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A RECORD OF THE BODY WEIGHT AND CERTAIN ORGAN AND GLAND WEIGHTS OF 3690 ANIMALS

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The weight data presented in the following table are offered in the hope that they may be of value to the biologist, physiologist and particularly to the student of growth phenomena. They were collected in Northern Ohio and by several Cleveland Clinic Foundation Expeditions to various parts of the world. These expeditions included one to the South-western area of the United States, one to Brunswick Island, Georgia, one to Africa, one to Key West, Florida, one to the Northeastern arctic territory of Canada and one to Mexico and Guatemala. In addition, certain data are included which have been collected by W. W. Swett and associates of the Bureau of Animal Industry, Department of Agriculture, Washington, D. C., by S. Naccarati, and by Dr. Herbert Clark, Director of the Gorgas Memorial Laboratory, Panama. Certain data on primates were secured through the courtesy of the Department of Physiology of the Yale University Medical School. The material on the horses was made available to us through the co-operation of Dr. W. W. Dimock, head of the Animal Pathology Division of the University of Kentucky, who permitted us to make a large series of dissections in the laboratory of his division. The figures on the gorilla are based on a partial dissection of a specimen at the American Museum of Natural History, through the courtesy of Dr. W. K. Gregory and Dr. H. C. Raven. The data on the human being were obtained through the co-operation of Dr. Harry C. R. Darling, Sidney, Australia; Dr. Nils P. Larsen,

Honolulu, Hawaii; Dr. C. C. Sweet, Ossining, New York; Dr. Carlos Duran, Guatemala; and Dr. John Hertz, Copenhagen, Denmark; and on our own dissections.

With few exceptions, marked with an asterisk, our own data represent fresh weights taken immediately after the animal was sacrificed. The larger animals were weighed on a Chatillon scale of 600 pound capacity, in the case of the heaviest animals this necessitated quartering or cutting the body into sections to fit the scale. The smaller animals were weighed either in a Chatillon autopsy scale, a Cenoco triple beam balance or an Ohaus beam balance. The glands and organs likewise were weighed in these scales except for the very small glands which were weighed in an analytical balance.

It will be noted that some records are more complete than others; this is due in part to changes which were made in our program over the period of some ten years and in part to the impossibility of getting complete records for many of the animals. No attempt has been made to arrange the groups in order of relative development. A rough alphabetical listing has been made.

In connection with the degree of accuracy of the weights, in some instances these have been carried beyond the limits of error. Generally, however, we have attempted to hold to an accuracy of one per cent. In the case of animals which were weighed in pieces, we allowed five per cent for loss of blood and body fluids. All weights represent the body weight plus whatever mass was present in the stomach and intestine.

Under the heading "Remarks," we have given chiefly the locale or country from which the animal was obtained. In certain cases, other pertinent information has been included.

The scientific names have been checked by us and have been examined by Arthur B. Fuller, of the Cleveland Museum of Natural History. If any errors have occurred in naming, the authors take responsibility for them.

BIBLIOGRAPHY

- Swett, W. W., Mathews, C. A., Miller, F. W., Graves, R. R.** Variations recorded in the study of the conformation and anatomy of 593 dairy cows having records of production. Bureau of Dairy Industry, U. S. Department of Agriculture, Washington, D. C. 1937: 1-23.
- Swett, W. W., Miller, Fred W., Graves, R. R., Black, W. H., and Creech, G. T.** Comparative conformation, anatomy and udder characteristics of cows of certain beef and dairy breeds. *J. of Agricultural Res.*, 55: 239-287, 1937.
- Naccarati, Sante.** On the relation between the weight of the internal secretory glands and the body weights and the brain weight. *Anatomical Record*, 24: 255-260, 1922.

INVERTEBRATES

Catalogue Number	No. of Animals	Common and Scientific Name	Sex	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes	nerve C
10		ANNELIDS <i>Earthworms</i> <i>Lumbricus terrestris</i>		.00609	.0214	(Ganglia and ventral					
5		INSECTS <i>Cockroach</i> <i>Periplaneta americana</i>		.00092	.000195	(Ganglia and ventral					
54		Grasshopper..... <i>Melanoplus femur rubrum</i>		.00458	.00233	(Ganglia and ventral					
35	M&F	Woodroach..... <i>Blaberus craniifer</i>		.004727	.0097	(Ganglia and ventral					
5		MOLLUSCS <i>Slug</i> <i>Limax maximus</i>		.00417	.0133	(Ganglia)					

VERTEBRATES
AMPHIBIA

BIRDS

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes	
702	1	M	Blackbird..... <i>Quiscalus quiscula</i> <i>aeneus</i>	.082	2.92	.0116	.0133	1.159	2.63	1.917	1
261	1	F	Bluebird..... <i>Sialia sialis sialis</i>	.034	1.281	.006	.022	.383
262	1	M	" "	.029	1.392	.0093	.013	.493
168	1	F	Bustard, Greater..... <i>Choriotis kori struthiunculus</i> (Neumann)	5.540	12.94	.44	.33	60.25	98.61	40.25	22
169	1	M	" "	10.00	15.63	.91	.87	97	200	52.45	6
136	1	F	Bustard, Lesser..... <i>Haliaeetus bocifer</i> <i>bocifer</i> (Daubin)	1.100	7.62	.213	.237	11.93	17.63	10.18	6
15A	1	M	Buzzard, Steppe..... <i>Buteo vulpinus</i> <i>vulpinus</i> (Gloger)	.558	7.9	.18	.26	4.58	10.87	3
24F	1	M	Buzzard, Turkey..... <i>Cathartes aura</i> <i>septentrionalis</i>	.494	9.3	.115	.156	10.24	20.99	7.95	10
266	1	F	Catbird..... <i>Dumetella carolinensis</i>	.033	1.412	.004	.004	.327
706	1	M	Canary..... <i>Serinus canarius</i>	.0171	.848	.0193	.0059	.2854	1.010	.336	..
1258	1	F	" "	.0153	.564	.009	.007	.133	.738	.230	..
265	1	F	Cowbird..... <i>Molothrus ater ater</i>	.066	2.693	.014	.017	1.06
55A	1	F	Crane, Crested..... <i>Balearica pavonina</i>	4.071	13.54	.34	.38	41.21	125	12	30
56A	1	M	" "	4.825	12.85	.265	.30	32.37	86.1	11.2	21

