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THE

THIRTIETH ANNUAL REPORT

OF THE

BOARD OF DIRECTORS

OF THE

ZOOLOGICAL SOCIETY

OF PHILADELPHIA.

(INCORPORATED MARCH 21ST, 1859.)



READ AT THE ANNUAL MEETING OF THE MEMBERS AND LOAN-HOLDERS OF THE SOCIETY.

APRIL 24th, 1902.



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PRINTING HOUSE OF ALLEN, LANE & SCOTT,

1211-1213 Clover Street,

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THE
ZOOLOGICAL SOCIETY OF PHILADELPHIA.

OFFICE, THIRTY-FOURTH STREET AND GIRARD AVENUE,
FAIRMOUNT PARK.

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ROBERT D. CARSON.

MAY 24 1902

REPORT
OF THE
BOARD OF DIRECTORS.

PHILADELPHIA, April 24th, 1902.

The Board of Directors of the Zoological Society of Philadelphia submits to the members and loanholders its thirtieth annual report for the year ending February 28th, 1902.

GENERAL AFFAIRS AND FINANCES.

The number of members at the close of the year was:—

Annual members	287
Life members	1,265
Corresponding members	8
Honorary members	16
Perpetual members	259
Junior members	40
Total members	<u>1,875</u>

The slight decrease in the admissions is much more than accounted for by a singular prevalence of bad weather on days when the Gardens should have been largely visited. Between April 1st and November 1st there was rain upon fourteen Saturdays and Sundays, while upon seven more the weather was such as to materially affect the receipts.

It has been observed with satisfaction, that in the use of the tickets issued to the Public Schools, there has been a marked increase in the practice of sending children in parties of considerable size, accompanied by one or more teachers. The educational advantage to the scholar, of the intelligent instruction received under this system, is so great, that its growth is to be regarded as a distinct gain.

During the year the Board has lost two members by death, Dr. Francis W. Lewis and Mr. David W. Sellers,

who were elected respectively in 1888 and 1892. To each of these gentlemen, many years of previous interest had brought complete familiarity with the objects for which the Society exists, and the loss is indeed severe which deprives the Society of their counsel and their efforts.

The following is a report in detail of the admissions and receipts for the year :—

Adults (paying at gates)	122,827
Children (paying at gates)	38,818
Members (including Life and Annual Members, loanholders' annual, and complimentary annual tickets)	2,261
Loanholders' single tickets	11,772
Free admissions (charitable institutions, donors' tickets, &c.)*	4,252
Coupon tickets	446
Excursion tickets	8,153
	188,529

Monthly Record of Visitors for 1901-1902, with corresponding account for 1900-1901.

MONTH.	1900-1901.	1901-1902.	COMPARISON.
March	8,379	8,887	Increase . . 508
April	18,863	14,085	Decrease . . 4,778
May	24,245	23,549	" . . 696
June	24,170	21,848	" . . 2,322
July	20,700	17,793	" . . 2,907
August	27,192	30,985	Increase . . 3,793
September	24,443	29,619	" . . 5,176
October	14,845	19,087	" . . 4,242
November	9,884	9,859	Decrease . . 25
December	8,334	5,631	" . . 2,703
January	5,001	4,467	" . . 534
February	5,850	2,719	" . . 3,131
	191,906	188,529	Decrease . . 3,377

* In addition to these, 125,000 tickets were issued to the Board of Education, for the admission of pupils of the Public Schools.

Average daily admissions 711
 The greatest number of visitors on any one day was
 on Thursday, May 30th 5,396

*Monthly Record of Receipts from Admissions for 1901-1902,
 with corresponding account for 1900-1901.*

MONTH.	1900-1901.	1901-1902.	COMPARISON.	
March . . .	\$1,268 70	\$1,366 32	Increase .	\$97 62
April . . .	3,004 81	2,138 54	Decrease .	866 27
May . . .	3,278 94	3,056 26	" .	222 68
June . . .	3,147 66	2,861 52	" .	286 14
July . . .	2,869 14	2,370 34	" .	498 80
August . . .	3,527 47	3,909 02	Increase .	381 55
September,	2,979 78	3,843 53	" .	863 75
October . . .	2,034 14	2,745 99	" .	711 85
November,	1,359 99	1,360 06	" .	07
December . .	1,166 59	835 95	Decrease .	330 64
January . . .	715 81	692 85	" .	22 96
February . .	743 61	437 00	" .	306 61
	\$26,096 64	\$25,617 38	Decrease .	\$479 26

Average daily receipts from admissions \$96 67
 The largest amount of receipts at the gates on any
 one day was on Sunday, April 28th 586 87

*Total Receipts on the several days of the week, and their respective
 averages for 1901-1902.*

RANK.	DAYS.	TOTAL RECEIPTS.	AVERAGE.
1	Sunday	\$9,493 63	\$182 57
2	Saturday	6,301 35	121 18
3	Thursday	2,678 20	51 50
4	Wednesday	1,936 13	37 23
5	Monday	1,777 44	34 18
6	Tuesday	1,747 60	33 61
7	Friday	1,683 03	31 76
		\$25,617 38	

THE GARDENS.

The whole number of specimens exhibited during the year was:—

Mammals	576
Birds	957
Reptiles	1,450
Batrachians	124
	3,107

An unusual number of species were new to the collection; these were as follows:—

MAMMALIA.

PRIMATES.

1. *Hylobates lar* (L.) White-handed gibbon.
Hab., Malay Peninsula.
One male, purchased June 20th. It is well known that these delicate apes do not long survive captivity, and this specimen died on August 22d.
2. *Ateles paniscus* (L.) Red-faced spider monkey.
Hab., Guiana.
One specimen. Purchased.
3. *Cebus azaræ* Reng. Azara's cebus.
Hab., Paraguay.
One specimen of this rare monkey, brought from Asuncion, Paraguay, by Dr. Flagg of Philadelphia, was received on July 3d.

CARNIVORA.

4. *Felis nebulosa* Griffith. Clouded leopard.
Hab., southeastern Asia, Borneo.
A male of this beautiful species was purchased June 20th. Few of the large cats are less often seen in captivity than this.
5. *Putorius nigripes* Aud. & Bach. Black-footed ferret.
Hab., western United States.

This species, although ranging from Texas to Montana, has been very little known until recent years. A female was received on April 27th from Seymour, Baylor County, Texas.

INSECTIVORA.

6. *Erinaceus algirus* Duv. & Lereb. Algerian hedgehog.
Hab., northwest Africa.

A hedgehog purchased January 8th, which reached New York on a transport returning from the Philippines, appears to belong to this species.

RODENTIA.

7. *Tamias pricei* Allen. Price's chipmunk.
Hab., California.

Three specimens from Santa Cruz County. Purchased.

8. *Spermophilus spilosoma* Benn. Spotted spermophile.
Hab., Texas to Arizona.

An adult female and three young; received from Pecos, Texas, July 12th.

9. *Peromyscus texensis* (Woodh.) Texas white-footed mouse.
Hab., western Texas.

One specimen from Pecos. Purchased.

10. *Lepus arizonæ* Allen. Sage hare.

Hab., southwestern United States.

Seven specimens received from Pecos in January and March appear to belong to the form described as *L. a. minor* (Mearns).

UNGULATA.

11. *Oreamnus montanus* (Ord) Rocky Mountain goat.
Hab., Idaho to Alaska.

On October 1st the Society was fortunate enough to secure a young male of this interesting species, which has never previously been exhibited in a living state in this country. This specimen was born about the middle of May last, and was several

weeks old at the time of its capture, near Field, British Columbia. It was secured for the Society through the interest of Mr. George Vaux, of Philadelphia, and his sons, and reached the Gardens on October 1st in perfect condition. In December an agreement was entered into by which some animals were loaned by the Zoological Society to the International Forest, Fish and Game Association, for the purpose of their annual exposition, in return for which certain animals were received by the Society as a gift. Among these was a female goat from Idaho. The presence of a pair of these rare animals in the Gardens is an event of unusual interest.

MARSUPIALIA.

12. *Dasyurus maculatus* (Kerr). Spotted-tailed dasyure.
Hab., Australia and Tasmania.
One specimen. Purchased.

AVES.

PASSERES.

13. *Cittocincla tricolor* (Vieill.) Indian shama.
Hab., India and Java.
One specimen of this thrush-like bird. Purchased.
14. *Daulias lusciniæ* (L.) Western nightingale.
Hab., western Europe.
Two specimens. Purchased.
15. *Ruticilla phœnicurus* (L.) Redstart.
Hab., Europe.
One specimen. Purchased.
16. *Campylorhynchus brunneicapillus* (Lafr.) Cactus wren.
Hab., Texas and Mexico.
Two from Pecos, Texas. Purchased.
17. *Chloropsis aurifrons* (Temm.) Malabar green bulbul.
Hab., India.
One specimen. Purchased.

18. *Chibia hottentota* (L.) Indian drongo.
Hab., India to China.
One specimen. Purchased.
19. *Geothlypis formosa* (Wilson.) Kentucky warbler.
Hab., eastern United States.
One, presented September 13th by Mr. A. P. Willets,
Jackson County, North Carolina.
20. *Lanius ludovicianus* L. White-rumped shrike.
Hab., western North America.
Two specimens from Seymour, Texas, received July
24th, appear to belong to the western form of this
species—*excubitorides* (Swain.)
21. *Euphonia violacea* (L.) Violet tanager.
Hab., South America.
Six specimens. Purchased.
22. *Tanagrella cyanomelæna* (Max.) Black and blue tan-
ager.
Hab., Brazil.
Three specimens. Purchased.
23. *Calliste fastuosa* (Less.) Superb tanager.
Hab., Pernambuco.
One specimen of this exquisite species. Purchased
September 27th.
24. *Estrela ruficauda* (Gould) Red-tailed finch.
Hab., Australia.
Two specimens. Purchased.
25. *Ploceus baya* Blyth. Common Indian weaver.
Hab., India and Ceylon,
Two specimens. Purchased.
26. *Pyrrhula pyrrhula* (L.) Larger bulfinch.
Hab., northern Europe and Asia.
Two specimens. Purchased.
27. *Calamospiza bicolor* (Townsend.) Lark bunting.
Hab., western United States.
Eight specimens from Pecos, Texas. Purchased.
28. *Icterus wagleri* Scater. Wagler's oriole.
Hab., southern Mexico.
Two specimens. Purchased.

29. *Melanocorypha yeltonensis* (Forst.) Black lark.
 Hab., central Asia.
 Two specimens. Purchased.

PICARIE.

30. *Buceros rhinoceros* L. Rhinoceros hornbill.
 Hab., Malacca to Borneo.
 One male. Purchased July 12th.
31. *Pteroglossus torquatus* (Gm.) Banded toucan.
 Hab., Central America.
 One specimen. Purchased.

