The Bulletin of the Museum of Natural History of the University of Oregon is published to increase the knowledge and understanding of the natural history of Oregon. Original articles, both technical and popular in character, appear irregularly in consecutively numbered issues. Contributions arise primarily from the research programs and collections of the Condon Museum of Geology, the Oregon State Museum of Anthropology, and the University Herbarium, but are not restricted to those sources.

Communications concerning manuscripts or purchase of numbers of the Bulletin or other publications should be addressed to the Museum of Natural History, University of Oregon, Eugene, Oregon 97403. With orders by mail, please add $1.00 per order for postage and handling.

Cover—Oreodon superbus Leidy, as shown in Plate 1, Figure 1, of Joseph Leidy, Contributions to the Extinct Vertebrate Fauna of the Western Territories, 1873 (see Literature Cited).

Volume editor—Don E. Dumond

PUBLICATIONS
Museum of Natural History, University of Oregon
Eugene, Oregon

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<td>Guide to the Plants of the Wallowa Mountains of Northeastern Oregon, by Georgia Mason; 411 pages, illustrated. First printing December 1975; second printing March 1980</td>
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<td>No. 1 Cenozoic Stratigraphy of the Owyhee Region, Southeastern Oregon, by L.R. Kittleman and others; 45 pages, 9 plates, 11 figures, December 1965</td>
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<td>No. 2 Notes on Some Upper Miocene Shrews from Oregon, by J. H. Hutchinson; 23 pages, 17 figures, March 1966</td>
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[Continued inside back cover.]
TYPE SPECIMENS
AT THE UNIVERSITY OF OREGON:
FOSSIL VERTEBRATES AND PLANTS
TYPE SPECIMENS
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Fossil Vertebrates and Plants
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AT THE UNIVERSITY OF OREGON
Fossil Vertebrates and Plants

1974, Volume 1, Number 1, pages 21-54
Type Specimens at the University of Oregon: Fossil Vertebrates and Plants

by ERIC PAUL GUSTAFSON and JOYCE EATON

INTRODUCTION

A published list of type specimens such as this serves several purposes. First and foremost it is intended to allow quick access to the type holdings of a museum and to the basic information that is present in the museum files. Secondly, it allows some evaluation of the scientific value of a given collection. This latter can be particularly significant in the case of a collection such as that at the University of Oregon, which is of considerable size (13th in the United States in terms of total catalogued specimens of fossil vertebrates as of 1977, according to Langston et al., 1978) but is off the beaten paths which in Vertebrate Paleontology lead back and forth between California and the northeastern states. We hope that this publication will also serve as a bibliographic introduction to the widespread literature on fossil vertebrates from Oregon. It certainly will not serve as a complete guide to fossil vertebrate type specimens from the State of Oregon; these are widespread in other collections and only a small fraction of the taxonomic work on the various fossil faunas had been done here.

The large collection of fossil plant materials at the University of Oregon, mostly leaf impressions, is poorly documented in the literature. Thus, there is relatively little to report in the way of type specimens. Much of the bibliographic work involved in this publication was done by Joyce Eaton in early 1978 while helping to reexamine and improve the curation of the UO type collections. The organization and editing of this list are entirely the responsibility of the senior author.

HISTORY OF THE COLLECTIONS

At the date of this publication, the specimens here-in listed are housed in the University of Oregon Museum of Natural History building, but are a separate administrative responsibility under the title of Condon Museum of Geology in the Department of Geology. The history of these collections has some complications. Originally the “University of Oregon’s collection” was, in fact, the private collection of Dr. Thomas Condon, one of the first members of the faculty of the University when it was organized in 1876. He had begun his collecting activities in the 1840’s, but his collection of vertebrate fossils was begun while he was a minister at The Dalles, Oregon, in the 1860’s. When Dr. Condon died in 1907 his large collection remained with the University, and when purchased in 1909 from his heirs, it became the Condon Museum of Geology. In 1936 the Condon Collection (with some additions) was added to the newly organized University of Oregon Museum of Natural History. The bulk of the present collection was added in the years 1946-1971 when Dr. J. Arnold Shorwell was Curator of the collections and (for some of those years) Director of the museum. In September of 1977 the old Condon Museum collection and other specimens related to geology and paleontology were placed in the care of the Department of Geology as part of a general reorganization of the museums.

