Measurement Data from Zapus Morphometric Study for Set of 20* Low-Elevation Wyoming Specimens

Author Mary Conner; Funding provided by the United Stated Fish and Wildlife Service, Denver, Colorado.

These data are analyzed and summarized in:

Conner, M. M. and T. M. Shenk. 2002. Use of morphometric measurement to differentiate *Zapus hudsonius preblei* from *Zapus princeps princeps* in Colorado and southeastern Wyoming. Final Report for United States Fish and Wildlife Service, Denver Colorado.

Conner, M. M. and T. M. Shenk. 2003. Identifying *Zapus hudsonius preblei* from *Zapus princeps princeps* by using repeated cranial measurements. Journal of Mammalogy 84:1456-1463.

All animal information from museum records; e.g., species, age, sex are from specimen tags.

SPECIES: 0 = Z. p. princeps, 1 = Z. h. preblei, blank means not classified by a museum when the DFA was performed

LM1FOLD: 0 = absent, 1 = present

LM3WEAR: 0 = no wear (juvenile), 1 = some wear (adult)

See "Measurement Key" tab for key to measurement abbreviations.

Blank cells indicate no data or a skull break that made a measurement impossible, N/A means data not available on tag.

*** Note: Only 16 of the 20 specimens were classified by DFA due to skull damage and the resulting missing measurements.**