PSITTACI.

32. *Pionus sordidus* (L.) Sordid parrot.
 Hab., Venezuela.
 Two specimens. Purchased.
33. *Pæocephalus senegalus* (L.) Senegal parrot.
 Hab., west Africa.
 Two specimens. Purchased.
34. *Tanygnathus megalorhynchus* (Bodd.) Great-billed parakeet.
 Hab., New Guinea.
 One specimen. Purchased.
35. *Loriculus galgulus* (L.) Blue-crowned hanging parakeet.
 Hab., Malacca to Borneo.
 One specimen. Purchased.

ACCIPITRES.

36. *Archibuteo ferrugineus* (Licht.) Tawny rough-legged buzzard.
 Hab., western United States.
 The first example of this fine hawk which the Society has ever received, was presented on May 21st by Mr. E. Meyenberg, of Pecos, Texas. A second specimen from the same locality was purchased in January, 1902.

37. *Falco fusco-cærulescens* Vieill. Aplomado falcon.
 Hab., Texas to South America.
 This beautiful species is represented by a pair received
 June 4th from Pecos.

COLUMBÆ.

38. *Œna capensis* (L.) Cape dove.
 Hab., Africa.
 Two specimens. Purchased.

HEMIPODII.

39. *Turnix nigricollis* (Gm.) Black-necked hemipode.
 Hab., Madagascar.
 Two specimens. Purchased.

LIMICOLÆ.

40. *Totanus solitarius* (Wilson.) Solitary sandpiper.
 Hab., North America.
 One specimen, presented by Master James Mullin.

ANSERES.

41. *Spatula clypeata* (L.) Shoveler duck.
 Hab., Northern Hemisphere.

STRUTHIONES.

42. *Casuaris australis* Wall. Australian cassowary.
 Hab., Australia.
 One specimen. Purchased June 20th.

REPTILIA.

CHELONIA.

43. *Chrysemys rugosa* (Shaw.) West Indian terrapin.
 Hab., West Indies.
 One specimen from Cuba. Purchased.
44. *Damonia reevesi* Gray. Reeves' terrapin.
 Hab., China.
 Four specimens. Purchased.

45. *Testudo elegans* Schoep. Elegant tortoise.
 Hab., India and Ceylon.
 Three specimens. Purchased.
46. *Emyda granosa* (Schoep.) Bungoma turtle.
 Hab., India.
 Four examples of this curious soft-shelled turtle were presented November 26th by Mr. Carl Hagenbeck.
47. *Sternotherus nigricans* (Donnd.) Blackish terrapin.
 Hab., Madagascar.
 Two specimens. Purchased February 27th. They were accompanied by two examples of *S. derbianus*, a closely allied species from western Africa.

LACERTILIA.

48. *Cyclura carinata* Harl. Harlan's iguana.
 Hab., Bahamas.
 Two specimens of this little-known iguana were found in a box floating in the Delaware River and were presented by Mrs. Josephine O'Drain on July 4th.
49. *Holbrookia texana* (Trosch.) Texas spotted lizard.
 Hab., Texas and Mexico.
 One specimen from Pecos, purchased June 18th, and a second from Seymour, Texas, also purchased.
50. *Uta stansburiana* B. & G. Stansbury's uta lizard.
 Hab., western United States.
 Several specimens. Presented by Mr. E. Meyenberg, Pecos, Texas.
51. *Uta ornata* B. & G. Ornate uta lizard.
 Hab., southwestern United States.
 Four specimens from Pecos. Purchased.
52. *Sceloporus consobrinus* B. & G. Marcy's wave-lined lizard.
 Hab., southwestern United States.
 Four specimens from Pecos. Presented by Mr. E. Meyenberg.

53. *Sceloporus occidentalis* B. & G. Occidental wave-lined lizard.

Hab., California.

Nine specimens of this lizard were received from Oakland, Cal., on October 5th. Alcoholic specimens are hardly distinguishable from the common species of the eastern States (*S. undulatus*), but in life the color characters are enough to mark them at a glance.

54. *Sceloporus torquatus poinsetti* B. & G. Poinsett's scaly lizard.

Hab., southwestern United States.

Four specimens from Pecos. Presented by Mr. E. Meyenberg, and a number of others purchased.

55. *Phrynosoma douglassi* (Bell.) Douglass' horned lizard.

Hab., western United States.

A specimen of the form of this lizard known as *P. d. hernandezii* (Girard) was collected by Dr. Henry Skinner, of the Academy of Natural Sciences, at Tapello, New Mexico, at an altitude of ten thousand feet. At the same locality Dr. Skinner procured a smooth green snake (*Liopeltis vernalis*).

Another horned lizard, received from an unknown locality in the West, presents the characters assigned to the subspecies *P. d. ornatissimum* (Girard).

56. *Phrynosoma blainvillei* Gray. Blainville's horned lizard.

Hab., southern California.

Six specimens. Purchased June 1st.

It is interesting to remark that it is this species which has been credited with the habit of voluntarily ejecting blood from the vessels of the eye. While this curious performance has not been actually witnessed among those exhibited in the collection, a small jet of blood has on several occasions been observed on the wire back of their cage and on the tiled wall behind it, which had evidently proceeded in some manner from the lizards.

57. *Phrynosoma modestum* Girard. Least horned lizard.
 Hab., southwestern United States and Mexico.
 Three specimens from Pecos. Presented by Mr. E. Meyenberg. The large number of these lizards which were received later in the season is sufficient evidence of the abundance of this species in western Texas.
58. *Gerrhonotus multicarinatus* Blain. Many-keeled lizard.
 Hab., Pacific coast of United States.
 One specimen from Oakland, Cal. Purchased.
59. *Cnemidophorus tessellatus* (Say.) Tesselated lizard.
 Hab., Texas and Mexico.
 Ten specimens from Pecos. Purchased.
60. *Cnemidophorus gularis* B. & G. Rio Grande six-lined lizard.
 Hab., southwestern Texas.
 One from Pecos. Presented by Mr. E. Meyenberg. The relation of this and the preceding species to others of their genus is not yet fully known, and the present identification is only provisional.
61. *Eumeces obsoletus* B. & G. Sonoran skink.
 Hab., southwestern United States and Mexico.
 Two specimens from Pecos. Presented by Mr. E. Meyenberg.

- OPHIDIA.

62. *Charina bottæ* (Blain.) Botta's snake.
 Hab., Oregon to Lower California.
 One example of this curious little snake, allied to the boas, was received on October 5th from Oakland, Cal. It is doubtful if the species has ever before been exhibited in a zoological garden.
63. *Eutænia eques* (Reuss.) Spotted-necked garter snake.
 Hab., southwestern United States and Mexico.
 Seven specimens of this snake, which has commonly been known as *Eutænia cyrtopsis* (Kenn.) and which is rare in collections, were received during

the Summer, all having been collected south of Pecos, Texas.

64. *Eutænia elegans elegans* B. & G. Elegant garter snake.
Hab., Oregon to California.
Six small specimens from Oakland. Purchased.
65. *Salvadora grahami* (B. & G.) Graham's leaf-nosed snake.
Hab., southwestern United States.
One specimen from an unknown locality. Purchased April 16th from a dealer, and a second received from Pecos September 6th.
66. *Zamenis lateralis* (Hallow.) Side-striped whip snake.
Hab., Arizona and California.
Two young specimens, received from Oakland.
67. *Coluber obsoletus confinis* (B. & G.) Spotted mountain black snake.
Hab., southern United States.
Two specimens of this somewhat rare snake were received July 22d from Georgia.
68. *Coluber subocularis** A. E. Brown. H-spotted snake.
Hab., the Davis Mountains, Texas.
The discovery of an undescribed snake of some size within the limits of the United States was hardly to be expected at this day. Four specimens, however, the largest measuring rather more than five feet, were received during the Summer from Mr. Meyenberg, a collector of the Society at Pecos, Texas, which had been procured in the Davis Mountains, about fifty miles south of Pecos, and differed in important characters from any species previously known. They were described by the Secretary under the above name.
69. *Pityophis catenifer catenifer* (Blain.) California pine snake.
Hab., California to Oregon.
One small specimen from Oakland. Purchased.

* Proceedings Academy Natural Sciences of Philadelphia, 1901, page 492, pl. XXIX.

70. *Ophibolus alternus** (A. E. Brown.) Alternating king snake.

Hab., the Davis Mountains, Texas.

From the same locality and collector which yielded the specimens of *Coluber subocularis* referred to above, a new king snake was received on October 22d. The specific name *alternus* which is applied to it has reference to the peculiarity of its color pattern, the gray ground color of the body being crossed on the back by bands of black two or three scales wide, and transversely marked on their centres with red, which alternate with other bands half their width and entirely black.

71. *Diadophis amabilis* B. & G. Pacific ring-necked snake.

Hab., southwestern United States and Sonora.

One specimen from California. Purchased.

Among other accessions, a few of special interest may be noted: Three scarlet king snakes, dug out of an Indian mound in Florida and presented by Mr. Clarence B. Moore on March 3d. Several examples of one of the burrowing ground boas (*Eryx johni*) from India; a fine female serval, and a specimen of the black-footed raccoon (*Procyon hernandezii*) from western Texas. A second example of the western raccoon was presented on November 7th by Mrs. Julia Stockton Robins. In May a regal-horned lizard was presented by Miss Mary K. Baker, of Philadelphia, and a pair of Zebu cattle, of a large breed, presented by Mrs. John Wanamaker.

On May 18th a number of burrowing owls were received from Seymour, Texas, and have remained in much better condition than any previously in the collection.

A fine male binturong was purchased on June 20th to complete a pair. On June 11th a male deer of the Sambur type, but of unknown species, was received from the New

* Proceedings Academy Natural Sciences of Philadelphia, 1901, page 612, pl. XXXIV.

York Zoological Society in exchange. This animal was formerly in the collection of the Duke of Bedford, but the locality from which it originally came is unknown.

The Hon. Henry Burk, of Philadelphia, presented to the Society on July 30th a fine young female leopard, which he had procured direct from India.

Four mud turtles received from Pecos, Texas, in September, are referred to *Cinosternum henrici* with some hesitation, as the relations of the western mud turtles to each other and to the eastern species are not yet fully made out.

A fine pair of young griffon vultures were purchased in November to replace those which had lived more than twenty years in the Gardens. A male red deer, five prong-horned antelopes and other animals were received from the International Forest, Fish and Game Association in exchange for certain specimens loaned to them.

