

CWU Comparative Osteology Collection, List of Specimens

List updated November 2019

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Specimens collected primarily from North American mid-continent and coastal Alaska for zooarchaeological research and teaching purposes. Curated at the Zooarchaeology Laboratory, Department of Anthropology, Central Washington University, under the direction of Dr. Pat Lubinski, Pat.Lubinski@cwu.edu. Facility is located in Dean Hall Room 222 at CWU's campus in Ellensburg, Washington.

Numbers on right margin provide a count of complete or near-complete specimens in the collection. Specimens on loan from other institutions are not listed. There may also be a listing of *mount* (commercially mounted articulated skeletons), *part* (partial skeletons), *skull* (skulls), or * (in freezer but not yet processed).

Vertebrate specimens in taxonomic order, then invertebrates. Taxonomy follows the Integrated Taxonomic Information System online (www.its.gov) as of June 2016 unless otherwise noted.

VERTEBRATES:

Phylum Chordata, Class Petromyzontida (lampreys)

Order Petromyzontiformes

Family Petromyzontidae:

Pacific lamprey *Entosphenus tridentatus* 1

Phylum Chordata, Class Chondrichthyes (cartilaginous fishes)

unidentified shark teeth 3

Order Squaliformes

Family Squalidae

Spiny dogfish *Squalus acanthias* 1

Order Rajiformes

Family Rajidae

Aleutian skate *Bathyraja aleutica* 1

Alaska skate *Bathyraja parmifera* 1

Phylum Chordata, Class Actinopterygii (ray-finned fishes)

Order Acipenseriformes:

Family Acipenseridae:

White sturgeon *Acipenser transmontanus* 1

Order Clupeiformes:

Family Clupeidae

Pacific herring *Clupea pallasii* 1

Order Cypriniformes:

Family Cyprinidae

Common carp *Cyprinus carpio* 1

cf. Eurasian dace *c.f. Leuciscus leuciscus* 1

Peamouth *Mylocheilus caurinus* 2

Northern pikeminnow *Ptychocheilus oregonensis* 3

Umpqua pikeminnow *Ptychocheilus umpquae* 1

Tui chub *Siphateles bicolor* part

Family Catostomidae

Utah sucker *Catostomus ardens* 2

Bridgelip sucker *Catostomus columbianus* 5

White sucker *Catostomus commersoni* 2

Flannelmouth sucker *Catostomus latipinnis* 2

Largescale sucker	<i>Catostomus macrocheilus</i>	2
Mountain sucker	<i>Catostomus platyrhynchus</i>	1
Unidentified sucker	<i>Catostomus</i> sp.	1
Bigmouth buffalo	<i>Ictiobus cyprinellus</i>	1
Order Siluriformes:		
Family Ictaluridae		
cf. Channel catfish	cf. <i>Ictalurus punctatus</i>	2
Order Osmeriformes:		
Family Osmeridae:		
Rainbow smelt	<i>Osmerus mordax</i>	1
Order Salmoniformes:		
Family Salmonidae		
Unidentified cisco	cf. <i>Coregonus artedi</i>	1
Lake whitefish	<i>Coregonus clupeaformis</i>	1
Cutthroat trout	<i>Oncorhynchus clarkii</i>	1
Pink/Humpback salmon	<i>Oncorhynchus gorboscha</i>	1
Chum/Dog salmon	<i>Oncorhynchus keta</i>	1
Steelhead/rainbow trout	<i>Oncorhynchus mykiss</i>	1+
Silver/Coho salmon	<i>Oncorhynchus kisutch</i>	3
Chinook/King salmon	<i>Oncorhynchus tshawytscha</i>	3
Bear Lake/Bonneville whitefish	<i>Prosopium abyssicola/spilanotus</i>	1
Bonneville cisco	<i>Prosopium gemmifer</i>	1
Mountain whitefish	<i>Prosopium williamsoni</i>	4
Bull trout	<i>Salvelinus confluentus</i>	1
Dolly Varden	<i>Salvelinus malma</i>	2
Lake trout	<i>Salvelinus namaycush</i>	1
Order Gadiformes:		
Family Merlucciidae		
Pacific hake	<i>Merluccius productus</i>	2
Family Gadidae		
Saffron cod	<i>Eleginus gracilis</i>	5
Pacific cod	<i>Gadus macrocephalus</i>	3
Walleye pollock	<i>Gadus chalcogramma</i>	4
Order Gasterosteiformes:		
Family Gasterosteidae		
Three-spine stickleback	<i>Gasterosteus aculeatus</i>	*
Order Scorpaeniformes:		
Family Scorpaenidae		
Rougeye rockfish	<i>Sebastes aleutianus</i>	1
Pacific Ocean perch	<i>Sebastes alutus</i>	1+
Redbanded rockfish	<i>Sebastes babcocki</i>	1
Copper rockfish	<i>Sebastes caurinus</i>	1
Northern rockfish	<i>Sebastes polyspinis</i>	1
Harlequin rockfish	<i>Sebastes variegatus</i>	1
Shortspine thornyhead	<i>Sebastolobus alascanus</i>	1
Family Anoplopomatidae:		
Sablefish (black cod)	<i>Anoplopoma fimbria</i>	3
Family Hexagrammidae:		
Kelp greenling	<i>Hexagrammos decagrammus</i>	2
Whitespotted greenling	<i>Hexagrammos stelleri</i>	2
Lingcod	<i>Ophiodon elongatus</i>	1
Atka mackerel	<i>Pleurogrammus monoptyerygius</i>	3

