

	PAGE.
<i>Carnivora</i> , evolution of	11
" families of	7
" occurrence of	7
" post-pliocene species of	5
" relation of, to other mammals	35
<i>Castoroides ohioensis</i>	6, 37, 40
<i>Cervidae</i> , family defined	22
<i>Cetacea</i> , relation of, to other mammals	35
<i>Chænohyus</i> , genus defined	17
Champlain epoch	5
Characterization of groups (see "Definition")	
<i>Cheiroptera</i> , evolution of	11
" relation of, to other mammals	35
<i>Cholæpus</i>	38
Classification of <i>artiodactyla</i>	16
" <i>carnivora</i>	7
" <i>dicotyles</i>	18
" <i>dicotylinæ</i>	17
" <i>diplarthra</i>	12
" <i>edentata</i>	38
" <i>equidæ</i>	40, 41
" <i>mammalia</i>	35
" <i>platygonus</i>	20
" <i>rodentia</i>	36, 37
" <i>ruminantia</i>	22
" <i>selenodonta</i>	21
" <i>suinæ</i>	16, 17
" <i>tapiridæ</i>	25
" <i>ungulata</i>	12
Climate of epochs of post-pliocene	4
" pliocene	4
Collett, Prof. John, introductory	3
" obtains fossil deer	22
" on <i>bison latifrons</i>	24
Cope, Prof. E. D., on <i>dicotyles</i>	19
" evolution of hoofed quadrupeds	14
" extinct dogs	7
<i>Proboscidea</i>	29
Cope and Wortman, letter of transmittal	3
Coues, Elliot, on coyote	8
Coyote, compared with domestic dog	8
" fossil	7
" interbreeds with domestic dog	8
<i>Creodonta</i>	35
Deer, black-tailed	23
" fossil	6, 9, 22, 23
" mule	23
" Virginia	23, 24
Definition of <i>amblypoda</i>	12
" <i>artiodactyla</i>	15, 16, 36
" <i>brunodonta</i>	16
" <i>chænohyus</i>	17
" <i>desmatotherium</i>	25
" <i>dicotyles</i>	17
" <i>dicotylinæ</i>	16
" <i>diplarthra</i>	12
" <i>elasmognathus</i>	25
" <i>hyotherium</i>	17
" <i>perissodactyla</i>	17
" <i>phacochærinæ</i>	15
" <i>platygonus</i>	17
" <i>proboscidea</i>	12
" <i>rodentia</i>	36

	PAGE.
Definition of <i>ruminantia</i>	21
" <i>selenodonta</i>	16
" <i>suina</i>	16
" <i>tapirus</i>	25
" <i>tacopoda</i>	12
" <i>thinohyus</i>	17
" <i>ungulata</i>	11
Deposits, kinds of, containing fossil remains	7
<i>Desmatotherium</i> , genus defined	25
<i>Dicotyles</i> , analysis of species	18
<i>Dicotyles</i> , definition of genus	17
" <i>condoni</i>	18, 19
" <i>hesperius</i>	18
" <i>labiatus</i>	18, 19
" <i>lenis</i>	19
" <i>nasutus</i>	6, 18, 19
" <i>pristinus</i>	18, 19
" <i>serus</i>	19
" <i>torquatus</i>	18
<i>Dicotylinae</i> , definition of	16
" genera of	17
<i>Dinotherium</i> , teeth of	31, 32
<i>Diplarthra</i> , definition of order	12
" descriptions of groups and species	13-29
" evolution of	13, 14
" suborders of	12
" wherein specialized	13, 14
Dog family, species of, described	9
Dog, interbreeding with coyote	8
Dritt, limits of, in America	4
<i>Edentata</i> , common characters of the order	38
" relation to other mammals	35, 36
" subdivisions of	38
<i>Elasmognathus</i> , genus defined	25
Elephants, order including	29
Elephant, African	12, 31
" fossil	6
" Indian	12, 31
<i>Elephas antiquus</i>	33
" <i>columbi</i>	33
" <i>indicus</i>	31, 32, 33
" <i>primigenius</i>	6, 32
" relation of, to mastodon	33
" living genus	12
" teeth of	31
Elk, fossil	6, 40
" Irish	6
<i>Entomophaga</i>	38
Eocene period	21, 25
Epochs of Post-Pliocene, or Quaternary	4
<i>Equidae</i> belonging to present epoch	25
" distribution, evolution, etc., of	25-29
<i>Equus</i> , species of	40, 41
" <i>andium</i>	41
" <i>asinus</i>	41
" <i>barcenæi</i>	41
" <i>burchelli</i>	41
" <i>caballus</i>	26-29, 41
" <i>crenicens</i>	40
" <i>curvidens</i>	40
" <i>excelsus</i>	41
" <i>fruternus</i>	6, 41
" <i>hemionus</i>	41

