

Table 1: List of localities per time unit for North America, large carnivorans. The columns indicate the identifier and name of the locality, the age bounds, the coordinates (latitude; longitude), the average hypsodonty (H) as well as the number of distinct orders, of genera and of species recorded (Nbs).

Locality		Age (Ma)	Coordinates	H	Nbs
<b>Orellan</b>		33.90–32.10	16 localities		
10282	Central Great Plains CP39H	33.90–32.10	42.417 ; -105.417	3.00	1/ 1/ 2
10288	Central Great Plains CP40B	33.90–32.10	42.667 ; -105.250	1.27	2/ 4/ 5
10290	Central Great Plains CP41B	33.90–32.10	43.050 ; -104.470	1.36	2/ 5/ 6
10304	Central Great Plains CP46	33.90–32.10	41.146 ; -104.802	1.25	1/ 0/ 0
10352	Central Great Plains CP68C	33.90–32.10	40.579 ; -103.358	1.08	2/ 7/10
10385	Central Great Plains CP84A	33.90–32.10	45.600 ; -103.600	1.22	2/12/15
10416	Central Great Plains CP99A	33.90–32.10	40.810 ; -96.675	1.16	2/10/11
10757	Northern Great Plains NP10BB	33.40–32.50	54.500 ; -105.681	1.00	1/ 2/ 2
10817	Northern Great Plains NP27C1	33.90–33.40	46.596 ; -112.027	1.00	1/ 1/ 1
10818	Northern Great Plains NP27D	33.90–33.40	46.596 ; -112.027	1.00	1/ 1/ 2
10825	Northern Great Plains NP29E	33.90–32.10	46.596 ; -112.027	-	1/ 1/ 1
10829	Northern Great Plains NP30B	33.90–32.10	46.596 ; -112.027	1.00	1/ 1/ 1
10833	Northern Great Plains NP32B	33.10–32.10	46.596 ; -112.027	1.17	2/ 2/ 2
10834	Northern Great Plains NP32C	32.50–32.10	46.596 ; -112.027	1.00	1/ 2/ 2
10885	Northern Great Plains NP50B	33.90–32.10	46.813 ; -100.779	1.00	2/ 5/ 6
10904	Pacific Northwest PN6B	33.90–32.10	44.931 ; -123.029	1.00	1/ 1/ 1
<b>Whitneyan</b>		32.10–29.75	11 localities		
10291	Central Great Plains CP41C	32.10–29.75	43.050 ; -104.470	1.33	1/ 3/ 4
10305	Central Great Plains CP46II	32.10–29.75	41.146 ; -104.802	-	1/ 1/ 1
10353	Central Great Plains CP68D	31.40–29.75	39.739 ; -104.985	1.50	1/ 1/ 1
10386	Central Great Plains CP84B	32.10–29.75	44.500 ; -100.000	1.17	2/15/18
10389	Central Great Plains CP85A	31.40–29.75	43.083 ; -102.333	2.00	1/ 1/ 1
10417	Central Great Plains CP99B	32.10–29.75	40.810 ; -96.675	1.35	1/ 8/ 9
10761	Northern Great Plains NP10C	32.10–31.40	54.500 ; -105.681	1.00	1/ 1/ 1
10762	Northern Great Plains NP10C2	31.40–29.75	54.500 ; -105.681	1.00	1/ 2/ 2
10886	Northern Great Plains NP50C	32.10–29.75	46.813 ; -100.779	1.13	1/ 2/ 2
10888	Northern Great Plains NP51A	32.10–29.75	47.446 ; -102.932	1.00	1/ 2/ 2
10906	Pacific Northwest PN6C	31.40–29.75	44.931 ; -123.029	1.00	1/ 6/ 6
<b>Arikareean-1</b>		29.75–28.00	14 localities		
10034	California CC9C	29.75–28.00	34.283 ; -118.917	1.36	1/ 6/ 7
10035	California CC9D	29.75–28.00	34.322 ; -118.786	1.22	1/ 1/ 1
10041	California CC9IVB	29.75–28.00	33.717 ; -117.696	3.00	1/ 1/ 1
10048	California CC12	29.75–28.00	40.667 ; -117.958	1.80	2/ 3/ 3
10307	Central Great Plains CP48	29.75–28.00	42.672 ; -104.756	1.82	1/ 8/ 9
10308	Central Great Plains CP49A	29.75–28.00	41.146 ; -104.802	-	1/ 1/ 1
10390	Central Great Plains CP85B	29.75–28.00	43.390 ; -102.465	1.80	1/ 2/ 2
10391	Central Great Plains CP85C	29.75–28.00	43.083 ; -102.333	1.33	2/16/17
10393	Central Great Plains CP86A	29.75–28.00	43.339 ; -102.354	1.43	1/ 2/ 2