60	1	M	Crane, Grey.....	1.651	8.58	.14	.248	19.01	29.34	10.97	[1]
241	1	M	<i>Grus canadensis</i>								
			Crow337	9.3	.038	.077	3.2
			<i>Corvus brachyrhynchos</i>								
50F	1	F	Dovekie.....	.102	1.93	.008	.016	1.24	2.51	1.94	1
51F	1	M	" Alle alle								
646	1	M	Duck.....	.104	1.92	.009	.037	1.24	4.34	2.00	2
			" Duck, Pintail.....	1.041133	.152	13.4	58.3	2.9	18
29	1	F	Duck, Pintail.....	.670	4.9548	.0559	.0818	8.34	30.33	1.70	8
154	1	F	Eagle, Fish.....	3.500	12.93	.28	.40	32.23	46.28	22.28	18
5	2	F	Eagle, Tawny.....	2.625	14.09	.19	.45	18.54	43.45	32.84	14
22			<i>Aquila rapax rapax</i>								
88	1	M	(Temminick) "	1.67	13.62	.12	.35	9.24	42.73	30.2	2
11	2	M	" "	2.428	13.91	.31	.50	14.17	37.55	30.9	13
114A	1	F	Egrette, Great White..	1.03	6.12	.13	.21	9.25	33.02	8
113A	1	M	<i>Casmerodius albus melanorhynchos</i> (Wagler)	.525	4.7	.07	.14	5.0	16.53	5.16	3
109	3	F	Egrette, Yellow-Bill.....								
110	3	F	<i>Mesophoyx intermedia</i>								
111			<i>brachyrhyncha</i> (Brehm)								
16	2	M	Flamingo.....	1.483	6.99	.27	.34	14.68	40.27	2.97	17
17			<i>Phoeniconaias minor</i>								
718			(Geoffroy) "	1.598	8.05	.57	.59	13.53	40.91	3.82	19
719	4	F	Fowl, Leghorn.....	1.263	3.916	.2153	.186	10
720			<i>Gallicus bankiva</i>								
721	7	F	" "	.0437	.9971	.0038	.0095	1.8524
13	M	"	" "	.0464	1.0556	.0036	.0147	1.6242
6	F	"	" "	.0632	1.2107	.0063	.0163	3.4432
14	M	"	" "	.0801	1.3378	.0083	.0185	3.1548

BIRDS—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes	Kidney
15	F	Fowl, Leghorn.....	.1197	1.5001	.0094	.0198	4.2529
15	M	" "	.1197	1.5411	.0089	.0263	4.2091
12	F	" "	.1719	1.7148	.0132	.0228	5.1676
8	M	" "	.1601	1.7039	.0113	.0254	5.0124
10	F	" "	.2231	1.9261	.0167	.0305	6.1386
10	M	" "	.2973	1.9173	.0143	.0368	6.6918
12	F	" "	.2951	2.1168	.0233	.0390	8.4172
8	M	" "	.3168	2.1142	.0198	.0441	9.0164
6	F	" "	.3978	2.3487	.0300	.0498	11.843
11	M	" "	.3918	2.3334	.0294	.0611	13.719
10	F	" "	.3596	2.3811	.0689	.0864	11.032
10	M	" "	.3532	2.4980	.0536	.1135	12.365
10	F	" "	.4907	2.5822	.1097	.0989	2.80	12.761	3.34	3.	3.
10	M	" "	.5007	2.8056	.0631	.1265	3.18	15.305	3.75	4.	4.
16	F	" "	.6151	2.7224	.0762	.0973	3.91	14.498	3.58	4.	4.
8	M	" "	.7331	2.9279	.0894	.0714	4.19	16.188	4.25	4.	4.
602	1	M	Fowl, White Orpington <i>Gallus bankvianus</i>	2.200	3.55	.140	.260	8.78	45.9	6.39	12.
18A	1	F	Goose, Egyptian..... <i>Alopochen aegyptiaca</i>	1.935	7.64	.34	.42	18.51	34.31	9.
186A	1	M	Guinea Fowl..... <i>Numida meleagris</i>	1.620	4.20	.293	.36	14.22	28.6	7.
25	1	M	Gull, Bonapartes..... <i>Larus philadelphicus</i>	.205	2.49	.0216	.0529	3.44	9.12	3.14	3.
44F 10F	2	F	Gull, Herring..... <i>Larus argentatus</i>	.535	5.08	.040	.133	5.24	27.33	7.74	...
	53F	1	Gull, Ring-Billed..... <i>Larus delawarensis</i>	.720	8.72	.051	.12	7.35	23.51	8.74	7.
21F	1	F	Gull, Shearwater..... <i>Puffinus griseus</i>	.268	3.01	.031	.049	2.46	10.03	3.27	3.

BIRDS—Continued

Catalogue Number	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes
264	1	F Phoebe.....	.0175	.750	.0025	.055	.165
271	1	F Pigeon.....	.247	2.285	.031	.046	4.651
268	3	M <i>Columba livia</i>	“ “282	2.694	.028	.0421	4.836	...
269	3	M Ptarmigan, Willow.....	.542	2.377	.0255	.0273	7.863	12.99	2.316
270	3	M <i>Lagopus lagopus</i>540	2.800	.017	.036	9.46	13.405	3.022
24A	3	M Raven.....031
24C	1	F <i>Corvus corax</i>
24D	1	F <i>Turdus migratorius</i>
108	1	F <i>migratoris</i>
259	2	M Scaup, Greater.....	.0693	2.09	.0105	.0213	1.018	1.677	...
260	1	F <i>Nyroca marila</i>787	4.7859	.0855	.1850	8.00	23.00	1.76
28	1	F <i>Passer domesticus</i>
...	11	F Sparrow.....
...	75	M Sparrow, Song.....
255	1	F <i>Melospiza melodia</i>
14A	1	M Stork, Abdin.....	.02357	1.0278	.0042	.0063	.4077	1.2062	.4591
84A	1	M <i>Sphenorhynchus abdimii</i> (Lichenstein).....
82A	2	F <i>Ciconia ciconia ciconia</i> (Linnaeus).....	3.350	16.24	.43	.49	28.75	71.4	9.15
83A	2	F “	3.334	15.78	.40	.44	32.12	61.06	16.5

195A	1	M	Stork, Hammerhead...	.3175	3.93	.037	.061	7.22
107A	2	M	<i>Scops umbretta</i>	7.130	30.14	.64	2.06	55.24	110	27.89	4.
108A	1	M	Stork, Marabout
257	1	M	<i>Lophophilos cruentiferous</i> (Lesson)	.0215	.904	.006	.007	.302
256	2	F	Swallow, Barn...
258	1	F	<i>Hirundo erythrogaster</i> " " "	.021	.879	.0083	.0085
27	10	F	Teal, Greenwinged...	.305	3.116	.0281	.0430	2.88	8.17	1.16
Nettion carolinensis	Starlings...
Sturnus vulgaris
" "	15	M	Vulture...	0.5736	1.8701	.0063	.0147	.9293	1.9874	.8384
Pseudogyps africanus	1	F	5.270	19.60	.40	.46	.37.85	70.20	16.24	3.