The following list contains all the animals bred during the year, with the dates of breeding:—

- 1 black-backed jackal (*Canis mesomelas*), March 11th.
- 7 gray wolves (*Canis lupus mexicanus*), March 18th.
- 7 prairie wolves (*Canis latrans*), April 11th and 17th.
- 1 brown bear (*Ursus arctos*), July 25th.
- 2 tigers (*Felis tigris*), September 19th.
- 1 prairie dog (*Cynomys ludovicianus*), June.
- 3 white-throated wood rats (*Neotoma albigula*), March 22d,
April 2d.
- 1 Chapman's zebra (*Equus burchelli*), ♀, December 17th.
- 3 Indian antelopes (*Antilope cervicapra*), 1♂, 2♀, June 10th,
December 11th, February 24th.
- 2 nyulghaie (*Boselaphus tragocamelus*), 2♀, March 19th.
- 3 fallow deer (*Cervus dama*), 3♀, June 15th and 23d,
July 9th.
- 2 axis deer (*Cervus axis*), 2♀, April 1st, February 7th.
- 6 hog deer (*Cervus porcinus*), 2♂, 4♀, March, June, Sep-
tember, October.
- 2 Virginia deer (*Mazama americana*), 1♂, 1♀, May 18th,
June 10th.

- 2 wapiti (*Cervus canadensis*), 2♂, June 22d, July 1st.
 1 red deer (*Cervus elaphus*), ♂, May 30th.
 3 American bison (*Bison bison*), 2♂, 1♀, May 3d and 21st,
 June 6th.
 1 six-banded armadillo (*Dasypus sexcinctus*), ♂, May 10th.
 3 robust kangaroos (*Macropus robustus*), August 22d, Octo-
 ber 7th, January 27th.
 1 vulpine phalanger (*Trichosurus vulpecula*), March 5th.
 2 grass parakeets (*Melopsittacus undulatus*), October 24th.
 1 jungle fowl (*Gallus bankiva*), May 17th.
 13 golden pheasants (*Chrysolophus pictus*), May 19th, June
 24th.
 1 Amherst pheasant (*C. amherstiae*), June 24th.
 33 common garter snakes (*Eutecnia sirtalis*), July 6th, Au-
 gust 7th and 15th.
 14 common water snakes (*Tropidonotus sipidon*), September
 17th.
 8 Woodhouse's water snakes (*T. s. transversus*), September
 16th.
 10 Cyclops water snakes (*T. cyclopeum*), August 1st.
 1 coach whip snake (*Zamenis flagellum*), April 12th.
 2 copperheads (*Ancistrodon contortrix*), September 20th.
 13 Poinsett's scaly lizards (*Sceloporus poinsetti*), June 25th.

The variability of the breeding period induced by captivity in many animals, is shown in this list by the European brown bear, which normally breeds early in the spring or late in the winter. The pair in the Gardens produced this year as late as July 25th; last year the same female bred on January 16th, and in 1899 on January 19th.

The axis deer of India also breeds indiscriminately in April and February.

The birth of a six-banded armadillo in captivity is unusual, and important observations upon the placenta of this species were made by Dr. H. C. Chapman.*

* Proceedings Academy Natural Sciences of Philadelphia, 1901, page 366, pl. XVIII.

The deaths were not numerous, but included the last of a pair of griffon vultures, purchased September 12th, 1878; the grizzly bear "Rose," which was received from Utah January 7th, 1874; a male American bison, and a male lion.

Numerous efforts have been made by the Board in past years to secure systematic and competent study of the pathological material furnished by animals dying in the Gardens; a field of observation strangely neglected in this age of investigation. For various reasons these attempts have been heretofore futile in results. During the autumn of 1901, Dr. Charles B. Penrose, with the assistance of Dr. C. Y. White, became interested in the work, and the studies which are now being made by these investigators seem to promise results of great value, not only in promoting the knowledge of disease, but also in the practical application of the morbid conditions noted, to the care of animals kept in captivity.

The old wolf and fox pens having become insecure, were torn down early in the summer and were rebuilt on the same site, but were extended eighteen feet at the southern end. The new structure of handsome design, and constructed of stone and iron, is one hundred and fifteen feet long and twenty-four and one-half feet deep, and contains fourteen pens, suited to hardy members of the dog tribe. The cost of this improvement was \$2763, of which \$2500 was provided by the city appropriation for work of permanent character.

With the object of providing the best facilities possible for keeping up the Society's herd of American buffalo, a space of ground some two and a half acres in extent, lying between the lake and the eastern boundary line, has been inclosed with Page wire fencing, and a pair of young buffalo, both bred in the Gardens, but not at all related, have been placed there. The produce of this pair, bred hereafter, with blood from some foreign source, will introduce a new and distinct strain into the Gardens, thereby assisting to the

best of our capacity the efforts to postpone for a few more years the inevitable end of this noble species.

The thanks of the Board are due to those who have made gifts to the Society during the year.

By order of the Board,

ARTHUR ERWIN BROWN,

Secretary.

INCOME AND EXPENDITURES.

For fiscal year ending March 1st, 1902.

INCOME.

Members' fees and dues	\$985 00	
Admission receipts	25,617 38	
Donations	160 00	
Rents at Garden	250 00	
Interest, discount, &c.	733 82	
Sundry receipts	1,573 66	
Sale of guide books	59 10	
Sales of animals	1,409 75	
Received from the city of Philadelphia through the Commissioners of Fairmount Park	17,500 00	
		<u>\$48,288 71</u>

EXPENDITURES.

(Exclusive of Permanent Improvements, &c.)

Salaries and wages	\$20,508 17	
Office expenses	272 44	
General expenses	21,207 28	
Purchase of animals	6,118 49	
		<u>\$48,106 38</u>
Balance to credit of profit and loss	182 33	
		<u>\$48,288 71</u>

CAPITAL.

For fiscal year ending March 1st, 1902.

RECEIPTS.

Life memberships	\$200 00	
Received from the city of Philadelphia through the Commissioners of Fairmount Park	2,500 00	
		<u>\$2,700 00</u>

EXPENDITURES.

New fox and wolf pens	\$2,763 00	
Enclosure for buffalo	342 25	
		<u>\$3,105 25</u>
Balance (being excess of expenditures over receipts of capital, and provided from profit and loss)	405 25	
		<u>\$2,700 00</u>

HENRY T. COATES,

Examined and found correct.

Treasurer.

CHRISTIAN C. FEBIGER,

THOMAS BIDDLE,

Committee on Audit.

LIST OF ADDITIONS TO THE MENAGERIE DURING THE YEAR
ENDING FEBRUARY 28TH, 1902.

1901.

- March 1. 4 southern gray squirrels (*Sciurus carolinensis carolinensis*) purchased.
- “ 2. 1 gray fox (*Canis cinereo-argentatus*) presented by Dr. W. H. Ziegler, Philadelphia.
- “ 3. 1 black snake (*Bascanium constrictor*), 3 scarlet king snakes (*Ophibolus doliatus coccineus*) and 3 scarlet snakes (*Cemophora coccinea*) presented by Clarence B. Moore, Philadelphia.
- “ 4. 1 mockingbird (*Mimus polyglottus*) presented by George Hickman, Philadelphia. 2 Arizona sage hares (*Lepus arizonæ*) purchased.
- “ 5. 1 vulpine phalanger (*Trichosurus vulpecula vulpecula*) born in the Gardens. 1 grand galago (*Galago crassicaudata*) ♂ purchased.
- “ 11. 1 red-bellied squirrel (*Sciurus aureogaster*) purchased.
- “ 13. 1 citron-crested cockatoo (*Cacatua citrinocristata*), 1 Indian eryx (*Eryx johni*) purchased.
- “ 14. 1 gray ichneumon (*Herpestes mungo*) presented by H. J. Cornell, U. S. S. “Ajax.”
- “ 15. 1 serval (*Felis serval*), 2 ring-tailed bassaris (*Bassariscus astutus*), 1 red-faced spider monkey (*Ateles paniscus*), 1 black-handed spider monkey (*A. geoffroyi*) purchased.
- “ 16. 1 tamarin marmoset (*Midas ursulus*) purchased. 2 alligators (*A. mississippiensis*) presented by Otto C. Feil, Philadelphia.
- “ 18. 7 gray wolves (*Canis lupus mexicanus*) born in the Gardens.
- “ 19. 2 nylghaies (*Boselaphus tragocamelus*) ♀ ♀ born in the Gardens.
- “ 20. 1 brant goose (*Branta bernicla*) presented by Dr. Daniel Karsner, Germantown, Philadelphia.
- “ 21. 2 alligators (*A. mississippiensis*) presented by J. C. Wilson, Philadelphia.
- “ 22. 1 scarlet snake (*Cemophora coccinea*) presented by Clarence B. Moore, Philadelphia. 8 DeKay's snakes (*Storeria dekayi*), 17 common garter snakes (*Eutaenia sirtalis sirtalis*), 3 common water snakes (*Tropidonotus sipedon sipedon*) purchased. 1 white-throated wood rat (*Neotoma albigula*) born in the Gardens.
- “ 27. 8 garter snakes (*E. sirtalis sirtalis*), 1 water snake (*T. sipedon sipedon*), 18 brown salamanders (*Plethodon cinereus cinereus*), 5 red salamanders (*Spelerpes rubra*) and 7 scaled quail (*Callipepla squamata*) purchased.
- “ 29. 1 gray fox (*Canis cinereo argentatus*) purchased.
- “ 31. 1 alligator (*A. mississippiensis*) presented by Master Frederick Miller, Philadelphia.
- April 3. 1 American beaver (*Castor fiber canadensis*) purchased.
- “ 5. 2 brown salamanders (*Plethodon cinereus cinereus*) presented by Alois Fahm, Philadelphia.
- “ 6. 2 black larks (*Melanocorypha yeltonensis*) purchased. 1 gray squirrel (*Sciurus carolinensis pennsylvanicus*) presented by Mary Y. Graham, Philadelphia. 1 tayra (*Galictis barbara*) purchased.
- “ 8. 5 burrowing owls (*Speotyto cunicularia hypugæa*), 7 undulated grass parrakeets (*Melopsittacus undulatus*), 6 crested ground parrakeets