10418	Central Great Plains CP99C	29.75–28.00	40.810 ; -96.675	1.73	1/ 3/ 3
10424	Central Great Plains CP101	29.75–28.00	41.615 ; -103.251	1.65	1/10/11
10845	Northern Great Plains NP36A	29.75–28.00	46.532 ; -112.919	1.00	1/ 1/ 1
10907	Pacific Northwest PN6D	29.75–28.00	44.665 ; -119.668	1.00	1/16/18
10908	Pacific Northwest PN6E	29.75–28.00	44.931 ; -123.029	1.00	1/ 5/ 5
<b>Arikareean-2</b>		28.00–22.20	13 localities		
10049	California CC13	28.00–22.20	34.918 ; -118.965	1.00	1/ 1/ 1

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Locality		Age	Coordinates	H	Nbs
10309	Central Great Plains CP49B	28.00–22.20	41.663 ; -104.260	1.40	1/ 3/ 4
10312	Central Great Plains CP50	28.00–22.20	42.653 ; -104.824	1.93	1/ 5/ 7
10394	Central Great Plains CP86B	28.00–22.20	43.180 ; -102.420	1.55	1/ 9/12
10399	Central Great Plains CP87A	28.00–22.20	43.058 ; -99.819	1.29	1/ 3/ 3
10425	Central Great Plains CP102	28.00–22.20	42.113 ; -103.771	1.86	1/ 4/ 4
10547	Gulf Coast GC8AA	28.00–22.20	28.058 ; -82.357	1.00	1/ 6/ 6
10548	Gulf Coast GC8AB	28.00–22.20	28.133 ; -81.632	1.17	1/ 0/ 0
10764	Northern Great Plains NP10CC	28.00–22.20	54.500 ; -105.681	1.44	1/ 0/ 0
10846	Northern Great Plains NP36B	28.00–22.20	46.631 ; -113.028	1.00	1/ 1/ 1
10848	Northern Great Plains NP36D	28.00–22.20	46.596 ; -112.027	1.00	1/ 1/ 1
10850	Northern Great Plains NP37	28.00–22.20	46.653 ; -111.694	1.57	1/ 5/ 5
10909	Pacific Northwest PN6F	28.00–22.20	44.931 ; -123.029	1.00	1/ 8/ 8
<b>Arikareean-3</b>		22.20–19.09	10 localities		
10315	Central Great Plains CP52	22.20–19.09	42.908 ; -104.422	1.50	1/ 9/12
10360	Central Great Plains CP73A	22.20–19.09	40.534 ; -108.217	-	1/ 2/ 2
10395	Central Great Plains CP86C	22.20–19.09	43.464 ; -101.655	1.20	1/ 6/ 6
10426	Central Great Plains CP103A	22.20–19.09	42.419 ; -103.801	1.32	1/ 8/11
10538	Gulf Coast GC5A	22.20–19.09	31.158 ; -93.552	1.18	1/ 3/ 3
10550	Gulf Coast GC8B	22.20–19.09	28.642 ; -82.427	1.09	1/ 6/ 6
10910	Pacific Northwest PN6G	22.20–19.09	44.931 ; -123.029	1.00	1/ 3/ 3
11016	Southern Great Basin SB28	22.20–19.09	36.207 ; -106.319	1.67	1/ 1/ 1
11099	Southern Great Basin SB46	22.20–19.09	29.167 ; -103.500	1.40	1/ 3/ 3
11100	Southern Great Basin SB47	22.20–19.09	29.329 ; -104.032	1.50	1/ 0/ 0
<b>Arikareean-4</b>		19.09–18.50	8 localities		
10313	Central Great Plains CP51A	19.09–18.50	41.691 ; -104.744	1.40	1/10/15
10316	Central Great Plains CP53	19.09–18.50	41.682 ; -104.731	1.25	1/ 3/ 3
10396	Central Great Plains CP86D	19.09–18.50	43.390 ; -102.465	1.47	1/ 4/ 4
10429	Central Great Plains CP104A	19.09–18.50	42.417 ; -103.727	1.31	1/12/13
10430	Central Great Plains CP104B	19.09–18.50	42.445 ; -103.729	1.36	1/ 7/ 7
10551	Gulf Coast GC8C	19.09–18.50	29.617 ; -82.367	1.00	1/ 2/ 2
10913	Pacific Northwest PN6J	19.09–18.50	44.931 ; -123.029	1.00	1/ 2/ 2
11018	Southern Great Basin SB29A	19.09–18.50	35.458 ; -106.809	3.00	1/ 4/ 4
<b>Hemingfordian-1</b>		18.50–17.34	22 localities		
10043	California CC9IVD	18.50–17.34	38.556 ; -121.469	1.71	1/ 5/ 5
10123	California CC51	18.50–17.34	28.000 ; -114.000	-	1/ 1/ 1
10314	Central Great Plains CP51B	18.50–17.34	42.670 ; -104.084	1.33	1/ 2/ 2