	PAGE.
<i>Equus major</i>	6, 41
“ <i>occidentalis</i>	41
“ <i>quagga</i>	41
“ <i>tau</i>	41
“ <i>zebra</i>	41
Evolution, causes of	13, 14
“ of <i>carnivora</i>	4
“ of <i>cheiroptera</i>	11
“ of <i>equidæ</i>	26-29
“ of hoofed quadrupeds	11, 13, 14
“ of horse	26-29
“ of <i>mammalia</i>	11
“ of <i>perissodactyla</i>	25-29
“ of <i>proboscidea</i>	29-32
“ of <i>rodentia</i>	11
“ of <i>ungulata</i>	11, 12
Families of <i>carnivora</i>	7
“ of <i>edentata</i>	38
“ of <i>perissodactyla</i>	25
“ of <i>ruminantia</i>	22
<i>Felis atrox</i>	5
“ <i>spelæa</i>	5
Flower, W. H., on <i>proboscidea</i>	30, 31
Genera of <i>dicotylinæ</i>	17
“ of <i>suinæ</i>	17
Giraffe	21, 22
Glacial epoch	4
Glaciers, indications of	4
Glyptodont	38
Great Lakes, former extension of	5
Hairy elephant or hairy mammoth	6, 32
<i>Hippopotamus</i> , habits, etc., of	13, 16
Hogs	16
Hoofed animals, evolution of	13
Horses, distribution, evolution, etc., of	26-29, 40
“ fossil	6, 9, 40, 41
<i>Hydrochærus sesopi</i>	6
<i>Hyootherium</i> , genus defined	17
<i>Hystriomorpha</i>	6, 36, 37
<i>Insectivora</i> , relation of, to other mammals	35
Ivory of Siberia	33
Jefferson, Thos., on <i>megalonyx</i>	39
<i>Lagomorpha</i>	37
Lakes, Great, former extension of	5
Le Conte, Prof., on <i>platygonus</i>	20
Leidy, Prof. Joseph, on <i>dicotyles</i>	19
“ “ on fossil wolf	9
“ “ on <i>megatherium</i>	39
“ “ on <i>platygonus</i>	20
Lester, Francis A., finds fossil wolf	9
“ “ finds fossil tapir	26
Lion, American	4
Llama	21
Loop Fork deposits	6, 19, 21
<i>Lozodon africanus</i>	12, 31, 33
<i>Mammalia</i> , classification of	35
“ evolution of	11
Mammoth, mentioned	6, 40
“ associated with fossil dog	8
“ described	32
Marsh, Prof. O. C., on <i>dicotyles</i>	18, 19
“ “ <i>platygonus</i>	21
“ “ <i>tapirulus</i>	25