- (*Calopssitta novæ-hollandiæ*), 1 red-headed cardinal (*Paroaria larvata*), 1 cardinal red bird (*Cardinalis cardinalis*), 1 goldfinch (*Carduelis carduelis*), 2 siskin finches (*Chrysomitris spinus*), 2 Java sparrows (*Munia oryzivora*), 2 skylarks (*Alauda arvensis*) 1 greenfinch (*Chloris chloris*), 1 song thrush (*Turdus musicus*), 1 saffron finch (*Sycalis flaveola*) purchased.
- April 10. 1 pig-tailed macaque (*Macacus nemestrinus*), 1 American otter (*Lutra canadensis*), 1 jackdaw (*Corvus monedula*), 3 Egyptian monitors (*Varanus niloticus*), 8 common iguanas (*Iguana tuberculata*), 2 spotted salamanders (*Amblystoma punctata*) purchased.
- “ 11. 2 common macaques (*Macacus cynomolgus*), 1 white-throated cebus (*Cebus hypoleucus*), 2 ruffled lemurs (*Lemur varius*) purchased. 2 prairie wolves (*Canis latrans*) born in the Gardens.
- “ 13. 1 woodcock (*Philopela minor*) presented by Messrs. Cugley and Mullen, Philadelphia. 1 brown thrush (*Harporhynchus rufus*) presented by Mrs. R. Leeper, Philadelphia. 2 greater bullfinches (*Pyrrhula pyrrhula*), 2 gray-headed lovebirds (*Agapornis canus*) purchased. 4 brown salamanders (*Plethodon cinereus cinereus*) presented.
- “ 16. 2 whip snakes (*Bascanium flagellum*), 2 Lindheimer's snakes (*Coleber obsoletus lindheimeri*), 1 Say's bull snake (*Pityophis catenifer sayi*), 2 Graham's water snakes (*T. grahami*), 3 Holbrook's water snakes (*T. rhombifer*), 1 Graham's leaf-nosed snake (*Salvadora grahami*) purchased.
- “ 17. 5 prairie wolves (*Canis latrans*) born in the Gardens.
- “ 18. 1 keeled green snake (*Cyclophis æstivus*) presented.
- “ 19. 1 alligator (*A. mississippiensis*) presented by Mrs. Ollie Smith, Philadelphia. 1 pine snake (*Pityophis melanoleucus*) presented by the Academy of Natural Sciences, Philadelphia.
- “ 20. 1 DeKay's snake (*Storeria dekayi*) presented by James Baxter, Philadelphia.
- “ 22. 1 alligator (*A. mississippiensis*) presented by Mrs. Charles Carver, Philadelphia.
- “ 23. 1 lion-tailed macaque (*Macacus silenus*) ♂, 2 entellus monkeys (*Semnopithecus entellus*) ♀ ♀, 1 white-throated monkey (*Cercopithecus albigularis*) ♀, 2 Cape doves (*Ena capensis*), 2 goldfinches (*Carduelis carduelis*), 12 European tree toads (*Hyla arborea*) purchased.
- “ 24. 1 vervet monkey (*Cercopithecus pygerythrus*) ♂, 1 green monkey (*C. callitrichus*) ♂, 1 mona monkey (*C. mona*) ♂, 2 toque monkeys (*Macacus pileatus*) ♂ and ♀, 1 American white pelican (*Pelecanus erythrorhynchus*) purchased.
- “ 25. 1 ring-tailed lemur (*Lemur catta*) ♂, 1 paradoxure (*Paradoxurus hermaphroditus*), 1 North African jackal (*Canis anthus*) ♀, 1 spotted-tailed dasyure (*Dasyurus maculatus*) ♂, 2 shoveler ducks (*Spatula clypeata*) ♂ and ♀, 1 Summer duck (*Aix sponsa*) purchased.
- “ 26. 2 common garter snakes (*E. sirtalis sirtalis*) presented by John Kreutzer, Philadelphia. 14 brown salamanders (*P. cinereus cinereus*) presented by Harry Rably, Philadelphia.
- “ 27. 1 black-footed ferret (*Putorius nigripes*) ♀ purchased. 1 mocking

- bird (*Mimus polyglottus*) presented by Mrs. L. Viola, Philadelphia.
- April 28. 2 purple gallinules (*Ionornis martinica*) purchased.
- “ 29. 1 alligator (*A. mississippiensis*) presented by T. A. Jones, Philadelphia.
- “ 30. 1 western diamond rattlesnake (*Crotalus atrox atrox*), 1 Marcy's garter snake (*E. elegans marciiana*), 1 western sand snake (*Heterodon nasieus*), 1 kangaroo rat (*Dipodomys ambigius*) purchased.
- May 1. 1 blue and yellow macaw (*Ara ararauna*) presented by Mrs. Mary McNulty, Bristol, Pa. 1 blue and yellow macaw (*A. ararauna*) presented by Mrs. John Haug, Philadelphia. 1 cinereus waxbill (*Lazonosticta caeruleus*), 2 black snakes (*B. constrictor*), 1 king snake (*Ophibolus getulus getulus*), 1 corn snake (*Coluber guttatus*), 3 garter snakes (*E. sirtalis sirtalis*), 10 hog-nosed snakes (*H. platyrhinos*), 1 long-nosed sand snake (*H. simus*), 5 green lizards (*Anolis principalis*) purchased.
- “ 2. 2 spotted nunia finches (*Munia punctulata*), 1 chestnut-breasted finch (*M. castaneothorax*), 1 ultramarine weaver (*Hypochera ultramarina*), 4 indigo buntings (*Passerina cyanea*), 1 orange-cheeked finch (*Sporæginthus melpoda*) purchased. 1 black scoter (*Edeamia americana*) presented.
- “ 3. 1 American bison (*Bison bison*) ♂ born in the Gardens.
- “ 4. 1 blue-fronted amazon (*Chrysotis æstiva*) presented by John J. Conway, Philadelphia. 2 alligators (*A. mississippiensis*) presented by Dr. E. R. Stone, Philadelphia. 1 western diamond rattlesnake (*C. atrox atrox*), 2 whip snakes (*B. flagellum*), 1 Emory's snake (*C. emoryi*) purchased.
- “ 5. 3 alligators (*A. mississippiensis*) presented by Sidney Lemisch, Philadelphia.
- “ 6. 1 great-horned owl (*Bubo virginianus*) presented by W. B. Crawford, Philadelphia. 8 lark buntings (*Calamospiza bicolor*) purchased. 1 American robin (*Turdus migratorius*) presented by Mrs. E. Lewis, Philadelphia. 1 golden eagle (*Aquila chrysaetos*) presented by A. Raymond Raff, Philadelphia.
- “ 7. 3 European magpies (*Pica pica*), 3 crimson-eared waxbills (*Estrilda phœnicotis*) purchased.
- “ 8. 1 Le Conte's snake (*Rhinochilus lecontei*), 1 western diamond rattlesnake (*C. atrox atrox*), 1 Marcy's garter snake (*E. elegans marciiana*), 1 Say's pine snake (*P. melanoleucus*), 1 whip snake (*B. flagellum*), 2 horned lizards (*P. cornuta*) purchased.
- “ 10. 1 six-banded armadillo (*Dasyypus sexcinctus*) born in the Gardens. 1 Gila monster (*Heterodermis suspectum*) presented by George F. Hensel, Haverford, Pa. 1 regal horned lizard (*P. regale*) presented by Miss Mary K. Baker, Philadelphia. 1 box tortoise (*Terrapine carolina*) presented by Master Walter Goode, Philadelphia. 1 garter snake (*E. sirtalis sirtalis*) and 2 DeKay's snakes (*S. dekayi*) presented.
- “ 11. 19 horned lizards (*P. cornuta*), 1 Le Conte's snake (*R. rhinochilus*) purchased. 1 water moccasin (*Ancistrodon piscivorus*) presented by G. N. Seal, Wilmington, N. C. 1 red fox (*C. vulpes pennsylvanicus*) presented by Miss Alma Clemens, Doylestown, Pa.

- May 12. 1 black-footed raccoon (*Procyon hernandezi*) purchased. 1 garter snake (*E. sirtalis sirtalis*) presented by Christian Fry, Philadelphia.
- " 13. 1 scarlet king snake (*O. dolius coccineus*), 1 keeled green snake (*Cyclophis aëstivus*), 1 harlequin snake (*Elaps fulvius*) purchased. 1 solitary sandpiper (*Totanus solitarius*) presented by Master James Mullin, Philadelphia. 1 alligator (*A. mississippiensis*) presented by Austin Thwaites, Philadelphia. 1 alligator (*A. mississippiensis*) presented by Miss Duffee, Philadelphia.
- " 14. 2 pintailed ducks (*Dafila acuta*), 2 pochards (*Fuligula ferina*), 2 tufted ducks (*F. fuligula*), 2 rosy-faced love-birds (*Agapornis roseicollis*), 4 Reeves' terrapins (*Damonie reevesi*), 2 crested newts (*Molge cristata*) purchased. 1 black duck (*Eidemia americana*) purchased.
- " 15. 2 rhesus monkeys (*M. rhesus*), 1 golden-naped amazon (*Chrysotis auripalliata*), 1 anaconda (*Eunectes murinus*) purchased. 1 common marmoset (*Hapale jacchus*) presented by R. J. Rolston, Philadelphia.
- " 16. 3 banded grass finches (*Pephila cincta*) purchased. 1 hell bender (*Cryptobranchus allegheniensis*) presented by John L. Derr, Philadelphia.
- " 17. 2 zebus (*Bos indicus*) ♂ and ♀ presented by Mrs. John Wanamaker, Philadelphia. 1 pine snake (*P. melanoleucus*) purchased. 1 jungle fowl (*Gallus gallus*) born in the Gardens.
- " 18. 8 burrowing owls (*Speotyto cunicularia hypugæa*), 1 black-crested cardinal (*Gubernatrix cristata*), 3 spiny lizards (*Sceloporus spinosus*) purchased. 1 common macaque (*M. cynomolgus*) presented by W. La Rue, Philadelphia. 1 common deer (*Mazama americana*) born in the Gardens.
- " 19. 9 golden pheasants (*Chrysolophus pictus*) born in the Gardens.
- " 21. 1 American bison (*Bison bison*) ♂ born in the Gardens. 1 Guinea pig presented by Master William H. Pavitt, Philadelphia. 1 Le Conte's snake (*Rhinochilus lecontei*) purchased. 1 tawny rough-legged buzzard (*Archibutio ferrugineus*) presented by E. Meyenberg, Pecos City, Texas.
- " 22. 1 raccoon (*Procyon lotor*) presented.
- " 24. 1 alligator (*A. mississippiensis*) presented by Dr. Charles E. Bricker, Philadelphia.
- " 25. 1 red and blue macaw (*Ara chloroptera*), 5 western diamond rattlesnakes (*C. atrox atrox*), 1 water mocassin (*Ancistrodon piscivorus*), 10 whip snakes (*B. flagellum*), 6 Marcy's garter snakes (*E. elegans marciana*) purchased.
- " 28. 1 banded toucan (*Pteroglossus torquatus*) purchased. 1 goldfinch (*Carduelis carduelis*), 1 chestnut-eared finch (*Amadina castanotis*), 3 canary finches (*Serinus serinus*) presented by Elliston J. Morris, Philadelphia.
- " 29. 4 menobranhus (*Necturus maculatus*) purchased.
- " 30. 1 red deer (*Cervus elaphus*) born in the Gardens. 2 alligators (*A. mississippiensis*) presented by Mr. and Mrs. Darmstaedter, Philadelphia.
- " 31. 1 bald eagle (*Haliaetus leucocephalus*) presented by E. P. Timmons, Philadelphia.