10357	Central Great Plains CP71	18.50–17.34	40.902 ; -103.270	1.56	1/ 3/ 3
10365	Central Great Plains CP74A	18.50–17.34	40.075 ; -105.945	1.33	1/ 1/ 1
10397	Central Great Plains CP86E	18.50–17.34	43.083 ; -102.333	-	1/ 1/ 1
10402	Central Great Plains CP88	18.50–17.34	43.133 ; -101.871	1.23	1/ 4/ 4
10431	Central Great Plains CP104C	18.50–17.34	42.393 ; -103.312	1.75	1/ 2/ 2
10433	Central Great Plains CP105	18.50–17.34	42.751 ; -102.022	1.54	1/21/28
10434	Central Great Plains CP106	18.50–17.34	41.809 ; -103.103	1.38	1/ 8/ 8
10529	Gulf Coast GC3A	18.50–17.34	30.173 ; -96.671	1.43	1/ 1/ 1
10530	Gulf Coast GC3B	18.50–17.34	30.388 ; -96.088	1.31	1/ 2/ 2
10539	Gulf Coast GC5B	18.50–17.34	30.267 ; -97.764	1.29	1/ 1/ 1
10561	Gulf Coast GC9III	18.50–17.34	28.133 ; -81.632	-	1/ 1/ 1
10630	Northern Great Basin NB3B	18.50–17.34	34.862 ; -116.425	2.00	1/ 1/ 1
10632	Northern Great Basin NB3D	18.50–17.34	38.556 ; -121.469	2.00	1/ 1/ 1
10716	Northern East Coast NC2B	18.50–17.34	39.162 ; -75.527	1.43	1/ 2/ 2
10914	Pacific Northwest PN6K	18.50–17.34	44.931 ; -123.029	1.20	1/ 3/ 3
10915	Pacific Northwest PN6L	18.50–17.34	44.931 ; -123.029	1.50	1/ 1/ 1

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Locality		Age	Coordinates	H	Nbs
10938	Pacific Northwest PN17III	18.50–17.34	43.614 ; -116.238	-	1/ 1/ 1
11019	Southern Great Basin SB29B	18.50–17.34	35.500 ; -106.750	2.33	1/ 3/ 4
11020	Southern Great Basin SB29C	18.50–17.34	35.600 ; -106.750	2.14	1/ 5/ 5
<b>Hemingfordian-2</b>		17.34–15.97	19 localities		
10064	California CC19	17.34–15.97	34.851 ; -119.554	1.60	1/ 1/ 1
10065	California CC20	17.34–15.97	35.486 ; -118.890	1.50	1/ 1/ 1
10066	California CC21A	17.34–15.97	35.191 ; -118.324	1.88	1/ 1/ 1
10069	California CC22A	17.34–15.97	34.298 ; -117.469	1.91	1/ 2/ 2
10319	Central Great Plains CP54B	17.34–15.97	42.446 ; -107.557	1.64	1/ 6/ 6
10321	Central Great Plains CP54II	17.34–15.97	41.146 ; -104.802	1.60	1/ 2/ 2
10359	Central Great Plains CP72B	17.34–15.97	39.739 ; -104.985	1.67	1/ 1/ 1
10436	Central Great Plains CP107	17.34–15.97	42.400 ; -103.031	1.54	1/ 6/ 6
10437	Central Great Plains CP108A	17.34–15.97	42.175 ; -103.737	1.83	1/ 7/ 8
10438	Central Great Plains CP108B	17.34–15.97	42.178 ; -103.755	1.85	1/13/14
10439	Central Great Plains CP109A	17.34–15.97	42.654 ; -102.785	1.69	1/ 3/ 3
10554	Gulf Coast GC8DB	17.34–15.97	28.133 ; -81.632	2.14	1/ 1/ 1
10636	Northern Great Basin NB6B	17.34–15.97	35.032 ; -117.053	2.14	1/ 2/ 2
10659	Northern Great Basin NB15II	17.34–15.97	39.161 ; -119.754	-	1/ 1/ 1
10661	Northern Great Basin NB17	17.34–15.97	41.652 ; -119.749	1.63	1/ 3/ 3
10766	Northern Great Plains NP10E	17.34–15.97	54.500 ; -105.681	1.67	1/ 0/ 0
10840	Northern Great Plains NP34D	17.34–15.97	46.596 ; -112.027	1.80	1/ 0/ 0
11021	Southern Great Basin SB29D	17.34–15.97	35.700 ; -106.750	2.50	1/ 2/ 2
11030	Southern Great Basin SB32A	17.34–15.97	35.917 ; -106.167	1.91	1/ 3/ 3
<b>Barstovian-1</b>		15.97–14.78	30 localities		
10056	California CC17D	15.97–14.78	34.765 ; -119.245	1.67	1/ 2/ 3
10057	California CC17E	15.97–14.78	34.765 ; -119.236	1.83	1/ 4/ 4
10067	California CC21B	15.97–14.78	35.190 ; -118.316	2.00	1/ 0/ 0
