-71-37

136-207-73-40

130-200-72-36

131-201-72-41

♀ ♂

No	Species	SEX	DATE 1922	Locality
729	<i>Cricetulus</i> (large)	♀	May 1	Turin
730	" (pale)	♂	" "	"
731	<i>Alactaga</i> (long ear)	♀	" 2	"
732	" "	♂	" "	"
733	" "	♂	" "	"
734	" "	?	" "	"
735	" "	♂	" "	"
736	" (short ear)	♂	" "	"
737	" (long ear)	♂	" 3	"
738	" "	♂	" "	"
739	" "	♂	" "	"
740	" "	♂	" "	"
741	" "	♂	" "	"
742	" "	♂	" "	"
743	" "	♂	" "	"
744	" "	♂	" 4	"
745	" "	"	"	"
746	<i>Alactaga</i> (short ear)	♂	" 4	"
747	<i>Alactaga</i> (long ear)	♂	May 4	Turin
748	" "	♂	" "	"
749	" "	♂	" "	"
750	" "	♂	" "	"
751	" "	♂	" "	"
752	" "	♂	" "	"
753	" "	♂	" "	"
754	<i>Cricetulus</i>	♂	" "	"
755	<i>Alactaga</i> (long ear)	♂	" 5	"
756	" "	♂	" "	"
757	" "	♂	" "	"

Chinese collector measurements

95-25-16-15
86-30-14-45
130-192-71-41
117-192-71-36
143-193-69-36
130-193-70-40
137-191-71-38
115-133-52-15
140-195-75-40
130-185-69-36
135-200-73-35
130-203-74-40
131-185-75-37
130-198-74-39
135-198-71-38
125-170-70-36
110-123+ - 55-16
135-186-75-40
130-176-71-35
148-194-75-40
125-191-70-40
130-202-71-42
128-191-68-36
128-196-70-37
72-11-12-13
140-180-70-40
125-190-68-38
132-192-71-38

	Species	Sex	Date	Locality
758	<i>Alaetaga</i> (long ear)	♂	May 5	Turin
✓ 759	<i>Ochotona</i>	♂	" "	"
760	<i>Alaetaga</i> (long ear)	♂	" 6	"
761	" "	♀	" 6	"
762	" "	♂	" "	"
763	" "	♂	" "	"
764	<i>Cricetulus</i>	♂	" "	"
765	<i>Alaetaga</i> (long ear)	♂	" "	"
766	" "	♂	" "	"
767	" "	♀	" 7	"
768	" "	♂	" "	"
769	" "	♂	" "	"
770	" "	♂	" "	"
771	" "	♂	" "	"
772	" "	♂	" "	"
773	" "	♂	" "	"
774	" "	♂	" "	"
775	<i>Meriones</i>	♂	" 8	"
776	" "	♀	" "	"
777	" "	♂	" "	"
778	<i>Meriones</i>	♂	" 8	"
779	<i>Alaetaga</i> (long ear)	♂	May 10	Turin
780	" " "	♂	" "	40 miles south Turin
781	" " "	♂	" "	" "
782	" " "	♂	" "	" "
783	" " "	♂	" "	" "
784	" " "	♂	" "	" "
785	" (small ")	♂	May 11	Turin
786	" " "	♂	" 11	"

Chinese collector measurements

130 - 182 - 67 - 38
185 - 0 - 30 - 17
128 - 180 - 72 - 39
130 - 195 - 71 - 38
140 - 197 - 73 - 40
140 - 208 - 75 - 41
82 - 13 - 14 - 16
125 - 202 - 71 - 40
123 - 192 - 73 - 38
141 - 165 - 74 - 40
135 - 185 - 71 - 38
134 - 181 - 72 - 41
134 - 195 - 72 - 41
136 - 186 - 77 - 39
123 - 177 - 70 - 41
143 - 194 - 69 - 40
130 - 190 - 73 - 40
106 - 101 - 31 - 15
111 - 94 - 30 - 14
119 - 110 - 30 - 15
120 - 95 - 32 - 14
135 - 190 - 77 - 38
130 - 190 - 73 - 40
129 - 202 - 75 - 40
140 - 190 - 75 - 39
132 - 190 - 70 - 38
135 - 190 - 73 - 38
118 - 156 - 61 - 20
130 - 158 - 63 - 22

no skull

No	SPECIES	SEX	DATE	LOCALITY	Chinese collector measurements
787	Alactaga (short ear)	♂	May 11	Turin	127-155-64-21
788	" " "	♀	" "	"	110-155-63-20
✓ 789 ⁵⁹⁷²⁸	Ochotona	♀	" "	"	160-0-28-18
790	Alactaga (short ear)	♂	" "	"	120-160-61-22
791	" (long ear)	♂	" 14	20 mi S.W. Ula	128-188-66-37
792	" " "	♂	" "	" " "	135-210-71-40
793	" " "	♂	" "	" " "	135-199-74-40
794	" " "	♂	" "	" " "	148-208-72-40
795	" " "	♂	" "	" " "	150-197-72-37
796	" " "	♂	May 15	" " "	140-188-71-39
797	" " "	♂	" "	" " "	138-208-77-36
798	" " "	♂	" "	" " "	145-196-70-38
799	" " "	♀	" "	" " "	138-215-75-39
800	" " "	♂	" "	" " "	130-193-75-38
801	" " "	♀	May 16	" " "	145-198-72-40
802	" " "	♂	" "	" " "	155-200-74-41
803	" " "	♂	" "	" " "	140-191-69-41
804	" " "	♂	" "	" " "	135-203-74-39
805	" " "	♂	" "	" " "	145-188-70-40
806	" " "	♂	" "	" " "	135-208-73-41
807	" " "	♂	" "	" " "	140-195-73-40
808	" " "	♂	May 17	" " "	135-184-69-37
809	" " "	♂	" "	" " "	130-187-72-40
810	" " "	♂	" "	" " "	138-190-68-38
811	" " "	♂	" "	" " "	136-195-68-36
✓ 812 ⁵⁹⁷¹⁷	Ochotona	♂	May 18	" " "	180-4-29-20
✓ 813 ⁵⁹⁷¹⁸	"	♂	" "	" " "	155-4-28-19
814 ⁵⁹⁷²³	"	♂	" "	" " "	158-3-28-18
✓ 815 ⁵⁹⁷¹⁹	"	♀	" "	" " "	165-4-29-19
✓ 816 ⁵⁹⁷²¹	"	♀	" "	" " "	160-4-28-19

No	SPECIES	Sex	DATE	LOCALITY	Chinese collector measurements
✓ 817	⁵⁹⁷²⁰ Ochrotoma	♀	May 18	20 mi S.W. Unga	150-4-29-21
✓ 818	⁵⁹⁷²⁵ " "	♀ juv	" "	" " "	105-0-25-15
✓ 819	⁵⁹⁷²⁶ " "	♂ juv	" "	" " "	105-0-25-15
820	Alastaga (long ear)	♂	" "	" " "	148-190-75-40
821	" " "	♂	" "	" " "	152-201-74-39
822	" " "	♂	" "	" " "	150-182-72-39
✓ 823	⁵⁹⁷²⁷ Ochrotoma	♀ juv	" "	" " "	104-0-24-15
824	Alastaga (large ear)	♀	" 19	" " "	145-210-75-41
825	" " "	♂	" "	" " "	137-201-75-42
826	" " "	♂	" "	" " "	132-200-71-39
827	" " "	♂	" "	" " "	134-190-71-41
828	" " "	♂	" "	" " "	145-188-75-41
829	" " "	♂	May 20	Tola River, 8 mi W of Unga	132-195-73-39
830	" " "	♀	" "	" " "	145-200-72-36
831	Cricetulus	♂	" "	" " "	95-5-11-14
832	Alastaga (large ear)	♂	" "	" " "	135-180-65-40
833	" " "	♂	" "	" " "	140-152-70-38
834	" " "	♂	" "	" " "	140-195-73-35
835	" " "	♂	" "	" " "	136-192-71-39
836	Ochrotoma	♀ juv	May 19	20 mi S.W. Unga	100-0-23-16 - no skull
837	" "	♀	" "	" " "	175-5-29-15
838	Citellus	♂	" "	" " "	200-59-34-9
✓ 839	⁵⁹⁷³¹ Ochrotoma	♂ juv	" 21	30 " N.E. of Tje Tjerrang	126-6-27-19
✓ 840	⁵⁹⁷³⁰ " "	♀	" "	" " "	122-6-27-19
841	Microtus	♂	" "	" " "	108-22-76-12 110-30-20-11
842	" "	♂	" "	" " "	105-22-16-12
843	" "	♂	" "	" " "	106-21-16-11
844	" "	♀	" "	" " "	100-25-20-10
845	Cricetulus	♀	" "	" " "	79-10-11-12

No	SPECIES	SEX	DATE	Locality	Chinese collector measurements
846	Cricetulus	♂	May 21	30 mi n. e of Tze Tze Wang	90-13-12-15
847	Microtus	♂	" "	" "	113-25-20-21
✓ 848 ⁵⁹⁷³²	Ochrotoma	♀	" "	" "	168-6-28-18
849	Citellus	♀	" "	" "	200-50-41-10
850	Marmota				433-138-80-28
851	Citellus	♂	" "	" "	210-110-43-9
852	"	♂	" "	" "	210-98-48-7
853	Marmota	♀	" "	" "	417-135-90-25
58227 854	"	♂	" "	" "	366-125-80-25
57374 855	"	♂	" "	" "	468-170-85-27
856	Meriones	♂	Apr. 25	Iren Dabasu (Erlie)	120-87-28-14
857	Alactaga (long ear)	♀	" 25	" "	132-222-73-37
858	" "	♂	" "	" "	130-222-73-37
859	Meriones	♂	" "	" "	120-87-28-14
860	"	♀	" "	" "	120-87-28-14
861	"	♂	" "	" "	—
862	"	♀	" "	" "	—
863	Cricetulus	♀	Apr. 23	Pang-hiang	118-18-18-12
864	"	♀	" "	"	130-20-18-15
865	Meriones	♀	Apr. 25	Iren Dabasu (Erlie)	120-90-28-15
866	Alactaga (short ear)	♀	" "	" "	113-150-58-18
867	Large sand rat	♀	" "	" "	195-130-40-12
868	Pocket rat	♂	" "	" "	108-10-21-X
869	Alactaga (short ear)	♀	" "	" "	120-138-60-18
870	" "	♂	" "	" "	120-145-60-22
871	" "	♂	" "	" "	128-143-60-20
872	" "	♀	" "	" "	115-158-60-20
873	" "	♀	" "	" "	110-150-64-19
874	" "	♀	" "	" "	120-145-60-20

No	Species	Sex	Date	Locality
875	Meriones Alactaga (short ear)	♂	Apr. 25	Iren Dabasu
876	Meriones	♂	" "	"
877	"	♂	" "	"
878	Alactaga (short ear)	♀	" "	"
879	" " "	?	" "	"
880	" " "	♀	" "	"
881	" " "	♀	" 27	"
882	Meriones	♂	" "	"
883	"	♀	" "	"
884	Alactaga (short ear)	♂	" "	"
885	Pohet rat	♂	" "	"
886	Meriones	♀	" "	"
887	Pohet rat	♀	" "	"
888	Alactaga (short ear)	♂	" 28	"
889	" " "	♀	" "	"
890	Meriones	♂	" "	"
891	"	♀	" "	"
892	"	♂	" "	"
893	Alactaga (short ear)	♂	" 29	"
894	" " "	♂	" "	"
895	" " "	♀	" "	"
896	" " "	♀	" "	"
897	Meriones	♂	" "	"
898	"	♀	" "	"
899	Alactaga (short ear)	♀	May 2	"
900	Alactaga (short ear)	♂	Apr. 29	"
901	" " "	♀	" 30	"
902	" " "	♀	" "	"
903	" " "	♂	May 1st	"

Chinese collected measurements

(Erhlien)

120-94-30-13
118-85-30-12
110-105-28-13 (no skull)
116-145-60-18
115-150-62-X
105-148-59-17
120-135-60-23
108-92-31-13
100-80-31-13
120-132-59-19 (no skull)
95-8-19-X
100-102-30-11 no skull
95-9-19-X
118-146-58-18
118-146-58-18
120-95-30-14
115-85-29-13
115-90-39-13
128-164-62-22
110-150-60-22
110-143-60-19
114-148-59-19 (no skull)

90-80-26-X
120-155-60-19
120-148-59-21 (no skull)
120-148-62-X
105-150-62-14
118-135-60-17

