Table 1: List of localities per time unit for North America, large herbivores. 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	Н	Nbs
Orell	lan	33.90-32.10	20 localities		
10282	Central Great Plains CP39H	33.90-32.10	42.417; -105.417	3.00	1/ 1/ 1
10288	Central Great Plains CP40B	33.90 – 32.10	42.667; -105.250	1.27	2/11/11
10290	Central Great Plains CP41B	33.90 – 32.10	43.050; -104.470	1.36	2/11/11
10295	Central Great Plains CP42C	33.90 – 32.10	42.090; -104.360	1.00	2/4/4
10304	Central Great Plains CP46	33.90 – 32.10	41.146; -104.802	1.25	2/3/3
10352	Central Great Plains CP68C	33.90 – 32.10	40.579; -103.358	1.08	2/18/23
10385	Central Great Plains CP84A	33.90 – 32.10	45.600; -103.600	1.22	2/24/36
10416	Central Great Plains CP99A	33.90 – 32.10	40.810; $-96.675$	1.16	2/20/25
10608	Gulf Coast GC24	33.90 – 33.10	32.299; -90.185	1.00	1/ 2/ 2
10756	Northern Great Plains NP10B3	33.90 – 32.10	54.500; -105.681	1.00	2/ 9/ 9
10757	Northern Great Plains NP10BB	33.40 – 32.50	54.500; -105.681	1.00	2/8/8
10817	Northern Great Plains NP27C1	33.90 – 33.40	46.596; -112.027	1.00	2/ 3/ 3
10818	Northern Great Plains NP27D	33.90 – 33.40	46.596; -112.027	1.00	2/6/6
10826	Northern Great Plains NP29F	33.90 – 32.10	46.596; -112.027	1.00	1/ 1/ 1
10829	Northern Great Plains NP30B	33.90 – 32.10	46.596; -112.027	1.00	1/ 2/ 2
10833	Northern Great Plains NP32B	33.10 – 32.10	46.596; -112.027	1.17	2/5/5
10834	Northern Great Plains NP32C	32.50 – 32.10	46.596; -112.027	1.00	2/ 7/ 8
10885	Northern Great Plains NP50B	33.90 – 32.10	46.813; -100.779	1.00	2/12/14
10904	Pacific Northwest PN6B	33.90 – 32.10	44.931; -123.029	1.00	2/2/2
10955	Southern Great Basin SB1	33.90 – 33.40	33.057; -112.047	3.00	1/ 1/ 1
Whit	tneyan	32.10-29.75	14 localities		
10283	Central Great Plains CP39I	32.10-29.75	42.417; -106.250	1.00	1/ 1/ 1
10291	Central Great Plains CP41C	32.10 – 29.75	43.050 ; -104.470	1.33	1/ 3/ 3
10353	Central Great Plains CP68D	31.40 – 29.75	39.739; -104.985	1.50	2/10/11
10386	Central Great Plains CP84B	32.10 – 29.75	44.500; -100.000	1.17	2/28/41
10389	Central Great Plains CP85A	31.40 – 29.75	43.083; -102.333	2.00	2/6/8
10417	Central Great Plains CP99B	32.10 – 29.75	40.810; -96.675	1.35	2/18/20
10761	Northern Great Plains NP10C	32.10 – 31.40	54.500; -105.681	1.00	2/10/10
10762	Northern Great Plains NP10C2	31.40 – 29.75	54.500; -105.681	1.00	2/ 7/ 7
10819	Northern Great Plains NP28A	32.10 – 29.75	46.596; -112.027	1.00	1/ 1/ 1
10837	Northern Great Plains NP34A	32.10 – 29.75	46.596; -112.027	1.00	1/ 2/ 2
10886	Northern Great Plains NP50C	32.10 – 29.75	46.813; -100.779	1.13	2/8/8
10888	Northern Great Plains NP51A	32.10 – 29.75	47.446; -102.932	1.00	2/4/4
10905	Pacific Northwest PN6B1	31.40 – 29.75	44.931; -123.029	1.00	2/4/4
10906	Pacific Northwest PN6C	31.40 – 29.75	44.931; -123.029	1.00	2/ 9/10
Arika	areean-1	29.75-28.00	17 localities		
10034	California CC9C	29.75-28.00	34.283 ; -118.917	1.36	2/11/11
10035	California CC9D	29.75 – 28.00	34.322 ; -118.786	1.22	2/ 7/ 9
10041	California CC9IVB	29.75 – 28.00	33.717; -117.696	3.00	1/ 1/ 1
10047	California CC11	29.75 – 28.00	34.500; -120.250	3.00	1/ 1/ 1
10048	California CC12	29.75 – 28.00	40.667; -117.958	1.80	2/5/5
10306	Central Great Plains CP47	29.75 – 28.00	44.118; -107.117	2.00	1/2/2
10307	Central Great Plains CP48	29.75 – 28.00	42.672; -104.756	1.82	2/12/17
	Central Great Plains CP85B	29.75 – 28.00	43.390; -102.465	1.80	2/5/5
10390			•		
$10390 \\ 10391$	Central Great Plains CP85C	29.75 - 28.00	43.083; -102.333	1.33	3/19/21
	Central Great Plains CP85C Central Great Plains CP86A	29.75 - 28.00 $29.75 - 28.00$	43.083; -102.333 43.339; -102.354	1.33 $1.43$	3/19/21 $2/7/7$

	Table 1 – cor	ntinued from p	revious page		
Locality	Table 1 col	Age	Coordinates	Н	$\mathbf{Nbs}$
10424	Central Great Plains CP101	29.75-28.00	41.615; -103.251	1.65	3/14/17
10658	Northern Great Basin NB15	29.75 - 28.00	41.772; -115.900	1.00	1/ 1/ 1
10845	Northern Great Plains NP36A	29.75 - 28.00	46.532; -112.919	1.00	2/5/5
10891	Pacific Northwest PN1A	29.75-28.00	46.666 ; -121.071	1.00	$\frac{1}{2}$ 2/2
10907	Pacific Northwest PN6D	29.75-28.00	44.665 ; -119.668	1.00	2/ 7/ 8
10908	Pacific Northwest PN6E	29.75-28.00	44.931 ; -123.029	1.00	3/ 9/11
Arik	areean-2	28.00-22.20	18 localities		
10036	California CC9E	28.00-22.20	34.275 ; -119.228	1.00	1/ 1/ 1
10049	California CC13	28.00-22.20	34.918; -118.965	1.00	2/4/5
10300	Central Great Plains CP45B	28.00-22.20	43.938 ; -110.550	1.00	1/ 1/ 1
10300	Central Great Plains CP49B	28.00-22.20	41.663; -104.260	1.40	1/ 5/ 5
10309 $10312$	Central Great Plains CP 49B  Central Great Plains CP50	28.00-22.20	42.653; -104.824	1.40	$\frac{1}{3}$ $\frac{3}{3}$ $\frac{3}{2}$
10312 $10394$	Central Great Plains CP86B	28.00-22.20	43.180; -102.420	1.55 $1.55$	$\frac{2}{10}$
	Central Great Plains CP87A				
$10399 \\ 10425$	Central Great Plains CP87A Central Great Plains CP102	28.00-22.20	43.058; -99.819 42.113 · 103.771	1.29 $1.86$	2/ 6/ 7 1/ 7/ 7
10425 $10547$	Gulf Coast GC8AA	28.00-22.20 28.00-22.20	42.113; -103.771 28.058; -82.357		, ,
			,	1.00	1/4/4
10548	Gulf Coast GC8AB	28.00-22.20	28.133 ; -81.632	1.17	2/ 6/ 6
10764	Northern Great Plains NP10CC	28.00-22.20	54.500 ; -105.681	1.44	2/ 7/ 7
10842	Northern Great Plains NP35A	28.00-22.20	46.596; -112.027	1.00	1/ 1/ 1
10846	Northern Great Plains NP36B	28.00-22.20	46.631 ; -113.028	1.00	2/ 5/ 5
10848	Northern Great Plains NP36D	28.00-22.20	46.596; -112.027	1.00	1/ 3/ 3
10850	Northern Great Plains NP37	28.00-22.20	46.653 ; -111.694	1.57	2/ 6/ 7
10892	Pacific Northwest PN1B	28.00-22.20	46.666 ; -121.071	1.00	1/2/2
10909	Pacific Northwest PN6F	28.00 - 22.20	44.931; -123.029	1.00	2/11/13