Family Cottidae		
Unidentified marine sculpin.....		1
Unidentified freshwater sculpin.....	<i>Cottus sp.</i>	1
Red Irish Lord.....	<i>Hemilepidotus hemilepidotus</i>	1
Yellow Irish Lord.....	<i>Hemilepidotus jordani</i>	2
Longfin Irish Lord.....	<i>Hemilepidotus zapus</i>	1
Great sculpin.....	<i>Myoxocephalus polyacanthocephalus</i>	1
Cabezon.....	<i>Scorpaenichthys marmoratus</i>	2
Family Psychrolutidae		
Darkfin sculpin.....	<i>Malacocottus zonurus</i>	2
Family Liparidae		
Variegated snailfish.....	<i>Liparis gibbus</i>	*
Peachskin snailfish.....	<i>Careproctus scottae</i>	1
Order Perciformes:		
Family Moronidae		
Striped bass.....	<i>Morone saxatilis</i>	1
Family Percidae		
Yellow perch.....	<i>Perca flavescens</i>	1 mount
Family Carangidae		
Blue runner.....	<i>Caranx crysos</i>	1
Family Sciaenidae		
Freshwater drum.....	<i>Aplodinotus grunniens</i>	1
Family Trichodontidae		
Pacific sandfish.....	<i>Trichodon trichodon</i>	2
Family Ammodytidae		
Pacific Sandlance.....	<i>Ammodytes personatus</i>	1
Family Scombridae		
Pacific Chub mackerel.....	<i>Scomber japonicus</i>	*
Order Pleuronectiformes:		
Family Paralichthyidae		
Pacific sanddab.....	<i>Citharichthys sordidus</i>	3
Family Pleuronectidae		
Arrowtooth flounder.....	<i>Atheresthes stomias</i>	1
Petrale sole.....	<i>Eopsetta jordani</i>	1
Rex sole.....	<i>Glyptocephalus zachirus</i>	1
Flathead sole.....	<i>Hippoglossoides elassodon</i>	1
Bering sole (flounder).....	<i>Hippoglossoides robustus</i>	1
Pacific halibut.....	<i>Hippoglossus stenolepis</i>	2
Rock sole.....	<i>Lepidopsetta bilineata</i>	2
Starry flounder.....	<i>Platichthyes stellatus</i>	1
Alaska plaice.....	<i>Pleuronectes quadrituberculatus</i>	2
Greenland halibut (turbot).....	<i>Reinhardtius hippoglossoides</i>	1

Phylum Chordata, Class Amphibia (amphibians)

Order Caudata:		
Family Proteidae		
Mudpuppy.....	<i>Necturus maculosus</i>	1 mount
Family Ambystomatidae		
Eastern Tiger salamander.....	<i>Ambystoma tigrinum</i>	1
Cascade torrent salamander.....	<i>Rhyacotriton cascadae</i>	part

Order Anura:		
Family Ranidae		
American Bullfrog.....	<i>Lithobates catesbeiana</i>	1 mount
American Bullfrog.....	<i>Lithobates catesbeiana</i>	2
Family Bufonidae		
Western toad.....	<i>Anaxyrus boreas</i>	2
Family Hylidae		
Pacific Tree frog.....	<i>Pseudacris regilla</i>	1

Phylum Chordata, Class Reptilia (reptiles)