No.	Species	Sex	Date	Locality
904	Alastaga (short ear)	♂	May 1	Jren Dabasu (Erluian)
905	Meriones "	♂	" 1	" "
906	" "	♂	" "	" "
907	" "	♀	" "	" "
908	" "	♂	" "	" "
909	" "	♀	" "	" "
910	Meriones	♂	" "	" "
911	Alastaga (short ear)	♀	" 2	" "
912	Meriones	♂	" "	" "
913	"	♂	" "	" "
914	Cucetulus (large)	♂	" "	" "
915	Meriones	♂	" "	" "
916	"	♀	" "	" "
917	Alastaga (short ear)	♀	" 3	" "
918	Pohet rat	♀	" 3	" "
919	Alastaga (short ear)	♂	" "	" "
920	" "	♀	" "	" "
921	" "	♀	" "	" "
922	Meriones	♀	" "	" "
923	Alastaga (short ear)	♂	" "	" "
924	Meriones	♂	" "	" "
925	Alastaga (short ear)	♀	" 3	" "
926	" (long ear)	♀	" 5	" "
927	" (short ear)	♂	" "	" "
928	" "	♂	" 5	" "
929	Meriones	♂	" "	" "
930	Meriones	♂	May 22	30mi N.E. of Tze Tze Wang
931	"	♀	"	" "
932	Meriones	♀	May 22	" "

8
9
10
11
12

Measurements
125-156-61-21
120-150-60-21
120-155-58-21
118-149-58-29
128-155-63-19
120-151-58-21
122-86-29-13
120-140-56-20
120-100-29-14
118-91-28-13
115-18-17-16
120-91-27-13
100-99-27-11
110-130-61-18
100-9-20-X
125-162-63-20
125-153-59-21
122-118+-61-20
110-131+-29-13
125-150-60-20
90-74-27-12
125-155-62-21
155-198-70-40
135-153-62-21
130-150-64-22
116-108-32-14
110-27-21-11
105-24-20-11
110-19-19-10

No	Species	Sex	Date	Locality	Measurements
933	Microtus		May 22	30 mi n.e. of Tze Tzen Wang	108-25-20-10 112-27-20-12
934	"	♀	" "	"	108-25-20-10
935	Alactaga (long ear)	♂	" "	"	136-188-71-38 no skull
936	"	♂	" "	"	138-188-71-39
937	Ochotona	♀	" "	"	182-5-27-19 no skull
✓ 938 ⁵⁹⁷³⁴	"	♀	" "	"	170-4-28-20
939	Citellus	♀	" "	"	215-100-40-8
940	"	♀	" "	"	220-110-41-9
941	Microtus	♂	" "	"	118-25-20-10
942	"	♀	" "	"	102-25-20-12
943	"	♂	" "	"	110-24-19-7 no skull
944	Citellus	♂	" "	"	210-105-41-8
945	Microtus - juv.	♀	" "	"	60-15-13-4
946	Marmota	?	" "	"	472-160-92-26
✓ 947	"	♂	" "	"	470-140-81-20
948	Microtus	♂	" "	"	118-30-20-9
949	Marmota	♀	" "	"	430-140-85-20
950	Microtus	♂	" 24	Tze Tzen Wang	120-26-20-11
951	"	♀	" "	" " "	123-26-19-10
952	"	♀	" "	" " "	120-26-18-10
953	"	♂	" "	" " "	115-25-18-9
954	Cricetulus (brown)	♂	" "	" " "	95-22-15-15
955	Microtus	♀	" "	" " "	120-29-17-11
956	"	♀	" "	" " "	130-27-20-10
957	Microtus	♀	" "	" " "	120-27-17-11
958	"	♂	" "	" " "	125-31-20-10
959	Microtus	♂	" "	" " "	123-26-20-10
960	Cricetulus (brown)	♂	" "	" " "	120-26-19-9
961	"	♀	" "	" " "	110-26-18-9

No	Species	Sex	Date	Locality
962	<i>alactaga (long ear)</i>	♂	May 24	Tze Tzeu Wang
963	<i>Microtus</i>	♂	" "	" " "
964	"	♂	" "	" " "
965	"	♀	" "	" " "
966	"	♂	" "	" " "
967	"	♀	" "	" " "
968	"	♀	" "	" " "
969	<i>Microtus</i>	♀	" "	" " "
970	<i>Marmota</i>	♂	" 23	" " "
971	"	♂	" "	" " "
972	"	♂	" "	" " "
973	"	♂	" 24	" " "
974	"	♂	" "	" " "
975	<i>Microtus</i>	♂	" 25	" " "
976	"	♀	" "	" " "
977	"	♂	" "	" " "
978	"	♂	" "	" " "
979	"	♀	" "	" " "
980	"	♂	" "	" " "
981	"	♀	" "	" " "
982	"	♀	" "	" " "
983	" <i>juv.</i>	♂	" "	" " "
984	"	♂	" "	" " "
985	"	♀	" "	" " "
986	"	♀	" "	" " "
987	"	♂	" "	" " "
988	"	?	" "	" " "
989	"	?	" "	" " "
990	"	♀	" "	" " "

Chinese collected + Granger measurements

140-198-71-39
120-26-20-11
112-24-20-12
115-26-18-19
115-26-19-9
126-26-18-9
135-31-18-10
125-25-18-9
520-175-90-25
400-130-82-25
460-140-90-26
380-140-80-24
400-135-90-25
117-20-19-10
126-25-20-10
126-25-21-11
132-27-20-12
134-24-19-12
128-28-21-12
126-22-19-10
115-22-18-10
67-15-15-7
64-18-15-7
62-13-14-6
62-12-14-6.5
67-16-15-6
54-12-13-5
54-12-13-5
54-12-13-5

} measurements by
Granger

No	Species	Sex	Date	Locality
991	Citellus	♀	May 25	Tze Tzen Wang
992	Microtus	♂	" "	" " "
993	"	♂	" "	" " "
994	"	♀	" "	" " "
995	Marmota	♀	" "	" " "
996	"	♂	" "	" " "
997	Microtus	♀	" "	" " "
998	"	♂	" "	" " "
999	"	♀	" 26	" " "
1000 ⁵⁷³⁵³	Canis lupus	♂	" "	" " "
1001 ⁵⁷³⁴²	"	♀	" "	" " "
✓ 1002 ⁵⁹⁷³⁵	Ochotona	♂	" 27	" " "
1003	Citellus	♂	" "	" " "
1004	Marmota	"	" "	" " "
1005	Citellus	♂	" "	" " "
⁵⁷³³⁸ 1006	Mustela	♂	" 28	" " "
1007	marmota	"	" "	" " "
1008	Microtus	♀	" 31	40 miles South west of Tze Tzen Wang
1009	"	♂	" 31	" " "
1010	Cricetulus	♀	" 31	" " "
1011	Alactaga (long ear)	♀	" 31	40 miles Southwest of Tze Tzen Wang
1012	" "	♂	" "	" " "
1013	" "	♂	" "	" " "
1014	Cricetulus	♂	" "	" " "
1015	Microtus	♂	" "	" " "
1016	Cricetulus	♂	" "	" " "
1017	Citellus	♀	" "	" " "
1018	Alactaga	♂	" "	" " "
1019	Cricetulus	♂	" "	" " "

Measurements by Grainger

206 - 105 - 45 - 9
131 - 27 - 20 - 11
134 - 31 - 20 - 11
124 - 24 - 20 - 10
420 - 168 - 89 - 22
430 - 140 - 90 - 24
125 - 25 - 21 - 11
115 - 22 - 23 - 10
113 - 24 - 17 - 10
496 - 167 - 130 - 70
484 - 150 - 119 - 63
176 - 0 - 19 - 19 (w.G.)
200 - 107 - 40 - 9
210 - 100 - 43 - 9
437 - 180 - 75 - 35
113 - 23 - 18 - 11
110 - 25 - 18 - 11
80 - 7(?) - 13 - 15
125 - 187 - 70 - 41
130 - 200 - 71 - 42
130 - 200 - 72 - 41
95 - 25 - 16 - 17
112 - 23 - 19 - 13
88 - 10 - 13 - 14
215 - 105 - 41 - 9
130 - 195 - 71 - 40
110 - 25 - 16 - 18

Measurements by Grainger

skin + skeleton

No.	Species	Sex	Date	Locality
✓ 1020	<i>Cricetulus</i> juv.	♂	May 31	40 miles Southwest of Tze Tze Wang
✓ 1021 ⁵⁹⁷³⁷	<i>Ochotona</i> juv.	♀	" "	" "
✓ 1022 ⁵⁹⁷³⁶	"	♂	" "	" "
1023 ^A	Rock mouse	♀	June 1	" "
1024 ^B	<i>Microtus</i>	♂	" "	" "
1025	"	♀	" "	" "
1026	<i>Cricetulus</i>	?	" "	" "
1027	" juv.	♂	" "	" "
1028	"	♂	" "	" "
✓ 1029 ⁵⁹⁷⁴³	<i>Ochotona</i>	♀	" "	" "
✓ 1030 ⁵⁹⁷⁴⁴	"	♀	" "	" "
1031	<i>Alactaga</i> (long ear)	♂	" "	" "
1032	<i>Microtus</i>	♂	" "	" "
1033	" juv.	♂	" "	" "
1034	"	?	" "	" "
1035	"	♂	" 2	Onqin River
1036	" juv.	♂	" "	" "
1037	"	♂	" "	" "
1038	<i>Citellus</i>	♂	" "	Sain Nam Khan 7000 ft
1039	"	♀	" "	" "
1040	Rock mouse	♂	" 3	" "
1041	"	♀	" "	" "
1042	<i>Citellus</i>	♀	" "	" "
1043	<i>Microtus</i>	♀	" "	" "
1044	Rock mouse	♂	" "	" "
1045	"	♀	" 4	" "
1046	<i>Alactaga</i> (large ear)	♀	" "	" "
1047	"	♂	" "	" "
1048	"	♂	" "	" "

Chinese collector measurements

80-18-16-15	
107-6-23-14	
210-15-35-22	
120-28-21-19	} measured by W.S.
119-28-22-17	
115-25-20-12	
126-27-21-11	
95-23-14-15	
77-21-14-16	
73-22-15-16	no skull.
112-6-23-15	
181-17-35-27	
130-195-70-38	
131-35-21-11	
80-16-16-7	
86-19-17-8	
125-27-20-10	
85-20-19-9	
115-25-21-10	
210-95-45-10	
205-100-44-10	
66-13-16-7	
63-14-16-7	
210-105-45-11	
125-28-21-11	
118-35-21-16	
113-36-22-20	
140-201-72-40	
134-185-70-40	
138-178-70-38	

No.	Species	Sex	Date	Locality
1049	Citellus	♂	June 4	Sain Noin Khan
1050	"	♀	" "	"
1051	Rock Mouse	♀	" "	"
1052	"	♀	" "	"
1053	"	♂	" "	"
1054	"	♂	" "	"
1055	Citellus	♂	" "	"
1056	"	♂	" "	"
1057	"	♀	" "	"
1058	"	♀	" "	"
1059	"	♀	" "	"
1060	"	♂	" "	"
1061	"	♀	" "	"
1062	"	♀	" "	"
1063	"	♂	" "	"
1064	"	♂	" "	"
1065	"	♀	" "	"
1066	Rock Mouse	♂	" "	"
1067	" "	♀	" 5	"
1068	" "	♂	" "	"
1069	" "	♂	" "	"
1070	" "	♀	" "	"
1071	Rock Mouse	♂	" "	"
1072	Citellus	♀	" "	"
1073	"	♂	" "	"
1074	"	♀	" "	"
1075	"	♀	" "	"
1076	"	♂	" "	"
1077	"	♂	" "	"

Chinese coarctate measurements

7000 ft-	215-110-48-10
"	205-95-46-10
"	171-35-23-21
"	130-38-23-20
"	110-31-22-18
"	115-30-23-18
"	220-100-41-10
"	225-105-41-10
"	203-95-40-9
"	237-105-40-10
"	225-103-40-10
"	215-98-43-10
"	198-95-45-10
"	210-95-40-9
"	220-103-41-10
"	225-108-41-10
"	220-100-41-10
"	110-25-20-15
"	In formalin
"	110-30-19-20
"	105-28-20-15
"	120-30-20-17
"	Skeleton only
"	210-95-45-10
"	208-100-43-10
"	200-96-44-10
"	209-110-46-10
"	200-100-45-10
"	220-110-47-11

No.	Species	Sex	Date	Locality
1078	Citellus	♀	June 5	Sain Noin Khan 7000ft
1079	"	♀	" "	" "
⁵⁵⁹⁸² 1080	"	♀	" "	" "
1081	Rock Mouse	♂	" 6	" "
1082	"	♀	" "	" "
1083	"	♂	" "	" "
1084	Citellus	♂	" "	" 8000ft
1085	"	♀	" "	" "
1086	Rock Mouse	♂	" 7	" 7000ft
1087	Crasomys	♀	" 8	" 8000ft
1088	"	♀	" "	" "
1089	Microtus (dark gray)	♂	" "	" "
1090	Crasomys	♀	" "	" "
1091	"	♂	" "	" "
⁵⁵⁸⁸² ✓ 1092	Ochotona juv.	♀	" "	" "
1093	"	"	" "	" "
1094	Rock Mouse	♀	" "	" "
1095	"	♀	" "	" "
1096	Crasomys juv.	?	" "	" "
1097	Microtus (yellow)	♀	" 9	" "
1098	Crasomys	♂	" "	" "
1099	Eutamias	♀	" "	" "
1100	Microtus (dark brown)	♀	" "	" "
1101	"	?	" "	" "
⁵⁸⁸⁸⁴ ✓ 1102	Ochotona	♀	" 9	" "
1103	Eutamias	♀	" "	" "
1104	Rock Mouse	♀	" 10	" "
⁵⁸⁸⁸¹ ✓ 1105	Ochotona	♀	" "	" "
1106	Rock Mouse	♂	" "	" "