	D 10 37 11 D3715				
10936	Pacific Northwest PN17	28.00-22.20	42.543 ; -112.908	1.00	1/ 1/ 1
10936	areean-3				
10936	areean-3 California CC14	28.00-22.20	42.543; -112.908		2/ 1/ 1
10936 <b>Arik</b>	areean-3  California CC14  Central Great Plains CP52	28.00-22.20 22.20-19.09	42.543 ; -112.908 23 localities	1.00 1.00 1.50	1/ 1/ 1 2/ 1/ 1 2/20/25
10936 <b>Arik</b> 10050	California CC14 Central Great Plains CP52 Central Great Plains CP86C	28.00-22.20 22.20-19.09 22.20-19.09	42.543; -112.908 23 localities 35.490; -118.827	1.00	2/ 1/ 1
10936  Arik 10050 10315	areean-3  California CC14  Central Great Plains CP52	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908 23 localities 35.490; -118.827 42.908; -104.422	1.00 1.00 1.50	1/ 1/ 1 2/ 1/ 1 2/20/25
10936  Arik  10050 10315 10395	California CC14 Central Great Plains CP52 Central Great Plains CP86C	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908 23 localities 35.490; -118.827 42.908; -104.422 43.464; -101.655	1.00 1.00 1.50 1.20	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22
10936  Arik.  10050 10315 10395 10426	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801	1.00 1.00 1.50 1.20 1.32	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10
10936  Arik.  10050 10315 10395 10426 10538	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827  42.908; -104.422  43.464; -101.655  42.419; -103.801  31.158; -93.552	1.00 1.00 1.50 1.20 1.32 1.18	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17
10936  Arik  10050 10315 10395 10426 10538 10550	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827  42.908; -104.422  43.464; -101.655  42.419; -103.801  31.158; -93.552  28.642; -82.427	1.00 1.50 1.20 1.32 1.18 1.09	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10
10936  Arik  10050 10315 10395 10426 10538 10550 10619	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827  42.908; -104.422  43.464; -101.655  42.419; -103.801  31.158; -93.552  28.642; -82.427  75.133; -87.850	1.00 1.50 1.20 1.32 1.18 1.09	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0
10936  Arik  10050 10315 10395 10426 10538 10550 10619 10629	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423	1.00 1.50 1.20 1.32 1.18 1.09	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2
10936  Arik  10050 10315 10395 10426 10538 10550 10619 10629 10713	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169	1.00 1.50 1.20 1.32 1.18 1.09 - 2.50 1.14	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2 2/ 6/ 7
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264	1.00 1.50 1.20 1.32 1.18 1.09 - 2.50 1.14 1.00	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2 2/ 6/ 7 1/ 1/ 1
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827  42.908; -104.422  43.464; -101.655  42.419; -103.801  31.158; -93.552  28.642; -82.427  75.133; -87.850  34.867; -116.423  40.196; -74.169  39.440; -75.264  54.500; -105.681	1.00 1.50 1.20 1.32 1.18 1.09 - 2.50 1.14 1.00 1.60	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2 2/ 6/ 7 1/ 1/ 1 2/ 5/ 5 2/ 3/ 3
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827  42.908; -104.422  43.464; -101.655  42.419; -103.801  31.158; -93.552  28.642; -82.427  75.133; -87.850  34.867; -116.423  40.196; -74.169  39.440; -75.264  54.500; -105.681  44.892; -112.360	1.00 1.00 1.50 1.20 1.32 1.18 1.09 	2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2 2/ 6/ 7 1/ 1/ 1 2/ 5/ 5 2/ 3/ 3 2/10/11
10936  Arik  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	42.543; -112.908  23 localities  35.490; -118.827  42.908; -104.422  43.464; -101.655  42.419; -103.801  31.158; -93.552  28.642; -82.427  75.133; -87.850  34.867; -116.423  40.196; -74.169  39.440; -75.264  54.500; -105.681  44.892; -112.360  46.621; -111.098	1.00 1.00 1.50 1.20 1.32 1.18 1.09 	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2 2/ 6/ 7 1/ 1/ 1 2/ 5/ 5 2/ 3/ 3
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027	1.00 1.00 1.50 1.20 1.32 1.18 1.09 	1/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2 2/ 6/ 7 1/ 1/ 1 2/ 5/ 5 2/ 3/ 3 2/10/11 1/ 1/ 1 1/ 1/ 1
10936  Arik  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP35B Northern Great Plains NP36II	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027	1.00 1.50 1.20 1.32 1.18 1.09 - 2.50 1.14 1.00 1.60 1.00 1.50 1.00	1/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2 2/ 6/ 7 1/ 1/ 1 2/ 5/ 5 2/ 3/ 3 2/10/11 1/ 1/ 1 1/ 1/ 1 1/ 2/ 2
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849 10851	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP36II Northern Great Plains NP36II Northern Great Plains NP38A	28.00-22.20 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027 46.596; -112.027 44.931; -123.029	1.00 1.50 1.20 1.32 1.18 1.09 2.50 1.14 1.00 1.60 1.00 1.50 1.00 1.00 2.00 1.00	1/ 1/ 1  2/ 1/ 1  2/20/25  2/ 8/10  2/19/22  3/15/17  2/10/10  2/ 0/ 0  1/ 2/ 2  2/ 6/ 7  1/ 1/ 1  2/ 5/ 5  2/ 3/ 3  2/10/11  1/ 1/ 1  1/ 1/ 1  1/ 2/ 2  2/15/17
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849 10851 10910	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP36II Northern Great Plains NP36II Northern Great Plains NP38A Pacific Northwest PN6G	28.00-22.20 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027 46.596; -112.027 44.931; -123.029 44.760; -121.295	1.00  1.00  1.50  1.20  1.32  1.18  1.09  2.50  1.14  1.00  1.60  1.00  1.50  1.00  1.00  1.00  1.00  1.00	1/ 1/ 1  2/ 1/ 1  2/20/25  2/ 8/10  2/19/22  3/15/17  2/10/10  2/ 0/ 0  1/ 2/ 2  2/ 6/ 7  1/ 1/ 1  2/ 5/ 5  2/ 3/ 3  2/10/11  1/ 1/ 1  1/ 1/ 1  1/ 2/ 2  2/15/17  2/ 8/ 8