- June 1. 1 alligator (*A. mississippiensis*) presented by J. Stanley Lee, Philadelphia. 3 least-horned lizards (*Phrynosoma modestum*), 3 tessellated lizards (*Cnemidophorus tessellatus*) presented by E. Meyenberg, Pecos City, Texas. 3 Say's rattlesnakes (*Crotalus confluentus*), 1 Marcy's garter snake (*E. elegans marciana*), 1 Le Conte's snake (*Rhinochilus lecontei*), 1 Say's king snake (*O. getulus sayi*), 2 Say's pine snakes (*P. catenifer sayi*), 5 western sand snakes (*H. nasicus*), 6 Blainville's horned lizards (*Phrynosoma blainvillei*) purchased.
- " 2. 2 white-throated wood rats (*Neotoma albigula*) born in the Gardens. 1 red-bellied terrapin (*Chrysemys rubriventris*) presented by S. A. Hurcomb, Philadelphia. 6 great-horned owls (*Bubo virginianus*) purchased.
- " 3. 1 opossum (*Didelphys marsupialis*) presented. 1 Mexican spermophile (*Spermophilus mexicanus*), 4 Marcy's garter snakes (*E. elegans marciana*), 10 tessellated lizards (*C. tessellatus*) purchased.
- " 4. 2 aplomado falcons (*Fulco fusco-cærulescens*), 1 Le Conte's snake (*R. lecontei*) purchased. 2 great-horned owls (*B. virginianus*) presented by Master and Miss Wood, Overbrook, Pa.
- " 5. 1 DeKay's snake (*S. dekayi*), 7 garter snakes (*E. sirtalis sirtalis*), 1 striped water snake (*T. leberis*), 25 frogs (*Rana catesbiana*) presented by J. R. Lane, Norwood, Pa. 1 alligator (*A. mississippiensis*), 1 Florida terrapin (*C. concinna*), and 1 frog (*R. catesbiana*) presented by Walter Kunkle, Philadelphia.
- " 6. 1 American bison (*Bison bison*) ♀ born in the Gardens. 2 English pheasants (*Phasianus colchicus*) presented by Louis Weber, Philadelphia. 4 Marcy's wave-lined lizards (*S. undulatus consobrinus*), 4 Poinsett's scaly lizards (*S. torquatus poinsetti*), 1 six-lined lizard (*C. sex-lineatus*), 1 six-lined lizard (*C. sex-lineatus gularis*), 1 collared lizard (*Crotaphytus collaris*), 2 Sonoran skinks (*Eumeces obsoletus*), 1 Stansbury's uta lizard (*Uta stansburiana*) presented by E. Meyenberg, Pecos City, Texas.
- " 8. 1 gray squirrel (*S. carolinensis pennsylvanicus*) presented by Master Walter Howarth, Philadelphia. 1 hog deer (*Cervus porcinus*) born in the Gardens. 1 entellus monkey (*Semnopithecus entellus*), 2 red monkeys (*Cercopithecus patas*), 2 red-necked wallabys and 1 young, (*Macropus ruficollis ruficollis*), 2 long-tailed conures (*Conures euops*) purchased.
- " 9. 1 pine snake (*P. melanoleucus*) presented by John Howell, Philadelphia. 1 alligator (*A. mississippiensis*) presented by the Masters Gilpeu, Philadelphia.
- " 10. 1 Mexican spermophile (*S. mexicanus*), 1 Marcy's garter snake (*E. elegans marciana*), 1 Emory's snake (*C. emoryi*) purchased. 1 Indian antelope (*Antilope cervicapra*), 1 common deer (*Mazama americana*), 1 prairie dog (*Cynomys ludovicianus*) born in the Gardens. 1 prairie wolf (*Canis latrans*) presented by Charles W. Potts, Philadelphia.
- " 11. 1 deer, ♂, species not known, exchanged. 3 American coots (*Fulica americana*) purchased.
- " 12. 1 alligator (*A. mississippiensis*) presented by the Misses Caton, Phil-

- adelphia. 1 alligator (*A. mississippiensis*) presented by Master Fred Newell, Philadelphia.
- June 13. 2 alligators (*A. mississippiensis*) presented by Howell Colton, Philadelphia. 2 alligators (*A. mississippiensis*) presented by Thomas Megear, Philadelphia. 1 alligator (*A. mississippiensis*) presented by Master Ervin Wren, Philadelphia.
- “ 14. 3 green lizards (*A. principalis*), 1 fence lizard (*E. quinquelineatus*) presented.
- “ 15. 1 fallow deer (*C. dama*) born in the Gardens. 2 banded parakeets (*Palcornis fasciatus*), 2 Senegal parrots (*Pæocephalus senegalis*), 1 blotched king snake (*O. rhombomaculatus*), 1 common king snake (*O. getulus getulus*), 1 striped water snake (*T. leberis*), 2 common water snakes (*T. sipedon sipedon*), 2 spotted newts (*Diemyctylus viridescens*) purchased.
- “ 16. 1 snapping turtle (*Chelydra serpentina*) presented by Robert Campbell, Philadelphia.
- “ 17. 2 ravens (*Corvus corax*), 2 Cape doves (*Ena capensis*), 1 Emory's snake (*C. emoryi*), 2 coachwhip snakes (*Zamenis flagellum*), 6 Marcy's garter snakes (*E. elegans marciiana*) purchased. 2 alligators (*A. mississippiensis*) presented by Albert B. Bailey, Philadelphia.
- “ 18. 1 H-spotted snake (*C. subocularis*), 1 line-tailed spermophile (*S. grammurus grammurus*), 5 Marcy's wave-lined lizards (*S. undulatus consobrinus*), 4 ornate uta lizards (*Uta ornata*), 1 Poinsett's scaly lizard (*S. torquatus poinsetti*), 1 collared lizard (*C. collaris*), 2 six-lined lizards (*C. sex-lineatus*), 1 Texas spotted lizard (*Holbrookia texana*) purchased.
- “ 19. 1 hog deer (*C. porcinus*) born in the Gardens. 1 alligator (*A. mississippiensis*) presented by Charles P. Mills, Philadelphia.
- “ 20. 1 white-handed gibbon (*Hylobates lar*), 2 white-throated monkeys (*Cercopithecus olbigularis*), 1 hocheur monkey (*C. nictitans*), 2 grivet monkeys (*C. sabæns*), 1 pig-tailed macaque monkey (*Macacus nemestrinus*), 1 Japanese macaque monkey (*M. fuscatus*), 1 brown macaque monkey (*M. arctoides*), 1 clouded tiger (*Felis nebulosa*), 1 binturong (*Arctictis binturong*), 1 golden cat (*Felis temmincki*), 1 rose-crested cockatoo (*Cacatua moluccensis*), 1 great white-crested cockatoo (*Cacatua cristata*), 1 Guatemelan amazon (*Chrysotis guatemalæ*), 1 Australian cassowary (*Casuaris australis*), 2 emus (*Dromæus novæ-hollandiæ*) purchased. 13 Poinsett's scaly lizards (*S. torquatus poinsetti*) born in the Gardens.
- “ 21. 2 chapparal cocks (*Geococcyx mexicanus*) purchased. 1 black snake (*Z. constrictor*), 6 common garter snakes (*E. sirtalis sirtalis*), 1 common water snake (*T. sipedon sipedon*) presented by J. R. Lane, Norwood, Pa.
- “ 22. 1 American elk (*C. canadensis*) ♂ born in the Gardens. 1 western nightingale (*Daulius lusciniæ*) purchased. 2 screech owls (*Scops asio*) presented by Walter Kunkel, Philadelphia. 4 striped spermophiles (*S. tridecem-lineatus*) purchased.
- “ 23. 1 alligator (*A. mississippiensis*) presented by Paul Lachenmeyer, Philadelphia. 1 screech owl (*Scops asio*) presented by Mrs. Mary A. Wills, Philadelphia. 1 fallow deer (*C. dama*) born in the Gardens.

- June 24. 1 Patagonian conure (*Conurus patagonus*), 2 red-tailed finches (*Estrella ruficauda*), 1 orange-cheeked finch (*Sporæginthus mel-poda*) purchased. 4 golden pheasants (*Chrysolophus pictus*), 1 Amherst's pheasant (*C. amherstiae*) born in the Gardens.
- " 25. 1 kinkajou (*Cercoleptes caudivolvulus*), 5 Hardwicke's mastigures (*Uromastix hardwickii*), 3 elegant tortoises (*Testudo elegans*), 5 bullfrogs (*Rana catesbiana*) purchased. 1 box tortoise (*Terrapene carolina*) presented by Master Walter Scales, Philadelphia. 1 alligator (*A. mississippiensis*) presented by Miss Marguerite Downing, Philadelphia.
- " 28. 2 black-cap warblers (*Sylvia atricapilla*), 1 European redstart (*Ruticilla phænicurus*), 6 collared lizards (*Crotaphytus collaris*), 1 six-lined lizard (*Cnemidophorus sex-lineatus*), 2 common Indian weavers (*Ploceus baya*) purchased.
- July 1. 1 elk (*C. canadensis*) ♂ born in the Gardens. 9 Say's pine snakes (*P. catenifer sayi*), 4 coachwhip snakes (*Z. flagellum*), 2 Marcy's garter snakes (*E. elegans marciانا*) purchased.
- " 3. 1 Azara's cebus (*Cebus azarae*) ♂ purchased.
- " 4. 2 Harlan's iguanas (*Cyclura carinata*) presented by Mrs. Josephine O'Drain, Philadelphia.
- " 5. 6 prairie dogs (*Cynomys ludovicianus*) presented by Dr. Joseph Price, Philadelphia. 1 black snake (*Z. constrictor*) presented by J. W. Buck, Philadelphia.
- " 6. 1 Holbrook's water snake (*T. rhombifer*) purchased. 14 garter snakes (*E. sirtalis sirtalis*) born in the Gardens.
- " 9. 55 horned lizards (*P. cornuta*), 5 western diamond rattlesnakes (*C. atrox atrox*), 12 Marcy's garter snakes (*E. elegans marciانا*), 1 Say's pine snake (*S. catinifer sayi*), 1 whip snake (*Z. flagellum*) purchased.
- " 10. 2 black-billed tree ducks (*Dendrocygna arborea*), 6 violet tanagers (*Euphonia violacea*), 4 Cuban iguanas (*Cyclura nubila*) purchased.
- " 11. 1 brown-fronted maeaw (*ara severa*), 2 cactus conures (*C. cactorum*), 1 Petz's conure (*C. canicularis*), 1 smaller hill mynah (*Mainatus religiosus*), 1 iguana (*Iguana tuberculata*), 2 vipers (*Vipera berus*), 2 spotted snakes (*C. leopardinus*), 2 common ringed snakes (*T. natrix*), 2 pale-headed tree boas (*Epicrates angulifer*) purchased.
- " 12. 1 pig-tailed macaque (*M. nemestrinus*), 4 Mexican spermophiles (*S. mexicanus*) purchased. 2 gray hares (*Lepus sylvaticus*) presented by Master John Hughes, Philadelphia. 1 rhinoceros hornbill (*Buceros rhinoceros*) purchased.
- " 15. 2 least-horned lizards (*P. modestum*), 1 spiny lizard (*Sceloporus spinosus*), 3 six-lined lizards (*C. sex-lineatus*), 1 Say's rattlesnake (*C. confluentus*), 6 Marcy's garter snakes (*E. elegans marciانا*), 2 Le Conte's snakes (*R. lecontei*), 3 Say's pine snakes (*P. catenifer sayi*), 4 whip snakes (*Z. flagellum*), 2 western sand snakes (*H. nasicus*) purchased.
- " 16. 1 southern fox squirrel (*S. niger niger*) presented by T. E. Chidester, Philadelphia. 1 painted terrapin (*C. picta*) presented by Arthur Bender, Philadelphia. 1 garter snake (*E. sirtalis sirtatis*) presented by Werner Kaufmann, Merchantville, N. J.