Order Testudines:		
Family Chelydridae		
Common snapping turtle.....	<i>Chelydra serpentina</i>	1 shell
Family Emydidae		
Painted turtle.....	<i>Chrysemys picta</i>	part
Eastern box turtle.....	<i>Terrapene carolina</i>	3 shells
Pond Slider	<i>Trachemys scripta</i>	1+
cf. River cooter	cf. <i>Pseudemys concinna</i>	2
Order Squamata:		
Family Iguanidae		
Western fence lizard.....	<i>Sceloporus occidentalis</i>	2
Common Side-blotched lizard	<i>Uta stansburiana</i>	part
Family Anguidae		
Southern alligator lizard.....	<i>Elgaria multicarinata</i>	1
Family Boidae		
Northern Rubber boa.....	<i>Charina bottae</i>	1
Family Colubridae		
North American Racer	<i>Coluber constrictor</i>	1
Pine-gopher snake/gophersnake.....	<i>Pituophis catenifer</i>	3
Wandering/western/terrestrial gartersnake	<i>Thamnophis elegans</i>	1
Common gartersnake.....	<i>Thamnophis sirtalis</i>	2
Family Viperidae		
Copperhead.....	<i>Agkistrodon contortrix</i>	1 mount
Western/Prairie rattlesnake	<i>Crotalus viridis</i>	3

Phylum Chordata, Class Aves (birds)

Order Procellariiformes		
Family Procellariidae		
Northern Fulmar	<i>Fulmarus glacialis</i>	1
Order Pelecaniformes:		
Family Pelicanidae		
American White pelican.....	<i>Pelecanus erythrorhynchos</i>	part
Family Ardeidae		
Great blue heron	<i>Ardea herodias</i>	1
Order Anseriformes:		
Family Anatidae		
Green-winged teal	<i>Anas crecca</i>	1
Mallard duck.....	<i>Anas platyrhynchos</i>	3
Gadwall.....	<i>Anas strepera</i>	1
Redhead	<i>Aythya americana</i>	1
Lesser scaup.....	<i>Aythya affinis</i>	1
Canada goose.....	<i>Branta canadensis</i>	1

Bufflehead duck	<i>Bucephala albeola</i>	2
Goldeneye.....	<i>Bucephala</i> sp.....	1
Old squaw/Long-tailed duck.....	<i>Clangula hyemalis</i>	1
Hooded merganser.....	<i>Lophodytes cucullatus</i>	1
Common merganser.....	<i>Mergus merganser</i>	1
Order Accipitriformes:		
Family Accipitridae		
Sharp-shinned hawk.....	<i>Accipiter striatus</i>	1
Red-tailed hawk.....	<i>Buteo jamaicensis</i>	1
Northern harrier.....	<i>Circus cyaneus</i>	1
Family Pandionidae		
Osprey.....	<i>Pandion haliaetus</i>	1
Order Falconiformes:		
Family Falconidae		
American kestrel.....	<i>Falco sparverius</i>	1
Unidentified falcon.....	<i>Falco</i> sp.....	1
Order Galliformes:		
Family Phasianidae		
Ruffed Grouse	<i>Bonasa umbellus</i>	3
Sage grouse.....	<i>Centrocercus urophasianus</i>	2+
Sooty grouse	<i>Dendragapus obscurus</i>	1
Chicken (domestic)	<i>Gallus gallus</i>	1 mount
Chicken (domestic)	<i>Gallus gallus</i>	2
Rock ptarmigan	<i>Lagopus mutus</i>	1
Turkey (domestic).....	<i>Meleagris gallopavo</i>	1+
Ring-necked Pheasant (introduced).....	<i>Phasianus colchicus</i>	1
Family Odontophoridae		
California quail.....	<i>Callipepla californica</i>	3
Order Charadriiformes:		
Family Laridae		
Herring gull	<i>Larus argentatus</i>	1
Family Alcidae		
Common murre	<i>Uria aalge</i>	1
Order Columbiformes:		
Family Columbidae		
Domestic pigeon/Rock dove	<i>Columba livia</i>	part
Passenger pigeon.....	<i>Ectopistes migratorius</i>	part
Mourning dove	<i>Zenaida macroura</i>	3
Order Strigiformes:		
Family Strigidae		
Great horned owl.....	<i>Bubo virginianus</i>	3
Western screech owl.....	<i>Otus kennicottii</i>	1
Barred owl	<i>Strix varia</i>	1
Family Tytonidae		
Barn owl	<i>Tyto alba</i>	2
Order Coraciiformes:		
Family Alcedinidae		
Belted kingfisher	<i>Megaceryle alcyon</i>	1
Order Piciformes:		
Family Picidae:		
Northern flicker	<i>Colaptes auratus</i>	2
Hairy woodpecker	<i>Picoides villosus</i>	1