Sorted by Elevation+Catalogue Number

ORIGID	CATALOGUE NUMBER	MUSEUM	COLLECTION DATE	RECORDER	SPECIES	AGE	SEX	STATE	UTMX	UTMY	ELEVATION	CONLEN	ZYGBRE	LSTIOB	LSTIBW	MASMA	PALBRE	PALLEN	UTRLEN	LMTRLEN	IFLEN	IFWID	PM4WID	LM1FOLD	LM3WEAR
41	1827	WYFWS	7/20/1999	1		A	M	WY	488476	4606363	1835	20.14	11.02	4.16	1.88	8.67	3.12	8.36	4.14	4.09	4.21	1.82	0.48	1	1
42	1827	WYFWS	7/20/1999	1		A	M	WY	488476	4606363	1835	20.60	11.01	4.15	1.85	8.62	3.10	8.41	4.11	4.08	4.24	1.83	0.48	1	1
57	1827	WYFWS	7/20/1999	1		A	M	WY	488476	4606363	1835	20.11	10.98	4.13	1.91	8.77	3.07	8.21	4.11	4.12	4.34	1.83	0.48	1	1
58	1827	WYFWS	7/20/1999	1		A	M	WY	488476	4606363	1835	20.11	10.90	4.13	1.90	8.75	3.05	8.16	4.08	4.07	4.37	1.82	0.49	1	1
129	1827	WYFWS	7/20/1999	2		A	M	WY	488476	4606363	1835	20.46	10.93	4.20	1.96	8.66	3.39	8.48	3.85	4.15	4.18	1.78	0.53	1	1
130	1827	WYFWS	7/20/1999	2		A	M	WY	488476	4606363	1835	21.00	10.79	4.18	1.91	8.56	3.31	8.51	3.85	3.83	4.12	1.75	0.52	1	1
181	1827	WYFWS	7/20/1999	2		A	M	WY	488476	4606363	1835	20.08	11.52	4.22	1.67	8.70	3.40	8.38	3.92	4.15	4.11	1.76	0.49	1	1
182	1827	WYFWS	7/20/1999	2		A	M	WY	488476	4606363	1835	20.03	11.32	4.16	1.88	8.60	3.37	8.33	3.93	4.05	4.13	1.82	0.49	1	1
31	27937	KU	9/6/1948	1	0	A	N/A	WY	466566	4620316	1957			0.00	1.68	8.77	3.06		3.70	3.99	4.41	2.13	0.36	0	0
32	27937	KU	9/6/1948	1	0	A	N/A	WY	466566	4620316	1957			0.00	1.70	8.72	3.11		3.74	4.00	4.42	2.01	0.34	0	0
75	27937	KU	9/6/1948	1	0	A	N/A	WY	466566	4620316	1957			0.00	1.98	8.93	2.92		3.75	3.83	4.46	2.03	0.38	0	0
76	27937	KU	9/6/1948	1	0	A	N/A	WY	466566	4620316	1957			0.00	1.97	8.98	2.96		3.73	4.05	4.45	2.03	0.37	0	0
117	27937	KU	9/6/1948	2	0	A	N/A	WY	466566	4620316	1957		11.16	0.00		8.82			3.63	3.59	4.41	1.95	0.49	0	0
118	27937	KU	9/6/1948	2	0	A	N/A	WY	466566	4620316	1957		11.02	0.00		8.74			3.63	3.59	4.00	1.98	0.49	0	0
199	27937	KU	9/6/1948	2	0	A	N/A	WY	466566	4620316	1957			0.00	1.27	8.58	3.31		3.69	4.01	4.30	2.02	0.38	1	1
200	27937	KU	9/6/1948	2	0	A	N/A	WY	466566	4620316	1957			0.00	1.71	8.47	3.16		3.68	3.94	4.40	2.01	0.37	1	1
23	27938	KU	9/6/1948	1	0	A	F	WY	466566	4620316	1957	21.75	11.75	4.17	2.04	8.85	3.51	8.78	3.91	3.91	4.41	1.99	0.48	0	0
24	27938	KU	9/6/1948	1	0	A	F	WY	466566	4620316	1957	21.72	11.80	4.14	2.09	8.84	3.55	8.85	3.92	3.99	4.44	1.99	0.49	0	0
99	27938	KU	9/6/1948	1	0	A	F	WY	466566	4620316	1957	21.48	11.69	4.34	2.09	9.30	3.56	8.89	3.95	4.05	4.42	2.02	0.47	0	0
100	27938	KU	9/6/1948	1	0	A	F	WY	466566	4620316	1957	21.49	11.73	4.36	2.08	9.32	3.50	8.74	4.05	4.04	4.43	2.00	0.46	0	0
109	27938	KU	9/6/1948	2	0	A	F	WY	466566	4620316	1957	21.64	11.70	4.22	2.26	9.43	3.73	8.73	3.89	3.92	4.09	1.97	0.61	0	0
110	27938	KU	9/6/1948	2	0	A	F	WY	466566	4620316	1957	21.49	11.70	4.14	2.05	9.40	3.71	9.07	3.72	3.67	4.42	2.00	0.62	0	0
159	27938	KU	9/6/1948	2	0	A	F	WY	466566	4620316	1957	21.46	11.97	4.24	2.08	9.46	3.73	9.04	4.12	2.67	4.44	1.99	0.65	0	0
160	27938	KU	9/6/1948	2	0	A	F	WY	466566	4620316	1957	21.46	12.06	4.20	2.04	9.44	3.70	8.94	3.92	2.66	4.46	2.02	0.71	0	0
15	27939	KU	9/7/1948	1	0	A	F	WY	466566	4620316	1957	21.34	11.57	4.39	2.01	9.50	3.49	8.85	4.09	4.09	4.42	1.90	0.45	1	1
16	27939	KU	9/7/1948	1	0	A	F	WY	466566	4620316	1957	21.37	11.58	4.39	2.05	9.60	3.50	8.89	4.12	4.08	4.46	1.90	0.46	1	1