CARNIVORES

132	1	M	Bear, American.	25.0	6.0
600	1	F	<i>Ursinus americanus</i>	142.88	233.9	53.6	65.5	1132.5
624	1	M	Bear, Grizzly.
624	1	M	<i>Ursus horribilis</i>	199.57	489	17.3	10.8	1161	4539	10.1
567	1	F	Bear, Polar.
567	1	F	<i>Thalarctos maritimus</i> " " "	317	507	21.5	29.8	1220	4126
103	1	F	Cat, Civet.
99	1	M	<i>Spirogale arizonae</i> " " "	6.0	.028	.086
.....	1	Cat, Domestic.
.....	1	<i>Felis domesticus</i>	.576	16.0
2	2	M&F	" " "	1.542	18.0
756	2	F	" " "	2.885	23.46	.21	.639	12.38	.92.67	10.06

{ 48F }

CARNIVORES—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes
232)										
1253										
1254	5	M	Cat, Domestic.....	3.778	28.37	.408	.571	16.82	126.8	9.67
632										
749										
36F		M	" " (feralized)	5.012	28.23	.460	.795	19.61	184.2	11.86
10A)	2	M	Cat, Genet.....	1.302	15.89	.29	.49	7.51	49.68	3.72
67A)			<i>Genetta tigrina suahelica</i> (Matschie)							
153A	1	F	" "	1.525	15.35	.04	.19	8.46	58.54	344
104)	2	M	Cat, Ringtailed.....		17.1	.083	.353			
113)			<i>Bassariscus astutus</i>							
152A	1	F	Cat, Wildcat.....	2.700	28.48	.10	.19	5.86	32.75	6.41
			<i>Felis ocreata</i>							
148	1	M	Cheetah.....	22.20	2.449	1.09				82.5
			<i>Acinonyx jubatus</i>							
1292	1	M	" "	40.82	13.05	2.91	159	1000	49
	1	Coati mundi.....	.399	23.34	2.0	17.5
			<i>Nasua narica pana-maensis</i> (Allen)							
714	1	M	" "	6.25	44.17	1.54	.54	37.97	150	2.33
667	1	F	Coyote.....	8.510	84.24	.6901	1.049	72.71	292.5	11.11
			<i>Canis latrans</i>							
89	1	F	" "	80.0	1.8	.560	8
213A)										
214A)	3	M	Dog.....	14.56	79.99	1.14	1.74	127	760	10.97
216A)			<i>Canis familiaris</i>							

CARNIVORES—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes
709	1	F	Kinkajou..... <i>Potos flavus aztecus</i>	2.62	31.05	.56	.19	14.3	98.6	1.9
608	1	M	Leopard..... <i>Felis pardus</i>	48	135	48.55	6.93	200	900	31.4
561	1	F	Leopard, Infant.....	8.618	121	1.3	2.3	52	278
144	2	F	Lion, Cubs..... <i>Felis leo</i>	56.69	167	87.08	7.81	345	1182
267			" "							
1144	1	F	" "	20.41	163	4.415	9.20	144.6	723.8	31.3
131	2	F	" "	87.34	16.33	8.62	391.1
185										
219										
579	3	M	" "	124	229.2	636.9	15.51	1163	51.8
689										..
37A	2	M	" "	190.8	258	20.57	32.73	1018	5725	59.23
38A										1
612	1	M	Lion, Mountain..... <i>Felis oregonensis</i>	28.79	106.7	2.20	9.6	184	1255	9.2
106	1	F	" "	1.6	4.1	1
98	1	M	Lynx..... <i>Lynx baileyi</i>35	.60	2
159A	1	M	Mongoose..... <i>Ichneumia albicauda</i>	4.40	28.30	.21	.61	28.84	61	4.0
571	1	M	Puma..... <i>Felis bangsi costaricensis</i> (Merriam)	25.96	129	1.40	10.2
.....	1	Raccoon..... <i>Procyon lotor pumilis</i> (Miller)	5.175	40.	1.33	3.22

64	1	F	"	"	2.226	33.55	.190	1.55	19.73	140	3.32	32
562	1	F	"	"	4.536	40.5	.195	1.4	31.2	136	37
563	1	M	"	"	5.216	42.7	.261	.9	42.5	187	32
168F	1	F	"	"222	1.651
321	1	M	Skunk.....	<i>Mephitis mephitis</i>	1.700	10.3	.274	.468	9.82	45.7	1
110	2	F	"	"	2.260	10	.096	.348
127	2	M	Skunk, Hog-nosed.....	<i>Conepatus mesoleucus</i>	15.5	.068	.279	7
102	2	F	"	"
111	1	F	Serval.....	<i>Felis capensis</i>	16.0	.054	.211	7
117	1	M	<i>Felis capensis</i>	9.955	66.74	.42	1.03	37.3	225	18.02	1
139	1	F	Tiger.....	<i>Felis tigris</i>	5.819	53.16	.33	.40	28.45	86.18	10.23	40
87	2	F	"	"	160.	225	68.2	16	432	1818
151	1	F	209.	302	50.5	20.8	698
288	1	M	Weasel, Arctic.....	<i>Mustela arctica</i>	.1693	5.64	.108	.015	2.83	9.67	.153	1
53A	3	M	"	"
53B	1	F	Wolf, Russian.....	<i>Canis lupus lupus</i>	121	3.47	.015	.030	1.95	5.5	.110	1
53C	1	M	Wolf, Timber.....	<i>Canis lupus lupilus</i>	22.68	119	13.	2.4	246	626	18.20	1
782	1	F	29.94	152	3.49	3.37	315	925	16.84	2
627	1	M
672	1	M

PINNEPEDIA

40	1	F	Seal, Bearded.....	<i>Erignathus barbatus</i>	109.7	6.13	6.95	515
39	1	F	"	"	281.	460	22.83	22.04	1245	5454	63.06	1
613	1	M	Seal.....	<i>Phoca richardii geronimensis</i>	107.3	442	10.02	6.27	1435	4485	60.72	2

PINNEPEDIA—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes
149	1	M	Seal.....	378	5.2	6.0	4
18 31 37}	3	M	Seal, Ringed..... <i>Phoca hispida</i>	39.46	251	3.49	2.49	281	1244	73.34
36 41 45}	2	F	“ “	39.68	255	3.44	3.41	302	930	70.20
45	1	M	Walrus..... <i>Odobenus rosmarus</i> (Linnaeus)	79.38	3625
38	1	F	“ “	55.79	737	13.68	7.20	650	2300	13.2
43 46 47 48}	1	M	“ “	667	1126	70.04	27.07	4536	19504	26.63
48	3	M	“ “	595.6	66.67	20.15

CETACEA

70	1	M	Porpoise..... <i>Phocoena phocaena</i>	142.43	1735	18.29	10.41	738	2962	57.19	..
748	1	Whale, Blue..... <i>Balaenoptera musculus</i>	58059	6800	3450	1385
1 32}	2	F	Whale, White..... <i>Delphinapterus leucas</i>	303.23	2354	65.94	29.23	1722	4825	22.01	1
7 19 33 34}	4	M	“ “	441.31	2349	111.04	29.20	2454	6807	31.71	2

CHIROPTERA

.....	5	M&F	Bat, Vampire..... <i>Desmodus rotundus</i> <i>muriunus</i> (Wagner)	.028	.936	.028	.012
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EDENTATES