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849 10851 10910 10911 10912	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP36II Northern Great Plains NP36II Northern Great Plains NP38A Pacific Northwest PN6G Pacific Northwest PN6H Pacific Northwest PN6I	28.00-22.20 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027 46.596; -112.027 44.931; -123.029 44.760; -121.295 44.931; -123.029	1.00  1.00  1.50  1.20  1.32  1.18  1.09  2.50  1.14  1.00  1.60  1.00  1.50  1.00  1.00  1.00  1.00  1.00  1.00	1/ 1/ 1  2/ 1/ 1  2/20/25  2/ 8/10  2/19/22  3/15/17  2/10/10  2/ 0/ 0  1/ 2/ 2  2/ 6/ 7  1/ 1/ 1  2/ 5/ 5  2/ 3/ 3  2/10/11  1/ 1/ 1  1/ 1/ 1  1/ 2/ 2  2/15/17  2/ 8/ 8  1/ 1/ 1
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849 10851 10910 10911 10912 10957	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP35B Northern Great Plains NP36II Northern Great Plains NP38A Pacific Northwest PN6G Pacific Northwest PN6H Pacific Northwest PN6I Southern Great Basin SB3	28.00-22.20 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027 46.596; -112.027 44.931; -123.029 44.760; -121.295 44.931; -123.029 32.725; -114.624	1.00  1.00  1.50  1.20  1.32  1.18  1.09  2.50  1.14  1.00  1.60  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	1/ 1/ 1  2/ 1/ 1  2/20/25  2/ 8/10  2/19/22  3/15/17  2/10/10  2/ 0/ 0  1/ 2/ 2  2/ 6/ 7  1/ 1/ 1  2/ 5/ 5  2/ 3/ 3  2/10/11  1/ 1/ 1  1/ 1/ 1  1/ 2/ 2  2/15/17  2/ 8/ 8  1/ 1/ 1  1/ 1/ 1
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849 10851 10910 10911 10912 10957 11016	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP35B Northern Great Plains NP36II Northern Great Plains NP36II Northern Great Plains NP36A Pacific Northwest PN6G Pacific Northwest PN6H Pacific Northwest PN6I Southern Great Basin SB3 Southern Great Basin SB3	28.00-22.20 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027 46.596; -112.027 44.931; -123.029 44.760; -121.295 44.931; -123.029 32.725; -114.624 36.207; -106.319	1.00 1.50 1.20 1.32 1.18 1.09 - 2.50 1.14 1.00 1.60 1.00 1.00 1.00 1.00 1.00 1.00	1/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2 2/ 6/ 7 1/ 1/ 1 2/ 5/ 5 2/ 3/ 3 2/10/11 1/ 1/ 1 1/ 1/ 1 1/ 2/ 2 2/15/17 2/ 8/ 8 1/ 1/ 1 1/ 1/ 1 1/ 1/ 1 1/ 1/ 1 1/ 1/ 3/ 3
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849 10851 10910 10911 10912 10957	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP35B Northern Great Plains NP36II Northern Great Plains NP38A Pacific Northwest PN6G Pacific Northwest PN6H Pacific Northwest PN6I Southern Great Basin SB3	28.00-22.20 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027 46.596; -112.027 44.931; -123.029 44.760; -121.295 44.931; -123.029 32.725; -114.624	1.00  1.00  1.50  1.20  1.32  1.18  1.09  2.50  1.14  1.00  1.60  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	1/ 1/ 1  2/ 1/ 1  2/20/25  2/ 8/10  2/19/22  3/15/17  2/10/10  2/ 0/ 0  1/ 2/ 2  2/ 6/ 7  1/ 1/ 1  2/ 5/ 5  2/ 3/ 3  2/10/11  1/ 1/ 1  1/ 1/ 1  1/ 2/ 2  2/15/17  2/ 8/ 8  1/ 1/ 1  1/ 1/ 1
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849 10851 10910 10911 10912 10957 11016 11099 11100	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP35B Northern Great Plains NP36II Northern Great Plains NP36II Northern Great Plains NP38A Pacific Northwest PN6G Pacific Northwest PN6H Pacific Northwest PN6I Southern Great Basin SB3 Southern Great Basin SB46 Southern Great Basin SB46 Southern Great Basin SB46	28.00-22.20 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027 46.596; -112.027 44.931; -123.029 44.760; -121.295 44.931; -123.029 32.725; -114.624 36.207; -106.319 29.167; -103.500 29.329; -104.032	1.00 1.50 1.20 1.32 1.18 1.09 2.50 1.14 1.00 1.60 1.00 1.00 1.00 1.00 1.00 1.00	1/ 1/ 1 2/ 1/ 1 2/20/25 2/ 8/10 2/19/22 3/15/17 2/10/10 2/ 0/ 0 1/ 2/ 2 2/ 6/ 7 1/ 1/ 1 2/ 5/ 5 2/ 3/ 3 2/10/11 1/ 1/ 1 1/ 1/ 1 1/ 2/ 2 2/15/17 2/ 8/ 8 1/ 1/ 1 1/ 1/ 1 2/ 3/ 3 2/ 9/10
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849 10851 10910 10911 10912 10957 11016 11099 11100  Arik.	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP36II Northern Great Plains NP36II Northern Great Plains NP36II Northern Great Plains NP36A Pacific Northwest PN6G Pacific Northwest PN6H Pacific Northwest PN6I Southern Great Basin SB3 Southern Great Basin SB46 Southern Great Basin SB46 Southern Great Basin SB47  areean-4	28.00-22.20 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027 46.596; -112.027 44.931; -123.029 44.760; -121.295 44.931; -123.029 32.725; -114.624 36.207; -106.319 29.167; -103.500 29.329; -104.032	1.00 1.50 1.20 1.32 1.18 1.09 2.50 1.14 1.00 1.60 1.00 1.50 1.00 1.00 2.00 1.00 1.00 3.00 1.67 1.40 1.50	1/ 1/ 1  2/ 1/ 1  2/20/25  2/ 8/10  2/19/22  3/15/17  2/10/10  2/ 0/ 0  1/ 2/ 2  2/ 6/ 7  1/ 1/ 1  2/ 5/ 5  2/ 3/ 3  2/10/11  1/ 1/ 1  1/ 1/ 1  1/ 2/ 2  2/15/17  2/ 8/ 8  1/ 1/ 1  1/ 1/ 1  2/ 3/ 3  2/ 9/10  2/ 4/ 4
10936  Arik.  10050 10315 10395 10426 10538 10550 10619 10629 10713 10714 10763 10836 10839 10843 10849 10851 10910 10911 10912 10957 11016 11099 11100	California CC14 Central Great Plains CP52 Central Great Plains CP86C Central Great Plains CP103A Gulf Coast GC5A Gulf Coast GC8B Canadian High Arctic HA2 Northern Great Basin NB3A Northern East Coast NC1A Northern East Coast NC1B Northern Great Plains NP10C3 Northern Great Plains NP33B Northern Great Plains NP34C Northern Great Plains NP35B Northern Great Plains NP35B Northern Great Plains NP36II Northern Great Plains NP36II Northern Great Plains NP38A Pacific Northwest PN6G Pacific Northwest PN6H Pacific Northwest PN6I Southern Great Basin SB3 Southern Great Basin SB46 Southern Great Basin SB46 Southern Great Basin SB46	28.00-22.20 22.20-19.09	23 localities  23 localities  35.490; -118.827 42.908; -104.422 43.464; -101.655 42.419; -103.801 31.158; -93.552 28.642; -82.427 75.133; -87.850 34.867; -116.423 40.196; -74.169 39.440; -75.264 54.500; -105.681 44.892; -112.360 46.621; -111.098 46.596; -112.027 46.596; -112.027 46.596; -112.027 44.931; -123.029 44.760; -121.295 44.931; -123.029 32.725; -114.624 36.207; -106.319 29.167; -103.500 29.329; -104.032	1.00 1.50 1.20 1.32 1.18 1.09 2.50 1.14 1.00 1.60 1.00 1.00 1.00 1.00 1.00 1.00	1/ 1/ 1  2/ 1/ 1  2/20/25  2/ 8/10  2/19/22  3/15/17  2/10/10  2/ 0/ 0  1/ 2/ 2  2/ 6/ 7  1/ 1/ 1  2/ 5/ 5  2/ 3/ 3  2/10/11  1/ 1/ 1  1/ 1/ 1  1/ 2/ 2  2/15/17  2/ 8/ 8  1/ 1/ 1  1/ 1/ 1  2/ 3/ 3  2/ 9/10