91	27939	KU	9/7/1948	1	0	A	F	WY	466566	4620316	1957	21.17	11.71	4.50	1.77	9.35	3.28	8.85	4.04	4.14	4.30	1.88	0.45	1	1
92	27939	KU	9/7/1948	1	0	A	F	WY	466566	4620316	1957	21.20	11.76	4.48	1.86	9.36	3.31	8.87	4.03	4.20	4.40	1.91	0.44	1	1
101	27939	KU	9/7/1948	2	0	A	F	WY	466566	4620316	1957	21.23	11.62	4.47	2.14	9.15	3.49	8.78	3.89	3.78	4.35	1.86	0.46	1	1
102	27939	KU	9/7/1948	2	0	A	F	WY	466566	4620316	1957	21.18	11.67	4.40	1.95	9.14	3.54	8.83	3.89	3.82	4.45	1.90	0.49	1	1
151	27939	KU	9/7/1948	2	0	A	F	WY	466566	4620316	1957	21.28	11.77	4.46	2.18	9.83	3.65	8.83	3.86	3.78	4.37	1.88	0.48	1	1
152	27939	KU	9/7/1948	2	0	A	F	WY	466566	4620316	1957	21.26	11.79	4.47	2.07	9.66	3.48	9.15	3.85	3.78	4.41	1.93	0.48	1	1
43	27940	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	20.65	10.89	4.55	1.82	8.70	3.09	8.32	4.01	3.93	4.08	1.78	0.50	1	1
44	27940	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	20.67	10.99	4.55	1.82	8.74	3.09	8.24	4.08	3.90	4.06	1.79	0.49	1	1
59	27940	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	20.87	10.86	4.50	1.95	8.88	3.08	8.29	4.03	4.08	3.98	1.80	0.49	0	0
60	27940	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	20.68	10.82	4.50	2.00	8.84	3.05	8.19	3.96	4.12	3.82	1.80	0.50	0	0
127	27940	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	20.53	10.74	4.48	1.87	8.71	3.18	8.46	3.83	3.70	4.06	1.83	0.51	1	1
128	27940	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	20.53	10.79	4.51	2.04	8.71	3.16	8.37	3.84	3.69	4.17	1.82	0.51	1	1
175	27940	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	20.49	10.46	4.54	2.37	8.88	3.18	8.37	3.87	3.70	4.21	1.80	0.51	0	0
176	27940	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	20.50	10.97	4.51	2.02	8.60	3.23	8.46	3.84	3.69	4.18	1.82	0.51	0	0
49	27941	KU	9/7/1948	1	0	A	F	WY	466566	4620316	1957	20.73	11.38	4.50	2.51	8.97	3.33	8.44	4.01	3.68	4.27	1.89	0.40	1	1
50	27941	KU	9/7/1948	1	0	A	F	WY	466566	4620316	1957	20.73	11.40	4.52	2.54	9.04	3.25	8.45	4.02	3.60	4.32	1.92	0.41	1	1
63	27941	KU	9/7/1948	1	0	A	F	WY	466566	4620316	1957	20.73	11.18	4.38		8.88	3.31	8.43	3.92	4.31	4.31	1.88	0.38	1	1
64	27941	KU	9/7/1948	1	0	A	F	WY	466566	4620316	1957	20.74	11.18	4.40		8.92	3.32	8.45	3.91	4.30	4.34	1.86	0.40	1	1
121	27941	KU	9/7/1948	2	0	A	F	WY	466566	4620316	1957	20.43	11.18	4.30	2.44	9.33	3.44	8.83	3.72	3.61	4.19	1.89	0.56	1	1
122	27941	KU	9/7/1948	2	0	A	F	WY	466566	4620316	1957	20.73	11.25	4.34	2.40	9.31	3.59	8.54	3.69	3.61	4.21	1.86	0.59	1	1
189	27941	KU	9/7/1948	2	0	A	F	WY	466566	4620316	1957	20.92	11.70	4.30	1.96	9.06	3.24	8.63	3.68	3.56	4.35	1.90	0.40	1	1
190	27941	KU	9/7/1948	2	0	A	F	WY	466566	4620316	1957	20.79	11.65	4.29	2.01	9.37	3.40	8.73	3.69	3.61	4.27	1.89	0.41	1	1
27	27942	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	21.11	11.11	4.26	2.01	9.36	3.24	8.77	4.04	3.96	4.61	2.01	0.50	0	0
28	27942	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	21.11	11.14	4.26	2.03	9.36	3.26	8.64	4.02	3.99	4.59	1.98	0.49	0	0
69	27942	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	20.96	11.20	4.35	2.05	9.13	3.01	8.45	4.07	3.97	4.61	1.96	0.48	0	0
70	27942	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	20.99	11.16	4.34	1.99	9.16	3.02	8.40	4.00	3.87	4.64	1.96	0.47	0	0