CONTENT OF THIS CATALOG

Only those specimens listed in the original publications as types, holotypes, cotyes, or paratypes, are listed here. The Condon Museum collections contain between 800 and 1000 hypotypes (described, figured, or listed specimens) which could not be included. Entries to the list follow this pattern: The specific name is listed in boldface type as originally published, followed by the most recent revision (if any) in italics. Then follows the type status, the specimen number and description, the locality number and description as originally given, the stratigraphic position, the age (as originally given and as revised), the collector, and any comments that seem necessary or desirable for understanding the history of the specimen.
**Phylum CHORDATA**

**Subphylum VERTEBRATA**

**Class OSTEICHTHYES**

**Order SILURIFORMES**

**Family Ictaluridae**

*Ictalurus peregrinus* Lundberg, 1975  
*Type status—Holotype  
Specimen—F-28035, left pectoral spine 28.3 mm in length.  
Locality—UO 2337, Sec. 11 (14 in original pub.), T21S, R37E, WM, Black Butte local fauna.  
Stratigraphic position—upper member of Juntura Formation, Malheur County, Oregon.  
Age—Clarendonian, Lower Pliocene (Upper Miocene).  
Collector—Shotwell.

**Order SALMONIFORMES**

**Family Salmonidae**

*Smilodonichthys rastrosus* Cavender and Miller, 1972  
*Type status—Holotype  
Specimen—F-26799, skull with jaws and anterior gill arches.  
Locality—VO 2250, gravel quarry just southwest of Gateway, Madras Quadrangle, Jefferson County, Oregon.  
Stratigraphic position—Madras Formation (also called Deschutes Fm. in some publications), from a sand lens within the "torrential gravels" in the lower part of the quarry.  

*Smilodonichthys rastrosus* Cavender and Miller, 1972  
*Type status—Paratype  
Specimen—F-3335, associated bones from a single individual, including crushed neurocranium, left and right mandibles and premaxillae, about 40 vertebrae, etc.  
Locality—VO 2250, same as holotype.  
Stratigraphic position—same as holotype.  
Collector—J. A. Shotwell, 1950.

**Class AMPHIBIA**

**Order CAUDATA**

**Family Salamandridae**

*Paleotaricha oligocenica* van Frank, 1955  
*Type status—Holotype  
Specimen—F-5405, complete skeleton on slab.  
Locality—UO 2715, Plant-bearing tuffs (locality of "Willamette Flora") 3 miles southeast of Eugene, 3/4 mile north of Goshen, Lane County, Oregon.  
Stratigraphic position—Tuffaceous shales and sandstones apparently overlying the Fisher and Eugene Formations.  
Age—Upper Oligocene.  
Collector—George Moodhead, 1951.

**Class AVES**

**Order GALLIFORMES**

**Family Phasianidae**

*Lophortyx shotwelli* Brodkorb, 1958  
*Type status—Holotype  
Specimen—F-3611, proximal portion of left humerus.  
Locality—UO 2222, East bank of McKay Reservoir, Pendleton Quadrangle, Umatilla County, Oregon.  
Stratigraphic position—Tuffaceous sandstone filling a channel cut into upper flows of the Yakima Basalt.  
Age—Pliocene, Hemphillian (probably very late Hemphillian).  

**Order CHARADRIIFORMES**

**Family Scolopacidae**

*Bartramia umatilla* Brodkorb, 1958  
*Type status—Holotype  
Specimen—F-3727, right carpometacarpus.  
Locality—UO 2222, east bank of McKay Reservoir, Pendleton Quadrangle, Umatilla County, Oregon.  
Stratigraphic position—Tuffaceous sandstone in channel cut into Yakima Basalt.  
Age—Pliocene, Hemphillian (probably very late Hemphillian).  