.....	1	Ant Bear..... <i>Cyclops didactylus</i> <i>dorsalis</i> (Gray)	.086	4.11	.15	.72
.....	1	Anteater..... <i>Tamanduas tetradactyla</i> <i>chiriquensis</i> (Allen)25	1.0	4.0
.....	1	" "	1.409	23	1.0	2.0	23.
.....	2	M&F	" "	3.692	2575	18.0	76.5
.....	1	M	Armadillo..... <i>Dasypus novemcinctus</i> <i>fenestratus</i> (Peters)	2.086	9.5	.195	.83
.....	7	M&F	" "	.471	6.056	2.3	22.3
.....	4	M&F	" "	1.392	8.2	1.1	6.0	40.2
.....	1	F	" "	1.818	8.5	.16	.71
.....	1	M	" "	3.701	14.2	.42	.80	14.738
.....	10	M&F	" "	3.401	7.5	1.2	9.0	106
.....	1	Sloth, Three-toed..... <i>Bradypterus griseus</i> <i>griseus</i> (Gray)	.676	15.	1.0	3.0	20
.....	1	F	" "	1.115	14	.07	.20
.....	1	M	" "	1.601	13.0	.19	.30
.....	4	M&F	" "	2.005	1.1	6.1	42
.....	1	" "	2.894	15	.66	1.16
.....	10	M&F	" "	3.121	15.194	7.5	64.1
.....	1	F	" "	3.774	18.0	.7	1.15
.....	7	M&F	Sloth, Two-toed..... <i>Choloepus hoffmanni</i> (Peters)	4.825	23.07	3.307	.6857
.....	1	F	" "	5.271	26.0	.30	1.03

ELASMOBRANCH FISHES

BONY FISHES

1	M	Catfish.....	10.78	8.2	52.2	3.67 7
		(Of species <i>Crili</i>)							
2	M	Cisco.....	.1621	.299539	1.592	1.08
		<i>Argosomus ariadi</i>							
1	F	Codfish.....	10.6	5.0401	.620	15.90	161.4	60.36 1
		<i>Gadus callarias</i>							
1194									
11188	2								
11197	3	F	" "	2.625	2.2180	.0257	4.09	97.1
11195									
1205									
11196	3	M	" "	2.518	1.9792	.0476	3.90	96.2
11198									
2F	1		Eel, Green moray.....	3.510	.51	.054	1.51	4.62	101.5
			<i>Gymnothorax funebris</i>						1.39
			Goldfish.....	.00554	.069	.009014
			<i>Carassius auratus</i>						
			" "	.00952	.097	.004026
619	1	M	Grouper, Black.....	2.712	1.99	.032	2.08	11.66
			<i>Micropogonias bonaci xanthastica</i> (Jordan and Swaine)						13.19
618	1	F	Grunt, White.....	.300	.81	.0131	3.55
49F	1	M	<i>Haemulon plumieri</i> (Lacepede)						4.47
13F	1	M							
11199									
12001	6	F	Haddock.....	3.275	2.0502	.0692	5.71	132.6
12002			<i>Melanogrammus aeglefinus</i>						26.16 1
12003									
12004	11	M	Hogfish.....	.480	.91	.014452	3.70
			<i>Lachnolaimus maximus</i>						4.97
			Jack, Common.....	2.305	2.97	.031	4.87	18.7
			<i>Caranx hippos</i>						33.25
			Jack, Yellow.....	4.274	7.56	.043	11.62
			<i>Caranx bartholomaei</i>						9.52
			" "	4.812	4.72	.058	13.96	20.22
			Jewfish.....	32.89	2.31	.32	49.23	350
			<i>Promicrops ianara</i> (Lichtenstein)						33.6 5

BONY FISHES—Continued

BONY FISHES—Continued

Catalogue Number	Sex	No. of Animals	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenalin	Heart	Liver	Eyes	Testes
1145	M	3	Whitefish, <i>Coregonus clupeaformis</i>	.7465	.503	.0153892	.84	2.34	7.
1149	M	3	"
1150											
1146	F	3	"
1147	F	3	"
1148	F	1	Yellowtail (fish) <i>Ocyurus chrysurus</i> (Bloch)	.255	.94	.00737	2.41	4.2	...
12											

INSECTIVORES											
631	M	1	Mole <i>Scalopus aquaticus</i>	.0396	1.16	.0095	.0175	.272	1.548	6.
39	F	1	*Shrew <i>Blarina brevicauda</i>	.0163	.3443	.0021	.0037	.1723	.8896	.0011	.2.
29	M	1	"	.0188	.352	.0026	.0048	.1922	1.092	.0018	.2.

MARSUPIALS											
.....	2	Opossum <i>Didelphis marsupialis</i>	2.15	4.5	.14
.....	3	<i>etensis</i> (Allen)
.....	8	M&F	"	.224	3.3
.....	4	M&F	"	.666	3.8
.....	1	"	1.147	4.8
.....	1	Opossum, Woolly. <i>Philander laniger</i>	.158
.....	1	"
.....	1	<i>pallidus</i> (Thomas)	.222
.....	1	"

*Preserved weights.

PRIMATES—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Liver	Hepat.
18	M&F		Monkey, Night.....	1.926	88.6	.785	1.06	7.65	74.5
11	F	"	".....	9.163	109	1.28	2.12	11
6	M	"	".....	8.89	118	1.42	2.23
19	M&F		Spider, Red.....	1.029	74.79	1.04	4.49	42.77
			<i>Ateles geoffroyi</i> (Kuhl)						7
11	M&F	"	".....	2.805	103	1.06	14.52	98.97
63	M&F	"	".....	7.63	107	1.75	32.5	213
5	F	"	".....	.860	64.0	.175	.585	31
5	F	"	".....	5.143	110.6	.798	1.65
3	M	"	".....	4.909	94.7	.64	2.0
6	M	"	".....	7.787	117	.90	2.05
14	F	"	".....	8.912	102.9	1.04	1.95
2	...		Spider, Black.....	.407	58.075	2.75	19
			<i>Ateles darwini</i> (Goldman)						4
18	M&F	"	".....	1.926	88.6	.785	1.06	7.65	74.5
11	F	"	".....	9.163	108.8	1.28	2.12	11
6	M	"	".....	8.89	118.4	1.42	2.23
133	M&F		Squirrel (Marmoset).....	.191	9.6756	1.34	9.33
			<i>Leontopithecus geoffroyi</i> (Pucheran)						..
4	F	"	".....	.340	10.4	.10	.25
3	M	"	".....	.453	11.1	.133	.23
19	M&F	"	".....	.475	11.0453	3.02	16.53
8	M&F	"	".....	.793	19.963	3.91	25.41
8	M	"	".....	.903	24.00	.11	.30	4
2	M		Sykes.....	4.937	60.7	1.14	.878	29.97	119.6
			<i>Cercopithecus</i>						1C
4	M		Vervet.....	3.955	60.89	.279	.554	32.03	86.23
			<i>Cercopithecus aethiops</i> centralis (Neumann)						1E