ORIGID	CATALOGUE NUMBER	MUSEUM	COLLECTION DATE	RECORDER	SPECIES	AGE	SEX	STATE	UTMX	UTMY	ELEVATION	CONLEN	ZYGBRE	LSTIOB	LSTIBW	MASMA	PALBRE	PALLEN	UTRLEN	LMTRLEN	IFLEN	IFWID	PM4WID	LM1FOLD	LM3WEAR
113	27942	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	20.95	11.60	4.39	1.96	8.35	3.43	8.84	3.86	3.66	4.68	1.98	0.59	1	1
114	27942	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	20.95	11.31	4.30	2.27	8.32	3.42	8.81	3.89	3.67	4.66	1.96	0.59	1	1
193	27942	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	21.08	11.34	4.31	1.75	9.18	3.46	8.91	3.74	3.67	4.66	1.88	0.61	1	1
194	27942	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	21.10	11.24	4.35	1.90	9.05	3.45	8.76	3.71	3.68	4.55	1.93	0.59	1	1
21	27943	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	19.04	11.18	4.22	2.08	9.00	3.24	8.07	3.77	4.00	4.40	1.90	0.42	1	1
22	27943	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	19.00	11.21	4.20	1.99	8.99	3.24	8.00	3.74	3.94	4.96	1.90	0.43	1	1
97	27943	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	19.17	11.53	4.23	2.48	8.72	3.18	8.04	4.12	4.02	4.22	1.89	0.49	1	1
98	27943	KU	9/7/1948	1	0	A	M	WY	466566	4620316	1957	19.18	11.53	4.26	2.39	8.70	3.00	8.02	4.14	3.96	4.06	1.84	0.49	1	1
107	27943	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	19.05	11.27	4.27	1.95	9.17	3.34	8.46	3.63	3.72	4.03	1.84	0.64	1	1
108	27943	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	18.97	11.26	4.22	2.19	9.15	3.36	8.18	3.66	3.62	4.03	1.79	0.63	1	1
157	27943	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	19.28	11.34	4.23	1.87	8.85	3.33	8.32	3.65	3.66	4.06	1.83	0.43	1	1
158	27943	KU	9/7/1948	2	0	A	M	WY	466566	4620316	1957	19.29	11.41	4.24	2.04	8.92	3.33	8.17	3.64	3.68	4.07	1.85	0.49	1	1
33	27944	KU	9/8/1948	1	0	A	N/A	WY	462929	4616661	2041	20.75	11.14	4.26		9.18	3.16	8.42	4.05	3.95	4.22	1.83	0.49	1	1
34	27944	KU	9/8/1948	1	0	A	N/A	WY	462929	4616661	2041	20.75	11.17	4.27		9.17	3.08	8.42	4.05	3.86	4.22	1.87	0.49	1	1
73	27944	KU	9/8/1948	1	0	A	N/A	WY	462929	4616661	2041	20.78	11.22	4.21		9.20	3.23	8.41	4.03	4.06	4.18	1.86	0.54	1	1
74	27944	KU	9/8/1948	1	0	A	N/A	WY	462929	4616661	2041	20.78	11.28	4.17		9.19	3.23	8.48	4.02	4.08	4.18	1.78	0.50	1	1
119	27944	KU	9/8/1948	2	0	A	N/A	WY	462929	4616661	2041	20.83	11.14	4.19	2.33	9.26	3.24	8.58	4.22	4.13	4.01	1.86	0.68	1	1
120	27944	KU	9/8/1948	2	0	A	N/A	WY	462929	4616661	2041	20.79	11.21	4.25	2.10	9.10	3.20	8.71	4.19	4.06	4.14	1.84	0.51	1	1
197	27944	KU	9/8/1948	2	0	A	N/A	WY	462929	4616661	2041	20.84	11.34	4.34		9.09	3.16	8.14	4.14	4.08	4.20	1.81	0.47	1	1
198	27944	KU	9/8/1948	2	0	A	N/A	WY	462929	4616661	2041	20.75	11.29	4.24		8.75	3.14	8.36	3.42	3.94	4.06	1.81	0.46	1	1
29	27671	KU	8/5/1948	1	0	A	F	WY	468539	4621878	2060	21.09	11.48	4.29	1.92	9.08	3.06	8.52	3.80	3.85	4.30	1.86	0.47	0	0