10074	California CC23A	15.97–14.78	38.556 ; -121.469	1.82	1/ 3/ 3
10370	Central Great Plains CP75B	15.97–14.78	40.871 ; -103.921	1.90	1/10/11
10373	Central Great Plains CP76A	15.97–14.78	39.739 ; -104.985	3.00	1/ 1/ 1
10441	Central Great Plains CP110	15.97–14.78	42.161 ; -103.726	1.82	1/19/27
10442	Central Great Plains CP111	15.97–14.78	42.690 ; -102.840	1.44	1/ 9/ 9
10443	Central Great Plains CP112	15.97–14.78	42.913 ; -100.387	-	1/ 1/ 1
10533	Gulf Coast GC4B	15.97–14.78	30.220 ; -96.420	2.17	1/ 1/ 1
10534	Gulf Coast GC4C	15.97–14.78	30.671 ; -95.053	1.78	1/ 6/ 7
10562	Gulf Coast GC10A	15.97–14.78	28.182 ; -81.824	2.00	1/ 0/ 0
10637	Northern Great Basin NB6C	15.97–14.78	35.097 ; -116.620	1.90	1/ 9/10
10638	Northern Great Basin NB6D	15.97–14.78	35.032 ; -117.053	2.11	1/10/13
10662	Northern Great Basin NB18A	15.97–14.78	41.842 ; -119.050	1.88	1/ 2/ 2
10664	Northern Great Basin NB19A	15.97–14.78	39.161 ; -119.754	1.88	1/ 1/ 1
10667	Northern Great Basin NB20A	15.97–14.78	41.200 ; -119.317	1.85	1/ 1/ 2
10669	Northern Great Basin NB21	15.97–14.78	40.967 ; -115.973	1.80	1/ 1/ 1
10673	Northern Great Basin NB23A	15.97–14.78	39.161 ; -119.754	-	1/ 1/ 1
10674	Northern Great Basin NB23B	15.97–14.78	38.586 ; -117.926	1.93	1/10/11
10721	Northern East Coast NC3A	15.97–14.78	38.973 ; -76.501	-	1/ 1/ 1
10841	Northern Great Plains NP34E	15.97–14.78	46.569 ; -111.170	1.67	1/ 1/ 1
10865	Northern Great Plains NP41B	15.97–14.78	45.667 ; -111.300	2.13	1/ 7/ 7
10868	Northern Great Plains NP42	15.97–14.78	46.627 ; -113.131	1.69	1/ 3/ 3
10869	Northern Great Plains NP42II	15.97–14.78	45.890 ; -112.162	-	1/ 1/ 1
10916	Pacific Northwest PN7	15.97–14.78	44.492 ; -119.536	1.55	1/ 5/ 5
10920	Pacific Northwest PN8B	15.97–14.78	43.474 ; -117.781	1.73	1/ 8/ 8
10941	Pacific Northwest PN19B	15.97–14.78	44.801 ; -113.246	1.73	1/ 1/ 1
11022	Southern Great Basin SB30A	15.97–14.78	35.593 ; -106.670	3.00	1/ 3/ 3

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Locality		Age	Coordinates	H	Nbs
11032	Southern Great Basin SB32B	15.97–14.78	35.978 ; -105.988	2.15	1/12/13
<b>Barstovian-2</b>		14.78–12.57	32 localities		
10068	California CC21C	14.78–12.57	35.190 ; -118.316	1.78	1/ 1/ 1
10323	Central Great Plains CP56	14.78–12.57	41.500 ; -104.750	2.30	1/ 3/ 3
10363	Central Great Plains CP73D	14.78–12.57	40.460 ; -108.247	2.00	1/ 2/ 2
10371	Central Great Plains CP75BB	14.78–12.57	39.739 ; -104.985	1.88	1/ 7/ 7
10372	Central Great Plains CP75C	14.78–12.57	40.815 ; -104.066	2.00	1/ 6/ 6
10374	Central Great Plains CP76B	14.78–12.57	40.579 ; -103.358	2.23	1/ 7/ 8
10400	Central Great Plains CP87B	14.78–12.57	42.917 ; -99.750	2.44	1/ 1/ 1
10403	Central Great Plains CP89	14.78–12.57	43.493 ; -99.278	2.00	1/ 1/ 1
10440	Central Great Plains CP109B	14.78–12.57	40.810 ; -96.675	2.00	1/ 2/ 2
10444	Central Great Plains CP112II	14.78–12.57	40.810 ; -96.675	-	1/ 1/ 1
10445	Central Great Plains CP113A	14.78–12.57	41.597 ; -96.790	2.00	1/ 2/ 2
10446	Central Great Plains CP113A0	14.78–12.57	40.810 ; -96.675	-	1/ 2/ 3
10453	Central Great Plains CP114A	14.78–12.57	42.784 ; -100.035	1.94	1/16/18