**Order PELECANIFORMES**

**Family Phalacrocoracidae**

*Phalacrocorax leptopus* Brodkorb, 1961  
*Type status—Holotype  
Specimen—F-3730, complete skeleton on slab.  
Locality—UO 2715, Plant-bearing tuffs (locality of "Willamette Flora") 3 miles southeast of Eugene, 3/4 mile north of Goshen, Lane County, Oregon.  
Stratigraphic position—Tuffaceous shales and sandstones apparently overlying the Fisher and Eugene Formations.  
Age—Upper Oligocene.  
Collector—George Moodhead, 1951.
Specimen—F-7994, proximal half of left tarsometatarsus. 
Locality—UO 2360, Malheur County, Oregon. 
Stratigraphic position—Upper member of Juntura Formation. 
Age—Lower Pliocene, Clarendonian (Upper Miocene). 

Order ARDEIFORMES
Family Palaelodidae

*Megapaloelodus opsigonus* Brodkorb, 1961
Type status—Holotype 
Specimen—F-5459, proximal end of left tarsometatarsus. 
Locality—UO 2334, SW 1/4, Sec. 7, T21S, R38E, WM, Malheur County, Oregon. 
Stratigraphic position—Upper member of Juntura Formation. 
Age—Lower Pliocene, Clarendonian (Upper Miocene). 
Collector—Shotwell and Alvey, 1954.

Order ANSERIFORMES
Family Anatidae

*Eremochen russelli* Brodkorb, 1961
Type status—Holotype 
Specimen—F-5414 and F-5424, proximal part of humerus. 
Locality—UO 2335, SW 1/4, Sec. 7, T21S, R38E, WM, Malheur County, Oregon. 
Stratigraphic position—Upper member of Juntura Formation. 
Age—Lower Pliocene, Clarendonian (Upper Miocene). 
Collector—Shotwell and Alvey, 1954.

*Eremochen russelli* Brodkorb, 1961
Type status—Paratype 
Specimen—F-5672, coracoid. 
Locality—UO 2338, W Sec. 11, T21S, R37E, WM, Malheur County, Oregon. 
Stratigraphic position—Juntura Formation, upper member, 50 feet below pumice band. 
Age—Lower Pliocene, Clarendonian (Upper Miocene). 
Collector—Shotwell and Alvey, 1954.

*Querquedula pullulans* Brodkorb, 1961
Type status—Holotype 
Specimen—F-6289, proximal part of left carpo-metacarpus. 
Locality—UO 2337, Sec. 11, T21S, R37E, Malheur County, Oregon. 
Stratigraphic position—Upper member of Juntura Formation. 
Age—Lower Pliocene, Clarendonian (Upper Miocene). 
Collector—Shotwell, 1954.

*Ocyplonessa shotwelli* Brodkorb, 1964
Type status—Holotype 
Specimen—F-11291 and F-10485, distal part of left tarsometatarsus. 
Locality—UO 2337, Sec. 11, T21S, R37E, WM, Malheur County, Oregon. 
Stratigraphic position—Upper member of Juntura Formation. 
Age—Lower Pliocene, Clarendonian (Upper Miocene). 
Collector—Shotwell, 1954.

Order RALLIFORMES
Family Rallidae

*Fulica intelix* Brodkorb, 1961
Type status—Holotype 
Specimen—F-5758, distal portion of left tibiotarsus. 
Locality—UO 2341, Malheur County, Oregon. 
Stratigraphic position—Upper member of Juntura Formation, immediately below the pumice band. 
Age—Lower Pliocene, Clarendonian (Upper Miocene). 
Collector—Shotwell, 1954.

Class MAMMALIA
Order INSECTIVORA
Family Soricidae

*Alluviosorex arcadentes* Hutchison, 1966
Type status—Holotype 
Specimen—F-22307, left dentary with L3-M2. 
Locality—UO 2465, west side of Quartz Basin, center of Sec. 33, T24S, R43E, WM, Malheur County, Oregon. 
Stratigraphic position—Deer Butte Formation. 
Age—Miocene, Barstovian. 