30	27671	KU	8/5/1948	1	0	A	F	WY	468539	4621878	2060	21.08	11.51	4.31	1.91	9.06	3.04	8.50	3.85	3.78	4.31	1.86	0.46	0	0
71	27671	KU	8/5/1948	1	0	A	F	WY	468539	4621878	2060	21.05	11.40	4.29	1.89	9.08	3.15	8.74	3.76	3.81	4.28	1.81	0.47	0	0
72	27671	KU	8/5/1948	1	0	A	F	WY	468539	4621878	2060	21.03	11.42	4.29	1.88	9.10	3.23	8.81	3.76	3.85	4.30	1.82	0.47	0	0
115	27671	KU	8/5/1948	2	0	A	F	WY	468539	4621878	2060	21.12	11.33	4.31	1.81	8.99	3.38	8.72	3.65	3.57	4.24	1.84	0.59	0	0
116	27671	KU	8/5/1948	2	0	A	F	WY	468539	4621878	2060	21.01	11.38	4.30	1.94	8.94	3.23	8.72	3.75	3.59	4.29	1.75	0.57	0	0
195	27671	KU	8/5/1948	2	0	A	F	WY	468539	4621878	2060	20.96	11.56	4.32	1.86	8.89	3.24	8.77	3.74	3.47	4.19	1.84	0.46	1	1
196	27671	KU	8/5/1948	2	0	A	F	WY	468539	4621878	2060	21.00	11.40	4.29	1.90	8.81	3.23	8.79	4.00	3.47	4.10	1.79	0.46	1	1
3	1822	WYFWS	8/14/2000	1		A	M	WY	435000	4565000	2195	21.44	12.56	4.77	2.38	9.05	3.65	9.03	4.02	4.18	4.71	2.05	0.55	0	0
4	1822	WYFWS	8/14/2000	1		A	M	WY	435000	4565000	2195	21.48	12.51	4.79	2.42	9.03	3.67	8.92	4.04	4.13	4.67	2.04	0.55	0	0
79	1822	WYFWS	8/14/2000	1		A	M	WY	435000	4565000	2195	21.49	12.42	4.79	2.27	8.87	3.66	9.27	4.20	4.07	4.62	2.05	0.55	0	0
80	1822	WYFWS	8/14/2000	1		A	M	WY	435000	4565000	2195	21.48	12.35	4.80	2.20	8.91	3.62	9.24	4.18	4.09	4.61	2.06	0.55	0	0
147	1822	WYFWS	8/14/2000	2		A	M	WY	435000	4565000	2195	21.62	12.33	4.72	2.51	8.93	3.70	9.33	4.07	3.98	4.59	1.95	0.56	0	0
148	1822	WYFWS	8/14/2000	2		A	M	WY	435000	4565000	2195	21.76	12.35	4.76	2.46	9.28	3.69	9.24	4.07	3.98	4.60	1.96	0.55	0	0
171	1822	WYFWS	8/14/2000	2		A	M	WY	435000	4565000	2195	21.53	12.50	4.88	2.36	9.06	3.76	9.23	4.07	3.96	4.50	2.00	0.56	0	0
172	1822	WYFWS	8/14/2000	2		A	M	WY	435000	4565000	2195	21.76	12.53	4.85	2.52	8.94	3.64	9.32	4.07	4.06	4.63	1.98	0.56	0	0
1	1823	WYFWS	8/13/2000	1		A	M	WY	435000	4565000	2195	21.55	11.89	4.64	2.16	9.28	3.65	9.25	3.96	3.85	4.97	2.14	0.89	1	1
2	1823	WYFWS	8/13/2000	1		A	M	WY	435000	4565000	2195	21.25	11.84	4.67	2.17	9.29	3.56	9.35	3.99	3.84	4.94	2.17	0.88	1	1
77	1823	WYFWS	8/13/2000	1		A	M	WY	435000	4565000	2195	20.87	11.43	4.42	2.18	9.39	3.47	9.44	4.08	4.21	4.71	2.12	0.52	1	1
78	1823	WYFWS	8/13/2000	1		A	M	WY	435000	4565000	2195	20.90	11.47	4.39	2.14	9.31	3.44	9.34	4.04	4.16	4.60	2.15	0.52	1	1
149	1823	WYFWS	8/13/2000	2		A	M	WY	435000	4565000	2195	21.50	12.09	4.39	2.18	9.14	3.58	9.41	3.88	3.88	4.52	2.13	0.53	0	0
150	1823	WYFWS	8/13/2000	2		A	M	WY	435000	4565000	2195	21.20	12.11	4.45	2.13	9.21	3.65	9.34	3.87	3.86	4.46	2.08	0.53	0	0
173	1823	WYFWS	8/13/2000	2		A	M	WY	435000	4565000	2195	21.48	12.63	4.50	2.02	9.47	3.66	9.34	3.57	3.87	4.62	2.14	0.53	0	0
174	1823	WYFWS	8/13/2000	2		A	M	WY	435000	4565000	2195	21.51	12.16	4.46	2.14	9.37	3.68	9.51	3.58	3.80	4.65	2.16	0.53	0	0