Red-breasted sapsucker	<i>Sphyrapicus ruber</i>	1
Order Passeriformes:		
Family Corvidae		
Crow/raven	<i>Corvus</i> sp	1
Black-billed magpie	<i>Pica hudsonia</i>	2
Family Alaudidae		
Horned lark	<i>Eremophila alpestris</i>	1
Family Turdidae		
Varied thrush	<i>Ixoreus naevius</i>	1
Robin	<i>Turdus migratorius</i>	2
Family Sturnidae		
European starling	<i>Sturnus vulgaris</i>	1
Family Cardinalidae		
Western tanager	<i>Piranga ludoviciana</i>	1
Family Icteridae		
Red-winged blackbird	<i>Agelaius phoeniceus</i>	1
Western meadowlark	<i>Sturnella neglecta</i>	1
Family Fringillidae		
House finch	<i>Carpodacus mexicanus</i>	1
Evening grosbeak	<i>Hesperiphona vespertina</i>	1

Phylum Chordata, Class Mammalia (mammals)

Order Didelphimorphia:		
Family Didelphidae:		
Virginia Opossum	<i>Didelphis virginiana</i>	2
Order Rodentia:		
Family Sciuridae		
White-tailed prairie dog	<i>Cynomys leucurus</i>	1+
Northern flying squirrel	<i>Glaucomys sabrinus</i>	2
Yellowbellied marmot	<i>Marmota flaviventris</i>	4
Rock squirrel	<i>Otospermophilus variegatus</i>	1
Eastern gray squirrel	<i>Sciurus carolinensis</i>	1
Fox squirrel	<i>Sciurus niger</i>	skull
Least chipmunk	<i>Tamias minimus</i>	3
Red squirrel	<i>Tamiasciurus hudsonicus</i>	1
Townsend's ground squirrel	<i>Urocitellus townsendii</i>	2+
Unidentified ground squirrel	<i>cf. Urocitellus elegans</i>	1
Family Castoridae		
Beaver	<i>Castor canadensis</i>	3
Family Geomyidae		
Northern pocket gopher	<i>Thomomys talpoides</i>	4
Family Dipodidae		
Western jumping mouse	<i>Zapus princeps</i>	2
Family Cricetidae		
Sagebrush vole	<i>Lemmys curtatus</i>	1
Long-tailed vole	<i>Microtus longicaudus</i>	1
Meadow vole	<i>Microtus pennsylvanicus</i>	1
Southern red-backed vole	<i>Myodes gapperi</i>	1
Bushytailed woodrat	<i>Neotoma cinera</i>	2
Muskrat	<i>Ondatra zibethicus</i>	4
Deer mouse	<i>Peromyscus maniculatus</i>	1

Family Muridae		
House mouse	<i>Mus musculus</i>	1
Norway rat	<i>Rattus norvegicus</i>	1
Black rat	<i>Rattus rattus</i>	1+
Family Erethizontidae		
North American Porcupine	<i>Erethizon dorsatus</i>	2+
Family Myocastoridae		
Nutria (introduced)	<i>Myocastor coypus</i>	2 skulls
Order Lagomorpha		
Family Ochotonidae		
American Pika	<i>Ochotona princeps</i>	1
Family Leporidae		
Snowshoe hare	<i>Lepus americanus</i>	2
Blacktailed jackrabbit	<i>Lepus californicus</i>	1
Desert cottontail	<i>Sylvilagus audobonii</i>	1+
Eastern cottontail	<i>Sylvilagus floridanus</i>	1
Mountain cottontail	<i>Sylvilagus nuttallii</i>	1+
Order Soricimorpha		
Family Soricidae		
unidentified shrew	<i>Sorex sp.</i>	1
Family Talpidae		
Coast mole	<i>Scapanus orarius</i>	1
Townsend's mole	<i>Scapanus townsendii</i>	2
Order Chiroptera:		
Family Vespertilionidae:		
Myotis cf. little brown bat	<i>Myotis sp.</i>	1
Western smallfooted myotis	<i>Myotis ciliolabrum</i>	1
Order Carnivora:		
Family Felidae		
Domestic cat	<i>Felis catus</i>	2
Bobcat	<i>Lynx rufus</i>	2
Lion or tiger	<i>Panthera sp.</i>	skull
Mountain Lion	<i>Puma concolor</i>	2+
Family Canidae		
Coyote	<i>Canis latrans</i>	3+
Wolf	<i>Canis lupus</i>	skull
Domestic dog	<i>Canis lupus familiaris</i>	3+
Cf. Red fox	<i>c.f Vulpes vulpes</i>	part
Family Ursidae		
Black bear	<i>Ursus americanus</i>	1+
Grizzly bear	<i>Ursus arctos</i>	skull
Family Mustelidae		
North American river otter	<i>Lontra canadensis</i>	1
American marten	<i>Martes americana</i>	2
Domestic ferret/European Polecat	<i>Mustela putorius</i>	1
Weasel	<i>Mustela sp.</i>	*
American Mink	<i>Neovison vison</i>	4+
American Badger	<i>Taxidea taxus</i>	1+
Family Mephitidae		
Striped skunk	<i>Mephitis mephitis</i>	1+
Family Procyonidae		
Raccoon	<i>Procyon lotor</i>	4