- July 17. 1 tessellated lizard (*C. tessellatus*) purchased. 1 sparrow hawk (*Falco sparverius*) presented by Edward Helmbold, Philadelphia.
- " 18. 1 opossum and 8 young (*D. marsupialis*) presented by S. F. Yerkes, Germantown, Philadelphia. 2 pine snakes (*P. melanoleucus*) purchased.
- " 19. 1 fallow deer (*C. dama*) born in the Gardens. 1 New York weasel (*Putorius novaboracensis*) presented by R. T. Belle, Philadelphia. 1 spiny-comb lizard (*Ctenosaura acanthura*) presented by Dr. R. C. Rosenberger, Philadelphia. 1 crow (*Corvus americanus*) presented by James I. Gerhardt, Philadelphia.
- " 20. 1 Emory's snake (*C. emoryi*) purchased. 2 pine snakes (*P. melanoleucus*) presented by W. Leemunjun, Philadelphia.
- " 21. 1 painted terrapin (*C. picta*) presented by G. C. Weed, Philadelphia.
- " 22. 2 gray foxes (*Canis cinereo-argentatus*), 2 spotted mountain black snakes (*C. obsoletus confinis*) purchased. 2 alligators (*A. mississippiensis*) presented by Dr. Charles E. Bricker, Philadelphia. 1 pine snake (*P. melanoleucus*) presented by J. A. E. Norcross, Vincentown, N. J.
- " 23. 1 yellow hangnest (*Cassicus persicus*), 1 red-fronted amazon (*C. vittata*) purchased.
- " 24. 2 white-rumped shrikes (*Lanius ludovicianus excubitorides*), 7 six-lined lizards (*C. sex-lineatus*), 6 wave-lined lizards (*Sceloporus undulatus*) purchased. 2 alligators (*A. mississippiensis*) presented by Harry Stewart, Lansdowne, Pa. 4 brown salamanders (*P. glutinosus*) presented.
- " 25. 1 western diamond rattlesnake (*C. atrox atrox*), 1 pine snake (*P. melanoleucus*) purchased.
- " 26. 1 hamadryas baboon (*Papio hamadryas*) ♀, 1 common macaque (*M. cynomolgus*), 2 Wagler's orioles (*Icterus wagleri*), 9 least-horned lizards (*P. modestum*), 6 common horned lizards (*P. cornuta*), 1 diamond rattlesnake (*C. adamanteus*), 1 cyclops water snake (*T. cyclopium*) purchased.
- " 27. 2 red-handed marmosets (*Midas midas*) ♂ and ♀, 2 Fournier's capromys (*Capromys pilorides*), 3 white-crowned pigeons (*Columba leucocephala*), 6 pale-headed tree boas (*Epicrates angulifer*), 1 angulated snake (*Dromicus angulifer caymanus*), 9 West India terrapins (*C. rugosa*) purchased.
- " 29. 1 alligator (*A. mississippiensis*) presented by Master L. L. Downing, Germantown, Philadelphia.
- " 30. 1 leopard (*Felis pardus*) ♀ presented by Hon. Henry Burk, Philadelphia; 1 Texas spotted lizard (*Holbrookia maculata*) purchased.
- " 31. 1 western nightingale (*D. lusciniia*) purchased. 1 alligator (*A. mississippiensis*) presented by Charles M. Pearce, Philadelphia.
- Aug. 1. 10 cyclops water snakes (*T. cyclopium*) born in the Gardens.
- " 3. 1 black bear (*Ursus americanus*) ♂ presented by Messrs. Schaettle and Dunkelberger, Philadelphia.
- " 4. 1 alligator (*A. mississippiensis*) presented by Clarence Letzkus, Philadelphia.
- " 5. 1 pine snake (*P. melanoleucus*) purchased.
- " 7. 6 garter snakes (*E. sirtalis sirtalis*) born in the Gardens. 1 water

- snake (*T. sipedon sipedon*) presented by Master Charles Ritter, Philadelphia.
- Aug. 9. 2 Summer ducks (*Aix sponsa*) purchased.
- “ 10. 1 night heron (*Nycticorax nycticorax naevius*) presented by T. B. Poleman, Manayunk, Philadelphia.
- “ 12. 1 Swainson's lorikeet (*Trichoglossus novæ-hollandiæ*), 2 paradise whydah birds (*Steganura paradisæ*), 1 collared lizard (*C. collaris*), 11 Poinsett's scaly lizards (*S. torquatus poinsetti*), 2 H-spotted snakes (*C. subocularis*), 2 spotted-necked garter snakes (*E. eques*), 1 pine snake (*P. melanoleucus*), purchased.
- “ 13. 2 common macaques (*M. cynomolgus*) presented by J. B. Miller, Philadelphia.
- “ 14. 1 common marmoset (*Hapale jacchus*) presented by G. Morris Dorrance, Bristol, Pa.
- “ 15. 1 little white heron (*Ardea candidissima*) presented by Charles E. Bellows, Bridgeton, N. J. 13 common garter snakes (*E. sirtalis sirtalis*) born in the Gardens.
- “ 16. 1 H-spotted snake (*C. subocularis*), 4 Say's bull snakes (*P. catenifer sayi*), 1 Say's rattlesnake (*C. confluentus*), purchased.
- “ 17. 2 smooth green snakes (*Liopeltis vernalis*) presented by J. L. Buck, Philadelphia.
- “ 20. 1 Swainson's lorikeet (*Trichoglossus novæ-hollandiæ*) purchased.
- “ 21. 1 alligator (*A. mississippiensis*) presented by Miss Isabel Devlin, Philadelphia.
- “ 22. 1 American robin (*Turdus migratorius*) presented by Master Herman Stapf, Philadelphia. 1 robust kangaroo (*Macropus robustus*) born in the Gardens.
- “ 23. 4 brown salamanders (*Plethodon cinereus cinereus*) presented.
- “ 25. 1 alligator (*A. mississippiensis*) presented by Boyle Irwin, Jr., Philadelphia. 1 banded rattlesnake (*C. horridus*) purchased.
- “ 26. 1 jackass hare (*Lepus callotis*) purchased.
- “ 27. 1 mitred monkey (*Semnopithecus mitratus*), 2 sordid parrots (*Pionus sordidus*), 1 banded rattlesnake (*C. horridus*) purchased.
- “ 28. 1 short-nosed horned lizard (*P. plutyrhina*) presented by W. A. Simpson, Philadelphia.
- “ 29. 1 brown-throated conure (*C. æruginosus*), 1 senegal fire finch (*Lagonosticta senegala*), 2 Swainson's lorikeets (*T. novæ-hollandiæ*), 1 yellow-cheeked amazon (*C. autumnalis*), 3 pine snakes (*P. melanoleucus*) purchased. 2 banded water snakes (*T. sipedon fasciatus*) exchanged. 1 garter snake (*E. sirtalis sirtalis*) presented by Master Douglass March, Philadelphia.
- “ 31. 2 banded rattlesnakes (*C. horridus*), 1 fox snake (*C. vulpinus*) purchased. 2 painted terrapins (*C. picta*) presented by Master William Coon, Philadelphia.
- Sept. 2. 1 hog deer (*C. porcinus*) born in the Gardens. 1 pine snake (*P. melanoleucus*) purchased.
- “ 3. 1 least tern (*Sterna antillarum*) presented by Dr. R. E. Müller, Philadelphia. 1 Hernandez horned lizard (*P. hernandezi*), 1 smooth green snake (*Liopeltis vernalis*) presented by the Academy of Natural Sciences, Philadelphia.

- Sept. 4. 1 painted terrapin (*C. picta*) presented by Miss Eva Bush, Philadelphia.
- “ 5. 1 ashy opossum (*D. cinerea*) purchased.
- “ 6. 4 common horned lizards (*P. cornuta*), 2 Poinsett's scaly lizards (*S. torquatus poinsetti*), 1 Marcy's wave-lined lizard (*S. undulatus consobrinus*), 1 Marcy's garter snake (*E. elegans marciiana*), 1 Graham's leaf-nosed snake (*Salvadora grahami*), 2 spotted-necked garter snakes (*E. eques*) purchased.
- “ 7. 3 Western diamond rattlesnakes (*C. atrox atrox*), 2 Say's bull snakes (*P. catenifer sayi*), 1 western sand snake (*H. nasicus*) purchased. 1 box tortoise (*T. carolina*) presented by J. R. Lane, Norwood, Pa., 1 bullfrog (*R. catesbiana*) presented by Miss Edythe McCormick, Philadelphia.
- “ 8. 1 diamond rattlesnake (*C. adamantus*), 1 keeled green snake (*C. aestivus*) purchased, 1 screech owl (*Scops asio*) presented by F. H. Lipp, Philadelphia.
- “ 9. 2 turkey vultures (*Cathartes aura*) presented by Dr. M. E. Conard, Philadelphia. 1 banded water snake (*T. sipedon fasciatus*) presented by Masters Charles and Hiram Ritter, Philadelphia.
- “ 10. 1 alligator (*A. mississippiensis*) presented by Miss Retta Clark, Philadelphia.
- “ 11. 4 banded rattlesnakes (*C. horridus*) purchased, 1 bullfrog (*R. catesbiana*) presented by Dr. N. M. Drake, Philadelphia.
- “ 12. 1 chapparral cock (*Geococcyx mexicanus*) purchased.
- “ 13. 1 Kentucky warbler (*Geothlypis formosa*) presented by A. P. Willits, Willits' Station, N. C.
- “ 14. 1 sickle-billed curlew (*numenius longirostris*) purchased, 3 painted terrapins (*C. picta*) presented by Howard Walcott, Philadelphia.
- “ 16. 2 hog deer (*C. porcinus*) born in the Gardens, 1 leopard (*Felis pardus*) ♀ purchased. 8 Woodhouse's water snakes (*T. sipedon transversus*) born in the Gardens.
- “ 17. 1 red-shouldered parakeet (*Palæornis eupatrius*) presented by Mrs. George Griffith, Philadelphia. 14 banded water snakes (*T. sipedon fasciatus*) born in the Gardens. 1 weeper cibus (*Cebus capucinus*), presented by Harry Daily, Philadelphia. 2 silver pheasants (*Gennæus nyctemerus*) purchased.
- “ 18. 1 black-headed finch (*munia malacca*), 1 Senegal fire finch (*L. caerulescens*) purchased.
- “ 19. 2 tigers (*Felis tigris*) born in the Gardens. 2 canvas-backed ducks (*Fuligula vallisneria*), 2 summer ducks (*Aix sponsa*), 1 western diamond rattlesnake (*C. atrox atrox*), 1 Say's rattlesnake (*C. confluentus*), 3 Say's bull snakes (*P. catenifer sayi*), 1 Marcy's garter snake (*E. elegans marciiana*), 1 western sand snake (*H. nasicus*) purchased.
- “ 20. 1 copperhead snake (*Ancistrodon contortrix*) born in the Gardens. 1 blue-crowned hanging parakeet (*Loriculus galgulus*) purchased. 1 banded rattlesnake (*C. horridus*) presented by P. K. Gable, Norristown, Pa. 1 bullfrog (*R. catesbiana*), presented by Master Joseph Morrison, Philadelphia.
- “ 21. 1 Virginia rail (*Rallus virginianus*) presented by John Cugley, Philadelphia. 4 Henry's mud turtles (*Cinosternum henrici*),