Chinese collection measurements

205 - 98 - 45 - 9

205 - 103 - 46 - 11

Skeleton only

105 - 25 - 20 - 16

106 - 36 - 21 - 17

116 - 28 - 23 - 19

220 - 97 - 39 - 10

205 - 90 - 38 - 9

117 - 35 - 23 - 18

105 - 35 - 20 - 16

115 - 38 - 16 - 17

95 - 21 - 14 - 11

110 - 39 - 20 - 15

103 - 34 - 20 - 15

137 - 11 - 25 - 18

125 - 30 - 20 - 18

127 - 31 - 20 - 19

78 - 20 - 17 - 12

105 - 19 - 15 - 10

110 - 30 - 17 - 17

146 - 90 - 36 - 19

110 - 40 - 16 - 14

120 - 40 - 17 - 14

170 - 5 - 33 - 25

145 - 105 - 36 - 16

120 - 12 - 11 - 16

150 - 11 - 26 - 18

100 - 31 - 21 - 18

	Species	Sex	Date	Locality	
1107	Microtus (dark gray) ^{yellow}	♂	June 10	Sain Nain Khan	8000 ft.
1108	Rock Mouse	♀	"	"	"
✓ 1109	⁵⁸⁸⁸⁵ Ochotona	♂	"	"	"
✓ 1110	⁵⁸⁸⁸⁸ "	♂	"	"	"
1111	Cricetulus	♂	"	"	"
1112	Rock Mouse	♂	"	"	"
1113	Cricetulus	♂	"	"	"
1114	Cracomys	♀	"	"	"
1115	"	♂	"	"	"
1116	Microtus (yellow)	♂	"	"	"
1117	Citellus	♂	"	"	"
1118	"	♂	"	"	"
1119	Microtus (yellow)	♂	"	"	"
1120	Microtus (yellow)	♀	"	"	"
1121	"	♀	"	"	"
1122	Microtus (yellow) juv.	♀	"	"	"
1123	Microtus (yellow) juv.	♂	"	"	"
1124	"	♀	"	"	"
1125	Rock Mouse juv.	♀	" 11	"	"
1126	"	♂	"	"	"
✓ 1127	⁵⁸⁸⁸¹ Ochotona	♂	"	"	"
1128	Rock Mouse	♂	"	"	"
1129	Microtus (yellow)	♂	"	"	"
1130	"	♀	"	"	"
1131	"	♀	"	"	"
1132	" juv.	♂	"	"	"
1133	Eutamias	♂	" 11	"	"
1134	Microtus (yellow) juv.	♂	"	"	"
1135	Eutamias	♂	" 11	"	"

Chinese Collectors' Measurements

105 - 21 - 15 - 11
107 - 29 - 20 - 18
170 - 10 - 26 - 17
160 - 9 - 28 - 20
95 - 20 - 16 - 15
105 - 31 - 20 - 16
95 - 22 - 16 - 17
105 - 33 - 19 - 16
120 - 37 - 3? - ?
125 - 28 - 17 - 11
230 - 110 - 42 - 10
215 - 115 - 42 - 9
110 - 21 - 15 - 9
116 - 17 - 14 - 7
110 - 15 - 15 - 7
80 - 22 - 15 - 9 (no skull)
80 - 20 - 15 - 8
87 - 14 - 13 - 8
75 - 23 - 19 - 13
73 - 23 - 18 - 13
140 - 10 - 26 - 18
105 - 24 - 20 - 18
110 - 22 - 16 - 10
110 - 22 - 16 - 10
107 - 23 - 15 - 10
85 - 18 - 14 - 8
137 - 105A - 35 - 18
98 - 20 - 15 - 7
141 - 106 - 35 - 17

Species	Sex	Date	Locality	8000 ft -	Chinese Collector's Measurements
1136 Eutamias	♀	June 11	Sain Noin Khan	8000 ft -	138 - 107 - 35 - 17
1137 Citellus	♀	" "	"	"	222 - 103 - 42 - 10
1138 ⁵⁹⁷⁴⁵ Ochotona juv.	♂	" "	"	"	130 - 8 - 25 - 19
✓ 1139 ⁵⁹⁷⁴⁶ "	♀	" "	"	"	175 - 11 - 32 - 25
1140 Eutamias	♀	" "	"	"	140 - 87 - 38 - 19
1141 Microtus (dark gray)	♂	" "	"	"	103 - 20 - 18 - 12 (no skull)
1142 " " juv.	♂	" "	"	"	81 - 21 - 17 - 9
1143 Microtus " "	♂	" "	"	"	63 - 11 - 15 - 6
✓ 1144 ⁵⁹⁷⁴⁷ Ochotona	♂	" 12	"	"	175 - 0 - 33 - 24
✓ 1145 ⁵⁹⁷⁴⁸ "	♂	" "	"	"	155 - 9 - 30 - 25
1146 " juv.	♂	" "	"	"	110 - 5 - 25 - 20
1147 Eutamias	♂	" "	"	"	151 - 70 - 35 - 17
1148 Citellus	♀	" "	"	"	230 - 104 - 40 - 9
1149 Microtus (dark gray)	♂	" "	"	"	112 - 24 - 18 - 12
1150 " "	♀	" "	"	"	97 - 23 - 18 - 12
1151 Rock Mouse juv.	♀	" "	"	"	80 - 24 - 20 - 16 (no skull)
1152 Microtus (dark brown)	♂	" "	"	"	115 - 38 - 19 - 15
1153 " "	♂	" "	"	"	116 - 40 - 20 - 14
1154 " "	♂	" "	"	"	112 - 35 - 20 - 14
1155 " "	♂	" "	"	"	120 - 40 - 20 - 15
1156 " "	♂	" "	"	"	117 - 27 - 19 - 14
1157 " "	♂	" "	"	"	120 - 44 - 20 - 15
1158 " "	♀	" "	"	"	100 - 32 - 18 - 14 (no skull)
1159 Sorex (brown)	♂	" "	"	"	64 - 35 - 13 - 7
1160 Microtus (dark brown)	♀	" "	"	"	105 - 30 - 19 - 13 (no skull)
1161 " "	♀	" "	"	"	102 - 36 - 19 - 13
1162 " (yellow)	♀	" "	"	"	92 - 25 - 17 - 12
1163 " "	♀	" "	"	"	1 - - - - 1
1164 Eutamias	♂	" "	"	"	140 - 95 - 37 - 16

	Species	Sex	Date	Locality
1165	Sorex (brown)	♂	June 12	Sain Noin Khan
1166	Microtus (dark brown)	♂	" "	"
1167	" "	♂	" "	"
1168	" "	♀	" "	"
1169	" "	♀	" "	"
✓ 1170 ⁵⁹⁷⁵⁰	Ochotona	♀	" 13	"
1171	Microtus (yellow)	♀	" 13	"
1172	Citellus	?	" "	"
✓ 1173 ⁵⁹⁷⁵¹	Ochotona	♀	" "	"
1174	Microtus (dark gray)	?	" "	"
1175	" (dark brown)	♂	" "	"
1176	" "	♂	" "	"
1177	" "	♀	" "	"
1178	" "	♀	" "	"
1179	Crasomys	♂	" "	"
1180	Microtus (dark brown)	♂	" "	"
1181	Crasomys	♂	" "	"
1182	"	♂	" "	"
1183	Microtus (dark gray)	♂	" "	"
1184	Crasomys	♂	" "	"
1185	Crasomys	♂	" "	"
1186	"	♀	" "	"
1187	"	♀	" "	"
1188	Crasomys	♀	" "	"
1189	"	♂	" "	"
1190	"	♂	" "	"
1191	Microtus (yellow)	♀	" 14	"
1192	" "	♀	" "	"
1193	Crasomys (red back)	♂	" "	"

Chinese Collector's Measurements

8000 ft.	Chinese Collector's Measurements
	68-35-12-7 (no skull)
"	106-40-19-13
"	124-41-19-14
"	110-41-19-14
"	115-42-18-13 (no skull)
"	160-10-25-19
"	128-22-15-8
"	215-115-40-10
"	175-10-26-19
"	110-23-15-10
"	120-45-20-15 (no skull)
"	123-42-18-15
"	110-40-19-14
"	105-35-19-12
"	85-16-19-15
"	118-34-18-13
"	118-34-18-14
"	110-29-18-15
"	110-25-15-10
"	100-35-18-18
"	100-25-18-17
"	100-14-17-11
"	100-14-17-11
"	90-11(?) - 16-10 (no skull)
"	80-21-17-14
"	98-25-19-15
"	110-24-16-12
"	107-21-16-11 (no skull)
"	110-32-17-15

	Species	Sex	Date	Locality
1194	Microtus (yellow)	♂	June 14	Sain Koin Khan
1195	"	♂	"	"
1196	"	♂	"	"
1197	"	♀	" 15	"
1198	"	♂	"	"
1199	"	♂	"	"
1200	"	♂	"	"
1201	"	♂	"	"
1202	"	♂	"	"
1203	"	♀	"	"
1204	"	♂	"	"
1205	Rock Mouse	♀	"	"
1206	Microtus (yellow)	♀	"	"
1207	Cricetulus	♂	"	"
1208	Microtus (yellow)	♂	"	"
1209	Alactaga (large ear)	♂	" 16	Hurum Tu
1210	Microtus (pale)	♂	"	"
1211	Rock Mouse	♂	"	"
1212	Microtus (pale)	♂	"	"
1213	"	♀	"	"
1214	"	♀	"	"
1215	"	♀	"	"
1216	"	♀	"	"
1217	" juv.	♂	"	"
1218	Alactaga (large ear)	♂	" 17	"
1219	"	♂	"	"
1220	"	♂	"	"
1221	"	♂	"	"
1222	Rock Mouse	♀	"	"

	Chinese Collector's Measurements
8000 ft.	110 - 25 - 15 - 10
"	120 - 23 - 15 - 10
"	110 - 24 - 15 - 10
"	110 - 25 - 15 - 10
"	105 - 25 - 17 - 10
"	100 - 23 - 15 - 10
"	110 - 25 - 15 - 10
"	110 - 25 - 15 - 10
"	110 - 25 - 15 - 10
"	110 - 25 - 15 - 9
"	120 ^(?) - 25 - 15 - 10
"	120 - 34 - 20 - 18
"	115 - 25 - 15 - 10
"	110 - 25 - 15 - 15
"	110 - 25 - 15 - 9
7000 ft.	140 - 212 - 71 - 39
"	120 - 37 - 18 - 11
"	110 - 15 - 20 - 17
"	116 - 25 - 19 - 11
"	115 - 24 - 19 - 11
"	115 - 24 - 19 - 11
"	120 - 24 - 19 - 11
"	115 - 23 - 19 - 11 (no skull)
"	70 - 17 - 15 - 7
"	130 - 200 - 69 - 40
"	136 - 205 - 71 - 43
"	117 - 180 - 72 - 41
"	135 - 200 - 70 - 39
"	110 - 35 - 22 - 18

	Species	Sex	Date	Locality
1223	Microtus (pale)	♂	June 17	Huimin Tu
1224	"	♀	"	"
1225	"	♂	"	"
1226	"	♀	"	"
1227	"	♀	"	"
1228	"	♀	"	"
1229	"	♀	"	"
1230	"	♂	"	"
1231	Rock Mouse juv.	♂	"	"
1232	"	♀	"	"
1233	"	♂	"	"
1234	"	♂	"	"
1235	"	♂	"	"
1236	"	♂	"	"
1237	"	♀	"	"
1238	"	♀	"	"
1239	Citellus	♀	"	"
1240 ⁵⁷²⁶⁰	Gazella gutturosa	"	"	"
1241 ⁵⁷²⁸²	"	"	"	"
1242 ⁵⁷²⁸³	"	"	"	"
1243	Alactaga (large ear)	♂	" 19	Yun Burma
1244	"	♂	"	"
1245	"	♂	"	"
✓ 1246 ⁵⁸⁸⁸³	Ochotona (big foot)	♂	"	"
✓ 1247 ⁵⁸⁸⁷⁸	" (small foot)	♀	"	"
✓ 1248 ⁵⁸⁸⁷⁶	"	♂	"	"
1249	Cricetulus	♂	"	"
1250	"	♂	"	"
1251	"	♂	"	"

Chinese Collector's Measurements

Altitude	Measurements	Notes
7000 ft.	112 - 30 - 20 - 10	
"	120 - 29 - 21 - 10	
"	123 - 26 - 20 - 10	
"	120 - 26 - 18 - 10	
"	121 - 27 - 21 - 11	
"	118 - 27 - 21 - 21 12	
"	115 - 26 - 19 - 10	no skull.
"	98 - 20 - 20 - 9	
"	84 - 27 - 21 - 14	
"	85 - 21 - 20 - 15	
"	82 - 21 - 20 - 14	
"	115 - 35 - 23 - 14	no skull
"	118 - 26 - 21 - 17	no skull
"	116 - 27 - 23 - 19	
"	119 - 31 - 23 - 19	
"	118 - 30 - 24 - 18	
"	215 - 93 - 44 - 9	
"		skin - skull and leg bones
"		" " " "
"		skull and head skin only
6800 ft	136 - 185 - 69 - 40	
"	142 - 190 - 74 - 41	
"	131 - 192 - 66 - 41	
"	185 - 11 - 34 - 25	
"	170 - 11 - 31 - 22	
"	150 - 9 - 32 - 24	
"	110 - 20 - 18 - 18	
"	128 - 24 - 19 - 17	
"	125 - 24 - 19 - 16	