35	1824	WYFWS	8/13/2000	1		A	F	WY	435000	4565000	2195	22.60		4.62	2.42	9.10	3.46	9.52	4.05	4.16	4.92	2.10	0.56	0	0
36	1824	WYFWS	8/13/2000	1		A	F	WY	435000	4565000	2195	22.62		4.62	2.43	9.10	3.59	9.56	4.06	4.15	4.96	2.12	0.56	0	0
51	1824	WYFWS	8/13/2000	1		A	F	WY	435000	4565000	2195	22.29		4.67	2.48	9.34	3.60	9.50	4.31	4.19	4.96	2.14	0.54	0	0
52	1824	WYFWS	8/13/2000	1		A	F	WY	435000	4565000	2195	22.32		4.68	2.50	9.31	3.62	9.46	4.30	4.15	5.06	2.12	0.53	0	0
135	1824	WYFWS	8/13/2000	2		A	F	WY	435000	4565000	2195	21.82		4.83	2.58	9.16	3.74	9.58	3.92	3.40	4.93	2.17	0.71	0	0
136	1824	WYFWS	8/13/2000	2		A	F	WY	435000	4565000	2195	21.81		4.82	2.53	9.10	3.78	9.66	3.91	3.40	4.93	2.07	0.57	0	0
183	1824	WYFWS	8/13/2000	2		A	F	WY	435000	4565000	2195	22.76		4.65	2.35	9.02	3.73	9.66	4.04	3.83	4.75	2.11	0.58	0	0
184	1824	WYFWS	8/13/2000	2		A	F	WY	435000	4565000	2195	22.48		4.67	2.27	9.20	3.78	9.75	4.00	3.82	4.83	2.12	0.58	0	0
45	15856	KU	7/17/1945	1	0	A	F	WY	476669	4586522	2195	21.38	11.26	4.31	2.62	8.93	3.20	9.02		4.31	4.54	2.01		0	0
46	15856	KU	7/17/1945	1	0	A	F	WY	476669	4586522	2195	21.39	11.25	4.27	2.60	8.95	3.27	9.03		4.25	4.55	2.03		0	0
61	15856	KU	7/17/1945	1	0	A	F	WY	476669	4586522	2195	21.46	10.81	4.18	2.35	9.08	2.94	9.09	4.45	4.09	4.62	2.14		0	0
62	15856	KU	7/17/1945	1	0	A	F	WY	476669	4586522	2195	21.49	10.85	4.18	2.38	9.12	2.97	9.13	4.47	4.12	4.68	2.19		0	0
125	15856	KU	7/17/1945	2	0	A	F	WY	476669	4586522	2195	21.38	11.40	4.33	2.37	8.78	3.69	8.90	3.90	4.02	4.47	2.06	0.60	0	0
126	15856	KU	7/17/1945	2	0	A	F	WY	476669	4586522	2195	21.45	11.46	4.25	2.32	8.72	3.48	9.19	3.92	4.01	4.34	2.05	0.58	0	0
177	15856	KU	7/17/1945	2	0	A	F	WY	476669	4586522	2195	21.43	11.55	4.25	2.75	8.63	3.56	9.16	3.60	4.22	4.69	2.01		0	0
178	15856	KU	7/17/1945	2	0	A	F	WY	476669	4586522	2195	21.36	11.55	4.20	2.24	8.76	3.72	9.17	3.57	4.16	4.81	2.05		0	0
19	15857	KU	7/17/1945	1	0	A	F	WY	476669	4586522	2195	21.88	12.06	4.55	2.24	9.46	3.56	9.28	4.35	4.21	4.80	2.19	0.57	0	0
20	15857	KU	7/17/1945	1	0	A	F	WY	476669	4586522	2195	21.89	12.01	4.54	2.35	9.44	3.64	9.22	4.30	4.24	4.79	2.20	0.57	0	0
95	15857	KU	7/17/1945	1	0	A	F	WY	476669	4586522	2195	21.91	12.25	4.72	2.02	9.03	3.89	9.05	4.33	4.45	4.65	2.33	0.57	0	0
96	15857	KU	7/17/1945	1	0	A	F	WY	476669	4586522	2195	21.91	12.23	4.63	2.04	9.01	3.88	8.94	4.37	4.44	4.64	2.34	0.57	0	0
105	15857	KU	7/17/1945	2	0	A	F	WY	476669	4586522	2195	21.87	12.08	4.62	2.23	9.26	3.58	8.92	4.11	4.05	4.55	2.03	0.58	0	0
106	15857	KU	7/17/1945	2	0	A	F	WY	476669	4586522	2195	21.88	12.01	4.57	2.30	9.30	3.66	9.22	4.10	4.00	4.60	2.07	0.58	0	0
155	15857	KU	7/17/1945	2	0	A	F	WY	476669	4586522	2195	21.89	12.34	4.59	2.17	9.45	3.45	9.89	4.16	3.87	4.82	2.00	0.58	0	0
156	15857	KU	7/17/1945	2	0	A	F	WY	476669	4586522	2195	21.89	12.25	4.65	2.22	9.52	3.41	9.23	4.15	3.85	4.85	2.05	0.58	0	0