- 1 painted box tortoise (*T. ornata*) presented by E. Meyenberg, Pecos City, Texas.
- Sept. 24. 1 white-fronted amazon (*C. leucocephala*) presented by Mrs. F. S. Krees, Philadelphia.
- “ 25. 1 blue-fronted amazon (*C. aestiva*) presented by Mrs. William McCormick, Philadelphia.
- “ 27. 2 Guinea baboons (*P. sphinx*), 2 superb tanagers (*Calliste fastuosa*), 3 black and blue tanagers (*Tanagrella cyanomelena*), 3 gray-headed love birds (*Agapornis canus*), 3 passerine parrakeets (*Psittacula passerina*) purchased.
- “ 28. 1 western sand snake (*H. nasicus*) purchased.
- “ 30. 8 common toads (*Bufo lentiginosus americanus*) presented by Master Willie Swain, Philadelphia. 18 garter snakes (*E. sirtalis sirtalis*) 1 water snake (*T. sipedon sipedon*), 10 bullfrogs (*R. catesbiana*) presented by J. R. Lane, Norwood, Pa. 1 common horned lizard (*P. cornuta*), 7 least-horned lizards (*P. modestum*) purchased.
- Oct. 1. 1 Rocky Mountain goat (*Oreamnus montanus*) ♂, 1 white-throated monkey (*C. albigularis*), 1 white-nosed coati (*Nasua narica*), 1 western nightingale (*Daulias luscini*a), 1 great-billed parrakeet (*Tanygnathus megalorhynchus*), 2 line-tailed spermophiles (*S. grammurus grammurus*), 9 Poinsett's scaly lizards (*S. torquatus poinsetti*), 11 wave-lined lizards (*S. undulatus*), 1 common horned lizard (*P. cornuta*), 1 spotted-necked garter snake (*E. eques*), 1 Emory's snake (*C. emoryi*) purchased.
- “ 2. 2 Geoffroy's marmosets (*M. geoffroyi*), 1 white-nosed coati (*N. narica*), 1 American blue jay (*Cyanocitta cristata*) purchased.
- “ 4. 9 least-horned lizards (*P. modestum*) purchased. 5 common garter snakes (*E. sirtalis sirtalis*), 7 striped water snakes (*T. leberis*), 2 ribbon snakes (*E. saurita*), 1 common water snake (*T. sipedon sipedon*) presented by Dr. Daniel A. Atkinson, Wilkinsburg, Pa.
- “ 5. 1 chapparal cock (*Geococcyx mexicanus*), 2 Pacific ring-necked snakes (*Diadophis amabilis*), 1 Botta's snake (*Charina botta*), 6 elegant garter snakes (*E. elegans elegans*), 1 California pine snake (*P. catenifer catenifer*), 1 side-striped whip snake (*Z. lateralis*), 1 red-sided garter snake (*E. sirtalis parietalis*), 1 many-hued lizard (*Gerrhonotus multicarinatus*), 9 wave-lined lizards (*S. undulatus*), 1 western diamond rattlesnake (*C. atrox atrox*), 1 Say's rattle-snake (*C. confluentus*), 2 Le Conte's snakes (*R. lecontei*), 1 whip snake (*Z. flagellum flagellum*), 3 Say's pine snakes (*P. catenifer sayi*), 2 reed birds (*Dolichonyx oryzivorus*), 1 wood thrush (*Turdus mustelinus*), 2 Baltimore orioles (*Icterus baltimore*) purchased. 1 alligator (*A. mississippiensis*) presented by W. L. Conwell, Philadelphia. 1 alligator (*A. mississippiensis*) presented by Dr. H. Hille, Philadelphia. 3 garter snakes (*E. sirtalis sirtalis*), 3 De-Kay's snakes (*S. dekayi*) presented by Master John R. McQuaide, Philadelphia.
- “ 6. 1 green lizard (*Anolis principalis*) presented by Miss Bertha Hesselbruch, Philadelphia.
- “ 7. 1 robust kangaroo (*M. robustus*) born in the Gardens. 1 Say's king snake (*O. getulus sayi*), 4 common pine snakes (*P. melanoleucus*), 12 painted box tortoises (*T. ornata*) purchased. 8 garter snakes

- (*E. sirtalis sirtalis*), 1 DeKay's snake (*S. dekayi*) presented by Master Aaron H. Rogers, Philadelphia. 1 alligator (*A. mississippiensis*) presented by Mr. J. G. Mensch, Philadelphia.
- Oct. 8. 1 gray squirrel (*Sciurus carolinensis pennsylvanicus*) presented by Mrs. Emerick, Philadelphia.
- " 9. 1 black duck (*Anas obscura*) presented by Robert Warwick, Fleming, N. Y. 2 black ducks (*A. obscura*) purchased.
- " 10. 1 meadow mouse (*Arvicola riparius*), 2 garter snakes (*E. sirtalis sirtalis*), 2 water snakes (*T. sipedon sipedon*), 20 bullfrogs (*R. catesbiana*) presented by J. R. Lane, Norwood, Pa. 1 heeled green snake (*C. æstivus*) purchased.
- " 11. 1 alligator (*A. mississippiensis*) presented by Walter Erben, Philadelphia.
- " 12. 1 ocelot (*F. pardalis*) ♂ presented by Zoological Society of Cincinnati. 1 box tortoise (*T. carolina*) presented by the Misses Florence and May Schultz, Philadelphia. 2 spotted-necked garter snakes (*E. eques*), 1 horned lizard (*P. cornuta*), 1 wave-lined lizard (*S. undulatus*) purchased.
- " 15. 20 least-horned lizards (*P. modestum*) purchased.
- " 17. 1 brown cebus (*Cebus fatuellus*) presented by B. F. Paist, Philadelphia.
- " 18. 1 gray fox (*C. cinereo-argentatus*) purchased.
- " 19. 1 red-eared bulbul (*Pycnonotus jocosus*), 3 western diamond rattlesnakes (*C. atrox atrox*), 1 diamond rattlesnake (*C. adamanteus*), 1 harlequin snake (*Elaps fulvius*), 4 keeled green snakes (*C. æstivus*) purchased.
- " 20. 1 weeper cebus (*C. capucinus*) presented by Mrs. Samuel Adams, South Bethlehem, Pa. 2 canary birds (*Serinus serinus*) presented by Miss T. Steaf, Philadelphia. 1 box tortoise (*T. carolina*), 1 mud turtle (*Cinosternum pennsylvanicum*) presented by Charles F. Weber, Jr., Philadelphia.
- " 22. 1 alligator (*A. mississippiensis*) presented by Mrs. Christian Pflaum, Jr., Philadelphia. 1 alternating king snake (*Ophibolus alternus*) purchased.
- " 25. 1 hamadryas baboon (*Papio hamadryas*), 1 red-sided eclectus (*Eclectus pectoralis*), and 1 banded rattlesnake (*C. horridus*) purchased.
- " 26. 1 common marmoset (*H. jacchus*) presented by Mrs. George F. Lee, Chestnut Hill, Philadelphia.
- " 27. 1 red-shouldered parrakeet (*Palæornis eupatrius*) presented by Mr. and Mrs. Edwin C. Reed, Camden, N. J.
- " 28. 1 striped water snake (*T. leberis*) presented by Thomas B. Manley, Philadelphia.
- " 29. 1 blue bird (*Sialia sialis*), 2 cow birds (*Molothrus ater*), 2 snow birds (*Junco hiemalis*) purchased. 1 alligator (*A. mississippiensis*) presented by Mrs. Honore Lane, Philadelphia.
- " 31. 13 least-horned lizards (*P. modestum*) purchased.
- Nov. 1. 1 water snake (*T. sipedon sipedon*) purchased.
- " 2. 2 DeKay's snakes (*S. dekayi*) presented by H. A. Macready, Jr., Philadelphia.
- " 5. 2 reed birds (*Dolichonyx oryzivorus*), 2 Baltimore orioles (*Icterus baltimore*), 1 scarlet tanager (*Pyrranga rubra*) purchased.
- " 6. 1 Say's pine snake (*P. catenifer sayi*) purchased.