	Species	Sex	Date	Locality			
1252	Cricetulus	♂	June 19	Gun Burda	6800 ft.	119-18-18-17	
1253	"	♂	" "	"	"	109-20-18-14	
1254	Rock mouse	♂	" "	"	"	112-29-22-19	
1255	Cricetulus	♀	" "	"	"	110-20-18-16	
1256	Rock mouse	♀	" "	"	"	87-23-21-17	
1257	Meriones (yellow)	♂	" 20	"	"	120-95-30-14	
1258	Alactaga	♂	" "	"	"	In formalin	
1259	Dipus (yellow tail)	♂	" "	"	"	122-144-51-16	
1260	Meriones (yellow)	♀	" "	"	"	130-116-32-15	
1261	Ochotona (big foot)	♀	" "	"	"	186- -32-22	
1262	"	♀	" "	"	"	190- -36-22	
1263	" (small foot)	♂	" "	"	"	142- -29-16	
1264	Thomomys	♀	" "	"	"	76-50-17-11	
1265	Rock mouse	♂	" "	"	"	112-30-21-17	
1266	"	♀	" "	"	"	123-30-21-19	
1267	"	♂	" "	"	"	?-30-20-18 (body severed)	
1268	"	♀	" "	"	"	115-32-21-19	
1269	Cricetulus	♀	" "	"	"	In formalin	
1270	Meriones (yellow)	♂	" "	"	"	80-85-29-12	
1271	Moschus	♀	winter of 1922	Tariche River	"	killed by native hunter & purchased - skin & skull	
1272	Ochotona	♂	June 21	Gun Burda	"	217-9-36-20	
1273	"	♀	" "	"	"	215-10-34-19 no skull	
1274	"	♂	" "	"	"	215-10-35-23 " "	
1275	"	"	" "	"	"	} measurements by Andrews	
1276	"	♀	" "	"	"		205-15-33-22
1277	"	♂	" "	"	"		205-10-35-22
1278	Ochotona	♂	" "	"	"		202- -35-19
1279	"	♂	" "	"	"		195- -33-19
1280	"	♂	" "	"	"		182- -30-17

	Species	Sex	Date	Locality
✓	281 ⁵⁸⁸⁹⁹ <i>Onychomys</i>	♂	June 21, 1922	Guerrero
✓	282 ⁵⁸⁹⁰⁰ "	♂	" "	"
✓	283 ⁵⁸⁹⁰¹ "	♀	" "	"
✓	284 ⁵⁸⁹⁰² "	♀	" "	"
✓	285 ⁵⁸⁹⁰³ "	♀	" "	"
✓	286 ⁵⁸⁹⁰⁴ "	♀	" "	"
✓	287 ⁵⁸⁹⁰⁵ "	♀	" "	"
✓	288 ⁵⁸⁹⁰⁶ "	juv ♂	" "	"
✓	289 ⁵⁸⁹⁰⁷ "	♀	" "	"
	1290 "	♂	" "	"
	1291 "	♂	" "	"
	1292 "	♀	" "	"
	1293 <i>Neotoma</i>	♂	" "	"
	1294 " "	ad ♂	" "	"
	1295 <i>Cricetulus</i>	♂	" "	"
	1296 <i>Meriones</i>	♂	" "	"
	1297 <i>Citellus</i>	♀	" "	"
	1298 <i>Alactaga</i>	♀	" 22	Masruk 6,500 ft
	1299 "	♀	" "	"
	1300 "	♀	" "	"
	1301 "	♀	" "	"
	1302 "	♂	" "	"
	1303 <i>Dipus</i>	♂	" "	"
	1304 <i>Citellus</i>	juv ♂	" "	"
	1305 <i>Lepus</i>	♂	" "	"
	1306 "	♂	" "	"
	1307 <i>Citellus</i>	♂	" 23	"
	1308 "	♀	" "	"
	1309 "	juv ♀	" "	"

Measurements by Andrews		
197	197 -	-35 - 21
	207 -	-34 - 21
	195 -	35 - 21
	198 -	33 - 19
	210 -	33 - 21
	215 -	37 - 22
	220 -	33 - 22
	145 -	30 - 16
	135 -	27 - 17
	138 -	28 - 15
	114 -	25 - 14
	140 -	29 - 18
	133 -	32 - 21 - 21
	104 -	25 - 21 - 19
	98 -	24 - 17 - 15
	135 -	95 - 32 - 14
	220 -	48 - 39 - X
	135 -	198 - 70 - 39
	140 -	182 - 71 - 37
	135 -	180 - 67 - 39
	143 -	195 - 70 - 40
	150 -	198 - 68 - 35
	128 -	150 - 55 - 16
	160 -	39 - 40 - X
	460 -	80 - 121 - 90
	480 -	85 - 120 - 85
	190 -	57 - 40 - X
	195 -	60 - 39 - X
	158 -	44 - 38 - X

no stance

	Species	Sex	Date	Locality
1310	Citellus	juv ♂	June 23	Mask
1311	"	juv ♂	" "	"
1312	Meriones	♀	" "	"
1313	"	♀	" "	"
1314	"	♂	" "	"
1315	"	♂	" "	"
1316	"	♂	" "	"
✓ 1317	⁵⁸⁹¹⁰ Ochotona	♀	" "	"
1318	Earless mouse	♂	" "	"
1319	Alactaga	♀	" "	"
1320	Meriones	♀	" "	"
✓ 1321	⁵⁸⁹¹¹ Ochotona	♀	" 24	"
✓ 1322	⁵⁸⁹¹² "	♀	" "	"
1323	Citellus	juv ♂	" "	"
1324	"	♀	" "	"
1325	"	♀	" "	"
1326	⁵⁸²⁰⁶ Ochotona	"	" "	"
1327	⁵⁸²⁰⁷ Meriones	"	" "	"
1328	Lepus	♂	" "	"
1329	Citellus	♂	" "	"
1330	Meriones	♀	" "	"
1331	"	♂	" "	"
1332	"	♀	" "	"
1333	Cricetus	"	" "	"
1334	" (striped)	"	" "	"
1335	Meriones	juv ♂	" "	"
1336	"	♂	" 28	"
1337	"	♂	" "	"
✓ 1338	⁵⁹⁷¹⁴ Ochotona	♀	" "	"

- 138-46-38-X
- 171-43-40-X
- 124-107-32-13
- 117-87-29-13
- 115-98-29-13
- 119-95-28-13
- 126-97-28-14
- ~~205-34-2~~ 208- -34-20
- 115-17-20-X
- X-216-73-39
- 115-90-30-12
- ~~185-36-3~~ 185- -36-20
- 210- -33-20
- 165-38-39-X
- 150-30-36-X
- 143-30-36-X
- formalin
- "
- 430-100-120-90
- 228-60-42-X
- ~~113-94-29-14~~ 113-94-29-14
- 126-105-30-13
- 110-100-31-14
- 122-25-18-18
- 86-10-13-14
- 69-57-23-9
- 124-90-28-14
- ~~115-95-29-13~~ 115-95-29-13
- 160- -36-18

Measurements
by
Granger

all of
one family } Measurements
by
Andrews

Measurements
by
Granger

	Species	Sex	Date	Locality
✓ 339 ⁵⁹⁷¹²	<i>Onychomys</i>	♀	June 25	Mesa
✓ 340 ⁵⁹⁷¹⁰	"	juv ♀	" "	"
✓ 341 ⁵⁹⁷¹¹	"	juv ♂	" "	"
1342	<i>Citellus longicaudus</i>	♀	" "	"
1343	<i>Citellus stipes</i>	♀	" "	"
1344	<i>Dipus</i>	♂	" "	"
1345	"	♂	" "	"
1346	"	♀	" "	"
1347	"	♀	" "	"
1348	<i>Meriones</i>	♂	" "	"
1349	"	♂	" "	"
1350	"	♀	" "	"
1351	"	♀	" "	"
1352	"	♂	" "	"
1353	<i>Citellus</i>	♂	" "	"
1354	<i>Meriones</i>	♂	" "	"
55981 ✓ 355	<i>Onychomys</i>	♀	" "	"
✓ 356 ⁵⁹⁷¹³	"	♀	" "	"
1357	<i>Citellus</i>	♀	" "	"
1358	<i>Meriones</i>	♂	" "	"
1359	"	♀	" "	"
1360	"	♀	" "	"
✓ 1361 ⁵⁸⁸⁸⁶	<i>Onychomys</i>	♂	" "	"
1362	<i>Citellus</i>	♀	" "	"
1363	"	♀	" "	"
1364	"	♂	" "	"
1365	<i>Meriones</i>	♀	" "	"
1366	<i>Dipus</i>	♀	" 26	"
1367	<i>Citellus</i>	♀	" "	"

189 - - 35 - 19
106 - - 23 - 14
107 - - 24 - 16
95 - - 35 - 17 - 20
85 - 11 - 13 - 15
118 - 135 - 53 - 16
130 - 140 - 54 - 15
125 - 150 - 53 - 18
130 - 145 - 56 - 16
127 - 100 - 31 - 14
125 - 102 - 32 - 14
125 - 102 - 30 - 14
115 - 70 - 30 - 15
117 - 60 - 29 - 14
238 - 47 - 45 - X
skeleton only
" "
202 - - 33 - 20
225 - 45 - 40 - X
125 - 90 - 31 - 13
120 - 95 - 31 - 14
110 - 91 - 30 - 13
120 - - 35 - 17
205 - 48 - 43 - X
230 - 50 - 40 - X
242 - 50 - 45 - X
130 - 100 - 30 - 13
125 - 146 - 55 - 17
211 - 48 - 43 - 6 no skull

	Species	Sex	Date	Locality
1368	Citellus	♂	June 26	Marink
⁵⁵⁹⁷⁸ 1369	Alactaga	♂	" "	"
1370	Alactaga	♂	" "	"
1371	Dipus	♂	" "	"
⁵⁹⁷¹⁵ ✓ 1372	Ochotona ^{grass}	♂	" "	"
1373	Dipus	♀	" "	"
1374	Meriones	♂	" "	"
1375	"	♀	" "	"
1376	Dipus	♂	" "	"
1377	Meriones	♂	" "	"
1378	"	♂	" "	"
⁵⁹⁷¹⁶ ✓ 1379	Ochotona (grass)	♂	" "	"
1380	Meriones	♂	" "	"
1381	Crotalus	♂	" "	"
1382	Lepus	♂	" "	"
1383	Meriones	♂	" 27	Loh
1384	"	♂	" "	"
1385	Meriones	♂	" "	"
1386	"	-	" "	"
1387	"	♀	" "	"
1388	"	♂	" "	"
1389	"	♀	" "	"
1390	"	♀	" "	"
1391	"	♂	" "	"
1392	"	♂	" "	"
1393	"	♀	" "	"
1394	"	♀	" "	"
1395	"	♀	" "	"
1396	? Hamster (gray)	♂	June 27	Wild Ass Hole

215-49-43-5

Skeleton only

130-189-78-39

122-150-57-17

172-9-31-22

127-144-59-18

116-99-30-14

114-95-30-13

120-150-59-16

113-104-31-14

115-90-31-14 no skull

170-9-31-20

130-115-34-15

90-27+-16-16

420-83-117-124

115-106-36-14

125-103-31-13

128-102-34-15

125-50+-32-13

110-105-33-14

111-95-34-15

120-100-32-14

128-110-31-14

115-100-32-14

116-98-33-13

114-97-32-14

118-104-32-14

125-103-31-15

in formalin

(accessory pair of testes!)

