

**Appendix A: Reference collections utilized for measurements**

Tables A.1 and A.2 detail the distribution of specimens measured for this study, sub-totaled by sex and population origin. Table A.1 details the distribution of mandibles only, while Table A.2 details the distribution of post-cranial skeletons. Specimens are only included in both tables if age was known, or could be determined through examination of the canine. Specimens for which age was estimated from mandible length were not included in any of the von Bertalanffy growth curve calculations for the mandible. Finally, Table A.3 provides information on where the various collections are housed.

Table A.1 Counts of mandibles measured in this study, listed by museum collection, sex, and sample size (n), population origin, age range of samples, and range of dates over which specimens were collected. "Other" includes specimens of unknown provenience as well as animals collected in Japan, Washington, and Oregon whose population origin could not be determined. See Table A.3 for key to collection codes.

Collection	sex	n	population origin			age range	date range
			AK	CA	other*		
ACZ	M	2	2	-	-	pup	1998
CAS	F	21	5	15	1	pup	1917 - 1998
CAS	M	22	5	17	-	pup to sub-adult	1916 - 1997
MAE	F	2	2	-	-	pup and adult	1994, 1999
MAE	M	2	2	-	-	pup	1994, 1998
NMML	F	260	130	36	94	pup to adult	1949 - 2000
NMML	M	60	52	1	7	pup to adult	1947 - 2000
PSM	F	7	2	-	5	pup to adult	1933 - 1977
PSM	M	4	2	-	2	pup to adult	1948 - 1977
PSU	F	1	-	-	1	yearling	1998
USNM	F	112	55	-	57	pup to adult	1868 - 1951
USNM	M	318	290	-	28	pup to adult	1874 - 1950
WBM	F	1	1	-	-	yearling	1958
WBM	M	2	2	-	-	juvenile and adult	1947, 1958

Table A.2 Counts of post-cranial skeletons measured in this study, listed by museum collection, sex, and sample size (n), population origin, age range of samples, and range of dates over which specimens were collected. “Other” includes specimens of unknown provenience as well as animals collected in Japan, Washington, and Oregon whose population origin could not be determined. See Table A.3 for key to collection codes.

Collection	sex	n	population origin			age range	date range
			AK	CA	other*		
ACZ	M	2	2	-	-	pup	1998
CAS	F	14	6	8	-	pup	1917 - 1998
CAS	M	15	7	8	-	pup to sub-adult	1916 - 1997
MAE	F	2	2	-	-	pup and adult	1994, 1999
MAE	M	1	1	-	-	pup	1994, 1998
MCRC	F	3	-	-	3	yearling to adult	n.a.
NMML	F	9	4	1	4	pup to adult	1949 - 2000
NMML	M	7	1	3	3	pup to sub-adult	1947 - 2000
PSM	F	4	1	-	3	pup to adult	1933 - 1977
PSM	M	1	1	-	-	pup to adult	1948 - 1977
PSU	F	1	-	-	1	yearling	1998
UAA	M	1	-	-	1	juvenile	n.a.
USNM	F	8	7	-	1	pup to adult	1868 - 1951
USNM	M	19	11	-	8	pup to sub-adult	1874 - 1950
WBM	F	3	2	-	1	pup to adult	1958
WBM	M	5	5	-	-	sub-adult to adult	1947, 1958

Table A.3 Key to collection codes used in Tables A.1 and A.2.

<b>Collection Code</b>	<b>Collection Location</b>
ACZ	Alaska Consortium of Zooarchaeologists, Anchorage, Alaska
CAS	California Academy of Sciences, San Francisco, California
MAE	personal collection of the author, permit Nos. DOC-5340-FAK, NOA0000362
MCRC	Makah Cultural and Research Center, Neah Bay, Washington
NMML	National Marine Mammal Laboratory, Seattle, Washington
PSM	Slater Museum of Natural History, University of Puget Sound, Tacoma, Washington
PSU	Department of Biology, Portland State University, Portland, Oregon
UAA	Department of Anthropology, University of Alaska (Anchorage), Anchorage, Alaska
USNM	U.S. National Museum (a.k.a., Smithsonian Institution), Washington, D.C.
WBM	Burke Museum of Natural History and Culture, Seattle, Washington