ORIGID	CATALOGUE NUMBER	MUSEUM	COLLECTION DATE	RECORDER	SPECIES	AGE	SEX	STATE	UTMX	UTMY	ELEVATION	CONLEN	ZYGBRE	LSTIOB	LSTIBW	MASMA	PALBRE	PALLEN	UTRLEN	LMTRLEN	IFLEN	IFWID	PM4WID	LM1FOLD	LM3WEAR
17	15858	KU	7/16/1945	1	0	A	F	WY	476658	4584885	2195	21.19	11.79	4.07		9.12	3.37	9.15	4.05	3.36	4.54	2.14	0.58	1	1
18	15858	KU	7/16/1945	1	0	A	F	WY	476658	4584885	2195	21.19	11.81	4.09		9.16	3.34	9.21	4.06	3.33	4.68	2.11	0.57	1	1
93	15858	KU	7/16/1945	1	0	A	F	WY	476658	4584885	2195	21.81	11.82	4.14		8.58	3.95	9.11	4.31	3.73	4.58	2.10		1	1
94	15858	KU	7/16/1945	1	0	A	F	WY	476658	4584885	2195	21.82	11.74	4.18		8.56	3.90	9.08	4.30	3.78	4.59	2.09		1	1
103	15858	KU	7/16/1945	2	0	A	F	WY	476658	4584885	2195	21.50	11.68	4.12		8.93	3.51	9.11	3.97	3.92	4.47	2.08	0.54	0	0
104	15858	KU	7/16/1945	2	0	A	F	WY	476658	4584885	2195	21.68	11.66	4.11		8.82	3.39	9.13	3.96	3.92	4.51	2.10	0.57	0	0
153	15858	KU	7/16/1945	2	0	A	F	WY	476658	4584885	2195	21.19	11.94	4.14		9.50	3.36	9.04	3.71	3.01	4.38	2.12	0.56	0	0
154	15858	KU	7/16/1945	2	0	A	F	WY	476658	4584885	2195	21.19	11.85	4.10		9.30	3.77	8.42	3.70	3.02	4.60	2.10	0.56	0	0
47	26505	KU	7/8/1948	1	0	A	M	WY	369471	4579156	2195	22.12	11.59	4.37		9.00	3.12	9.21	4.47	4.42	5.14	2.15	0.59	0	0
48	26505	KU	7/8/1948	1	0	A	M	WY	369471	4579156	2195	22.11	11.60	4.39		9.08	3.18	9.26	4.45	4.33	5.15	2.11	0.58	0	0
65	26505	KU	7/8/1948	1	0	A	M	WY	369471	4579156	2195	22.05		4.55		9.26	3.61	9.20	4.19	4.08	5.15	2.15	0.55	0	0
66	26505	KU	7/8/1948	1	0	A	M	WY	369471	4579156	2195	22.06		4.50		9.30	3.66	9.24	4.08	4.12	5.05	2.17	0.55	0	0
123	26505	KU	7/8/1948	2	0	A	M	WY	369471	4579156	2195	22.22	12.07	4.42		9.19	3.66	9.65	3.98	3.97	5.19	2.06	0.66	0	0
124	26505	KU	7/8/1948	2	0	A	M	WY	369471	4579156	2195	22.26	12.05	4.40		9.07	3.49	9.54	3.98	3.96	5.02	2.07	0.62	0	0
187	26505	KU	7/8/1948	2	0	A	M	WY	369471	4579156	2195	22.37		4.56		9.71	3.65	9.63	4.02	3.88	5.20	2.06	0.59	0	0
188	26505	KU	7/8/1948	2	0	A	M	WY	369471	4579156	2195	22.09		4.47		9.54	3.92	9.57	4.02	3.87	5.11	2.03	0.59	0	0
25	26506	KU	7/8/1948	1	0	A	F	WY	369471	4579156	2195	21.83		4.37		9.44	3.55	9.16	4.10	4.18	4.50	2.33	0.53	0	0
26	26506	KU	7/8/1948	1	0	A	F	WY	369471	4579156	2195	21.84		4.36		9.34	3.46	9.04	4.40	4.16	4.49	2.34	0.54	0	0
67	26506	KU	7/8/1948	1	0	A	F	WY	369471	4579156	2195	21.81		4.40		9.65	3.65	9.02	4.41	4.20	4.54	2.30	0.55	0	0
68	26506	KU	7/8/1948	1	0	A	F	WY	369471	4579156	2195	21.81		4.42		9.58	3.53	8.88	4.11	4.17	4.55	2.33	0.55	0	0