10454	Central Great Plains CP114B	14.78–12.57	42.827 ; -97.636	1.90	1/17/22
10455	Central Great Plains CP114C	14.78–12.57	42.712 ; -99.789	2.17	1/11/13
10479	Central Great Plains CP123A0	14.78–12.57	39.056 ; -95.689	-	1/ 1/ 1
10537	Gulf Coast GC4E	14.78–12.57	30.345 ; -96.032	1.95	1/ 4/ 5
10564	Gulf Coast GC10B	14.78–12.57	28.182 ; -81.824	2.45	1/ 2/ 2
10639	Northern Great Basin NB6E	14.78–12.57	35.032 ; -117.040	2.00	1/10/11
10665	Northern Great Basin NB19B	14.78–12.57	41.609 ; -114.758	-	1/ 1/ 1
10668	Northern Great Basin NB20B	14.78–12.57	39.161 ; -119.754	-	1/ 1/ 1
10676	Northern Great Basin NB24	14.78–12.57	38.600 ; -117.967	-	1/ 1/ 1
10678	Northern Great Basin NB25A	14.78–12.57	40.094 ; -117.577	1.00	1/ 1/ 1
10767	Northern Great Plains NP11	14.78–12.57	54.500 ; -105.681	1.88	1/ 9/ 9
10922	Pacific Northwest PN9B	14.78–12.57	43.452 ; -117.453	2.22	1/ 3/ 3
10942	Pacific Northwest PN19C	14.78–12.57	43.614 ; -116.238	1.77	1/ 1/ 1
11023	Southern Great Basin SB30B	14.78–12.57	35.458 ; -106.752	2.00	1/ 5/ 7
11033	Southern Great Basin SB32C	14.78–12.57	36.147 ; -106.243	2.00	1/ 4/ 5
11034	Southern Great Basin SB32D	14.78–12.57	35.825 ; -105.979	2.08	1/11/13
11036	Southern Great Basin SB32EE	14.78–12.57	36.255 ; -106.147	-	1/ 1/ 1
11037	Southern Great Basin SB32F	14.78–12.57	36.079 ; -106.086	2.25	1/ 2/ 2
11038	Southern Great Basin SB32FF	14.78–12.57	36.391 ; -106.044	2.00	1/ 4/ 5
<b>Clarendonian-1</b>		12.57–12.11	4 localities		
10447	Central Great Plains CP113A1	12.57–12.11	42.665 ; -102.109	-	1/ 1/ 1
10456	Central Great Plains CP114D	12.57–12.11	42.642 ; -100.064	2.12	1/12/16
10641	Northern Great Basin NB7A	12.57–12.11	35.394 ; -117.944	2.00	1/ 3/ 3
11189	West Coast Marine WM17II	12.57–12.11	35.232 ; -119.659	-	1/ 1/ 1
<b>Clarendonian-2</b>		12.11–10.09	25 localities		
10059	California CC17G	12.11–10.09	34.821 ; -119.337	2.11	1/ 5/ 5
10079	California CC24	12.11–10.09	35.126 ; -118.824	1.00	1/ 1/ 1
10091	California CC32A	12.11–10.09	35.100 ; -118.800	2.33	1/ 3/ 3
10094	California CC34	12.11–10.09	33.843 ; -117.462	2.33	1/ 0/ 0
10320	Central Great Plains CP54C	12.11–10.09	42.461 ; -107.487	3.00	1/ 1/ 1
10405	Central Great Plains CP90A	12.11–10.09	43.119 ; -101.931	2.06	1/13/15
10406	Central Great Plains CP90B	12.11–10.09	43.002 ; -102.387	2.56	1/ 5/ 5
10448	Central Great Plains CP113A2	12.11–10.09	40.057 ; -100.883	-	1/ 4/ 5
10462	Central Great Plains CP116A	12.11–10.09	42.421 ; -98.157	2.06	1/16/18
10478	Central Great Plains CP123A	12.11–10.09	39.056 ; -95.689	2.17	1/ 1/ 1
10484	Central Great Plains CP123E	12.11–10.09	39.082 ; -99.759	2.78	1/ 2/ 2
10540	Gulf Coast GC6A	12.11–10.09	28.420 ; -97.740	2.22	1/ 2/ 2

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Locality	Age	Coordinates	H	Nbs
10541 Gulf Coast GC6B	12.11–10.09	28.531 ; -97.591	2.33	1/ 2/ 2
10642 Northern Great Basin NB7B	12.11–10.09	35.394 ; -117.944	2.44	1/ 3/ 4
10645 Northern Great Basin NB8	12.11–10.09	35.416 ; -116.244	1.86	1/ 2/ 3
10675 Northern Great Basin NB23C	12.11–10.09	38.604 ; -117.843	2.20	1/ 5/ 7
10683 Northern Great Basin NB27A	12.11–10.09	38.507 ; -118.906	2.86	1/ 1/ 1
10688 Northern Great Basin NB28	12.11–10.09	40.446 ; -114.444	2.29	1/ 2/ 2