*Trimylus mawbyi* Repenning, 1967
Type status—Holotype 
Specimen—F-10486, right mandible with I, P1, P4, M1. 
Locality—5 miles southwest of south end of Guano Lake, and about 25 miles southwest of Beauty Butte, Lake County, Oregon. 
Stratigraphic position—not known. 
Age—Miocene, Barstovian. 
*Paradomnina relictus* Hutchison, 1966
  Type status—Holotype
  Specimen—F-24279, left mandible with P3-M4.
  Locality—UO 2495, Skull Springs, SE corner Sec. 10, T23S, R40E, WM, Malheur County, Oregon.
  Stratigraphic position—Butte Creek Volcanic Sandstone.
  Age—Miocene (Barstovian).

*Ingentisorex tumididens* Hutchison, 1966
  Type status—Holotype
  Specimen—F-21960, left mandible with P4-M2.
  Locality—UO 2465, west side of Quartz Basin, center of Sec. 33, T24S, R43E, WM, Malheur County, Oregon.
  Stratigraphic position—Deer Butte Formation.
  Age—Miocene (Barstovian).

*Mystiperus (Mystiperus) pacificus* Hutchison 1968
  Type status—Holotype
  Specimen—F-22438, incomplete left dentary with P4-M2, roots of P~ and posterior half of P3.
  Locality—UO 2465, Quartz Basin, west side, center of Sec. 33, T24S, R43E, WM, Malheur County, Oregon.
  Stratigraphic position—Deer Butte Formation.
  Age—Miocene (Barstovian).

*Scaploepdes ripafodiator* Hutchison 1968
  Type status—Holotype
  Specimen—F-22488, right mandible with I2 and P1-M1.
  Locality—UO 2465, Quartz Basin, west side, center of Sec. 33, T24S, R43E, WM, Malheur County, Oregon.
  Stratigraphic position—Deer Butte Formation.
  Age—Miocene (Barstovian).

*Scapanos (Xeroscapheus) proceridens* Hutchison 1968
  Type status—Holotype
  Specimen—UO F-22503, right mandible with I2, P1, M1.
  Stratigraphic position—Butte Creek Volcanic Sandstone.
  Age—Miocene (Barstovian).

*Archynopecten longirostris* Hutchison, 1968
  Type status—Holotype
  Specimen—UO F-22412, left mandible with P4-M3.
  Locality—UO 2465, Quartz Basin, west side, center of Sec. 33, T24S, R43E, WM, Malheur County, Oregon.
  Stratigraphic position—Deer Butte Formation.
  Age—Miocene (Barstovian).

*Neurotrichus columbianus* Hutchison 1968
  Type status—Holotype
  Specimen—UO F-24816, nearly complete right mandible.
  Locality—UO 2222, McKay Reservoir, east bank, Pendleton Quad., Umatilla County, Oregon.
  Stratigraphic position—Tuffaceous sandstone in channel cut into upper Yakima Basalt.
  Age—Pliocene (Hemphillian).
  Collector—Shotwell, 1949.

*Hydrocephalus americanus* Shotwell, 1956
  Type status—Holotype
  Specimen—F-4101, humerus.
  Locality—UO 2222, McKay Reservoir, Pendleton Quad., Umatilla County, Oregon.
  Stratigraphic position—Tuffaceous sandstone in channel cut into upper Yakima Basalt.
  Age—Pliocene (Hemphillian).
  Collector—Shotwell, 1949.

*Hydrocephalus americanus* Shotwell, 1956
  Type status—Paratypes
  Specimen—F-3206, clavicle; F-2698, femur; F-2456, tibia-fibulae.
  Locality—UO 2222, same as holotype.
  Age—Pliocene (Hemphillian).
  Collector—Shotwell, 1949.

Order RODENTIA

*Scapanos (Xeroscapheus) proceridens* Hutchison 1968
  Type status—Holotype
  Specimen—F-24279, left mandible with P4-M4.
  Locality—UO 2495, Skull Springs, SE corner Sec. 10, T23S, R40E, WM, Malheur County, Oregon.
  Stratigraphic position—Butte Creek Volcanic Sandstone.
  Age—Miocene (Barstovian).