Table 1 – continued from previous page						
Locality		$\mathbf{Age}$	Coordinates	$\mathbf{H}$	$\mathbf{Nbs}$	
	Control Co. 4 Dl.: CD54 A		41 601 104 544	1 40	0/10/14	
10313	Central Great Plains CP51A	19.09–18.50	41.691; -104.744	1.40	2/12/14	
10316	Central Great Plains CP53	19.09–18.50	41.682; -104.731	1.25	2/4/4	
10396	Central Great Plains CP86D	19.09–18.50	43.390 ; -102.465	1.47	2/15/15	
10429	Central Great Plains CP104A	19.09–18.50	42.417; -103.727	1.31	2/13/13	
10430	Central Great Plains CP104B	19.09–18.50	42.445 ; -103.729	1.36	2/24/28	
10528	Gulf Coast GC2	19.09–18.50	30.773; -95.321	1.50	2/4/4	
10551	Gulf Coast GC8C	19.09–18.50	29.617; -82.367	1.00	2/ 3/ 3	
10820	Northern Great Plains NP28B	19.09–18.50	46.596; -112.027	1.25	1/4/4	
10844	Northern Great Plains NP35C	19.09–18.50	45.249 ; -112.998	1.00	1/ 1/ 2	
10913	Pacific Northwest PN6J	19.09–18.50	44.931; -123.029	1.00	2/10/10	
11018	Southern Great Basin SB29A	19.09–18.50	35.458; -106.809	3.00	1/ 1/ 1	
Hem	ingfordian-1	18.50 – 17.34	32 localities			
10043	California CC9IVD	18.50 – 17.34	38.556; -121.469	1.71	2/ 7/ 7	
10052	California CC16	18.50 – 17.34	38.556; -121.469	1.50	2/7/7	
10053	California CC17A	18.50 – 17.34	38.556; -121.469	2.00	1/ 1/ 1	
10063	California CC18B	18.50 – 17.34	38.556; -121.469	2.00	1/ 1/ 1	
10302	Central Great Plains CP45D	18.50 – 17.34	43.932; -110.554	1.50	2/4/4	
10314	Central Great Plains CP51B	18.50 – 17.34	42.670; -104.084	1.33	2/ 3/ 3	
10317	Central Great Plains CP53II	18.50 – 17.34	41.146; -104.802	1.00	1/ 1/ 1	
10318	Central Great Plains CP54A	18.50 – 17.34	42.446; $-107.557$	1.33	1/3/3	
10357	Central Great Plains CP71	18.50 – 17.34	40.902; -103.270	1.56	2/15/16	
10358	Central Great Plains CP72A	18.50 – 17.34	41.001; -106.559	2.00	1/ 1/ 1	
10365	Central Great Plains CP74A	18.50 – 17.34	40.075; -105.945	1.33	1/3/3	
10402	Central Great Plains CP88	18.50 – 17.34	43.133; -101.871	1.23	2/13/13	
10431	Central Great Plains CP104C	18.50 – 17.34	42.393; -103.312	1.75	2/3/3	
10433	Central Great Plains CP105	18.50 – 17.34	42.751; $-102.022$	1.54	2/24/28	
10434	Central Great Plains CP106	18.50 – 17.34	41.809; -103.103	1.38	2/12/12	
10529	Gulf Coast GC3A	18.50 – 17.34	30.173 ; -96.671	1.43	2/7/7	
10530	Gulf Coast GC3B	18.50 - 17.34	30.388 ; -96.088	1.31	2/14/16	
10532	Gulf Coast GC4A	18.50 - 17.34	30.774 ; -95.454	1.50	2/4/4	
10539	Gulf Coast GC5B	18.50 - 17.34	30.267 ; -97.764	1.29	2/7/7	
10553	Gulf Coast GC8DA	18.50 - 17.34	28.133 ; -81.632	1.00	1/ 1/ 1	
10630	Northern Great Basin NB3B	18.50 - 17.34	34.862; -116.425	2.00	1/ 3/ 3	
10632	Northern Great Basin NB3D	18.50-17.34	38.556; -121.469	2.00	2/ 5/ 5	
10633	Northern Great Basin NB4	18.50–17.34	35.041 ; -117.688	2.00	1/4/4	
10634	Northern Great Basin NB5	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	2/ 6/ 6	
10765	Northern Great Plains NP10D	18.50–17.34	54.500 ; -105.681	1.38	2/8/8	
10914	Pacific Northwest PN6K	18.50–17.34	44.931; -123.029	1.20	$\frac{2}{10}$	
10915	Pacific Northwest PN6L	18.50–17.34	44.931; -123.029	1.50	2/6/6	
10959	Southern Great Basin SB5	18.50–17.34	33.448 ; -112.074	2.00	1/ 1/ 1	
11019	Southern Great Basin SB29B	18.50–17.34	35.500 ; -106.750	2.33	2/ 3/ 3	
11020 $11112$	Southern Great Basin SB29C Southern Great Basin SB55	18.50-17.34 $18.50-17.34$	35.600 ; -106.750 21.000 ; -101.000	2.14	2/ 7/ 7	
11112	Southern Great Dasin 5D55	18.30-17.34	21.000 ; -101.000	1.25	2/4/4	
Hem	ingfordian-2	17.34–15.97	30 localities			
10054	California CC17B	17.34 - 15.97	34.738 ; -119.238	2.00	2/ 6/ 6	
10062	California CC18A	17.34 - 15.97	38.556; -121.469	1.67	2/2/2	
10064	California CC19	17.34–15.97	34.851; -119.554	1.60	2/5/5	
10065	California CC20	17.34–15.97	35.486 ; -118.890	1.50	2/ 2/ 2	
10066	California CC21A	17.34–15.97	35.191; -118.324	1.88	2/7/7	
10069	California CC22A	17.34–15.97	34.298 ; -117.469	1.91	2/11/11	
10148	Central Great Plains CP9II	17.34–15.97	40.200 ; -106.875	3.00	1/ 1/ 1	
10149	Central Great Plains CP10	17.34 - 15.97	40.700 ; -111.883	1.50	2/2/2	

Table 1 – continued from previous page						
Locality	Table 1 – co	ntinued from p Age	Coordinates	Н	Nbs	
10319	Central Great Plains CP54B	17.34 - 15.97	42.446; $-107.557$	1.64	2/ 9/11	
10321	Central Great Plains CP54II	17.34–15.97	41.146; -104.802	1.60	$\frac{2}{5}$	
10359	Central Great Plains CP72B	17.34–15.97	39.739 ; -104.985	1.67	2/ 2/ 3	
10435	Central Great Plains CP106II	17.34–15.97	42.727; -103.155	2.00	1/1/1	
10436	Central Great Plains CP107	17.34–15.97	42.400 ; -103.031	1.54	2/23/24	
10437	Central Great Plains CP108A	17.34–15.97	42.175; -103.737	1.83	2/18/18	
10438	Central Great Plains CP108B Central Great Plains CP109A	17.34–15.97	42.178; -103.755	1.85	2/31/33	
10439 $10554$	Gulf Coast GC8DB	17.34 – 15.97 $17.34 – 15.97$	42.654; -102.785 28.133; -81.632	$\frac{1.69}{2.14}$	2/13/13 $2/6/6$	
10554 $10558$	Gulf Coast GC9B	17.34–15.97	29.917; -84.977	$\frac{2.14}{1.57}$	2/ 7/ 7	