10961 Southern Great Basin SB7	12.11–10.09	35.198 ; -109.228	2.33	1/ 1/ 1
11040 Southern Great Basin SB32H	12.11–10.09	36.172 ; -106.089	2.40	1/ 1/ 1
11048 Southern Great Basin SB34A	12.11–10.09	35.955 ; -106.121	2.23	1/ 5/ 7
11153 Southern Great Plains SP1A	12.11–10.09	35.643 ; -101.905	2.32	1/ 6/ 6
11154 Southern Great Plains SP1A0	12.11–10.09	30.267 ; -97.764	-	1/ 1/ 1
11162 Southern Great Plains SP2A	12.11–10.09	35.066 ; -100.910	2.28	1/13/14
11163 Southern Great Plains SP2B	12.11–10.09	35.105 ; -100.739	3.00	1/ 2/ 2
<b>Clarendonian-3</b>		10.09–9.07	15 localities	
10060 California CC17H	10.09–9.07	34.803 ; -119.293	2.25	1/ 5/ 5
10083 California CC26A	10.09–9.07	37.830 ; -121.919	3.00	1/ 1/ 1
10084 California CC26B	10.09–9.07	37.830 ; -121.929	2.27	1/ 8/ 8
10088 California CC30A	10.09–9.07	38.556 ; -121.469	2.25	1/ 2/ 2
10092 California CC32B	10.09–9.07	35.134 ; -118.818	2.22	1/ 7/ 7
10364 Central Great Plains CP73E	10.09–9.07	40.571 ; -108.632	-	1/ 1/ 1
10458 Central Great Plains CP115B	10.09–9.07	42.166 ; -103.727	2.12	1/ 8/ 9
10480 Central Great Plains CP123B	10.09–9.07	38.878 ; -99.510	2.00	1/ 4/ 4
10489 Central Great Plains CP124III	10.09–9.07	39.069 ; -99.556	2.13	1/ 1/ 1
10567 Gulf Coast GC11A	10.09–9.07	29.617 ; -82.367	2.40	1/11/12
10666 Northern Great Basin NB19C	10.09–9.07	40.783 ; -116.001	2.43	1/ 1/ 1
10689 Northern Great Basin NB29A	10.09–9.07	39.935 ; -119.066	2.00	1/ 5/ 5
10867 Northern Great Plains NP41D	10.09–9.07	45.405 ; -111.703	-	1/ 1/ 1
10894 Pacific Northwest PN2A	10.09–9.07	46.341 ; -120.191	2.60	1/ 5/ 5
10923 Pacific Northwest PN10	10.09–9.07	43.778 ; -118.142	1.82	1/ 5/ 5
<b>Hemphillian-1</b>		9.07–7.59	15 localities	
10461 Central Great Plains CP116C	9.07–7.59	40.810 ; -96.675	2.24	1/ 5/ 5
10481 Central Great Plains CP123C	9.07–7.59	37.371 ; -99.785	2.38	1/ 7/ 8
10566 Gulf Coast GC10D	9.07–7.59	30.441 ; -82.947	2.50	1/ 2/ 2
10568 Gulf Coast GC11B	9.07–7.59	29.617 ; -82.367	2.20	1/ 5/ 6
10644 Northern Great Basin NB7D	9.07–7.59	35.454 ; -118.100	2.36	1/10/11
10646 Northern Great Basin NB9	9.07–7.59	35.462 ; -117.520	2.40	1/ 2/ 2
10686 Northern Great Basin NB27B	9.07–7.59	38.830 ; -119.040	2.14	1/ 4/ 4
10693 Northern Great Basin NB31	9.07–7.59	41.925 ; -118.836	2.36	1/ 8/ 8
10926 Pacific Northwest PN11A	9.07–7.59	42.790 ; -117.739	2.22	1/ 8/ 8
10928 Pacific Northwest PN12A	9.07–7.59	44.931 ; -123.029	2.11	1/ 3/ 3
11047 Southern Great Basin SB33IIB	9.07–7.59	34.795 ; -106.692	2.67	1/ 3/ 3
11049 Southern Great Basin SB34B	9.07–7.59	35.917 ; -106.167	2.75	1/ 2/ 2
11103 Southern Great Basin SB48	9.07–7.59	29.277 ; -103.054	2.60	1/ 7/ 7
11155 Southern Great Plains SP1B	9.07–7.59	36.094 ; -99.928	2.18	1/ 4/ 4
11156 Southern Great Plains SP1C	9.07–7.59	35.684 ; -102.330	2.47	1/ 4/ 4
<b>Hemphillian-2</b>		7.59–6.88	17 localities	
10099 California CC38	7.59–6.88	35.474 ; -118.927	2.33	1/ 7/ 7
10101 California CC39B	7.59–6.88	38.556 ; -121.469	2.33	1/ 1/ 1
10378 Central Great Plains CP78	7.59–6.88	40.076 ; -102.223	2.26	1/ 7/ 7
10450 Central Great Plains CP113B2	7.59–6.88	40.549 ; -100.402	-	1/ 3/ 3
10459 Central Great Plains CP115C	7.59–6.88	42.198 ; -103.781	2.07	1/ 8/ 9