*Scapanos (Xeroscapheus) proceridens* Hutchison 1968
  Type status—Holotype
  Specimen—UO F-22412, left mandible with P4-M3.
  Stratigraphic position—Butte Creek Volcanic Sandstone.
  Age—Miocene (Barstovian).
Specimen - F-4734, left mandible with P4-M3. 
Locality - UO 2273, along Haystack Creek, 3 miles NE of Spray, Wheeler County, Oregon. 
Stratigraphic position - John Day Formation (lower part of upper member), from a slump block. 
Age - Miocene (Arikareean). 
Collector - Shotwell et al. 1946.

*Citellus (Otospermophilus) wilsoni* Shotwell, 1956
Type status - Paratype 
Specimen - F-3596, crushed skull and lower jaws, fore and hind feet, radii and ulna, distal tibia. 
Locality - UO 2222, McKay Reservoir, east bank, Pendleton Quad., Umatilla, Oregon. 
Stratigraphic position - Tuffaceous sandstone in channel cut into Yakima Basalt. 
Age - Pliocene (Hemphillian). 
Collector - Shotwell, 1949.

*Marmota oregonensis* Shotwell, 1956
Type status - Holotype 
Specimen - F-3625, left M1. 
Locality - UO 2222, McKay Reservoir, east bank, Pendleton Quad., Umatilla, County, Oregon. 
Stratigraphic position - Tuffaceous sandstone in channel cut into Yakima Basalt. 
Age - Pliocene (Hemphillian). 
Collector - Shotwell, 1949.

*Marmota oregonensis* Shotwell, 1956
Type status - Paratype 
Specimen - F-3626, right M1. 
Locality - UO 2222, McKay Reservoir, east bank, Pendleton Quad., Umatilla County, Oregon. 
Stratigraphic position - Same as holotype. 
Age - Pliocene (Hemphillian). 
Collector - Shotwell, 1949.

*Citellus (Citellus) mckayensis* Shotwell, 1956
Type status - Holotype 
Specimen - F-3621, left mandible fragment with M1. 
Locality - UO 2222, McKay Reservoir, east bank, Pendleton Quad. Umatilla County, Oregon. 
Stratigraphic position - Tuffaceous sandstone in channel cut into Yakima Basalt. 
Age - Pliocene (Hemphillian). 
Collector - Shotwell, 1949.

*Citellus (Otospermophilus) wilsoni* Shotwell, 1956
Type status - Holotype 
Specimen - F-4091, right lower jaw with P4-M3. 
Locality - McKay Reservoir, east bank. Pendleton Quad., Umatilla County, Oregon. 
Stratigraphic position - Tuffaceous sandstone in channel cut into Yakima Basalt. 
Age - Pliocene (Hemphillian). 
Collector - Shotwell, 1949.

*Protosciurus condoni* Black, 1963
Type status - Holotype 
Specimen - F-5111, partial right mandible with P4-M2. 
Locality - Exact locality not recorded. 
Stratigraphic position - John Day Formation. 
Age - Late Oligocene or, more probably, early Miocene. 
Collector - Thomas Condon, 1870.

*Citellus junirensis* Shotwell, 1963
Type status - Hypotype 
Specimen - F-5039, right lower jaw with incisor and P4. 
Locality - Turtle Cove, exact horizon not recorded. 
Stratigraphic position - John Day Formation. 
Age - Probably early Miocene. 
Collector - Thomas Condon (?), 1869.

*Leptodontomys oregonensis* Shotwell, 1956
Type status - Holotype 
Specimen - F-3633, right lower jaw with incisor and P4. 
Locality - UO 2222, McKay Reservoir, east bank, Pendleton Quad., Umatilla County, Oregon. 
Stratigraphic position - Tuffaceous sandstone in channel cut into Yakima Basalt. 
Age - Pliocene (Hemphillian). 
Collector - J. A. Shotwell, 1956.

*Adjidaumo quartzi* Shotwell 1967
Type status - Holotype 
Specimen - UO 22689, partial right mandible with P4-M2. 
Locality - UO 2465, Quartz Basin, west side, Center of Sec. 33, T24S, R43E, WM, Malheur County, Oregon. 
Stratigraphic position - Deer Butte Formation. 
Age - Miocene (Barstovian). 