10635	Northern Great Basin NB6A	17.34–15.97	35.032; -117.053	2.20	$\frac{2}{5}$	
10636	Northern Great Basin NB6B	17.34 - 15.97 $17.34 - 15.97$	35.032 ; -117.053	2.14	$\frac{2}{7}, \frac{3}{7}, \frac{3}{7}$	
10660	Northern Great Basin NB16	17.34–15.97	39.161; -119.754	2.00	$\frac{2}{1}, \frac{1}{2}, \frac{2}{2}$	
10661	Northern Great Basin NB17	17.34–15.97	41.652 ; -119.749	1.63	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{16}$	
10766	Northern Great Plains NP10E	17.34 - 15.97	54.500 ; -105.681	1.67	2/ 9/ 9	
10840	Northern Great Plains NP34D	17.34 - 15.97	46.596; -112.027	1.80	3/ 7/ 7	
10890	Northern Great Plains NP51B	17.34 - 15.97	47.446; -102.932	2.00	1/ 1/ 1	
10940	Pacific Northwest PN19A	17.34 - 15.97	44.801; -113.246	1.80	2/5/5	
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	2/11/11	
11111	Southern Great Basin SB54	17.34 – 15.97	30.000 ; -111.167	3.00	1/ 1/ 1	
11178	West Coast Marine WM7	17.34 – 15.97	44.931; -123.029	1.00	1/ 1/ 1	
Rars	tovian-1	15.97-14.78	39 localities			
					0.110.110	
10055	California CC17C	15.97–14.78	34.995 ; -119.575	1.90	2/10/10	
10056	California CC17D	15.97–14.78	34.765; -119.245	1.67	2/12/12	
10057	California CC17E California CC21B	15.97–14.78	34.765 ; -119.236	1.83	2/6/6	
$10067 \\ 10074$	California CC23A	15.97-14.78 $15.97-14.78$	35.190 ; -118.316	$\frac{2.00}{1.82}$	2/ 6/ 7 3/ 8/10	
10074	Central Great Plains CP74B	15.97–14.78	38.556 ; -121.469 39.739 ; -104.985	1.83	2/ 6/ 6	
10307	Central Great Plains CP75B	15.97–14.78	40.871; -103.921	1.90	$\frac{2}{3}$	
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	$\frac{1}{2}/37/38$	
10442	Central Great Plains CP111	15.97–14.78	42.690 ; -102.840	1.44	$\frac{2}{15}$	
10443	Central Great Plains CP112	15.97 - 14.78	42.913; -100.387	_	1/ 0/ 0	
10533	Gulf Coast GC4B	15.97 - 14.78	30.220 ; -96.420	2.17	2/11/12	
10534	Gulf Coast GC4C	15.97 - 14.78	30.671; -95.053	1.78	2/20/23	
10535	Gulf Coast GC4D	15.97 - 14.78	30.986; -93.673	2.22	3/ 7/ 8	
10559	Gulf Coast GC9C	15.97 - 14.78	29.917; -84.977	1.64	3/8/9	
10562	Gulf Coast GC10A	15.97 – 14.78	28.182; -81.824	2.00	3/8/9	
10563	Gulf Coast GC10AA	15.97 - 14.78	27.877; $-82.026$	2.00	1/ 1/ 1	
10637	Northern Great Basin NB6C	15.97 - 14.78	35.097; -116.620	1.90	2/18/21	
10638	Northern Great Basin NB6D	15.97 - 14.78	35.032 ; -117.053	2.11	2/9/9	
10662	Northern Great Basin NB18A	15.97 - 14.78	41.842; -119.050	1.88	3/14/15	
10664	Northern Great Basin NB19A	15.97 - 14.78	39.161; -119.754	1.88	2/6/7	
10667	Northern Great Basin NB20A	15.97 - 14.78	41.200; -119.317	1.85	2/11/13	
10669	Northern Great Basin NB21	15.97–14.78	40.967; -115.973	1.80	2/4/4	
10670	Northern Great Basin NB22A	15.97–14.78	39.261 ; -117.908	1.50	$\frac{2}{2}$	
10674	Northern Great Blaing NB24E	15.97–14.78	38.586 ; -117.926	1.93	3/12/14	
10841	Northern Great Plains NP34E	15.97–14.78	46.569 ; -111.170	1.67	2/6/6	
10853	Northern Great Plains NP38C	15.97–14.78	46.008; -111.961	2.00	$\frac{2}{9}, \frac{9}{7}, \frac{9}{7}$	
10861	Northern Great Plains NP40A Northern Great Plains NP41B	15.97-14.78	45.352; -110.733	$\frac{2.00}{2.13}$	2/7/7	
$10865 \\ 10868$	Northern Great Plains NP41B Northern Great Plains NP42	15.97-14.78 $15.97-14.78$	45.667; -111.300 46.627; -113.131	$\frac{2.13}{1.69}$	2/14/15 $2/12/13$	
10000	Pacific Northwest PN7	15.97–14.78	44.492; -119.536	1.55	$\frac{2}{12}$	
10919	Pacific Northwest PN8A	15.97–14.78	42.451; -119.322	1.80	$\frac{3}{19},\frac{19}{20}$ $\frac{2}{5},\frac{5}{5}$	
			,		, -, -	

	Table 1 co	ntinued from			
Locality	Table $1 - \cos \theta$	$egin{aligned}  ext{ntinued from 1} \  ext{Age} \end{aligned}$	coordinates	Н	$\mathbf{Nbs}$
10920	Pacific Northwest PN8B	15.97-14.78	49 474 . 117 701	1 79	3/10/11
10920 $10941$	Pacific Northwest PN19B	15.97–14.78	43.474; -117.781 44.801; -113.246	$1.73 \\ 1.73$	$\frac{3}{10}$
10941 $10945$	Pacific Northwest PN19B	15.97–14.78	42.394; -112.120	$\frac{1.73}{2.00}$	1/ 1/ 1
11022	Southern Great Basin SB30A	15.97–14.78	35.593; -106.670	3.00	1/ 1/ 1
11022	Southern Great Basin SB32AA	15.97–14.78	35.667; -105.964	3.00	1/ 1/ 1
11031 $11032$	Southern Great Basin SB32B	15.97–14.78	35.978; -105.988	$\frac{3.00}{2.15}$	$\frac{1}{2}$
11184	West Coast Marine WM13A	15.97–14.78	38.556; -121.469	1.50	$\frac{2}{24} \frac{24}{20}$
				1.00	<b>-</b> / 3/ 3
	stovian-2	14.78–12.57	50 localities		
10058	California CC17F	14.78–12.57	38.556 ; -121.469	2.00	3/ 3/ 3
10068	California CC21C	14.78–12.57	35.190 ; -118.316	1.78	2/8/8
10070	California CC22B	14.78–12.57	34.323 ; -117.486	1.60	2/5/5
10071	California CC22C	14.78–12.57	38.556 ; -121.469	1.67	2/6/6
10075	California CC23B	14.78–12.57	38.556 ; -121.469	2.00	1/ 1/ 1
10080	California CC25A	14.78–12.57	37.840 ; -120.644	2.50	3/2/2
10303	Central Great Plains CP45E	14.78 - 12.57	43.762 ; -110.555	2.33	2/ 3/ 3
10311	Central Great Plains CP49D	14.78 - 12.57	41.693; -104.206	1.00	1/1/1
10323	Central Great Plains CP56	14.78 - 12.57	41.500 ; -104.750	2.30	3/10/10
10362	Central Great Plains CP73C	14.78 - 12.57	40.595; -108.645	2.00	2/2/2
10363	Central Great Plains CP73D	14.78 - 12.57	40.460 ; -108.247	2.00	2/4/4
10371	Central Great Plains CP75BB	14.78 - 12.57	39.739 ; -104.985	1.88	3/24/25
10372	Central Great Plains CP75C	14.78 - 12.57	40.815; -104.066	2.00	3/20/22
10374	Central Great Plains CP76B	14.78 - 12.57	40.579; -103.358	2.23	3/18/22
10376	Central Great Plains CP76III	14.78 - 12.57	40.779 ; -103.971	2.00	1/ 1/ 1
10400	Central Great Plains CP87B	14.78 - 12.57	42.917; -99.750	2.44	3/ 8/ 9
10403	Central Great Plains CP89	14.78 - 12.57	43.493; -99.278	2.00	2/5/5
10404	Central Great Plains CP89II	14.78 – 12.57	43.234 ; -100.822	2.00	1/ 1/ 1