10466 Central Great Plains CP116D	7.59–6.88	40.395 ; -100.258	2.38	1/ 8/ 9

Table 1 – continued from previous page

Locality		Age	Coordinates	H	Nbs
10482	Central Great Plains CP123C1	7.59–6.88	39.056 ; -95.689	3.00	1/ 2/ 2
10571	Gulf Coast GC12	7.59–6.88	28.133 ; -81.632	3.00	1/ 2/ 2
10572	Gulf Coast GC12IIA	7.59–6.88	28.133 ; -81.632	2.60	1/ 5/ 6
10574	Gulf Coast GC13A	7.59–6.88	27.496 ; -82.540	2.29	1/ 1/ 1
10611	Gulf Coast GC27	7.59–6.88	30.848 ; -88.174	2.20	1/ 1/ 2
10927	Pacific Northwest PN11B	7.59–6.88	43.747 ; -118.419	2.22	1/ 1/ 1
10929	Pacific Northwest PN12B	7.59–6.88	44.486 ; -119.667	2.00	1/ 5/ 5
10930	Pacific Northwest PN13	7.59–6.88	43.451 ; -117.587	2.43	1/ 4/ 4
11050	Southern Great Basin SB34C	7.59–6.88	36.114 ; -105.979	2.44	1/ 9/10
11164	Southern Great Plains SP3A	7.59–6.88	36.234 ; -100.096	2.24	1/ 7/ 8
11165	Southern Great Plains SP3B	7.59–6.88	35.733 ; -100.524	2.47	1/10/10
<b>Hemphillian-3</b>		6.88–5.91	13 localities		
10097	California CC36	6.88–5.91	37.860 ; -122.146	2.60	1/ 2/ 2
10451	Central Great Plains CP113B3	6.88–5.91	41.197 ; -103.002	-	1/ 1/ 1
10460	Central Great Plains CP115D	6.88–5.91	40.810 ; -96.675	2.27	1/ 4/ 4
10467	Central Great Plains CP116E	6.88–5.91	42.393 ; -98.126	2.23	1/ 4/ 4
10470	Central Great Plains CP116III	6.88–5.91	42.730 ; -99.579	-	1/ 8/ 8
10483	Central Great Plains CP123D	6.88–5.91	39.155 ; -101.510	2.09	1/ 9/ 9
10741	Northern Great Plains NP5B	6.88–5.91	54.500 ; -115.000	2.80	1/ 1/ 1
10931	Pacific Northwest PN14	6.88–5.91	45.596 ; -118.785	2.00	1/ 7/ 7
10933	Pacific Northwest PN15	6.88–5.91	44.931 ; -123.029	2.50	1/ 4/ 4
11122	Southern Great Basin SB56II	6.88–5.91	20.478 ; -98.864	2.33	1/ 1/ 1
11146	Southern Great Basin SB64III	6.88–5.91	21.019 ; -101.263	-	1/ 1/ 1
11157	Southern Great Plains SP1D	6.88–5.91	35.993 ; -100.588	2.39	1/10/10
11166	Southern Great Plains SP4A	6.88–5.91	34.962 ; -101.192	2.29	1/ 3/ 3
<b>Hemphillian-4</b>		5.91–4.91	17 localities		
10082	California CC25B	5.91–4.91	37.600 ; -120.579	2.73	1/ 8/ 9
10098	California CC37	5.91–4.91	38.010 ; -122.301	2.67	1/ 7/ 7
10102	California CC40	5.91–4.91	33.891 ; -117.047	2.20	1/ 5/ 5
10452	Central Great Plains CP113C	5.91–4.91	40.100 ; -116.201	-	1/ 1/ 1
10468	Central Great Plains CP116F	5.91–4.91	42.816 ; -97.725	2.07	1/14/14
10493	Central Great Plains CP127	5.91–4.91	38.456 ; -97.472	2.83	1/ 4/ 4
10518	East Coast Marine EM8B	5.91–4.91	35.819 ; -78.645	2.00	1/ 1/ 1
10575	Gulf Coast GC13B	5.91–4.91	28.182 ; -81.824	2.07	1/17/19
10647	Northern Great Basin NB10	5.91–4.91	35.088 ; -118.234	2.00	1/ 2/ 2
10703	Northern Great Basin NB35IIIA	5.91–4.91	39.161 ; -119.754	2.25	1/ 0/ 0
10963	Southern Great Basin SB9	5.91–4.91	34.614 ; -113.536	2.43	1/15/15
11052	Southern Great Basin SB34IIA	5.91–4.91	35.667 ; -105.964	3.00	1/ 1/ 1
11127	Southern Great Basin SB58B	5.91–4.91	21.083 ; -100.683	1.89	1/ 2/ 2
11130	Southern Great Basin SB58IIB	5.91–4.91	20.567 ; -103.676	2.25	1/ 2/ 2
11135	Southern Great Basin SB60	5.91–4.91	28.500 ; -108.250	2.64	1/11/11
11158	Southern Great Plains SP1E	5.91–4.91	35.482 ; -97.535	3.00	1/ 2/ 2
11167	Southern Great Plains SP4B	5.91–4.91	34.953 ; -101.495	2.25	1/ 8/ 8