*Pseudotheridomys pagei* Shotwell 1967
Type status - Holotype
**Parapliosaccomys oregonensis** Shotwell, 1967

*Type status*—Holotype

*Specimen*—VO 3631.

*Locality*—VO 2222, McKay Reservoir, east bank; Pendleton Quad., Umatilla County, Oregon.

*Stratigraphic position*—Channel cut into upper Yakima Basalt.

*Age*—Pliocene (Hemphillian).

*Collector*—A. Shotwell, 1949.

**Perognathus sargenti** Shotwell, 1956

*Type status*—Holotype

*Specimen*—F-4072, left mandible with P₄–M₂ and incisor.

*Locality*—VO 2222, McKay Reservoir, east bank; Pendleton Quad., Umatilla County, Oregon.

*Stratigraphic position*—Tuffaceous sandstone in channel cut into upper Yakima Basalt.

*Age*—Pliocene (Hemphillian).

*Collector*—J. A. Shotwell, 1959.

**Dipoides smithi** Shotwell, 1955

*Type status*—Paratypes

*Specimen*—F-6683, right lower jaw with P₄–M₂.

*Locality*—VO 2352, Juniper Creek Canyon, west side, Malheur County, Oregon.

*Stratigraphic position*—Juntura Formation, Upper Member.

*Age*—Clarendonian, early Pliocene (late Miocene).


**Eucastor malheurensis** Shotwell, 1963

*Type status*—Holotype

*Specimen*—VO 21626, right lower jaw with P₄–M₂.

*Locality*—VO 2352, Juniper Creek Canyon, west side, Malheur County, Oregon.

*Stratigraphic position*—Juntura Formation, Upper Member.

*Age*—Clarendonian, early Pliocene (late Miocene).


**Castor accessor** Hay, 1927 (Shotwell, 1970).

*Type status*—Plesiotype

*Specimen*—VO 2226, unconsolidated, crossbedded sand lens; Grand View Fauna, Jackass Butte, Idaho.

*Stratigraphic position*—Glenns Ferry Formation.

*Age*—late Pliocene.

*Collector*—Shotwell, 1958.

**Hystricops browni** Shotwell, 1963

*Type status*—Holotype

*Specimen*—F-15696, associated partial dentition, with P₄–M₁ on each side.

*Locality*—VO 2239, T21S, R35E; on highway 54 east of Burns, Harney County, Oregon.

*Stratigraphic position*—Drewsey Formation.

*Age*—Pliocene (Hemphillian).

*Collector*—Eriksson, 1952.

**Monosaulax typicus** Shotwell, 1968

*Type status*—Holotype

*Specimen*—VO 21767.

*Locality*—VO 2352, Juniper Creek Canyon, west side, Malheur County, Oregon.

*Stratigraphic position*—Butte Creek Volcanic Sandstone.

*Age*—Miocene (Barstovian).

*Collector*—Shotwell, 1961.

**Dipoides vallirela** Shotwell, 1970

*Type status*—Holotype

*Specimen*—VO 2226, unconsolidated, crossbedded sand lens; Grand View Fauna, Jackass Butte, Idaho.

*Stratigraphic position*—Glenns Ferry Formation.

*Age*—late Pliocene.

*Collector*—Shotwell, 1958.
Specimen—UO 26695, left mandible with P4—M3.
Locality—UO 2516, Little Valley, screening site #6406; Mitchell Butte Quad., Malheur County, Oregon.
Stratigraphic position—Chalk Butte Formation.
Age—Pliocene (Hemphillian).

*Prosomys mimus* Shotwell, 1956
Type status—Holotype
Specimen—F-3667, right mandible with incisor and M1—2.
Locality—VO 2222, McKay Reservoir, east bank; Pendleton Quad., Umatilla County, Oregon.
Stratigraphic position—Tuffaceous sandstone in channel cut into Yakima Basalt.
Age—Pliocene (Hemphillian).
Collector—Shotwell, 1949.

*Peromyscus pagei* Shotwell, 1967
Type status—Holotype
Specimen—CO 26920, mandible with incisor and M1—2.
Locality—UO 2516, Little Valley, screening site #6406; Mitchell Butte Quad., Malheur County, Oregon.
Stratigraphic position—Chalk Butte Formation.
Age—Miocene (Barstovian).