10440	Central Great Plains CP109B	14.78 - 12.57	40.810; -96.675	2.00	1/ 1/ 1
10445	Central Great Plains CP113A	14.78 - 12.57	41.597; -96.790	2.00	1/ 1/ 1
10453	Central Great Plains CP114A	14.78 - 12.57	42.784 ; -100.035	1.94	3/27/30
10454	Central Great Plains CP114B	14.78–12.57	42.827; -97.636	1.90	3/33/39
10455	Central Great Plains CP114C	14.78–12.57	42.712; -99.789	2.17	3/30/35
10463	Central Great Plains CP116A0	14.78–12.57	40.810 ; -96.675	2.00	1/ 1/ 1
10536	Gulf Coast GC4DD	14.78–12.57	31.047 ; -93.205	1.71	3/7/7
10537	Gulf Coast GC4E	14.78–12.57	30.345 ; -96.032	1.95	3/18/21
10555	Gulf Coast GC8E	14.78–12.57	28.133 ; -81.632	2.33	2/3/3
10564	Gulf Coast GC10B	14.78–12.57	28.182; -81.824	2.45	1/11/11
10610	Gulf Coast GC26	14.78–12.57	30.458; -91.140	2.00	1/1/1
10639	Northern Great Basin NB6E	14.78–12.57	35.032 ; -117.040	2.00	3/15/17
10640	Northern Great Basin NB6F	14.78–12.57	35.146 ; -116.475	2.17	3/4/5
10677	Northern Great Basin NB24II	14.78–12.57	39.161 ; -119.754	3.00	1/ 1/ 1
10678	Northern Great Basin NB25A	14.78–12.57	40.094 ; -117.577	1.00	1/ 0/ 0
10680	Northern Great Basin NB26A	14.78–12.57	41.058 ; -116.482	2.00	1/ 1/ 1
10722	Northern East Coast NC3B	14.78–12.57	38.973 ; -76.501	1.43	3/ 7/ 7
10723	Northern East Coast NC4	14.78–12.57	38.973 ; -76.501	1.00	$\frac{2}{2}$
10767	Northern Great Plains NP11	14.78–12.57	54.500 ; -105.681	1.88	3/15/16
10862	Northern Great Plains NP40B	14.78–12.57	45.296; -110.830	2.00	$\frac{2}{2}$ $\frac{2}{3}$
10870	Northern Great Plains NP43	14.78–12.57	35.225 ; -106.961	1.67	2/6/6
10893	Pacific Northwest PN1II	14.78–12.57	45.743; -120.216	2.00	1/ 1/ 1
10922	Pacific Northwest PN9B	14.78–12.57	43.452; -117.453	2.22	2/7/7
10942	Pacific Northwest PN19C	14.78–12.57	43.614; -116.238	1.77	2/12/13
10943	Pacific Northwest PN19D	14.78–12.57	43.614; -116.238	2.00	$\frac{2}{2}$ $\frac{2}{2}$
10944	Pacific Northwest PN19E	14.78–12.57	43.614; -116.238	2.00	$\frac{2}{2}$ $\frac{2}{2}$
11023	Southern Great Basin SB30B	14.78–12.57	35.458 ; -106.752	2.00	$\frac{2}{3}$ $\frac{3}{3}$
11033	Southern Great Basin SB32C	14.78–12.57	36.147; -106.243	2.00	2/4/4
11034	Southern Great Basin SB32D	14.78 – 12.57	35.825 ; -105.979	2.08	3/27/36

			_		
Locality	Table 1 – co	$egin{aligned} \mathbf{A}\mathbf{ge} \end{aligned}$	previous page Coordinates	Н	Nbs
-					
11035	Southern Great Basin SB32E	14.78–12.57	35.667; -105.964	2.00	1/4/4
11037	Southern Great Basin SB32F	14.78–12.57	36.079 ; -106.086	2.25	2/15/16
11038	Southern Great Basin SB32FF	14.78 - 12.57	36.391; -106.044	2.00	2/6/6
Clar	endonian-1	12.57 – 12.11	6 localities		
10456	Central Great Plains CP114D	12.57 – 12.11	42.642; -100.064	2.12	3/30/34
10641	Northern Great Basin NB7A	12.57 – 12.11	35.394 ; -117.944	2.00	2/3/3
10740	Northern Great Plains NP5A	12.57 – 12.11	54.500 ; -115.000	2.67	2/2/2
11043	Southern Great Basin SB33A	12.57 - 12.11	35.687; -105.938	2.00	1/ 1/ 1
11101	Southern Great Basin SB47IIA	12.57 - 12.11	30.267 ; -97.764	3.00	1/ 3/ 3
11102	Southern Great Basin SB47IIB	12.57 – 12.11	30.267 ; -97.764	3.00	1/4/4
Clar	endonian-2	12.11-10.09	34 localities		
10059	California CC17G	12.11-10.09	34.821 ; -119.337	2.11	3/ 9/ 9
10079	California CC24	12.11 – 10.09	35.126 ; -118.824	1.00	1/ 0/ 0
10086	California CC27	12.11 – 10.09	38.556; -121.469	2.75	3/ 3/ 4
10091	California CC32A	12.11 - 10.09	35.100; -118.800	2.33	2/4/4
10094	California CC34	12.11 – 10.09	33.843; -117.462	2.33	1/ 1/ 2
10320	Central Great Plains CP54C	12.11 - 10.09	42.461; $-107.487$	3.00	1/ 1/ 1
10368	Central Great Plains CP74C	12.11 - 10.09	39.739 ; -104.985	2.00	1/ 1/ 1
10405	Central Great Plains CP90A	12.11 - 10.09	43.119; -101.931	2.06	3/26/30
10406	Central Great Plains CP90B	12.11 - 10.09	43.002; -102.387	2.56	2/ 9/ 9
10457	Central Great Plains CP115A	12.11 – 10.09	40.810; $-96.675$	1.86	2/7/7
10462	Central Great Plains CP116A	12.11 - 10.09	42.421; $-98.157$	2.06	3/30/32
10478	Central Great Plains CP123A	12.11 – 10.09	39.056; $-95.689$	2.17	3/6/6
10484	Central Great Plains CP123E	12.11 - 10.09	39.082; $-99.759$	2.78	3/9/9
10487	Central Great Plains CP124	12.11 - 10.09	37.200; -99.800	1.00	1/ 1/ 1
10540	Gulf Coast GC6A	12.11 - 10.09	28.420; $-97.740$	2.22	3/15/17
10541	Gulf Coast GC6B	12.11 - 10.09	28.531 ; -97.591	2.33	3/22/26
10556	Gulf Coast GC8F	12.11 - 10.09	28.133 ; -81.632	2.50	3/8/10
10642	Northern Great Basin NB7B	12.11 - 10.09	35.394 ; -117.944	2.44	3/8/9
10645	Northern Great Basin NB8	12.11 - 10.09	35.416; -116.244	1.86	3/ 7/ 7
10675	Northern Great Basin NB23C	12.11 - 10.09	38.604; -117.843	2.20	3/12/14
10679	Northern Great Basin NB25B	12.11-10.09	40.094; -117.577	2.00	1/ 1/ 1
10681	Northern Great Basin NB26B	12.11-10.09	41.058 ; -116.482	2.00	1/ 1/ 1
10683	Northern Great Basin NB27A	12.11-10.09	38.507; -118.906	2.86	2/5/5
10688	Northern Great Basin NB28	12.11-10.09	40.446 ; -114.444	2.29	3/ 6/ 6
10724	Northern East Coast NC5	12.11-10.09	38.361; -76.388	3.00	1/ 1/ 1
10866	Northern Great Plains NP41C	12.11-10.09	46.596; -112.027	2.00	1/ 1/ 1
10961	Southern Great Basin SB7	12.11-10.09	35.198 ; -109.228	2.33	2/ 2/ 2
11025	Southern Great Basin SB30C	12.11-10.09	35.458 ; -106.765	2.67	1/3/3
11040	Southern Great Basin SB32H	12.11-10.09	36.172 ; -106.089	2.40	$\frac{2}{5}, \frac{5}{5}$
11041	Southern Great Basin SB32HH	12.11-10.09	35.667; -105.964	2.33	1/3/3
11048	Southern Great Blains SB1A	12.11-10.09	35.955 ; -106.121	2.23	3/23/26
11153	Southern Great Plains SP1A	12.11-10.09	35.643 ; -101.905	$\frac{2.32}{2.28}$	2/15/18
11162 $11163$	Southern Great Plains SP2A Southern Great Plains SP2B	$12.11-10.09 \\ 12.11-10.09$	35.066; -100.910 35.105; -100.739	$\frac{2.28}{3.00}$	3/25/28