93A	1	F	"	"	"		1.225	50.3	.172	.220	6.56	29.65	7.
.....	4	F	White-faced	"	"		2.718	71.6	.4	1.43
.....	5	M	<i>Cebus capucinus imitatus</i>	"	"		3.833	73.3	.38	1.23
.....	6	F	"	"	"		1.252	60.8	.26	.70
.....	7	M	"	"	"		1.725	75.5	.34	.61
.....	14	M&F	"	"	"		3.101	72.18	1.06	18.6	14.
.....	6	M&F	"	"	"		1.317	6697	7.53	8.
.....	27	M&F	"	"	"		.590	53.28568	3.06	4.
.....	60	M&F	Yellow Titi	"	"		.607	19.963	3.68	25.6	3.
.....	3	M	<i>Saimiri orstedii</i>	"	"	
.....	2	<i>orstedii reinhardti</i>	"	"		.907	25.3	.15	.447
.....	2	"	"	"		.167	19.420	.85	7	1.
.....	3	F	"	"	"		.24	2245	1.25	12	2.
.....	3	"	"	"		.603	25	.16	.323

ANTHROPOIDS

.....	1	F	Chimpanzee	"	"		3.8
.....	1	F-P	<i>Troglodytes niger</i>	"	"		8.0	8.9
215	1	M	"	"	"		25.85	430.5	10.1	5.0	184.6
218A	1	M	"	"	"		56.69	440	4.85	8.93	250	1210	21.
219A	1	F	"	"	"		43.99	325	4.55	8.4	219
.....	1	M	Gorilla	"	"		6 est.	35 est.
1291	1	M	<i>Gorilla gorilla</i>	"	"		181.
1291	1	M	Chinese	"	"		57.2	1248	21.54	10.1

ANTHROPOIDS—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes	Vertebrae
1339	1	M	Chinese.....	1297	13.3	5.35
1338	1	M	".....	1268	11.4	9.9
1340	1	M	Hawaiian.....	95	1235	16.7	430
755	1	M	Maya-Quiche Indian	42	1270	35	15	220	1040	18
757	1	M	" " "	43.4	1375	80	14	210	1270	17
758	1	M	" " "	49.9	1400	30	10	240
1169	1	M	" " "	36.3	1280	11.1	5.6	155
1334	1	M	" " "	45.0	1190	108	10.0	226
1336	1	M	" " "	37.0	1100	10.0	5.0	159
1335	1	F	" " "	45.8	1000	10.0	10.0	225
1341	1	F	Filipino.....	1109	25.1	200
1337	1	M	".....	1513	16.8	9.3
751	1	M	Negro, Aborigine.....	76.2	1348	36.5	4.2
1312	1	M	" American.....	86.2	1265	19.8	16.7	365	1520
1255	1	M	" "	71.2	1280	18.2	11.8	465	1500
753 754 4 8)	4	M	" "	73.0	1365	31.77	12.69	389	24

REPTILES

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes	.	
											.35	.40
1191	2	M	<i>Alligator mississippiensis</i>	.105	.351	1.61	.176	.076	1.62	6.99	1.73	1
1192	1	F	<i>Alligator mississippiensis</i>	.105	.351	1.61	.176	.076	1.62	6.99	1.73	1
134	1	F	"	"	.52.4	7.23	4.28	6.62	137	708	15.96	1
628	1	F	"	"	.80.0	8.40	3.11	12.85	92.20	900	30.86	1
171	1	M	"	"	109 est.	11.20	6.90	5.80	255	522	25.54	1
218	1	M	"	"	173	11.20	8.83	5.40	900	522	25.54	1
71	1	M	"	"	205	14.08	13.32	11.96	318	522	25.54	1
1251	1	M	Crocodile	90 est.	"	3.77	4.17	"	"	"	"	"
183	1	F	<i>Crocodylus americanus</i>	"	134	15.60	5.20	4.30	134	1145	1145	1
186	1	M	<i>Crocodylus americanus</i>	"	.514	.729	.452	.056	4.17	35.00	35.00	1
670	1	F	Gila Monster	"	"	"	"	"	"	"	"	"
713	1	F	<i>Heloderma suspectum</i>	"	1.34	"	117	215	2.60	33.35	33.35	1
68	1	F	Iguana Lizard	"	4.19	1.44	.040	.090	21.51	60.40	1.06	11
59	1	F	<i>Iguana iguana</i>	"	"	"	"	"	"	"	"	"
679	1	F	Iguana Lizard	"	.050	.121	.008	.020	"	2.50	2.50	1
1190	1	M	<i>Amblyrhynchus cristatus</i>	"	"	"	"	"	"	"	"	"
59	1	F	Lizard	"	"	"	"	"	"	"	"	"
679	1	F	<i>Lacerta viridis</i>	"	"	"	"	"	"	"	"	"
616	1	F	Snake, Black	"	.026	.134	.005	.004	.091	.628	.144	2
710	1	F	<i>Crotalus constrictor</i>	"	.590	.271	.131	.182	6.08	6.08	6.08	1
616	1	F	"	"	.286	.303	.056	.056	.960	2.57	.219	2
710	1	F	Boa Imperator	"	.417	.299	.114	.103	.15	.15	.15	9
			<i>Boa imperator</i>	"	1.829	.440	.15	.15	.15	.15	.15	.15

668	1	F	Snake, Garter.....	.052	.077	
680	1	F-P	<i>Thamnophis sirtalis</i> " "	.057	.123	.020	.076	1.02	
178	1	M	Python.....	6.140	1.123	1.33	2.68	18.50	1.12	
.....	20	M&F	Python, molurus	
.....	20	M&F	Snake, Water.....	.070	.1	.01	.035	2.80	
66F	1	F	<i>Tropidonotus natrix</i>	
.....	6	M&F	Water Moccasin.....	.728	.64	.50	1.06	4.77	64.45	.61	12	
.....	6	M&F	<i>Agkistrodon piscivorus</i>	
.....	30	M&F	Snake, Green Water.....	.22	.209	.045	.08	4.82	1	
.....	30	M&F	<i>Zamenis viridis flavus</i>	
.....	30	M&F	Turtle.....	.250	.25	.025	.028	7.3	1	
.....	30	M&F	<i>Emys europea</i>	
700	1	M	Turtle.....	.320	.30	.036	.031	8.5	1	
.....	<i>Testudo graeca</i>	
66A	1	F	Turtle.....	2.163	1.36	.125	.413	7.05	53.5	1.35	8	
.....	62F	1	F	<i>Clemmys guttatus</i>	5.125	.98	.48	.62	13.43	160	.72	24
.....	62F	1	F	Turtle, Green.....	68.04	5.81	3.46	3.27	180	540	21.08
.....	6F	1	M	" "	114.30	8.60	24.55	3.84	435	775	66.20	8
1252	1	M	Turtle.....	.18557
.....	325	1	F	<i>Clemmys guttatus</i>	3.253	2.50	.51	.44	16.0	90.0	1
.....	601	1	M	Turtle, Leatherneck.....	1.848	1.01	.59	.51	12.88	184	1.21	12
.....	<i>Amyda forex</i>
.....	<i>Macrochelys lacertina</i>