*Peromyscus valensis* Shotwell, 1967
Type status—Holotype
Specimen—CO 26920, mandible with incisor and M1—2.
Locality—UO 2516, Little Valley, screening site #6406; Mitchell Butte Quad., Malheur County, Oregon.
Stratigraphic position—Chalk Butte Formation.
Age—Pliocene (Hemphillian).

Order LAGOMORPHA

*Ochotona spanglei* Shotwell, 1956
Type status—Holotype
Specimen—F-4094, left lower jaw with P4—M3.
Locality—UO 2222, McKay Reservoir, east bank; Pendleton Quad., Umatilla County, Oregon.
Stratigraphic position—Tuffaceous sandstone in channel cut into Yakima Basalt.
Age—Pliocene (Hemphillian).
Collector—Shotwell, 1949.

*Hypolagus oregonensis* Shotwell, 1956
Type status—Paratypes
Specimen—F-4099, right maxilla fragment with P2; F-2702, F-2007, F-4037, F-2006, F-3064, F-2005, F-2663, F-2663, all lower jaws.
Locality—UO 2222, McKay Reservoir, east bank; Pendleton Quad., Umatilla County, Oregon.
Stratigraphic position—same as holotype.
Age—Pliocene (Hemphillian).
Collector—Shotwell, 1949.

*Canis rurestris* Condon, 1896
*Tomarctus rurestris* (Condon, 1896) Downs, 1956
Type Status—Holotype
Specimen—UO 23077, skull and associated mandible.
Locality—Cottonwood Creek, John Day Valley, Grant County, Oregon.
Stratigraphic position—Mascall Formation, type locality.
Age—Miocene (Hemmingfordian, or possibly early Barstovian).
Collector—Thomas Condon, about 1870.

*Sthenictus junturensis* Shotwell, 1963
Type Status—Holotype
Specimen—F-4699, left lower jaw with P4—M3.
Locality—UO 2344, Malheur County, Oregon.
Stratigraphic position—Juntura Formation, Upper Member.
Age—Early Pliocene (Clarendonian).
Collector—Shotwell and Alvey.

*Martes (Plionictis) oregonensis* Shotwell, 1970
Type Status—Holotype
**Felis longignathus** Shotwell, 1956
Type status—Holotype
Specimen—F-2620, left lower jaw with \( C \), \( P_4 \), \( M_1 \).
Locality—UO 2222, McKay Reservoir, Pendleton Quad., Umatilla County, Oregon.
Stratigraphic position—Tuffaceous sandstone in channel in Yakima Basalt.
Age—Pliocene (Hemphillian).
Collector—Shotwell, 1949.

*Desmatophoca oregonensis* Condon, 1906
Type status—Holotype
Specimen—F-00735.
Locality—UO 1153, Nye Beach, just west of Newport, Oregon.
Stratigraphic position—Astoria Formation.
Age—Middle Miocene.
Collector—Thomas Condon, before 1906.

**Mammut (Pliomastodon) furlongi** Shotwell, 1963
Type Status—Holotype
Specimen—F-10291, mandible with \( M_1 - 3 \) of both sides.
Locality—UO 2448, Quarry 3, Malheur County, Oregon.
Stratigraphic position—Juntura Formation, Upper Member.
Age—Early Pliocene (Clarendonian).
Collector—Shotwell, 1956.

**Cophocetus oregonensis** Packard, 1934
Type status—Holotype
Specimen—F-30830, skull, parts of both forelimbs, vertebrae, innominate, and a few ribs.
Locality—UO 1151, Newport, SE1\#, Sec. 7, T11S, R11W, WM, Lincoln County, Oregon.
Stratigraphic position—Astoria Formation.
Age—Middle Miocene.

**Colodon (?) hancecki** Radiisky, 1963
Type Status—Holotype
Specimen—UO 20377, partial skull.
Locality—UO 2473, Clarno Mammal Quarry, Wheeler County, Oregon.
Age—Early Oligocene (early Chadronian).
Collector—Shotwell (?) 1960.