11105	Southern Great Flams 5F2B	12.11-10.09	55.105 ; -100.759	5.00	1/ 1/ 2
Clar	endonian-3	10.09-9.07	18 localities		
10060	California CC17H	10.09 – 9.07	34.803; -119.293	2.25	3/ 8/ 8
10083	California CC26A	10.09 – 9.07	37.830 ; -121.919	3.00	1/ 2/ 2
10084	California CC26B	10.09 – 9.07	37.830 ; -121.929	2.27	3/10/10
10088	California CC30A	10.09 – 9.07	38.556; -121.469	2.25	3/4/4
10089	California CC30B	10.09 – 9.07	38.556; -121.469	2.00	2/1/1
10092	California CC32B	10.09 – 9.07	35.134 ; -118.818	2.22	3/7/7

Table $1$ – continued from previous page						
Locality		$\mathbf{Age}$	Coordinates	$\mathbf{H}$	$\mathbf{Nbs}$	
10093	California CC33	10.09-9.07	34.471;-118.441	2.67	2/ 3/ 3	
10095	California CC35A	10.09-9.07	37.878; -122.217	2.50	$\frac{2}{3}$ $\frac{3}{2}$ $\frac{2}{2}$	
10458	Central Great Plains CP115B	10.09-9.07	42.166; -103.727	2.12	3/14/15	
10480	Central Great Plains CP123B	10.09-9.07	38.878; -99.510	2.00	1/1/2	
10488	Central Great Plains CP124II	10.09-9.07	39.056; -95.689	2.33	$\frac{1}{2}, \frac{1}{3}$	
10489	Central Great Plains CP124III	10.09-9.07	39.069; -99.556	2.13	2/ 6/ 6	
10567	Gulf Coast GC11A	10.09-9.07	29.617; -82.367	2.40	3/17/19	
10666	Northern Great Basin NB19C	10.09 – 9.07	40.783 ; -116.001	2.43	3/ 5/ 5	
10689	Northern Great Basin NB29A	10.09 – 9.07	39.935 ; -119.066	2.00	3/ 7/ 7	
10894	Pacific Northwest PN2A	10.09 – 9.07	46.341; -120.191	2.60	2/4/4	
10923	Pacific Northwest PN10	10.09 – 9.07	43.778; -118.142	1.82	3/6/6	
11044	Southern Great Basin SB33B	10.09 – 9.07	35.687; -105.938	2.00	2/3/3	
Hem	phillian-1	9.07 – 7.59	20 localities			
10096	California CC35B	9.07-7.59	37.761 ; -121.989	1.00	1/ 1/ 1	
10461	Central Great Plains CP116C	9.07 - 7.59	40.810; -96.675	2.24	3/16/17	
10481	Central Great Plains CP123C	9.07 - 7.59	37.371; -99.785	2.38	3/14/16	
10566	Gulf Coast GC10D	9.07 - 7.59	30.441; -82.947	2.50	3/11/14	
10568	Gulf Coast GC11B	9.07 - 7.59	29.617; -82.367	2.20	3/17/20	
10644	Northern Great Basin NB7D	9.07 - 7.59	35.454 ; -118.100	2.36	3/11/11	
10646	Northern Great Basin NB9	9.07 - 7.59	35.462; -117.520	2.40	$\frac{1}{2}/\frac{1}{5}/\frac{1}{5}$	
10686	Northern Great Basin NB27B	9.07 - 7.59	38.830 ; -119.040	2.14	3/ 5/ 5	
10692	Northern Great Basin NB30II	9.07 - 7.59	41.311; -117.797	2.00	1/ 1/ 1	
10693	Northern Great Basin NB31	9.07 – 7.59	41.925; -118.836	2.36	3/ 9/10	
10694	Northern Great Basin NB32A	9.07 – 7.59	36.811; -114.076	2.00	1/ 1/ 1	
10871	Northern Great Plains NP45	9.07 - 7.59	46.287; -112.811	2.13	3/8/8	
10926	Pacific Northwest PN11A	9.07 – 7.59	42.790; -117.739	2.22	3/ 9/ 9	
10928	Pacific Northwest PN12A	9.07 – 7.59	44.931; -123.029	2.11	3/8/8	
11047	Southern Great Basin SB33IIB	9.07 – 7.59	34.795; -106.692	2.67	2/5/5	
11049	Southern Great Basin SB34B	9.07 – 7.59	35.917; -106.167	2.75	2/4/4	
11103	Southern Great Basin SB48	9.07 – 7.59	29.277; -103.054	2.60	2/5/5	
11113	Southern Great Basin SB55IIA	9.07 – 7.59	20.478; $-98.864$	3.00	1/4/4	
11155	Southern Great Plains SP1B	9.07 – 7.59	36.094; -99.928	2.18	3/15/16	
11156	Southern Great Plains SP1C	9.07 – 7.59	35.684; -102.330	2.47	3/16/19	
Hem	nphillian-2	7.59–6.88	22 localities			
10099	California CC38	7.59-6.88	35.474 ; -118.927	2.33	2/ 3/ 3	
10101	California CC39B	7.59 - 6.88	38.556; -121.469	2.33	3/4/4	
10378	Central Great Plains CP78	7.59 - 6.88	40.076; -102.223	2.26	3/16/19	
10459	Central Great Plains CP115C	7.59 – 6.88	42.198; -103.781	2.07	3/13/13	
10466	Central Great Plains CP116D	7.59 – 6.88	40.395; -100.258	2.38	3/19/21	
10482	Central Great Plains CP123C1	7.59 – 6.88	39.056; -95.689	3.00	1/ 1/ 1	
10491	Central Great Plains CP126	7.59 – 6.88	39.401; -100.137	2.42	3/10/11	
10569	Gulf Coast GC11C	7.59 – 6.88	28.133; -81.632	2.50	3/13/14	
10571	Gulf Coast GC12	7.59 – 6.88	28.133; -81.632	3.00	1/ 0/ 0	
10572	Gulf Coast GC12IIA	7.59 – 6.88	28.133; -81.632	2.60	3/13/15	
10573	Gulf Coast GC12IIB	7.59 – 6.88	28.133; $-81.632$	3.00	1/3/3	
10574	Gulf Coast GC13A	7.59 – 6.88	27.496; $-82.540$	2.29	3/11/13	
10611	Gulf Coast GC27	7.59 – 6.88	30.848; -88.174	2.20	3/11/13	
10927	Pacific Northwest PN11B	7.59 – 6.88	43.747; -118.419	2.22	3/ 9/ 9	
10929	Pacific Northwest PN12B	7.59 – 6.88	44.486; -119.667	2.00	3/7/7	
10930	Pacific Northwest PN13	7.59 – 6.88	43.451; -117.587	2.43	2/6/6	
11050	Southern Great Basin SB34C	7.59 – 6.88	36.114; -105.979	2.44	3/ 9/ 9	
11057	Southern Great Basin SB34V	7.59 – 6.88	35.667 ; -105.964	1.00	1/ 1/ 1	
11104	Southern Great Basin SB48II	7.59 – 6.88	33.421; -101.475	3.00	1/3/4	

Table 1 – continued from previous page						
Locality		$\mathbf{Age}$	Coordinates	$\mathbf{H}$	$\mathbf{Nbs}$	
11114	Southern Great Basin SB55IIAA	7.59-6.88	20.478; -98.864	2.50	2/4/4	
11164	Southern Great Plains SP3A	7.59 – 6.88	36.234; -100.096	2.24	3/14/17	
11165	Southern Great Plains SP3B	7.59 – 6.88	35.733 ; -100.524	2.47	3/15/17	
Hem	phillian-3	6.88-5.91	15 localities			
10008	Central America CA6B	6.88-5.91	21.067; -89.717	1.00	1/ 0/ 0	
10097	California CC36	6.88 – 5.91	37.860 ; -122.146	2.60	3/ 3/ 3	
10460	Central Great Plains CP115D	6.88 – 5.91	40.810; -96.675	2.27	3/11/11	
10467	Central Great Plains CP116E	6.88 – 5.91	42.393; -98.126	2.23	3/ 9/10	
10483	Central Great Plains CP123D	6.88 – 5.91	39.155; -101.510	2.09	3/10/10	
10741	Northern Great Plains NP5B	6.88 – 5.91	54.500; -115.000	2.80	2/5/5	
10931	Pacific Northwest PN14	6.88 – 5.91	45.596; -118.785	2.00	3/6/6	
10932	Pacific Northwest PN14II	6.88 – 5.91	43.617; -117.718	3.00	1/ 1/ 1	
10933	Pacific Northwest PN15	6.88 – 5.91	44.931; -123.029	2.50	2/4/4	
11051	Southern Great Basin SB34D	6.88 – 5.91	35.992 ; -106.047	3.00	1/ 1/ 1	