<b>Blancan-Early</b>		4.91–2.63	42 localities		
10105	California CC42	4.91–2.63	38.556 ; -121.469	-	1/ 1/ 1
10106	California CC43A	4.91–2.63	38.556 ; -121.469	2.50	1/ 2/ 2
10109	California CC45	4.91–2.63	38.556 ; -121.469	3.00	1/ 2/ 2
10120	California CC48C	4.91–2.63	38.556 ; -121.469	2.00	1/ 1/ 1
10125	California CC52II	4.91–2.63	30.550 ; -115.167	2.67	1/ 2/ 2
10128	California CC53	4.91–2.63	23.000 ; -112.000	2.40	1/ 3/ 3
10130	Central East America CE2	4.91–2.63	39.791 ; -86.148	2.20	1/ 2/ 2
10471	Central Great Plains CP117A	4.91–2.63	40.810 ; -96.675	2.00	1/ 3/ 4

Table 1 – continued from previous page

Locality		Age	Coordinates	H	Nbs
10472	Central Great Plains CP117B	4.91–2.63	40.810 ; -96.675	2.67	1/ 9/ 9
10473	Central Great Plains CP118	4.91–2.63	40.810 ; -96.675	2.67	1/ 7/ 9
10494	Central Great Plains CP128A	4.91–2.63	39.056 ; -95.689	2.25	1/ 8/ 8
10495	Central Great Plains CP128AA	4.91–2.63	39.056 ; -95.689	2.50	1/ 4/ 4
10496	Central Great Plains CP128B	4.91–2.63	39.056 ; -95.689	2.00	1/ 4/ 4
10497	Central Great Plains CP128C	4.91–2.63	39.056 ; -95.689	2.42	1/17/19
10500	Central Great Plains CP130	4.91–2.63	39.056 ; -95.689	2.50	1/ 0/ 0
10620	Canadian High Arctic HA3	4.91–2.63	80.167 ; -79.083	2.00	1/ 4/ 4
10655	Northern Great Basin NB13B	4.91–2.63	38.556 ; -121.469	2.67	1/ 1/ 1
10696	Northern Great Basin NB33A	4.91–2.63	37.640 ; -114.880	3.00	1/ 2/ 2
10704	Northern Great Basin NB35IIIB	4.91–2.63	38.977 ; -119.540	1.75	1/ 1/ 1
10898	Pacific Northwest PN3C	4.91–2.63	47.042 ; -122.893	1.67	1/ 4/ 4
10900	Pacific Northwest PN4	4.91–2.63	47.042 ; -122.893	2.17	1/14/14
10950	Pacific Northwest PN23A	4.91–2.63	43.614 ; -116.238	2.00	1/13/14
10951	Pacific Northwest PN23B	4.91–2.63	43.614 ; -116.238	-	1/ 2/ 2
10967	Southern Great Basin SB12	4.91–2.63	34.562 ; -112.383	3.00	1/ 1/ 1
10968	Southern Great Basin SB13	4.91–2.63	33.448 ; -112.074	2.18	1/ 7/ 7
10969	Southern Great Basin SB14A	4.91–2.63	32.114 ; -109.921	2.13	1/ 4/ 4
10970	Southern Great Basin SB14B	4.91–2.63	32.114 ; -109.921	2.17	1/ 1/ 1
10971	Southern Great Basin SB14C	4.91–2.63	33.448 ; -112.074	2.14	1/ 1/ 1
10976	Southern Great Basin SB15A	4.91–2.63	33.102 ; -109.269	2.50	1/ 3/ 3
10978	Southern Great Basin SB15C	4.91–2.63	33.448 ; -112.074	2.50	1/ 1/ 1
10979	Southern Great Basin SB16	4.91–2.63	31.538 ; -110.826	2.75	1/ 3/ 3
11053	Southern Great Basin SB34IIB	4.91–2.63	35.667 ; -105.964	2.80	1/ 2/ 2
11058	Southern Great Basin SB35A	4.91–2.63	35.667 ; -105.964	2.25	1/ 1/ 1
11059	Southern Great Basin SB35B	4.91–2.63	33.083 ; -107.250	2.50	1/ 2/ 2
11065	Southern Great Basin SB37A	4.91–2.63	35.667 ; -105.964	2.17	1/ 3/ 3
11066	Southern Great Basin SB37B	4.91–2.63	35.667 ; -105.964	2.00	1/ 2/ 2
11128	Southern Great Basin SB58C	4.91–2.63	21.083 ; -100.683	2.17	1/ 1/ 1
11142	Southern Great Basin SB63	4.91–2.63	28.000 ; -107.250	2.43	1/ 2/ 2
11144	Southern Great Basin SB64	4.91–2.63	21.000 ; -101.000	2.60	1/ 1/ 1
11159	Southern Great Plains SP1F	4.91–2.63	32.519 ; -96.381	2.29	1/12/13
11160	Southern Great Plains SP1G	4.91–2.63	35.400 ; -102.600	-	1/ 2/ 2
11202	West Coast Marine WM26	4.91–2.63	32.715 ; -117.162	2.33	1/ 2/ 2