RODENTS

.....	1	Agouti, Brown.....	1.400	15.005	10	60	14
.....	3	M&F	<i>Dasyprocta punctata</i> <i>dariensis</i> (Goldman)	2.059	1248	9.2	63.22	10
.....	2	M&F	" "	3.172	18.3498	17.54	85	14
.....	1	M	Agouti, Spotted.....	.891	20.5	.101	.40
.....	2	M&F	<i>Cuniculus paca</i> <i>virgatus</i> (Bangs)	1.4	5.5	65.0	10

RODENTS—Continued

Catalogue Number	No. of Animals	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes
1286	1 M	Agouti, Spotted " <i>Castor canadensis</i> "	3.627	21.85	1.6	16.10	187	...	22
1290	1 F	Beaver " <i>Hydrochoerus isthminus</i> (Goldman)	4.559	48	.82	3.1	35
	2 M&F	Capybara " <i>(Goldman)</i> "	4.18	25.48	.207	228	16.57	99.82	...
	1 M	" " "	5.83	29.52	.644	752	27.0	203	1.50
	2 M&F	" " "	27.670	52.21	...	5.2	84.13	577	69
	1 M	Chipmunk " <i>Tamias striatus fisheri</i> (Howell)	7.089	2.72	24.18	113	28
	3 M&F	" " "	14.96	2.72	55.06	509	81
33	2 F	Chimpank " " "	1.60
49	2 M	" " "
703	2 M	" " "
671	4 M	" " "
34	38	" " "
51	50	" " "
55	55	" " "
57	5	Gopher, Pocket " <i>Thomomys fulvus fulvus</i> (Woodhouse)	1.33	1
41	44	" " "
53	2 M	" " "
59	2 F	Gopher, Pocket " <i>Geomys cumberlandus</i> (Bangs)
174	2	" " "
175	1	" " "

170	2	M	" "022	.005
173	1	F-P	Guinea Pig351	3.63	.070	.375	1.72	10.94	.88	2
775	1	M	<i>Cavia cutleri</i> " "361	4.10	.053	.334	1.27	13.80	.93	3
1132	2	M	" "324	3.80	.056	.316	1.31	31.93	.95	3
1135	2	F	" "21494	3.32	.036	.180	1.29	12.06	2
773	2	F	" "21457	3.28	.035	.135	1.291	11.73	2
1134	56	F	" "432	4.00	.071	.348	1.67	16.7	1.04	3
46	46	M	" "456	4.23	.096	.402	1.86	21.17	.84	4
10	10	F	" "	2.93	10.23	.190	.50	30.0	51.91	7.37	12
10	135	M	Hare, African	1.901	14.36	.160	.240	28.45	66.11	4.59	18
248	2	F	<i>Lepus capensis</i> Hare, Arctic	2.640	13.90	.099	.191	28.87	65.22	4.75	22
251	2	M	<i>Lepus arcticus arcticus</i> " " "	2.1494	3.32	.036	.180	1.29	12.06	2
249	2	M	" " "21457	3.28	.035	.135	1.291	11.73	2
250	50A	F	Lemming, Brown032	1.126	.0058	.0167	.434	2.33	.0230	44
50C	4	F	<i>Lemmus lemmus trinucronatus</i> (Richardson) " "048	1.312	.0046	.0251	.600	3.80	.0242	
50D	10B	M	" "0521	.8983	.0042	.0138	.311	2.63	.1451	
50E	10E	M	<i>Dicrostonyx rubricatus richardsoni</i> " "0552	.8447	.0089	.0177	.381	3.05	.062	
50B	10A	F-P	" "0218	.7132	.001	.0095	.122	.944	.075	
171	10C	M	Mouse, African0193	.6961	.001	.008	.1557	1.124	.028	
674	630B	F	*Mouse, Jumping0152	.522	.003	.005	.133	.743	.025	
630C	1	M	<i>Zapus hudsonicus</i> " "0223	.705	.004	.002	.1132	.851	.063	
630A	1A	F-P	Mouse, Dormouse	<i>Claviglis saturatus</i> (Dollman)							

RODENTS—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes
145	1	M	Mouse, Dormouse.....	.0177	.551	.006	.0042	.116	.308	.052
66	2	M	Mouse, Grasshopper.....
68}	1	F	<i>Onychomys</i> “
69	1	F	*Mouse, Meadow.....	.0237
67	M	“	<i>Microtus drummondii</i> “	.6606	.0032	.0014	.040	.1612	1.082	.0239
42	F-P	“	<i>Microtus</i> “	.0229	.6464	.0031	.0160	.1609	1.129	.0236
42	F	“	*Mouse, Meadow.....	.0225	.6724	.0037	.0366	.1999	1.754	.0276
53	M	“	<i>Microtus pennsylvanicus</i> “	.0252	.7166	.0046	.0164	.1973	1.349	.0269
10	F-P	“	“
7	3	F	Mouse, Mountain Meadow.....	.0279	.7394	.0042	.0071	.1937	1.312	.0254
11	12}	“	<i>Microtus alpicola alpicola</i> “
13	1	M	*Mouse, Guatemala.....	.0122	.407	.0032	.0126
14	M	“	<i>Peromyscus</i> “
2	F	“	“	.0184	.4511	.0021	.0049	.1132	1.243	.033
8	F-P	“	“	.0200	.443	.0024	.0064	.1499	1.186	.0291
9	1	M	Muskrat.....	.900	5.33	.0133	1.43	3.23	21.95	.188
21A	1	F	<i>Ondatra zibethica alba</i> Porcupine.....	2.800	30.77	.72	.62	19.75	112.	2.88
234}	2	F	<i>Erethizon dorsatum</i> “	2.725	21.22	.361	.337	14.4	2{
289}										

*Preserved weights.