Orig. field label #1409 ♀ was found on Wipes skull (#1414)

1922

	Species	Sex	Date	Locality
1397	Cricetus	♀	June 27	Loh
1398	"	juv ♀	" "	"
1399	Alastaga	♂	" "	"
1400	Cricetus (gray)	♂	" "	"
1401	Meriones	"	" "	"
1402	Meriones	"	" "	"
✓ 1403	Equus hemionus ^{typicus}	♂	" "	"
1404 ⁵⁷²⁷³	Gazella sub- ^{gutturosa}	♀ juv	" "	"
1405	Equus h. typicus	♀	" 28	"
1406 ⁵⁷²⁸⁸	Gazella subgutturosa	♀	" "	"
1407	Equus h. typicus	♂	" 29	"
1408	" " "	♀	" 30	"
✓ 1409	" " "	♀	July 1st	"
1410	" " "	♂	" 2nd	"
1411	" " "	♂	" 3	"
1412	" " "	♂	" "	"
1413 ⁵⁷³²⁵	Canis lupus	♂	" 1st	"
1414 ⁵⁷³³⁴	Vulpes	-	" "	"
1415 ⁵⁷²⁷⁹	Gazella subgutturosa	♀	" 3rd	"
1416	Equus h. typicus	♂	" 5 "	"
1417	Meriones	♂	" 6 "	"
1418	"	♀	" " "	"
1419	Earless mouse	♂	" 7 "	"
1420	" " "	juv ♀	" "	"
1421	Cricetus	♀	" "	"
1422	"	♀	" "	"
1423	"	♂	" "	"
1424	Dipus (dark line)	♀	" "	"
1425	" (yellow ")	♀	" "	"

82-88-17-17

77-25-15-15

130-195-69-39

90-17-16-14

✓ skin & skeleton - 7 yrs old (mountable)
Total L - 81 (over curve) T. vert 16 1/2 - T. to ind hair 37" H. For. 22" H. at Sk. 52 1/2

✓ skin & skull (measurements on card)
skin & skeleton 7 yrs old (mountable)

" & leg bones & skull
skin & skull & leg bones (mountable) 7 yrs old

skin & skull only study skin 6 yrs old
" " " & leg bones (mountable)

✓ " " " " " " (measurements on card)
✓ " " " " " " " " " " " "

" " " " " " " " " " " " no measurements
skin & skull (skin badly stuffed)

skull only, found by Sharkeford.
skin & skull only

" " " " " " " " " " " "

125-105-29-13
125-95-25-12
133-11-19-X

100-10-19-X
117-19-18-15

130-21-19-15
100-23-19-15
135-168-66-

120-150-64-18

	Species	Sex	Date	Locality
1426	Meriones	♀	July 7	Loh
1427	"	♀	" "	"
1428	"	♂	" "	"
1429 ²⁴¹	Gazella subgutturosa	♂	" 7	"
1430	Equus h. baysianus	♂	" "	"
1431	Meriones	♂	" 8	"
1432	"	♀	" "	"
1433	"	♀	" "	"
1434	"	♂	" "	"
1435	"	♀	" "	"
1436	"	♂	" "	"
1437	Cricetulus	♀	" "	"
1438	Cricetulus	♀	" "	"
1439 ⁵⁷²⁵⁸	Gazella gutturosa	♂	" "	Ussula
1440 ⁵⁷²⁸⁹	" "	♀	" "	"
1441	Meriones	♀	" 9	Loh
1442	"	♀	" "	"
1443	"	♀	" "	"
1444	"	♀	" "	"
1445	"	♂	" "	"
1446	"	♀	" "	"
1447	"	♀	" "	"
1448	"	♀	" "	"
1449	Cricetulus	♂	" "	"
1450	"	♂	" "	"
1451	Earless mouse	♀	" "	"
1452	" "	♀	" 10	"
1453	" "	♀	" "	"
1454	Meriones	♀	" "	"

120-105-33-14
127-104-32-14
117-98-29-12
skin, skull & leg bones
head, horn & skull only
120-100-31-13
120-95-33-14
128-105-31-14
125-95-32-14
115-100-30-14
120-98-30-15
92-18-18-15
80-26-17-17
skin, skull & leg bones
" " " "
105-85-31-13
130-104-32-13
132-100-32-15
120-98-32-14
130-100-33-14
122-94-30-14
108-80-31-13
117-97-31-14
95-18-19-15
96-18-18-18
135-13-22-4
125-12-23-3
145-14-24-5
120-100-32-13

	Species	Sex	Date	Locality
1455	Meriones	♂	July 10	Loh
1456	"	♂	" "	"
1457	Dipus (yellowtail)	♂	" "	"
1458	Meriones	♂	" "	"
1459	Dipus (dark tail)	♀	" 12	Traganur
1459 bis	" (yellow)"	♀	" "	" "
1460	" (dark tail)"	♀	" "	" "
1461	Meriones	♂	" "	" "
1462	Cricetulus	♂	" "	" "
1463	Meriones	♂	" "	" "
1464	"	♀	" "	" "
1465	"	♂	" "	" "
1466	"	♂	" "	" "
1467	"	♂	" "	" "
1468	"	♂	" "	" "
1469	"	♂	" "	" "
1470	"	♂	" 13	" "
1471	Dipus yellowtail	♂	" "	" "
1472	Meriones	♂	" "	" "
1473	"	♂	" "	" "
1474	"	♀	" "	" "
1475	"	♀	" "	" "
1476	Dipus (yellowtail)	♂	" "	" "
1477	" " "	♀	" "	" "
1478	Meriones	♀	" "	" "
1479	"	♂	" "	" "
1480	"	♀	" "	" "
1481	Cricetulus	♀	" "	" "
1482	Meriones	♂	" "	" "
1483				

115-98-31-14
124-105-33-13
124-105-33-13
110-140-88-18
128-53+ -33-16
110-165-65-38
120-145-55-18
120-160-63-32
117-98-32-14
100-25-18-17
130-115-33-15
120-100-32-13
122-105-33-15
116-105-32-14
122-105-33-15
125-108-32-13
115-106-32-14
130-97-32-14
125-143-54-16
125-92-33-14
120-98-31-14
110-92-31-15
125-102-31-15
125-145-56-17
126-120+ -55-17
120-90-28-14
125-92-30-14 no skull
100-92-30-13
105-71-17-15
118-90-30-15

	Species	Sex	Date ¹⁹²²	Locality
1484	Dipus darktail	♀	July 14	Traque non
1485	" " "	♂	" "	" "
1486	" " "	♂	" "	" "
1487	" " "	♂	" "	" "
1488	Earless mouse	♂	" "	" "
1489	" "	♂	" "	" "
1490	Dipus (dark tail)	♀	" "	" "
1491	Meriones	♀	" "	" "
1492	"	♀	" "	" "
1493	Meriones	♀	July 14	" "
1494	"	♂	" "	" "
1495	Lepus	♀	" "	" "
1496 ⁵⁷²⁶⁴	<i>J. subquattuor</i>	♂	" 15	" "
1497 ⁵⁷²⁵⁰	"	♂	" "	" "
1498 ⁵⁷²⁴⁰	"	♂	" "	" "
1499 ⁵⁷²⁶⁸	"	♂	" "	" "
1500 ⁵⁷²⁷⁶	<i>J. subquattuor</i>	♀	" "	" "
1501 ⁵⁷³³⁵	Lepus	♂	July 15	" "
1502 ⁵⁷²⁴⁷	<i>J. subquattuor</i>	♀	" "	" "
1503	Meriones	♂	" "	" "
1504	"	♂	" "	" "
1505	"	♀	" "	" "
1506	"	♀	" "	" "
1507	Alactaga	♀	" "	" "
1508	"	♂	" "	" "
1509 ⁵⁷²⁸⁴	<i>J. subquattuor</i>	♂	July 16	" "
1510 ⁵⁷²³⁸	"	♂	" "	" "
1511 ⁵⁷²⁴³	"	♂	" "	" "
1512 ⁵⁷²³⁷	"	♂	" "	" "

135-75-65-35
 120-177-64-33
 125-150-62-19
 125-160-65-20
 125-14-20-X
~~130-12-21-X~~
~~125-14-20-X~~
 119-165-63-20
 108-98-28-12
 117-100-31-14
 116-108-32-13
 115-105-31-14

skin skull & leg bones
 ditto
 ditto
 ditto
 head skin & skull
 skin & skull
 horns only PCA personal
 120-103-33-14
 115-96-30-13
 117-100-30-13
 116-106-30-13
 118-175-66-34
 105-188-76-40

	Species	Sex	Date	Locality
1513	<i>Q. subgutturosa</i>	♂	July 16	Traganu no
1514	<i>Q. subgutturosa</i>	♂	" "	" "
1515	"	♂	" "	" "
1516	"	♂	" "	" "
1517	<i>Alastaga</i>	♂	" 17	" "
1518	<i>Dipus yellowtail</i>	♂	" "	" "
1519	" dark "	♂	" "	" "
1520	<i>Meromys</i>	♂	" "	" "
1521	"	♂	" "	" "
1522	"	♂	" "	" "
1523	"	♀	" "	" "
1524	"	♀	" "	" "
1525	"	♀	" "	" "
1526	"	♀	" "	" "
1527	"	♀	" "	" "
1528	"	♀	" "	" "
1529	<i>Q. subgutturosa</i>	♂	July 18	"
1530	<i>E. t. hemionus</i>	♂	" 18	"
1531	" "	♀	" "	"
1532	" "	♂	" "	"
1533	<i>Q. subgutturosa</i>	♂	" "	"
1534	<i>Meromys</i>	♂	" 19	" "
1535	"	♂	" "	" "
1536	<i>Dipus (dark tail)</i>	♀	" "	" "
1537	<i>Q. subgutturosa</i>	♂	July 19	"
1538	"	"	" "	"
1539	"	"	" "	"
1540	"	"	" "	"
1541	"	"	" "	"

head skin & skull only (Personal Rllk)

" " " " " " " " " " " "

skin, skull

" " & leg bones for group -

108-184-65-32

122-148-65-22

100-148-64-20

114-111-31-14

115-100-32-14

120-95-31-14

115-105-30-14

120-97-30-N-

123-90-33-N-

115-92-29-13

113-100-29-14

112-95-30-13

skin skull & leg bones

" " " " " " " " " " " " for group

" " " " " " " " " " " "

" " " " " " " " " " " "

" " " " " " " " " " " "

120-98-30-14

125-95-33-18-

114-146-64-28 no skull

" " " " " " " " " " " "

" " " " " " " " " " " "

" " " " " " " " " " " "

" " " " " " " " " " " "

head skin & skull only (Personal Rllk)

	Species	Sex	Date	Locality
1542	⁵⁷²⁵⁶ <i>g. subgutturosa</i>	♂	July 19	Tregain nov
1543	⁵⁷²⁶² <i>g. subgutturosa</i>	♂	July 19	T " "
1544	⁵⁷²⁶⁵ " "	"	" "	" "
1545	⁵⁷²⁶⁶ " "	♂	" 19	" "
1546	⁵⁷²⁸⁶ " "	♀	" "	" "
1547	⁵⁷²³⁹ " "	♂	" "	" "
1548	⁵⁷²⁴⁹ " "	♂	" "	" "
1549	⁵⁷²⁵⁹ " "	♂	" "	" "
1550	⁵⁷²⁵¹ " "	♂	" "	" "
1551	Giant Meriones	♂	" 21	" "
1552	" "	♀	" "	" "
1553	" "	♂	" "	" "
1554	⁵⁷²⁵⁹ <i>g. subgutturosa</i>	♂	July 20	" "
1555	⁵⁷²⁸¹ " "	♀	" 21	" "
1556	<i>Alaclaga</i>	♀	" 22	" "
1557	<i>Cricetus</i>	♂	" "	" "
1558	" "	♀	" "	" "
1559	<i>Meriones</i>	♂	" "	" "
1560	" "	♂	" "	" "
1561	" "	♂	" "	" "
1562	" "	♂	" "	" "
1563	" "	♂	" "	" "
1564	" "	♂	" "	" "
1565	" "	♂	" "	" "
1566	" "	♂	" "	" "
1567	⁵⁷²³⁵ <i>g. subgutturosa</i>	♂	July 22	" "
1568	<i>Cricetus</i>	♀	" 23	" "
1569	<i>Cricetus</i>	♀	" 23	" "
1570	" "	♂	" "	" "

Remarks
Skull only
Head skin & skull only (P.C.A. personal)
Horns only (P.C.A. personal)
Skin skull & leg bones
head skin & skull only (P.C.A. personal)
" " " " " " "
168-160-47-13
159-152-42-13
170-148-45-15
132-175-65-35
100-17-18-16
92-18-16-15
114-90-32-14
118-95-31-13
122-100-32-14
118-75-31-13 no skull
125-100-32-14
125-102-31-14
118-108-32-13
108-93-30-12
Skin skull & leg bones mountable
108-21-16-16 no skull
110-23-17-16
118-25-19-17 no skull

	Species	Sex	Date	Locality	
1571	Cricetus	♂	July 23	Tragan nor	108-23-18-17
1572	Dipus (black tail)	♀	" "	" "	120-165-65-21
1573	" " "	♀	" "	" "	110-155-63-21
1574	Meriones	♂	" "	" "	120-100-33-14
1575	Meriones	♂	July 23	" "	118-100-34-13
1576	"	♀	" "	" "	115-105-35-14
1577	"	-	" "	" "	119-103-32-15
1578	"	♂	" "	" "	120-104-32-13
1579	"	♂	" "	" "	120-110-33-14
1580	"	♀	" "	" "	110-102-32-13
1581	"	♂	" "	" "	118-96-30-13
1582	Alactaga	♂	" "	" "	130-195-68-26
1583	Cricetus	♂	" 24	" "	115-20-18-17
1584	"	♂	" "	" "	110-26-18-18
1585	"	♂	" "	" "	110-23-18-16
1586	"	♀	" "	" "	95-20-17-16
1587	"	♀	" "	" "	102-21-18-15
1588	Alactaga	♂	" "	" "	126-190-67-40
1589	"	♀	" "	" "	122-165-65-31
1590	Dipus (black tail)	♀	" "	" "	125-175-67-22
1591	Meriones	♂	" "	" "	110-102-31-13
1592	"	♂	" "	" "	115-110-32-14
1593	Dipus black tail	♂	" "	" "	115-140+ -61-21
1594	Meriones	♀	" "	" "	125-120-34-15
1595	"	♀	" "	" "	115-103-30-13
1596	"	♂	" "	" "	110-105-31-13
1597	Dipus dark tail	♀	" "	" "	120-165-65-21
1598	Dipus (dark tail)	♂	" 25	" "	122-173-16-20
1599	" " "	♂	" "	" "	115-163-64-21