111	26506	KU	7/8/1948	2	0	A	F	WY	369471	4579156	2195	21.98		4.46		8.83	3.47	9.03	4.19	3.96	4.54	2.31	0.55	0	0
112	26506	KU	7/8/1948	2	0	A	F	WY	369471	4579156	2195	21.98		4.38		8.67	3.64	9.15	3.96	3.96	4.48	2.30	0.55	0	0
191	26506	KU	7/8/1948	2	0	A	F	WY	369471	4579156	2195	21.74		4.45		9.40	3.62	9.05	3.90	4.25	4.70	2.33	0.54	0	0
192	26506	KU	7/8/1948	2	0	A	F	WY	369471	4579156	2195	21.66		4.48		9.52	3.71	9.10	3.90	4.26	4.56	2.33	0.65	0	0
39	1826	WYFWS	7/12/2000	1		A	M	WY	485698	4549040	2256	22.36	12.47	4.49	2.44	9.35	3.70	9.18	4.33	4.34	5.04	2.13	0.54	0	0
40	1826	WYFWS	7/12/2000	1		A	M	WY	485698	4549040	2256	22.32	12.34	4.45	2.45	9.25	3.72	9.22	4.24	4.32	5.07	2.14	0.54	0	0
55	1826	WYFWS	7/12/2000	1		A	M	WY	485698	4549040	2256	22.27	12.13	4.48	2.67	9.44	3.69	9.17	4.43	4.30	5.06	2.16	0.57	0	0
56	1826	WYFWS	7/12/2000	1		A	M	WY	485698	4549040	2256	22.30	12.23	4.49	2.62	9.41	3.62	9.17	4.38	4.26	5.06	2.21	0.57	0	0
131	1826	WYFWS	7/12/2000	2		A	M	WY	485698	4549040	2256	22.28	12.46	4.43	2.66	8.98	3.71	9.50	4.13	4.46	4.93	2.13	0.58	0	0
132	1826	WYFWS	7/12/2000	2		A	M	WY	485698	4549040	2256	22.46	12.39	4.68	2.39	8.56	3.79	9.25	4.06	4.21	4.71	2.10	0.55	0	0
179	1826	WYFWS	7/12/2000	2		A	M	WY	485698	4549040	2256	22.29	12.41	4.45	2.54	9.24	3.78	9.41	4.22	4.05	4.85	2.10	0.59	0	0
180	1826	WYFWS	7/12/2000	2		A	M	WY	485698	4549040	2256	22.29	12.34	4.48	2.48	9.30	3.51	9.34	4.12	4.02	4.96	2.05	0.59	0	0
37	1825	WYFWS	7/30/1999	1		A	F	WY	465349	4567003	2499	22.89	12.61	4.76	2.40	8.65	3.98	9.57	4.11	4.21	4.91	2.15	0.57	0	0
38	1825	WYFWS	7/30/1999	1		A	F	WY	465349	4567003	2499	23.17	12.68	4.78	2.43	8.70	3.94	9.46	4.06	4.21	4.97	2.15	0.59	0	0
53	1825	WYFWS	7/30/1999	1		A	F	WY	465349	4567003	2499	22.73	12.68	4.78	2.42	9.24	4.02	9.38	4.37	4.28	4.89	2.10	0.58	0	0
54	1825	WYFWS	7/30/1999	1		A	F	WY	465349	4567003	2499	22.72	12.63	4.76	2.44	9.31	4.04	9.49	4.36	4.36	4.95	2.09	0.57	0	0
133	1825	WYFWS	7/30/1999	2		A	F	WY	465349	4567003	2499	22.40	12.92	4.85	2.40	9.24	3.94	9.92	4.01	3.64	4.87	2.31	0.55	0	0
134	1825	WYFWS	7/30/1999	2		A	F	WY	465349	4567003	2499	22.31	12.66	4.84	2.47	9.41	4.06	9.41	4.01	3.74	4.89	2.12	0.67	0	0
185	1825	WYFWS	7/30/1999	2		A	F	WY	465349	4567003	2499	23.25	12.59	4.73	2.49	9.60	3.99	9.64	4.08	3.87	4.93	2.20	0.55	0	0
186	1825	WYFWS	7/30/1999	2		A	F	WY	465349	4567003	2499	23.28	12.76	4.73	2.35	9.53	4.00	9.58	4.08	3.90	4.92	2.13	0.55	0	0