RODENTS—Continued

UNGULATES

UNGULATES											
677	1	M	Bison, American.....	54.88	334	5.47	6.64	361	695	42.68	2
79A)	2	M	<i>Bison bison</i>								
80A)	1	F-P	Buffalo.....	750 est.	640 est.	34.96	31.05				
45A	1		<i>Synclerus caffer caffer</i>	572	642	37.30	43.27	3050	7175	69.94	1
71A	1	M	" " "	759	653	38.05	52.40	3620	7709	55.00	1
614	1	F	Bushbuck.....	35.38	140	6.76	4.43	325	625	40.53	1
94A	1	M	<i>Tragelaphus scriptus</i>								
			<i>massaicus</i> "	53.07	190	5.08	5.09	350	1100	2
652	1	F	Caribou, Barren ground	71.7	278	3.99	2.29	710	466	33.35	82
44)	2	M	<i>Rangifer articus</i>								
653)	1	M	" "	128.47	306	8.37	5.99	1086	2445	41.66	1
			<i>articus</i> "	62.14	285	5.98	4.16	650
			Aberdeen angus	719	57.5	57.50	1950	6690	1
			Data from Journal of Agricultural Research V.								
44	F	Ayrshires.....	491	417	33.4	31.2	1882	6010	1	
	F	Cows.....		11.82	18.07	
5	F	Cows.....		21.03	24.01	
6	F	Cows.....		31.6	27.7	1737	6087	9	
62	F	Guernseys.....	450	403	31.6	27.7	1737	6087	9	
7	F	Herefords.....	371	357	15.24	18.46	1143	3819	6	
200	F	Holsteins.....	574	415	38.1	37.7	2245	7248	1	
6	M	Holstein bulls.....	90	299	14.25	6.37	422	
3	M	Holstein bulls.....	241	386	30.2	10.13	998	
5	M	Holstein bulls.....	552	408	41.4	19.76	1905	
2	M	Holstein bulls.....	861	471	45.5	22.5	3243	
5	M	Holstein bulls.....	888	462	95.34	41.6	3357	
218	F	Jerseys.....	413	408	27.9	27.4	1605	5747	9	
3	M	Jersey bulls.....	51.9	304	6.4	5.35	304	

UNGULATES—Continued

Catalogue Number	Sex	No. of Animals	Common and Scientific Name	Body Weight in Kilograms	Bra. Ratio	Thyroid	Adrenal	Liver	Heart	Eyes
5	M	Jersey bulls.....	214	356	19.38	9.78	744	1270	14.5	..
2	M	Jersey bulls.....	367	384	29.05	14.5	1270	18.3	18.3	..
2	M	Jersey bulls.....	591	444	47.00	18.3	1987	20.20	27.45	..
10	M	Jersey bulls.....	597	447	82.20	16.06	1606	16.06	2186	..
213	M	Jersey bulls.....	412	408	27.90	18.88	6786	303.3	303.3	1
71	F	Miscellaneous cows.....	506	420	35.2	18.8	18.8	20.68	16.57	..
6	M	Steers.....	174	139	13.9	13.9	1533	13.16	16.57	..
15	M	Steers.....	369	384	20.87	5.2	234.5	505.2	505.2	4
18	M	Calf.....	203.6	4.7	5.2	234.5	505.2	505.2	8
1390	1	Calf.....
1388	1	Calf.....	19.5	193.9	8.0	29.4	232	220.5	29.4	10
1386	1	Calf.....	233.6	187.9	6.9	4.8	174.2	535.8	535.8	11
1389	1	Calf.....	22.0	215.2	19	32.5	265.3	1008.8	1008.8	16
1387	1	Calf.....	489.9	234.6	12.6	3.0	315.3	792.3	792.3	14.3
1391	1	Cow.....	473.5	46.1	17.4	1.2	260.1	626.5	626.5	11
2	F	Deer.....	2.376	54.1	.2	.62	5.16	72	5.16	..
		<i>Odocoileus chiriquensis</i> (Allen)								..
124	1	F	"	13.93	3.0	15.9	516	55
	1	M	Deer, Axis.....	20	8.6	8.6	2
644	1	M	<i>Cervus axis</i> ".....	88.45	219	17.5	6.45	749	1730	34.4
277	1	M	Deer, Malay Sambar.....	148	25	30.6	30.6	3
184	3	M	Deer, White-tailed.....	28.3	23.35	23.35
181	3	M	<i>Odocoileus virginianus</i>	182

172	2	F	Dear White-tailed	21.25	23.05	
177	1	M	" "	65.09	210	5.1	12.25	632	1025	
272	3	M	Deer, White-tailed <i>Odocoileus couesi</i>	123	2.57	.305	
85	3	M	Deer, Mule.....	182	2.86	5.48	
86	1	F	<i>Hemionus odocoileus</i>	2.30	5.25	
87	1	M	Dik-dik.....	4.57	37	.73	.56	36.8	93.2	2	
27A	1	M	<i>Rhynchotragus kirki</i>	
568	1	M	Elk.....	13.61	194.2	6.14	2.38	131.1	374	7	
136	1	F	<i>Cervus canadensis</i>	9.5	8.85	
24	2	M	Gazelle, Thomson.....	24.37	91.8	1.83	2.0	245	525	26.6	
54	1	F	<i>Gazella thomsoni</i>	
89	1	M	" "	2.430	54.61	.46	1.04	31.7	60.61	12.35	16	
68A	1	M	Giraffe.....	1220	700	64.70	78.12	4990	19050	127	
			<i>Giraffa camelopardalis</i>								
			<i>tippelskirchi</i>								
1259	1	M	Goat.....	27.66	115	525	29.55	..	
			<i>Capra hircus</i>								
53	1	M	Hartebeest, Coke's....	134	275	1.83	9.61	875	1525	56.36	8	
142A	1	F	<i>Bublis cokei cokei</i>	543	540	32	53.35	1610	14060	35.02	1
			Hippopotamus.....								
			<i>Hippopotamus</i>								
			<i>amphibius</i>								
143	1	F	" "	1351	720	119	61.10	4536	23580	42.70	8	
53*	M		Hogs.....	102.06	6.88	4.99	303.5	1488.3	28	
			<i>Sus scrofa</i>								
36*	F		" "	102.06	7.52	4.99	324.39	1547.3	26	
30*	" "	102.06	6.46	5.44	297.5	1389.5	24	

*Data furnished by the Bureau Animal Industry, U. S. Department of Agriculture.

UNGULATES—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes
176	2	F	Hogs, wild.....	8.42	2.71
178	2	M	<i>Sus scrofa</i>	5.31	2.69
179	2	M	" "
180										
192										
193										
194	5	Hogs, domestic.....	105	14.25	4.16	2
195										
196										
129	2	F	" "	16.7	3.05	2
130	2
1377										
1378										
1379	5	M&F	Pigs, full term foetuses	1.419	30.3	.45	.27	14.25	43.0	3.29
1380										
1381										
1383	1	M	Pig, shoat.....	4.76	51.2	.7	.37	52.1	184.6	4.05
1382	1	F	Pig, shoat.....	13.15	86.2	1.75	124.5	392.5	5.1
1384	1	M	Pig, shoat.....	5.6	2.65	147.3	903.8	6.2
1419	1	M	Pig, shoat.....	7.60	54	1.6	2.0	46	284	7.0
			<i>Sus scrofa</i>	54
1385	1	F	Pig.....	113.2	123.9	10.8	7.8	452	2334.8	7.3
3	2	M	Impala.....	37.86	149	5.67	3.82	270.05	605	44
161	2	M	<i>Aepyceros melanus</i>	16
13	2	M	" "	57.61	175	5.04	5.36	378	855	47.12
2				2
198	1	F-P	" "	5.67	4.62

UNGULATES—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Bladder	Uterus
1392											
1393											
1400											
1402	7	F	Lambs.....	52.1	106.5	10.2	8.3	276.7	957	30.49	15
1406											
1425											
1426											
25	2	M	Steinbok.....	8.62	49.5	1.22	1.35	72.2	175	14.87	38
141			<i>Raphicerus campbelli</i>								
58	1	M	Warthog.....	65.32	125	3.6	8.24	325	1500	17.91	3
			<i>Phacochoerus aethiopicus</i>								