	PAGE.
<i>Marsupialia</i> , origin of	35
<i>Mastodon americanus</i>	6, 33, 34
" associated with fossil beaver	37
" referred to	29, 31, 40
<i>Megaceros hibernicus</i>	6
<i>Megalonyx jeffersoni</i> , described	39
" referred to	6, 9, 39
<i>Megatheriidae</i>	38
<i>Megatherium</i>	6, 39
Miocene period	25, 34
Musk-ox, fossil	5, 24
<i>Mylodon</i>	6, 39
<i>Myomorpha</i>	37
Orders of <i>ungulata</i>	12
<i>Oreodontidae</i>	21
<i>Ovibos bombifrons</i>	5, 24
" <i>cavifrons</i>	5, 24
Owen, D. D., eulogy on	19
" " finds <i>megalonyx</i>	39
Pampean deposits	6
Peccaries defined	16
" fossil	6, 18, 40
Peccary, collared	18
" white-lipped	18
<i>Pecora</i>	21
<i>Perissodactyla</i> , definition of	15
" descriptions of	25-29, 40, 41
" evolution of	25
" examples of	12, 15
" fossil	6, 25, 40, 41
" of Eocene	15
<i>Phacochærhine</i> , defined	17
<i>Phacochærhinus</i>	17
<i>Phytophaga</i>	38
<i>Pinnipedia</i> , relation of, to other mammals	35
<i>Platygonus</i> , definition of genus	17
" <i>compressus</i>	6, 20, 40
" <i>striatus</i>	21
" <i>vetus</i>	6, 20
" <i>ziegleri</i>	21
Pliocene, deposits of, in Kansas, Nebraska and S. America	6
Porcupine, structure of	36
Post-Pliocene period characterized	4
" " epochs of	4
" " limits of	6
" " mammals of	5, 6
<i>Potamochoerus</i>	17
Primates, evolution of	11
" relation of, to other mammals	35
<i>Proboscidea</i> , definition of order	12
" description of species	29-34
" fossil	6
<i>Putorius macrondon</i>	5
Quaternary period, characterized and subdivided	4
" limits of	6
<i>Rangifer tarandus</i>	23
Recent period, beginning of	5
Reindeer	23
<i>Reptilia</i> , definition of	30
<i>Rhinoceros</i> , habits, etc., of	13
<i>Rodentia</i> , classification of	13
" discussion of order	35, 37
" evolution of	11

	PAGE.
<i>Rodentia</i> , fossil species.	6
" relation of, to other mammals	35, 36
" structure of	36
<i>Ruminantia</i> , classification of.	22
" definition of	21, 22
" examples of	21
Saber-toothed tiger	5
<i>Sciuromorpha</i>	36
<i>Selenodonta</i> , classification of.	21
" definition of	16
Siberian mammoth.	33
<i>Sirenia</i> , relation of, to other mammals	35
Sloths.	6, 38, 40
<i>Smilodon fatalis</i>	5
" <i>gracilis</i>	5
South America, <i>edentata</i> of.	38
" horses of.	28
" pampean deposits of	6
Subfamilies of <i>suidæ</i>	16, 17
Suborders of <i>diparthra</i>	15
" <i>edentata</i>	38
<i>Suinæ</i> , living genera of	17
<i>Sus</i>	17
Swine.	16
Tapirs, fossil	6, 9, 26, 40
" genera of.	25
" species of.	26
<i>Tapiravus</i>	25
<i>Tapirulus</i>	25
<i>Tapirus</i> , genus defined.	25
" habits, etc., of.	13
" <i>americanus</i>	6, 26
" <i>haysii</i>	6, 26
" <i>maayanus</i>	26
" <i>terrestris</i>	26
" <i>villosus</i>	26
<i>Taxeopoda</i> , order defined	12
Teeth of <i>dinotherium</i>	31, 32
" <i>elephas</i>	31, 33
" <i>lorodon</i>	31
" <i>mastodon</i>	31, 32
" <i>rodentia</i>	36
" <i>ruminantia</i>	14
Terrace epoch	4
<i>Thinohyus</i> , genus defined.	17
Tiger, saber-toothed	5
<i>Tylopoda</i> , examples of.	21
<i>Ungulata</i> , definition of.	11
" evolution of.	11, 13
" orders of.	12
" relation of, to other mammals	35
<i>Ursidæ</i> , Huxley on	35
<i>Vulpes</i>	7
Wart hogs, defined	17
Weasel, fossil.	5
Wolves, fossil	5, 9, 10, 40
Wortman, J. L., on coyote.	8
" " on evolution of hoofed quadrupeds	14
" " on the horse	29