*Hipparion condoni* Merriam, 1915
Type status—Holotype
Specimen—F-4672 Condon Collection.
Locality—Stone quarry at Ellensburg, Washington.
Stratigraphic position—Ellensburg Formation.
Age—Miocene.
Collector—Sent to Condon by W. R. Abrams before 1902.

Order **PERISSODACTYLA**

*Prosthennops brachirostris* Shotwell, 1956
Type Status—Holotype
Specimen—F-2767, palate with canines and all cheek teeth.
Locality—UO 2222, McKay Reservoir, Pendleton Quad., Umatilla County, Oregon.
Stratigraphic position—Tuffaceous sandstone in channel cut into Yakima Basalt.
Age—Pliocene (Hemphillian).
Collector—Shotwell, 1949.

*Prosthennops brachirostris* Shotwell, 1956
Type status—Paratype
Specimen—F-3585, lower jaw with canines, \( P_4 - M_3 \).
Locality—UO 2222, McKay Reservoir, east bank, Pendleton Quad., Umatilla County, Oregon.
Stratigraphic position—Tuffaceous sandstone in channel cut into Yakima Basalt.
Age—Pliocene (Hemphillian).
Collector—Shotwell, 1949.

*Dicotyles pristinus* Leidy, 1873
Perchoerus pristinus (Leidy, 1873) Cope and Matthew, 1915
Type status—Holotype
Specimen—F-5049, skull.
Locality—NFJD, North Fork of John Day River, eastern Oregon.
Stratigraphic position—John Day Formation.
Age—Miocene.
Collector—Thomas Condon.

*Palaeochoerus subaequans* Cope, 1879
Perchoerus subaequans (Cope, 1879) Cope and Matthew, 1915
Type status—Holotype
Specimen—F-669.
Locality—UO NFJD, North Fork of John Day River, eastern Oregon.
Stratigraphic position—John Day Formation.
Age—Miocene (Late Arikareean).
Collector—Thomas Condon.

*Chaenothyris decedens* Cope, 1879
Perchoerus decedens (Cope, 1879) Cope and Matthew, 1915.
Type status—Holotype
Specimen—F-669.
Locality—UO NFJD, North Fork of John Day River, eastern Oregon.
Stratigraphic position—John Day Formation.
Age—Miocene (Late Arikareean).
Collector—Thomas Condon.

*Oreodon superbus* Leidy, 1870
Promerychoerus superbus (Leidy, 1870) Douglass, 1901
Type status—Holotype
Specimen—F-5146, F-5147, F-5148, F-5342, F-5361, mutilated skull (Condon yellow numbers 718, 721, 723, 726, and 727).
Locality—Bridge Creek, John Day Basin, Oregon.
Stratigraphic position—John Day Formation.
Age—Miocene (Late Arikareean).
Collector—Thomas Condon.

*Oreodon superbus* Leidy, 1870
Promerychoerus superbus (Leidy, 1870) Douglass, 1901
Type status—Cotype
Specimen—F-684.
Locality—Turtle Cove, John Day Basin, Oregon.
Stratigraphic position—John Day Formation.
Age—Miocene (Late Arikareean).
Collector—Thomas Condon.

Family Awaroideae

*Rhus varians* Lakhanpal, 1958
Type status—Syntype
Specimen—F-4290, 5 leaflets around stem.
Locality—UO 2715, Willamette Flora, 1/4 mile north of Goshen, Lane County, Oregon.
Stratigraphic position—? Eugene Formation (tuffaceous shales and sandstone, which may overlie Eugene Fm., Fisher Fm., or both).
Age—Oligocene.
Collector—Chaney.

*Rhus varians* Lakhanpal, 1958
Type status—Syntype
Specimen—F-4291, single leaflet on slab.

*Plants*

*Rhus varians* Lakhanpal, 1958
Type status—Syntype
Specimen—F-4290, 5 leaflets around stem.
Locality—UO 2715, Willamette Flora (as above).
Stratigraphic position—? Eugene Formation (see above).
Age—Oligocene.
Collector—Chaney.
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