	Species	Sex	Date	Locality
1600	Dipus (dark tail)	♂	July 25	Traganur
1601	Alastaga	♀	" "	" "
1602	Cricetulus	♂	" "	" "
1603	Cricetulus	♂	" "	" "
1604	Dipus (dark tail)	♀	" "	" "
1605	Meriones	♂	" "	" "
<u>1606</u> 55977	"	"	" "	" "
1607	Meriones	♂	" "	" "
1608	Meriones	♂	" "	" "
1609	"	♂	" "	" "
1610	"	♂	" "	" "
1611	"	♂	" "	" "
1612	"	♀	" "	" "
1613	"	♀	" "	" "
1614	Alastaga	♂	" 26	" "
1615	"	♂	" "	" "
55979 1616	Dipus (dark tail)	♀	" 26	" "
1617	Meriones (yellow)	♂	" "	" "
1618	" dark "	♂	" "	" "
1619	Earless mouse Cricetulus	♂	" 26	" "
1620	Cricetulus (buff)	♀	July 27	" "
1621	" "	♀	July 26	" "
1622	Alastaga	♂	" "	" "
1623 57287	Gazella?		" "	" "
1624 57231	Myzella?		" "	" "
1625	Meriones (dark)	♀	" 27	" "
1626	Meriones (dark tail)	♀	July 27	" "
1627	Cricetulus	♀	" "	" "
1628	Cricetulus	♂	" 27	" "

110-155-62-21
131-120-69-36
115-20-18-16
70-10-13-14
113-168-66-21
120-95+-31-14
skeleton
115-105-31-14
117-55+-32-15
121-104-35-14
113-58X-32-13
104-95-29-12
120-105-31-14
105-100-29-13
130-174-64-34
130-175-65-35
skeleton only
125-108-33-16
125-102-28-13
84-29-17-17 125-10-22-5 2nd skull
76-11-12-12
80-10-13-14
skeleton
125-98-30-14
115-90-31-14
115-21-18-16
84-29-17-17

Species Sex Date

Locality

1629	Meriones (dark tail)	♂	July 27	Tsagan nor
1630	Cricetus	♀	" "	" "
1631	Dipus (dark tail)	♀	" "	" "
1632	Meriones (yellow tail)	♀	" "	" "
1633	"	♂	" "	" "
1634	"	♂	" "	" "
1635	"	♂	" "	" "
1636	"	♂	" "	" "
1637	" dark tail	♂	" "	" "
1638	" yellow tail	♀	" "	" "
1639	Meriones (dark tail)	♀	" "	" "
1640	Ericaceae	♀	" "	" "
1641	⁵⁷²⁶¹ G. subquaternus	♂	" "	" "
1642	⁵⁷²⁵⁴ skull used for mounting	♂	" "	" "
1643	⁵⁷²⁷⁷ G. subquaternus	♂	" "	" "
1644	⁵⁷²³² skull used for mounting	♂	" "	" "
1645	⁵⁷²³⁶ " Pca	♂	" "	" "
1646	"	♂	" "	" "
1647	Meriones, yellow tail	♂	July 28, 1922	Tsagan nor
1648	"	-	" "	" "
1649	"	♂	" "	" "
1650	"	♂	" "	" "
1651	"	♂	" "	" "
1652	" dark tail	♀	" "	" "
1653	"	♂	" "	" "
1654	Dipus dark tail	♀	" "	" "
1655	Meriones (yellow)	♂	" "	" "
1656	" dark	♂	" 29	" "
1657	" yellow	♂	" "	" "
	"	♀	" "	" "

117-103-34-14
80-27-16-17
115-165-64-22
110-105-32-15
115-80-31-14
115-100-32-14
100-105-31-13
130-111-34-13
117-103-32-13
115-110-32-14
117-60-31-14
head skin & skull only
head skin & skull only
" " " " "
" " " " "
skin & skull
106-98-31-14
130-90-32-14
115-94-32-14 no skull
130-105-31-14
113-100-32-14
104-85-31-13
115-90-31-13 no skull
110-135-65-21
125-102-31-15 no skull
120-95-32-14
130-105-31-16
128-101-33-15

	Species	Sex	Date	Locality
1658	Meriones (dark tail)	♀	July 29	Traganur
1659	" yellow	♀	" "	" "
1660	" (dark)	♂	" "	" "
1661	" yellow	♀	" "	" "
1662	" dark	♂	" "	" "
1663	" Giant juv	♀	" "	" "
1664	Emmaceus		July 29	" "
1665	Emmaceus	♀ juv	July 29	" "
1666	"	♂	" "	" "
1667	Alactaga	♀	July 30	"
1668	Dipus (dark tail)	♀	" "	"
1669	" "	♀	" "	"
1670	" "	♀	" "	"
1671	Meriones "	♂	" "	"
1672	" "	♀	" "	"
1673	" yellow tail	♀	" "	"
1674	Earless mouse	♂	" "	"
1675	Giant Meriones	♀	" 21	"
1676	" "	♀ juv	" "	"
1677	Alactaga	♂	" "	"
1678	Meriones yellow tail	♂	" "	"
1679	" dark	♀	" "	"
1680	" yellow	♀	" "	"
1681	" "	♂	" "	"
1682	" dark	♂	" "	"
1683	" yellow	♂	" "	"
1684	Onychomys	♀	" "	"
1685	"	♂	" "	"
1686	mouse	♀	" "	"

125-104-31-13
120-100-30-14
125-100-31-14
130-85-32-15
125-90-31-13
125-120-40-13
120-160-65-37
130-170-66-22
128-162-63-24
125-165-64-21
125-108-31-13
125-108-32-14
120-105-33-14
110-14-22-3
160-145-43-14
115-108-37-13
110-175-66-38
130-103-31-15
110-98-30-13
108-95-31-14 no shoes
130-115-34-16 " "
110-70+-30-13 " "
120-90-31-15
105-22-18-17
28-25-15-17
77-52-15-14

	Species	Sex	Date	Locality
1687	Meriones yellow	♀	July 31	Traganur
1688	Lepus	♂	" "	" "
1689	Emaceus	♂	" "	" "
1690	Alantaga	♀	Aug 1	"
1691	58871 " "	♀	" "	"
1692	Meriones (dark tail)	♂	" "	"
1693	" " "	♂	" "	"
1694	" " "	♂	" "	"
1695	" yellow "	♀	" "	"
1696	" dark tail	♂	" "	"
1697	" "	♀	" "	"
1698	" "	♀	" "	"
1699	" yellow "	♂	" "	"
1700	" dark "	♀	" "	"
1701	Alantaga	♀	" 2	"
1702	"	♀	" "	"
1703	"	♀	" "	"
1704	Meriones yellow	♂	" "	"
1705	" dark	♂	" "	"
1706	" "	♂	" "	"
1707	" "	♀	" "	"
1708	57269 G. subquaternus	♂	Aug 2	"
1709	57258 " "	♂	" "	"
1710	Sorex	♂	" 3	"
1711	Meriones yellow	♂	" "	"
1712	" dark	♂	" "	"
1713	" "	♀	" "	"
1714	" yellow	♂	" "	"
1715	" dark	♂	" "	"

100-88-30-12
115-177-68-39
110-175--70-39
120-90-30-14
110-90-30-14
126-108-34-13 no skull
105--90-31-13
125-94-31-14 no skull
130-105--31-15-
116-93-30-14
128-100-32-15- no skull
108-95-31-13
115--180-68-39
115-185--69-42
120-175-67-39
133-114-32-15-
125-105--31-16
115-105--30-13
128-97-29-13
skin skull & leg bones
" " " " " "
60-29-12-8
113-104-30-14
118-93-31-15-
123-102-31-14
120-100-33-14
110-95-30-13

	Species	Sex	Date	Locality
1716	Meriones yellow	♂	Aug. 3	Traganur
1717	" "	♂	" "	" "
1718	" cork	♀	" "	" "
1719	" yellow	♀	" "	" "
1720	" dark	♀	" "	" "
1721	Dipus (dark tail)	♂	" "	" "
1722	Meriones yellow	♀	" "	" "
1723	Dipus (dark tail)	♀	" "	" "
1724	Meriones dark	♀	" "	" "
1725	" "	♂	" "	" "
1726	Alactaga	♀	" "	" "
1727	Erinaceus	♂	" 31	" "
1728	Alactaga	-	" 4	" "
1729	Dipus (dark tail)	♂	" "	" "
1730	" " "	♂	" "	" "
1731	Alactaga	♀	" "	" "
1732	Meriones dark	♀	" "	" "
1733	" "	♀	" "	" "
1734	" "	♂	" "	" "
1735	" yellow	♀	" "	" "
1736	" "	♂	" "	" "
1737	" "	♂	" "	" "
1738	" "	♀	" "	" "
1739	Cricetulus	♂	" "	" "
1740	" "	♂	" "	" "
1741	Meriones yellow	♂	" 5	" "
1742	" "	♀	" "	" "
1743	" dark	♂	" "	" "
1744	" yellow	♂	" "	" "
1745	" "	♀	" "	" "

125-102-32-14

118-95-31-15

113-97-28-13

110-95-30-15

117-95-30-13

120-150-63-20

125-107-33-15

125-105-61-24

118-70-30-14

118-100-29-14

117-188-60-39

123-200-21-41

130-165-64-21

125-160-64-21

113-150-64-31

125-100-31-15

125-103-33-14

110-97-29-14

100-98-32-14

113-95-30-13

130-70-83-15

93-87-31-13

110-70-17-16

88-36-16-16

125-97-32-15

120-100-31-15

125-105-32-16

125-104-34-16

120-96-32-15

	Species	Sex	Date	Locality	
1746	Meriones yellow	♂	Aug 5	Tragan h	115-100-32-15
1747	" "	♀	" "	"	120-107-31-16
1748	" "	♂	" "	"	125-83-31-14
1749	" "	-	" "	"	136-110-32-17
1750	Cricetulus	♀	" "	"	110-16-18-16
1751	Meriones yellow	♂	" "	"	125-110-35-15
1752	" "	juv ♀	" "	"	80-70-28-11
1753	" dark	-	" "	"	136-110-32-17
1754	" yellow	♀	" "	"	118-95-31-14 no skull
1755	Egmodon typhlops	♂	Aug 1922	Tragan h	skull of animal found dead on plain
1756	Giant Meriones	♂	" 6 "	"	140-130-42-13
1757	" "	♂	" " "	"	165-143-42-13
1758	" "	♀	" " "	"	140-130-42-13
1759	Alactaga	♀	" " "	"	120-190-66-40
1760	" "	♀	" " "	"	120-180-67-39
1761	Dipus dark line	♀	" " "	"	120-165-65-24
1762	" " "	♂	" " "	"	115-138-64-20
1763	Meriones yellow	♂	" " "	"	125-98-32-14
1764	" dark	♂	" " "	"	115-100-31-14
1765	" "	♂	" " "	"	110-94-31-14
1766	" "	juv ♀	" " "	"	88-68-30-12
1767	G. subquercina	juv ♀	" " "	"	skull leg bones
1768	Meriones dark	♀	Aug 7	"	125-95-28-14
1769	" "	♀	" "	"	118-100-30-13
1770	" "	♂	" "	"	122-110-34-14
1771	" yellow	♀	" "	"	116-111-34-13
1772	" "	♂	" "	"	120-105-33-14
1773	" "	♂	" "	"	125-110-35-13
1774	" dark	♂	" "	"	120-103-31-15 no skull

	Species	Sex	Date	Locality
1775	Meriones yellow	♀	Aug 7	Tragan NW
1776	Dipus dark	♀	" "	" "
1777	Meriones "	♂	" "	" "
1778	" yellow	♂	" "	" "
1779	" "	♂	" 8	" "
1780	" dark	♂	" "	" "
1781	" yellow	♂	" "	" "
1782	" dark yellow	♂	" "	" "
1783	" yellow	♂	" "	" "
1784	" "	♂	" "	" "
1785	" "	♀	" "	" "
1786	Dipus yellow tail	♂	" "	" "
1787	Alactaga	♀	" "	" "
1788	E. h. tyferis	♂	" "	" "
1789	Meriones dark	♀	Aug 9	" "
1790	Meriones yellow	♂	Aug 9	" "
1791	" "	♀	" "	" "
1792	Meriones yellow	♂	Aug 9	Tragan NW
1793	" "	♂	" "	" "
1794	" "	♂	" "	" "
1795	" dark	♂	" "	" "
1796	" "	♀	" "	" "
1797	" yellow	♂	" "	" "
1798	" dark	♀	" "	" "
1799	Dipus dark tail	♀	" "	" "
1800	Dipus dark tail	♂	" "	" "
1801	Meriones dark	♀	" "	" "
1802	Citellus	♂	" "	Loh
1803	juv Meriones	♀	" "	Tragan NW