- Nov. 7. 1 nightingale (*D. lusciniæ*), 2 yellow hangnests (*Cuscuta persicus*), 2 blue-bearded jays (*Cyanocorax cyanopogon*), 1 diamond rattlesnake (*C. adamanteus*), 3 keeled green snakes (*C. æstivus*) purchased.
- “ 9. 1 black-footed raccoon (*P. hernandezii*) presented by Mrs. Julia Stockton Robins, Philadelphia. 1 raccoon (*P. lotor*) presented by S. M. Linburg, Philadelphia. 1 painted terrapin (*C. picta*) presented by Master Raymond T. Severn, Philadelphia.
- “ 12. 1 striped hyæna (*Hyæna hyæna*) received in exchange. 1 prairie wolf (*C. latrans*), 3 black swans (*Cygnus atratus*) purchased. 1 gray-breasted parrakeet (*Bolborhynchus monachus*) presented by Miss Annie Ferree, Rosemont, Pa.
- “ 15. 1 prairie dog (*Cynomys ludovicianus*) presented by Dr. Jameson, Philadelphia. 1 whip snake (*Z. flagellum flagellum*), 1 least-horned lizard (*P. modestum*), 3 Poinsett's scaly lizards (*S. torquatus poinsettii*), 1 wave-lined lizard (*S. undulatus*) purchased.
- “ 17. 1 red deer (*C. elaphus*) presented by R. E. Follett.
- “ 19. 1 canary bird (*S. serinus*) presented by Mrs. S. A. Jones, Philadelphia.
- “ 20. 7 garter snakes (*E. sirtalis sirtalis*) presented J. Raymond Lane, Norwood, Pa.
- “ 21. 1 red-tailed buzzard (*B. borealis*) presented by Isaac Greenberg, Mount Union, Pa.
- “ 23. 3 orchard orioles (*Icterus spurius*) presented by John Cugley, Philadelphia. 1 diamond rattlesnake (*C. adamanteus*), 15 ground rattlesnakes (*S. miliarius*), 16 water moccasins (*A. piscivorus*), 41 blacksnakes (*Z. constrictor constrictor*), 3 corn snakes (*C. guttatus*), 3 chicken snakes (*C. quadrivittatus*), 9 common garter snakes (*E. sirtalis sirtalis*), 11 Sacken's garter snakes (*E. sackeni*), 1 keeled green snake (*C. æstivus*), 39 hog-nosed snakes (*H. platyrhynchus*), 19 indigo snakes (*S. corais couperi*), 17 king snakes (*O. getulus getulus*), 10 pine snakes (*P. melanoleucus*), 2 ring-necked snakes (*Diadophis punctatus*), 4 common water snakes (*T. sipedon sipedon*), 4 brown water snakes (*T. taxispilotus*), 1 cyclops water snake (*T. cyclopeum*), 16 whip snakes (*Z. flagellum flagellum*), 3 glass snakes (*O. ventralis*), 4 green lizards (*A. principalis*), 2 fence lizards (*E. quinquelineatus*) purchased.
- “ 24. 1 American peregrine falcon (*F. communis anatum*) presented by Ambrose Hunsberger, Philadelphia. 1 white-fronted amazon (*C. leucocephala*) presented by Mrs. Prifold, Philadelphia.
- “ 26. 2 Griffon vultures (*Gyps fulvus*) purchased. 4 Bungoma turtles (*Emyda granosa*) presented by Carl Hagenbeck, Hamburg, Germany. 25 gold fish presented by Henry Bishop, Baltimore, Md.
- “ 28. 2 alligators (*A. mississippiensis*) presented by Fred Steinback, Philadelphia.
- “ 29. 1 whip snake (*Z. flagellum flagellum*) purchased.
- Dec. 3. 2 snapping turtles (*Chelydra serpentina*) presented by William Beisel, Philadelphia.
- “ 5. 2 alligators (*A. mississippiensis*) presented by Master Walter E. Groves, Philadelphia.
- “ 6. 4 black ducks (*Anas obscura*), 5 mallards (*A. boschas*), 4 red-headed ducks (*Fuligula ferina americana*), 1 shoveler duck (*Spatula clypeata*) purchased.

- Dec. 7. 2 line-tailed spermophiles (*S. grammurus grammurus*), 1 Texas cardinal (*Pyrrhuloxia sinuata*) purchased. 1 great-horned owl (*Bubo virginianus*) presented by J. H. Bogarth, Elwood, N. J.
- " 9. 1 alligator (*A. mississippiensis*) presented by B. Weller, Jr., Pottsville, Pa.
- " 10. 2 Carolina doves (*Zenaidura carolinensis*) purchased.
- " 11. 1 Indian antelope (*Antilope cervicapra*) born in the Gardens. 5 American coots (*Fulica americana*) purchased.
- " 12. 1 opossum (*D. marsupialis*) presented by Dr. C. H. Ballantine, Philadelphia.
- " 13. 1 yellow baboon (*P. cynocephalus*), 2 sooty mangabeys (*C. fuliginosus*) purchased. 1 bullfrog (*R. catesbiana*) presented by S. W. Pavonarius, Philadelphia.
- " 14. 1 gray wood rat (*N. micropus*), 1 Pennant's parrakeet (*Platycercus elegans*), 2 cardinal redbirds (*Cardinalis cardinalis*), 1 cow bird (*Molothrus ater*), 2 common crossbills (*Loxia curvirostra*), 1 spotted munin (*Munia punctulata*), 1 cut-throat finch (*Americana fasciata*), 1 Marcy's garter snake (*E. elegans marci*) purchased.
- " 18. 1 raccoon (*P. lotor*) presented by H. P. Dale, Whaleyville, Md.
- " 19. 1 Chapman's zebra (*Equus chapmani*) ♀ born in the Gardens.
- " 21. 1 yellow-headed conure (*C. jendaya*) purchased. 2 smooth green snakes (*L. vernalis*) presented by F. W. Wamsley, Wood's Hole, Mass.
- " 22. 1 Rocky Mountain goat (*Oreamnus montanus*) ♀ presented by International Forest, Fish and Game Association of Pennsylvania. 1 Swinhoe's pheasant (*Gennæus swinhoii*) exchanged. 2 call ducks, domestic variety, presented by Mr. Evans, Chicago, Ill.
- " 23. 2 roseate cockatoos (*Cacatua roseicapilla*) presented by Messrs. Cugley and Mullen, Philadelphia.
- " 24. 2 prairie dogs (*C. ludovicianus*) presented by Edward C. Moore, Philadelphia. 1 roseate cockatoo (*C. roseicapilla*) presented by Mrs. S. Naudain Duer, Philadelphia. 1 Indian antelope (*A. cervicapra*) ♀ born in the Gardens.
- " 30. 5 king snakes (*O. getulus getulus*) presented by Dr. Clarence W. Lincoln, Germantown, Philadelphia. 1 red-tailed buzzard (*Buteo borealis*) presented by Philadelphia Aerie No. 42, F. O. of E.
- " 31. 1 Indian shama (*Citrocincla tricolor*), 1 Malabar green bulbul (*Chloropsis aurifrons*), 2 black-necked hemipodes (*Turnix nigrocollis*) purchased.
- 1902.
- Jan. 1. 3 Price's chipmunks (*Tamias pricei*), 1 canvas-backed duck (*F. vallisneria*), 1 red-headed duck (*F. ferina americana*), 9 common ringed snakes (*T. natrix*), 3 spotted snakes (*T. tessellatus*), 1 hamadryas baboon (*P. hamadryas*) purchased.
- " 2. 5 swamp frogs (*R. palustris*), 9 slimy salamanders (*P. glutinosus*), 4 red salamanders (*Spelerpes rubra*) purchased.
- " 4. 1 alligator (*A. mississippiensis*) presented by Mrs. George Scott, Philadelphia.
- " 6. 2 starlings (*Sturnus vulgaris*) presented by Messrs. Cugley & Mullen, Philadelphia. 1 cinereus waxbill (*Lagonosticta caerulescens*) purchased.

- Jan. 7. 1 Indian drongo (*Chibia hottentota*) purchased.
- " 8. 1 Algerian hedgehog (*Erinaceus algirus*) purchased. 1 screech owl (*S. asio*) presented by Harry Kunkle, Philadelphia.
- " 10. 1 lesser sulphur-crested cockatoo (*Cacatua sulphurea*) purchased.
- " 14. 1 muskrat (*Fiber zibethicus*) presented by Richard Sloan, Rockledge, Montgomery County, Pennsylvania. 1 alligator (*A. mississippiensis*) presented by John S. Merckle, Philadelphia.
- " 17. 3 pin-tailed ducks (*Dafla acuta*) purchased.
- " 20. 2 cactus wrens (*Campylorhynchus brunneicapillus*), 1 Texas white-footed mouse (*Peromyscus texensis*), 1 western diamond rattlesnake (*C. atrox atrox*) purchased. 1 raccoon (*P. lotor*) presented by William Martindale, Germantown, Philadelphia. 1 alligator (*A. mississippiensis*) presented by Emlen Wood, Philadelphia.
- " 21. 1 opossum (*D. marsupialis*) presented by James Rourk, Philadelphia.
- " 22. 1 cactus wren (*C. brunneicapillus*), 5 Arizona sage hares (*Lepus arizonæ minor*) purchased.
- " 24. 1 kinkajou (*Cercoleptes caudivolvulus*), 1 grand eelectus (*Eclectus rostratus*) purchased. 1 raccoon (*P. lotor*) presented by F. C. West, Philadelphia.
- " 25. 1 Levaillant's amazon (*C. levaillanti*) presented by Miss R. Payne, Philadelphia. 1 tawny rough-legged buzzard (*Archibuteo ferrugineus*) purchased.
- " 26. 1 opossum (*D. marsupialis*) presented by C. C. Ebright, Philadelphia.
- " 29. 4 pectoral quail (*Coturnix pectoralis*) purchased.
- " 31. 2 canvas-backed ducks (*F. vallisneria*), 2 American widgeons (*Mareca americana*) purchased.
- Feb. 2. 1 raccoon (*Procyon lotor*) presented by J. C. Hogeland, Philadelphia.
- " 3. 1 red-bellied snake (*Furancia abacura*) presented by Clarence B. Moore, Philadelphia.
- " 7. 1 three-banded night monkey (*Nyctipithecus trivirgatus*) purchased.
- " 8. 1 cinereus waxbill (*L. cærulescens*), 2 maja finches (*Munia maja*) purchased.
- " 13. 1 red-tailed buzzard. (*B. borealis*) presented by Solomon Shenk, Deodate, Pa.
- " 15. 1 Texas whip snake (*Z. tæniatus ornatus*) purchased.
- " 25. 1 western diamond rattlesnake (*C. atrox atrox*) purchased.
- " 26. 1 wild cat (*F. rufus*) ♂ purchased. 1 wild cat (*F. rufus*) ♀, 6 common quail (*Ortyx virginianus*) presented by Thomas B. Manley, Philadelphia. 1 ocelot (*F. pardalis*), 1 jackass hare (*L. callotis*), 11 European rabbits (*Lepus cuniculus*), 5 prong-horned antelopes (*Antilocapra americana*), 2 mandarin ducks (*A. galericulata*) presented by the International Forest, Fish and Game Association of Chicago, Ill.
- " 27. 2 Hardwick's mastigures (*Uromastix hardwickii*), 1 Indian eryx (*E. johni*), 2 Derbian terrapins (*Sternotheræus derbianus*), 2 blackish terrapins (*S. nigricans*) purchased.
- " 28. 1 yellow-shouldered amazon (*C. ochroptera*) presented by J. A. Bradford, Philadelphia.