UNGULATES—ODD TOED

786	3	F	Thoroughbred foetus..	13.00	183.3	4.18	2.21	111.3	702	9
789	5	F	<i>Equus caballus</i> "	26.47	254.4	13.23	14.89	331.5	902.2	37.14	24
790											
.....	5	M	"	27.30	273.9	12.28	4.66	275.9	699.5	51.48	25
.....	11	F	"	47.68	333.9	17.54	8.10	472.	1634.	42.82	32
.....	15	M	" foetus	38.91	317.3	14.80	6.26	458.2	1266.	45.95	27
.....	19	F	" foal.....	54.32	366.5	16.80	10.38	606.4	1651.	54.80	40

18	M	"	"	52.45	370.1	17.57	9.34	565.	1592.	48.5	34
3	M	"	"	93.89	425.3	15.23	14.43	970.	3386.	56.8	84
4	F	"	"	116.77	470.2	22.6	15.20	1125.	3704.	67.5	8
8	M	"	colts	285.13	582.8	26.55	18.77	1999.	78193.	71.09	76
2	F	"	fillys	380.11	616.	36.9	32.3	2653.	3452.	81.5	11
5	M	"	colts	306.35	602.4	26.81	22.2	2708.	4821.	79.05	97
6	M	"	geldings	443.87	637.6	29.41	32.43	3295.	5257.	95.46	14
3	M	"	colts	433.92	621.4	26.50	27.71	3488.	3931.	89.90	15
7	F	"	fillys	408.5	632.	30.56	38.41	3237.	5350.	98.82	16
4	M	"	geldings	446.55	630.	26.99	33.40	3531.	5193.	96.63	13
5	M	"	stallions	485.31	706.7	32.15	33.03	4688.	5685.	106.34	15
10	F	"	mares	443.36	637.7	29.76	43.5	3663.	6176.	105.0	16
1	M	"	Arabian stallion	461.76	618.	46.80	26.80	3909.	6375.	112.24	14
1	M	"	" "	362.80	573.	34.95	42.17	3275.	4670.	108.08	11
1	F	"	mare	711.4	80.00	24.2	3230.	1184.	3770.	107.8	84
1	M	"	Burro gelding	199.58	392.	13.43	24.2	1184.	3770.	107.8	84
2	M	"	Burro	122.98	478.	4.80	16.64	850.	1953.	84.31	8
707	M	"	Grade Draft	70.76	248.	11.2	7.9	546.	1197.	40.0	24
1	M	"	Grade Pony	184.16	525	10.49	12.98	1175.	2100.	67.47	4
711	M	"	Grade	659.2	1242	10.49	12.98	1175.	2100.	67.47	4
660	F	"	Grade	660	1242	10.49	12.98	1175.	2100.	67.47	4

UNGULATES—ODD TOED—Continued

Catalogue Number	No. of Animals	Sex	Common and Scientific Name	Body Weight in Kilograms	Brain	Thyroid	Adrenal	Heart	Liver	Eyes	
664	1	F	Grade Horse.....	521.64	655.	24.30	52.51	3260.	6920.	105.92	15
1317	1	M	Hackney Pony.....	362.87	504.	29.6	21.2	1427.
.....	10	M	Horses, Panama.....	279	452	10.77	25.75
.....	31	F	" "	262	468	12.77	25.62
.....	21	M&F	" "	230.9	520	35.45	1843	4277	9
.....	3	M	Mules, Panama.....	211	371	8.66	24.6
.....	4	F	<i>Equus asinus</i> " "	291	478	9.75	35.5
.....	1	M	" "	42.64	227	397	1191	2
.....	4	M&F	" "	279.2	42.53	2048	3594	5
792	1	F	Mule.....	249.47	543	11.3	47.	2144.	6301.	10
1297	1	F	"	444.52	543.	18.98	45.1	3604.	5342.	124.0	9
690	1	M	Percheron Stallion.....	635.04	662.	40.84	39.22	5600.	8520.	136.7	17
691	1	F	Percheron Mare.....	771.40	650.	56.55	37.40	4700.	6725.	137.4	17
635	1	F	Polo Pony.....	380.75	692.	52.10	24.23	3570.	4835.	115.92	9
1307	1	F	Pony.....	376.48	604.	20.02	28.00	2607.	5012.	96.5	18
791	1	F	Saddle-bred foetus.....	19.50	226.	7.2	2.6	181.5	913.
1245	1	F	Saddle-bred foal.....	118.8	475.	12.8	10.2	894.	2796.	56.0	7
1296	1	F	" weanling..	181.4	492.	1418.	64.0	..

800	2	M	Sabbie-bred colts.....	300.5	588.	18.43	17.33	1658.	4397.	87.55
1293	2	M	" geldings...	335.68	569.	16.95	20.70	2199.	4616.	84.48
1239										
1305										
1348	1	M	Shetland Pony gelding	242.67	560.	15.25	23.5	2195.	3975.	104.0
803	1	F	Standard bred foetus..	31.75	242.	11.9	6.7	402.	1052.
1240	1	M	Standard bred foal....	92.98	400.	14.6	10.1	971.	2400.	69.0
636	1	F	Hunter(Thoroughbred)	402.65	690.	24.45	47.32	3648.	5220.	112.6
693	1	M	Western gelding.....	426.38	562.	25.59	35.37	3487.	5338.	107.0
8A	1	M	Rhinoceros.....	763	655	53.05	88.0	4800.	14310	22.56
			<i>Rhinocerus bicornis</i>							
	1		Tapir.....	8.60	2.0	74	220
			<i>Tapirella bairdii</i> (Gill)							
	1		" "	14.26	85	3.0	121	483
686	1	M	Zebra.....	29.48	14.77	6.24	330	937	39.5
			<i>Equus quagga granti</i>							
35A	1	M	" "	7.900	125	3.04	1.43	75	275
634	1	F	" "	43.09	412	29.2	9.6	581.8	1275
179A	1	F	" "	56.59	410	10	4.95	515	950
626	1	M	" "	78.02	494.4	48.6	11.5	660.4
20A	2	M	" "	254.99	541	20.08	23.08	1925	4037	94
160A										
162A	1	F-P	" "	297.1	555	17.34	27.8	1970	4400	89
698	1	M	" "	317.5	642	36.0	44.1	2231	6336	103

PROBOSCIDEA AND HYRACOIDEA

148A	1	M	Elephant.....	6654	5712	860	940	26080	107670	116.15
			<i>Loxodonta africana</i>							
			<i>knochenhaueri</i>							
	1	F	Elephant, Pygmy.....	84
			<i>Loxodonta cyclotis</i>							
149A	1	M	Hyrax.....	.750	12.27	.081	.161	3.63	31.53
			<i>Heterohyrax brucei</i>							