110-93-30-13
103-15-5-63-21
112-90-33-13
115-88-33-15
120-95-31-17
115-93-20-15
120-110-32-15 122-105-33-16
130-102-32-16 120-110-32-15
130-102-32-16
125-106-32-16
125-103-31-15
117-142-54-18
134-705-74-41
skin & skull only
125-100-31-15
124-110-34-16
122-105-33-15
120-110-32-15
123-100-30-14 no skull
125-90-32-16
125-110-34-16
130-110-32-14
120-87-30-14
118-100-31-15
120-150-64-23
125-160-65-23
120-104-31-14
230-45-45-x no skull
140-130-43-14

	Species	Sex	Date	Locality
1804	Grand Meriones	♂	Aug 9	Tragan No
1805	"	♂	" "	" "
1806	"	♀	" "	" "
1807	Dipus darkus	♂	" 10	" "
1808	"	♂	" "	" "
1809	Alastaga	♀	" "	" "
1810	Dipus darkus	♀	" "	" "
1811	"	♀	" "	" "
1812	Meriones	-	" "	" "
1813	Alastaga	♀	Aug 11	" "
1814	"	♀	" "	" "
1815	"	♂	" "	" "
1816	Meriones dark	♂	" "	" "
1817	"	♂	" "	" "
1818	"	♂	" "	" "
1819	"	♀	" "	" "
1820	Cricetus	♀	" "	" "
1821	Meriones dark	♀	" "	" "
1822	"	♂	" "	" "
1823	Dipus	♂	" 12	" "
1824	" yellow	♀	" "	" "
1825 ⁵⁸⁶¹²	Alastaga	♂	" "	" "
1826	Meriones	♂	" "	" "
1827	" dark	♂	" "	" "
1828	" yellow	♂	" "	" "
1829	"	♂	" "	" "
1830	Dipus dark	♀	" 14	45mi East of Tragan No
1831	Alastaga	♀	" "	" "
1832	Meriones	♂	" "	" "

145-135-42-13
143-125-41-13
137-118-40-14
130-162-66-24
130-150-65-23
115-180-68-37
105-145-63-21
95-150-61-20
120-90-30-14
130-185-70-38
130-145-62-33
133-188-67-34
130-102-31-14
120-97-31-15
120-97-31-14
110-100-31-14
95-23-18-18
115-102-30-14
120-96-31-13
105-160-63-19
115-145-56-17
105-150-64-29
120-110-33-16
110-108-32-14
125-110-33-15
133-115-34-16
122-155-60-21
128-201-66-39
120-105-33-16

	Species	Sex	Date	Locality
1833	Meriones yellow	♂	Aug 14	4.5 east of Traqun
1834	" "	♂	" "	" "
1835	" "	♂	" "	" "
1836	" dark	♀	" "	" "
1837	" yellow	♂	" "	" "
1838	" yellow	♂	" "	" "
1839	" "	♂	" "	" "
1840	Gray mouse	♀	" 15	Artra (Boyd) all SW H
1841	" "	♀	" "	" "
1842	" "	♂	" "	" "
1843	" "	♂	" "	" "
1844	Alattaga	♂	" "	" "
1845	Meriones (yellow)	♂	" "	" "
1846 ⁵⁷³⁰⁷	Capra	♀	" "	" "
1847	Gray mouse	♀	" 16	" "
1848	" "	♀	" "	" "
1849	" "	♀	" "	" "
1850	" "	♀	" "	" "
1851	" "	♂	" "	" "
1852	Alattaga	♀	" "	" "
1853	Gray mouse	♀	" 17	" "
1854	" "	♂	" "	" "
1855	" "	♂	" "	" "
1856	" "	♀	" "	" "
1857	" "	♀	" "	" "
1858	" "	♀	" "	" "
1859	" "	♀	" "	" "
1860	" "	♀	" "	" "
1861	" "	♀	" "	" "

105-105-31-15	no shell
125-110-33-15	
115-110-32-15	
120-105-31-14	
125-98-32-16	
122-105-32-15	
105-95-32-14	
96-40-16-18	
92-40-17-18	
82-40-17-17	83-42-17-19
82-40-17-17	
115-100-31-15	133-193-71-41
115-100-31-15	
91-41-18-18	
85-35-17-17	
82-38-16-17	
80-39-17-17	
80-35-16-17	
118-190-66-40	
82-36-17-18	
90-40-17-18	
87-41-17-18	
75-37-17-17	
86-35-17-18	
85-39-16-17	
81-39-17-18	
82-40-17-17	
80-38-17-17	

No	SPECIES	SEX	DATE	LOCALITY	
1862	Gray Mouse	♂	Aug 17	Artia Boggs alt	65W H 84-41-17-17
1863	"	♂	" "	"	73-34-16-17
1864	"	♂	" "	"	80-38-17-18
1865	"	♀	" "	"	76-32-16-17
1866	"	♂	" "	"	80-41-16-17
1867	"	♂	" "	"	77-41-17-17
1868					
1869 ⁵⁷³⁰⁴	Oris aurum	juv ♂	" "	"	skull & skull
1870	Yellow Earsless Mouse	♂	" 18	"	102-15-22-x
1871	Gray Mouse	♀	" 18	"	85-40-17-16
1872	"	♀	" "	"	85-41-18-17
1873	"	♀	" "	"	85-39-16-18
1874	Gray Mouse	♂	" 18	"	78-37-17-15
1875	"	♀	" "	"	85-42-17-15
1876	"	♂	" "	"	84-35-17-17
1877	Meriones yellow	♀	" "	"	84-37-17-17
1878	Gray Mouse	♀	" "	"	88-38-17-18
1879	"	♀	" "	"	82-39-16-17
1880	"	♂	" "	"	95-41-18-16
1881	"	♂	" "	"	86-40-17-16
1882	"	♀	" "	"	96-37-17-19
1883	"	♂	" "	"	87-41-16-16
1884	"	♂	" "	"	80-40-17-16
1885	"	♂	" "	"	84-42-17-16
1886	"	♂	" "	"	86-38-17-16
1887	Meriones yellow	♀	" "	"	105-90-31-14
1888	"	♂	" "	"	112-110-31-13
1889	"	♀	" "	"	108-95-32-15
1890	Ochrotoma	♂	" "	"	190-8-32-23 no skull

No	SPECIES	SEX	DATE	LOCALITY	SKIN & SKELETON
1891 ⁵⁷³⁰⁵	Capra Gray mouse	juv ♀	Aug 19	Artra Pongla	83-35-18-18
1892	Gray mouse	♂	" "	"	85-40-18-17
1893	"	♂	" "	"	100-98-32-13
1894	Murinus yellow	♀	" "	"	83-39-16-18
1895	Gray mouse	♀	" "	"	75-36-16-17
1896	"	♀	" "	"	86-37-16-17
1897	"	♂	" "	"	87-35-16-17
1898	"	♀	" "	"	83-35-16-15
1899	"	♀	" "	"	83-35-17-18
1900	"	♂	" "	"	82-41-17-16
1901	"	♂	Aug 19	"	90-45-17-18
1902	"	♀	" "	"	80-38-17-17
1903	"	♂	" "	"	83-38-17-17
1904	"	♀	" "	"	95-X-17-17
1905	"	♂	" "	"	82-38-17-17
1906	"	♂	" "	"	82-37-17-17
1907	"	♀	" "	"	128-102-32-15
1908	Murinus yellow	♂	" "	"	75-41-17-17
1909	Gray mouse	♀	" 20	"	80-38-17-17
1910	"	♀	" "	"	78-34-16-16
1911	"	♀	" "	"	80-38-17-17
1912	"	♀	" "	"	80-38-17-17
1913	"	♂	" "	"	84-35-17-17
1914	"	♂	" "	"	80-38-17-17
1915	"	♀	" "	"	84-38-17-17
1916	"	♀	" "	"	80-37-18-17
1917	"	♂	" "	"	78-38-17-18
1918	"	♀	" "	"	78-40-17-16
1919	"	♂	" "	"	

No	SPECIES	SEX	DATE	LOCALITY	
1920	Murres yellow	♂	Aug 20	Artra Bogdo	110-95-31-14
1921	Gray mouse	♂	" "	"	85-40-17-17
1922	"	♀	Aug 20	"	80-37-17-15
1923	"	♀	" "	"	87-41-17-18
1924	"	♀	" "	"	85-37-17-17
1925	"	♀	" "	"	96-41-17-18
1926	"	♂	" "	"	74-35-16-16
1927	"	♂	" "	"	85-41-17-17
1928	"	♂	" "	"	92-40-17-17
1929	"	♂	" "	"	87-39-17-18
1930	Mole Rat	♀	" "	"	108-12-24-X
1931	Murres black	♂	" "	"	100-90-29-14
1932	Gray mouse	♀	" 21	"	88-37-18-18
1933	"	♂	" "	"	80-35-16-16
1934	"	juv ♂	" "	"	80-38-16-16
1935	"	♂	" 21	"	82-38-16-17
1936	"	♀	" "	"	85-40-17-17
1937	"	♂	" "	"	80-38-16-17
1938	"	♀	" "	"	84-37-17-17
1939	"	"	" "	"	"
1940	"	♂	" "	"	80-38-17-17
1941	"	♂	" "	"	83-38-17-17
1942	"	♂	" "	"	82-38-16-17
1943	"	♀	" "	"	80-37-17-16
1944	Mole Rat	♀	Aug 21	"	105-9-23-X
1945	" "	♀	" "	"	106-11-23-X
1946	" "	♀	" "	"	110-13-23-X
1947	" "	♂	" "	"	105-11-23-X
1948	" "	♀	" "	"	96-12-21-X

57881

No	Species	Sex	DATE
1949	Alactaga	♀	Aug 21
1950	⁵⁹⁷³⁹ Ochotona	♀	" "
1951	⁵⁷³¹¹ Capra sibirica	♂	" "
1952	⁵⁷²⁹⁷ " "	♂	" "
1953	⁵⁷²⁹⁶ Ovis ammon	♂	" "
1954	Meriones	♂	" 22
1955	Gray mouse	♂	" "
1956	"	♂	" "
1957	"	♂	" "
1958	"	♂	" "
1959	Mole Rat	♂	" "
1960	Gray mouse	♂	" "
1961	"	♂	" "
1962	"	♂	" "
1963	Meriones yellow	♀	" "
1964	Mole Rat	♂	" "
1965	⁵⁷³⁰⁹ Capra sibirica	♂	" "
1966	Cuculicus	♂	" 23
1967	Gray mouse	♂	" "
1968	"	♂	" "
1969	"	♂	" "
1970	"	♂	" "
1971	"	♂	" "
1972	"	♀	" "
1973	Meriones	♀	" "
1974	Meriones yellow	♂	" 23
1975	"	♂	" "
1976	⁵⁷³⁰⁰ Ovis ammon	♂	" "
1977	⁵⁷³⁰¹ " "	♂	" "
1978	Gray mouse	♀	" 24

Artsa Prop alt 6500 ft

124-180-62-40
195-12-35-22
skin skull + leg bones
Length 89" - height ^{skull + horns} mid of back to point of forehead 48"
104-97-31-13
76-38-17-16
80-35-17-17
82-37-17-17
84-37-17-18
95-11-22-7
80-35-18-18
95-40-17-17
83-39-18-16
106-93-32-13
106-12-23-7
skin skull + leg bones
108-34-20-18
78-40-18-15
80-38-17-17
85-38-17-16
84-25-17-17
88-35-17-17
80-35-17-16
100-93-30-13
115-102-29-15
115-52+32-15
skin skull
" "
86-35-17-17

No	SPECIES	SEX	DATE	LOCALITY
1979	Gray mouse	♀	Aug 24	Antea Bogado
1980	"	♂	" "	"
1981	"	♂	" "	"
1982	Gray mouse	♀	Aug 24	"
1983	"	♀	" "	"
1984	"	♂	" "	"
1985	"	♂	" "	"
1986	"	♂	" 25	"
1987	"	♀	" "	"
1988	"	♀	" "	"
1989	"	♀	" "	"
1990	"	♀	" "	"
1991	Meriones yellow	juv ♀	Aug 25	"
1992	" "	♂	" "	"
1993	" "	♂	" "	"
1994	" "	juv ♂	" "	"
1995	Alouatta	♂	" "	"
1996	Meriones yellow	♀	" "	"
1997	Mole Rat (Ellobius)	♀	" "	"
1998	Gray mouse	♂	" 26	"
1999	" "	♀	" "	"
2000	" "	♀	" "	"
2001	" "	♀	" "	"
2002	" "	♀	" "	"
2003	" "	♂	" "	"
2004	" "	♂	" "	"
2005	" "	♂	" "	"
2006	" "	♀	" "	"
2007	" "	♀	" "	"

all 6500 ft	85-35-17-17
	87-36-16-17
	88-40-17-18
	86-39-17-17
	80-36-16-17
	82-39-17-17
	76-38-16-17
	83-39-17-18
	81-38-18-18
	78-38-18-17
	82-37-16-17
	88-38-18-16
	80-82-30-12
	105-90-30-13
	110-95-30-13
	105-95-31-12
	121-190-71-42
	125-100-32-14
	110-10-24-X
	85-39-17-17
	85-35-17-19
	80-35-17-17
	84-37-17-17
	96-40-18-19
	80-35-17-16
	84-35-17-17
	78-35-17-17
	85-39-17-17
	86-39-17-18