Order Cingulata		
Family Dasypodidae		
Nine-banded Armadillo.....	<i>Dasypus novemeinctus</i>	part
Order Perissodactyla		
Family Equidae		
Horse.....	<i>Equus caballus</i>	1+
Order Artiodactyla:		
Family Suidae		
Domestic pig.....	<i>Sus scrofa</i>	2+
Family Cervidae		
Elk	<i>Cervus elaphus</i>	3
Mule deer.....	<i>Odocoileus hemionus</i>	3+
White-tailed deer.....	<i>Odocoileus virginianus</i>	2
Family Antilocapridae		
Pronghorn	<i>Antilocapra americana</i>	1+
Family Bovidae		
Bison.....	<i>Bison bison</i>	2
Domestic cattle.....	<i>Bos taurus</i>	1
Domestic goat.....	<i>Capra hircus</i>	2 (neo)
Domestic sheep.....	<i>Ovis aries</i>	4+
Bighorn sheep.....	<i>Ovis canadensis</i>	skull

INVERTEBRATES: (taxonomy *not* updated)

Phylum Mollusca, Class Polyplacophora (chitons)

Order Chitonida		
Family Mopaliidae		
Black Katy Chiton.....	<i>Katharina tunicata</i>	1
Hairy Mopalia.....	<i>Mopalia ciliata</i>	1

Phylum Mollusca, Class Gastropoda (single-shelled Molluscs)

Order Archaeogastropoda		
Family Fissurellidae		
Rough Keyhole Limpet.....	<i>Diodora aspera</i>	1
Family Callistomatidae		
Western Ribbed Topshell.....	<i>Calliostoma ligatum</i>	1
Order Neotaenioglossa		
Family Ranellidae		
Hairy Triton.....	<i>Fusitriton oregonensis</i>	1
Family Littorinidae		
Unidentified periwinkle	<i>Littorina</i> sp.....	1
Order Neogastropoda		
Family Muricidae		
unidentified dogwinkle.....	<i>Nucella</i> sp.....	1
Order Patellogastropoda		
Family Acmaeidae		
Unidentified limpet	unknown sp.....	1
White-cap Limpet.....	<i>Acmaea mitra</i>	1
Pacific Plate Limpet	<i>Notoacmea scutum</i>	1

Phylum Mollusca, Class Bivalvia (bivalves)

Order Mytiloidea
 Family Mytilidae
 Blue Mussel *Mytilus edulis* 2

Order Myoidea
 Family Myidae
 Unidentified gaper clam unknown sp 1

Order Veneroidea
 Family Veneridae
 Butter clam *Saxidomus gigantea* 1
 Pacific littleneck *Protothaca staminea* 2

 Family Mactridae
 Horse clam *Tresus capax* 2
 Alaska surf clam *Mactromeris polynyma* 2

 Family Cardiidae
 Unidentified cockle *Clinocardium* sp 2

 Family Pharidae
 Unidentified razor clam *Siliqua* sp 2

Order Ostreoidea
 Family Anomiidae
 False Pacific Jingle *Pododesmus macrochisma* 1

Phylum Echinodermata, Class Echinoidea (sea urchins & sand dollars)

Order Echinoida
 Family Strongylocentrotidae
 Sea urchin *Strongylocentrotus* sp part

Order Clypeasteroidea
 Family Dendrasteridae
 Eccentric sand dollar *Dendraster excentricus* 1