No	SPECIES	SEX	DATE	LOCALITY
2008	Gray Mouse	♂	Aug 26	Antea Bogda
09	"	♂	Aug 26	"
10	Meriones dark	juv	" "	"
11	Meriones yellow	"	" "	"
12	Meriones "	♂	" "	"
13	Blattaga	♀	" "	"
14	"	♀	" "	"
✓ 15	Chrotoma	♀	Aug 26	"
✓ 16 ⁵⁹⁷⁴¹	"	♂	" "	"
17	Citellus	♂	" "	"
18	Gray Mouse	♂	" 27	"
19	" "	♂	" "	"
200 20	" "	♀	" "	"
21	Gray Mouse	♂	" 27	"
22	Gray Mouse	♂	" 27	"
23	Meriones yellow	♂	" "	"
24	Meriones dark	♂	" "	"
25	" "	♂	" "	"
26	Meriones (dark)	♂	" "	"
27	" "	♀	" "	"
28	Citellus	♀	" "	"
29	"	♀	" 28	"
✓ 20 30 ⁵⁹⁷⁴²	Chrotoma	"	" 28	"
31	Gray Mouse	♀	" "	"
32	" "	♂	" "	"
33	" "	♀	" "	"
34	Gray Mouse	♀	" "	"
35	Meriones dark	♀	" "	"
36	" "	♂	" "	"
37	Copra sibirica	♂	" 25	"

80-40-15-18
85-40-15-18
103-85-29-13
95-85-30-12
105-82-31-12
123-200-67-40
120-192-69-40
160-11-29-17 with skull
180-11-32-20
210-70-40-x with skull
79-37-17-17
82-37-17-16
80-37-17-18
80-38-17-16
80-32-16-17
102-90-31-12
124-102-31-14 with skull
115-105-30-13 with "
117-100-31-14
125-100-31-14
118-105-30-13
195-55-32-x
190-61-37-x
165-9-31-20
83-37-17-17
85-38-17-17
73-35-17-17
80-40-17-17
115-95-31-14
105-100-30-24
horns 22" long

No	SPECIES	SEX	DATE	LOCALITY	ALTITUDE	SKIN & SKULL	MEASUREMENTS
2038	Capra sibirica	♂	Aug 28	Artra Bogdo	alt 6500 ft	skin & skull	length horn 32" - length body 52
39573 ¹⁰	" "	♀ juv	" 29	"	"	"	"
40	Alastaga	♂	" "	"	"	"	123-185-65-43
41	"	♂	" "	"	"	"	125-190-70-42
42	"	♀	" "	"	"	"	130-192-70-41
43	Citellus	♀	" 29	"	"	"	185-70-38-X
44	"	♀	" "	"	"	"	195-70-39-X
45	Earless mouse	♂	Aug 29	"	"	"	113-11-23-X
46	Meriones yellow	♀	Aug 31	10 mi. W. Artra Bogdo	alt 5500 ft (desert)	"	105-96-32-13
47	" "	♀	" "	"	"	"	115-100-33-13 with skull
48	" "	♂	" "	"	"	"	122-103-33-13
49	" "	♀	" "	"	"	"	110-105-32-14
2050	" "	♀	" "	"	"	"	110-100-32-13
51	" "	♀	" "	"	"	"	95-90-30-12
52	" "	juv	" "	"	"	"	88-85-31-13
53	Dipus (dark tail)	♂	" "	"	"	"	115-155-66-23
54	Alastaga	♀	" "	"	"	"	107-180-70-39
55	Dipus " "	♀	" "	"	"	"	110-158-61-20
56	Meriones	-	Sept 5	50 mi. West of Sai	desert	"	120-94-31-13
57	Alastaga	♂	" "	"	"	"	125-175-67-34
58	"	♂	" "	"	"	"	125-168-65-35
59	Meriones	juv ♂	" "	"	"	"	90-88-29-11
2060	"	♀	" "	"	"	"	95-88-30-13
61	Dipus dark tail	♂	" "	"	"	"	105-142-57-20
62	Meriones	♂	" "	"	"	"	115-96-30-13
63	Dipus	♂	" 6	Sai	desert	"	123-165-64-23
64	"	♀	" "	"	"	"	125-165-65-24
65	Dipus	♀	" "	"	"	"	122-168-63-22
66	Alastaga	♂	" "	"	"	"	120-172-65-36

No	SPECIES	SEX	DATE	LOCALITY
2067	Dipus	♂	Sept 6	Sain Khan desert
68	"	♀	" "	" "
69	"	♂	" "	" "
2070	Dipus	♂	" "	" "
71	"	♀	" "	" "
72	Meriones	♀	" "	" "
73	"	♂	" "	" "
74	Dipus	♂	" 10	160 mi S. East of Sain Khan desert
75	"	"	" "	" "
76	Alactaga	♂	" "	" "
77	Dipus	♀	" "	" "
78	Alactaga	♀	" "	" "
79	Dipus	♂	" "	" "
2080	"	♀	" "	" "
81	Dipus	♀	" "	" "
82	"	♂	" "	" "
83	"	♀	" "	" "
84	Dipus	♀	" "	" "
85	Meriones	♀	" "	" "
86	Dipus	♀	" "	" "
87	Alactaga	♀	" "	" "
88	Dipus	♂	" "	" "
89	"	♀	" "	" "
2090	"	♀	" "	" "
91	"	♀	" "	" "
92	Dipus	♀	" "	" "
93	"	♀	" "	" "
94	Dipus	♀	" "	" "
95	Meriones	♀	" "	" "

118-167-65-20
117-160-65-21
115-145-60-22
121-158-65-23
120-165-64-23
100-90-31-14
105-98-32-13
120-145-63-21
"
125-183-66-43
116-150-60-22 <i>misread</i>
125-186-67-40
116-155-65-22
120-162-64-21
120-143-60-23
110-152-62-22
111-145-61-20
100-120-61-17
120-100-32-14
110-162-64-23
124-150-62-30
115-155-65-22
105-155-58-21
108-155-64-22
102-157-64-21
110-165-64-22
110-158-64-22
115-164-65-22
115-100-34-15

No	SPECIES	SEX	DATE	LOCALITY
2096				
97				
98				
99				
2100				
101				
102				
103				
104				
105				
106				
107				
108				
109				
2110				
2111				
112				
113				
114				
115				
116				
117				
118				
119				
2120				
121				
122				
123				
124				

No	SPECIES	SEX	DATE	LOCALITY
2125				
26				
27				
28				
29				
2130				
31				
32				
33				
34				
35				
36				
37				
38				
39				
2140				
41				
42				
43				
44				
45				
46				
47				
48				
49				
2150				
51				
52				
53				
54				

[Faint, illegible handwriting on page 173]

The Eastern Tombs (Tung Ling) are the burial tombs of the Manchu Emperors & their consorts. The tombs themselves are 85 mi. east of Peking and are at the lower end of a vast walled hunting park, more than 100 miles long and miles wide. To the northward this park stretches away in a succession of ragged mountains and deep valleys which were once covered with a magnificent virgin forest consisting of pines, oak, poplar, maple and other soft wood. Pines are in the majority, by far, and the higher mountain slopes are mostly covered with these trees. The vegetation is extremely heavy, rank bushes and vines covering every inch of space. There are, also, huge boulders which offer good cover for small mammals.

During the last few years, the timber has been cut away at an astounding rate and in four or five years more nothing of the forests will be left except that on the most inaccessible mountain slopes, which are too steep to admit of cultivation. Even in the two years since I was here (1919 Apr.) the devastation is appalling. Corn & millet has been planted far up the steep slopes which have been ruthlessly cleared of splendid trees. The mountains are exceedingly steep and the valleys deep & moist. Altogether it is an ideal place for small mammals which love thick moist forest.

Specimen
nos. 1-6

no. 1 is a much browner chipmunk which is certainly distinct ^{as a species} from the grayer & smaller nos. 2-6. They live in exactly the same locality & have the same habits which are similar to those of all chipmunks.

nos. 7-12

These spiny backed rats, which I presume represent Apodemus, ^{as caught} among the boulders in the moist forest near the stream bed and also under fallen logs.

nos. 13-18

In exactly the same places I got the smaller spiny back mouse (13-18) and they are both ^{very} abundant. Many of the specimens which we caught had been partially eaten, presumably by others of the same species.

nos. 19-20

These black squirrels are fairly rare even in this region which is their last sanctuary. They are usually found on the mountain ridges in pine trees. Their black color makes them very conspicuous. I have never seen them in the valleys.

nos. 58-59-62
and 63

These mice I caught along a earthen bank which ran through a corn field. They are not abundant at this place (Shing-hung-shan). For out of 41 traps I only got two each day.

On the wooded mountains ~~and~~ wherever there was cover, even along the wet banks of streams we could only catch the wood mouse & rat such as nos. 7-13. Even by leaving the traps for several days in same place I could get nothing else.

It is exceedingly wet this month - in

fact it rains every day - and this makes trapping very difficult. Moreover the undergrowth is so very heavy that it is difficult to find suitable places to set traps - therefore, I do not feel that I have made a very thorough search of this region so far as small mammals go.

no. 76

Badgers are fairly common in the forests north of the tombs (or more fully than) where we were camping. I have seen them several times during the day running about the forested ruts. I shot one once which was sitting on a stone. The bullet cut thru its fore leg and the animal yelped like a dog in pain. The noise made the woods ring.

no. 8

These large flying squirrels are now very rare. Two years ago a hunter lent me two but the natives said that now they were seldom seen. Like the sika deer (Cervus hortolomus) they will soon be exterminated in this region - There are only a few sika left, far both in the ruts. There are still good numbers of goral which because they live on such inaccessible cliffs will last longer than any of the other mammals of large size.

Sika
deer.
roebuck
bear
leopard
goral

The roebuck are decreasing rapidly. There are still a fair number of bear and a very few leopard.

Takin
Group

Dwarf Bamboo - grow in clumps of from 25 or 30 stalks to 200 or 300 - the stalk goes straight into the ground with no spreading out at the base - the whorls bearing leaves begin in some cases close to the ground - in others further up - no regular arrangement as to that - the stalks I am bringing home have all been cut near the ground - at this time (Oct. 5) the leaves are beginning to turn yellow, as are the stalks, and to curl from the outer edges inward lengthwise, forming a trough of the leaf - some of the leaves on a stalk are yellow and some are still green - in almost all cases the stalks are all yellow - underneath, the ground is matted with dried leaves and grass dry grass - the green of the bamboo leaves is grass green

The Rocks are granite almost entirely blotched with a thin dry lichens which could not be detached. If the rock is blotched with paint as my photos of the rocks show it will be quite as good as the lichens themselves - The lichens are grey and grey-green - the patches are usually irregularly circular and from 3" to 6" or 8" in diameter - there is very little moss on the rocks but dry grass grows in the crevices - photos show the type of rocks -

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.]

Preservative for foliage

Field Strength - 2 days to a week

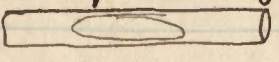
*
Formalin - 20
Water - 20
Glycerine - 50

Laboratory Strength - indefinitely

Formalin - 15
Water - 35
Glycerine - 50* Use field strength when you take the material out and dry after a few days. Big things too large to dip - brush with whisky brown & dry in shade. ~~At~~ Give whatever comes home dry a dose of this.

Get samples of leaves and leaf arrangement - make casts of leaves and bring some back in solution.

Take photo of brush or tree

Always bring samples of trees -
bark - bough 

If impossible to make leaf moulds shape leaf in clay base - pour film of thin plaster and white hardening put in a little excelsior. Turn over grease edges, leave leaf in mould

(con) dry grass - bring home enough grass for the group - dry

fresh green grass samples in formaline

Rocks - photos - several samples - any characteristic cracks or angles get samples - sample for colorDirt sample - unless different or characteristic - then bring enough for groupColor sketches

Flowers put in laboratory strength and bring pressed - fleshy lily - dissect & press - Low flowers, etc, get photo - close up -

Kwai hua trip Nov 21

2 1/2 days tickets to Fuzhou 36

3-3rd 8

room key 4

food in train + extra 38

station man 2

station man 4

station man 3

station man 5

station man 10

station man 10

station man 179

Li's acct personal

10 Peking

5 Kwai hua Nov 27

5 Kwai hua Dec 9

Li's acct exp

5 Peking 54

5 Kwai hua Dec 9 50

5 Kwai hua Dec 11 50

5 Kwai hua Dec 11 50

5 Kwai hua Dec 11 50

5 Kwai hua Dec 11 50

5 Kwai hua Dec 11 50

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5 Kwai hua Dec 11 50

chips cash 200



2045
700
1345

2000
1346
654

1304
670
634

ddp

7

1182