11121	Southern Great Basin SB56	6.88 – 5.91	21.000; -98.000	1.00	1/ 1/ 1	
11122	Southern Great Basin SB56II	6.88 – 5.91	20.478; -98.864	2.33	2/ 3/ 3	
11123	Southern Great Basin SB57	6.88 – 5.91	28.630; -106.080	2.50	2/ 2/ 2	
11157	Southern Great Plains SP1D	6.88 – 5.91	35.993; -100.588	2.39	3/14/18	
11166	Southern Great Plains SP4A	6.88 – 5.91	34.962; -101.192	2.29	2/ 7/ 7	
Hem	phillian-4	5.91-4.91	23 localities			
10082	California CC25B	5.91-4.91	37.600 ; -120.579	2.73	3/ 9/ 9	
10098	California CC37	5.91 – 4.91	38.010 ; -122.301	2.67	3/ 6/ 6	
10102	California CC40	5.91 – 4.91	33.891 ; -117.047	2.20	3/ 9/10	
10468	Central Great Plains CP116F	5.91 – 4.91	42.816; -97.725	2.07	3/12/12	
10493	Central Great Plains CP127	5.91 – 4.91	38.456; -97.472	2.83	1/ 6/ 6	
10518	East Coast Marine EM8B	5.91 – 4.91	35.819; -78.645	2.00	3/3/3	
10543	Gulf Coast GC6D	5.91 – 4.91	27.958; -97.779	2.88	1/6/8	
10575	Gulf Coast GC13B	5.91 – 4.91	28.182; -81.824	2.07	3/27/27	
10612	Gulf Coast GC29	5.91 – 4.91	30.458; $-91.140$	3.00	1/2/2	
10613	Gulf Coast GC31	5.91 – 4.91	33.755; -84.390	3.00	1/ 1/ 1	
10647	Northern Great Basin NB10	5.91 – 4.91	35.088; -118.234	2.00	3/6/7	
10703	Northern Great Basin NB35IIIA	5.91 – 4.91	39.161 ; -119.754	2.25	3/3/3	
10896	Pacific Northwest PN3A	5.91 – 4.91	47.042; -122.893	3.00	1/ 1/ 1	
10897	Pacific Northwest PN3B	5.91 – 4.91	46.409; -119.262	2.50	2/2/2	
10963	Southern Great Basin SB9	5.91 – 4.91	34.614; -113.536	2.43	3/6/6	
11052	Southern Great Basin SB34IIA	5.91 – 4.91	35.667 ; -105.964	3.00	1/2/2	
11054	Southern Great Basin SB34III	5.91 – 4.91	35.500 ; -106.417	3.00	1/ 1/ 1	
11127	Southern Great Basin SB58B	5.91 – 4.91	21.083; -100.683	1.89	3/9/9	
11130	Southern Great Basin SB58IIB	5.91 – 4.91	20.567 ; -103.676	2.25	2/ 8/ 8	
11133	Southern Great Basin SB59	5.91 – 4.91	21.017; -100.783	3.00	2/4/4	
11135	Southern Great Basin SB60	5.91 – 4.91	28.500 ; -108.250	2.64	3/11/11	
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	3/12/12	
Blan	can-Early	4.91-2.63	56 localities			
10085	California CC26C	4.91 – 2.63	37.830; -121.919	2.50	1/2/2	
10106	California CC43A	4.91 – 2.63	38.556; -121.469	2.50	$3/\ 3/\ 3$	
10108	California CC44	4.91 – 2.63	38.297 ; -122.284	3.00	1/ 1/ 1	
10109	California CC45	4.91 – 2.63	38.556; -121.469	3.00	1/ 1/ 1	
10117	California CC47D	4.91 – 2.63	38.556; -121.469	3.00	1/ 1/ 1	
10120	California CC48C	4.91 – 2.63	38.556; -121.469	2.00	1/ 2/ 2	
10125	California CC52II	4.91 – 2.63	30.550; -115.167	2.67	2/3/3	
10128	California CC53	4.91 – 2.63	23.000 ; -112.000	2.40	3/4/4	

Table $1$ – continued from previous page						
Locality		$\mathbf{Age}$	Coordinates	Н	$\mathbf{Nbs}$	
10130	Central East America CE2	4.91 - 2.63	39.791; -86.148	2.20	2/4/4	
10379	Central Great Plains CP80	4.91 - 2.63	37.000; -103.633	2.00	3/5/6	
10471	Central Great Plains CP117A	4.91 - 2.63	40.810; -96.675	2.00	3/8/8	
10472	Central Great Plains CP117B	4.91 - 2.63	40.810; -96.675	2.67	3/ 9/ 9	
10473	Central Great Plains CP118	4.91 - 2.63	40.810; -96.675	2.67	3/8/9	
10494	Central Great Plains CP128A	4.91 - 2.63	39.056; -95.689	2.25	3/6/6	
10495	Central Great Plains CP128AA	4.91 - 2.63	39.056; -95.689	2.50	3/6/6	
10496	Central Great Plains CP128B	4.91 - 2.63	39.056; -95.689	2.00	3/4/4	
10497	Central Great Plains CP128C	4.91 - 2.63	39.056; -95.689	2.42	3/ 9/11	
10500	Central Great Plains CP130	4.91 - 2.63	39.056; -95.689	2.50	3/ 3/ 3	
10620	Canadian High Arctic HA3	4.91 - 2.63	80.167; -79.083	2.00	2/2/2	
10651	Northern Great Basin NB12B	4.91 - 2.63	35.982 ; -117.664	1.75	3/4/4	
10654	Northern Great Basin NB13A	4.91 - 2.63	38.556; -121.469	3.00	1/ 1/ 1	
10655	Northern Great Basin NB13B	4.91 - 2.63	38.556; -121.469	2.67	2/ 6/ 6	
10695	Northern Great Basin NB32B	4.91 - 2.63	40.630 ; -119.680	2.00	1/ 1/ 1	
10696	Northern Great Basin NB33A	4.91 - 2.63	37.640 ; -114.880	3.00	2/4/4	
10704	Northern Great Basin NB35IIIB	4.91 - 2.63	38.977; -119.540	1.75	3/4/4	
10708	Northern Great Basin NB36II	4.91 - 2.63	40.630 ; -119.680	-	1/ 0/ 0	
10898	Pacific Northwest PN3C	4.91 - 2.63	47.042 ; -122.893	1.67	3/ 6/ 6	
10900	Pacific Northwest PN4	4.91-2.63	47.042; -122.893	2.17	2/ 6/ 6	
10950	Pacific Northwest PN23A	4.91 - 2.63	43.614 ; -116.238	2.00	2/ 7/ 7	
10967	Southern Great Basin SB12	4.91 - 2.63	34.562 ; -112.383	3.00	2/ 3/ 3	
10968	Southern Great Basin SB13	4.91 - 2.63	33.448 ; -112.074	2.18	3/11/11	
10969	Southern Great Basin SB14A	4.91 - 2.63	32.114; -109.921	2.13	3/8/8	
10970	Southern Great Basin SB14B	4.91 - 2.63	32.114; -109.921	2.17	3/ 6/ 6	
10971	Southern Great Basin SB14C	4.91 - 2.63	33.448 ; -112.074	2.14	3/ 7/ 7	
10976	Southern Great Basin SB15A	4.91 - 2.63	33.102; -109.269	2.50	3/ 6/ 6	
10978	Southern Great Basin SB15C	4.91 – 2.63	33.448 ; -112.074	2.50	2/2/2	
10979	Southern Great Basin SB16	4.91 – 2.63	31.538 ; -110.826	2.75	2/4/4	
10982	Southern Great Basin SB18A0	4.91 - 2.63	33.448 ; -112.074	3.00	2/2/2	
11053	Southern Great Basin SB34IIB	4.91 – 2.63	35.667; -105.964	2.80	3/ 5/ 5	
11058	Southern Great Basin SB35A	4.91 – 2.63	35.667; -105.964	2.25	3/4/4	
11059	Southern Great Basin SB35B	4.91 – 2.63	33.083; -107.250	2.50	3/ 6/ 6	
11060	Southern Great Basin SB35C	4.91 - 2.63	35.667; -105.964	2.80	3/4/5	
11061	Southern Great Basin SB35D	4.91 – 2.63	35.667; -105.964	2.43	3/5/6	
11065	Southern Great Basin SB37A	4.91 - 2.63	35.667; -105.964	2.17	3/ 5/ 6	
11066	Southern Great Basin SB37B	4.91 - 2.63	35.667; -105.964	2.00	2/3/3	
11074	Southern Great Basin SB38IIB	4.91 - 2.63	35.667; -105.964	3.00	2/2/3	
11075	Southern Great Basin SB38IIC	4.91 - 2.63	35.667; -105.964	2.57	3/4/5	
11128	Southern Great Basin SB58C	4.91 - 2.63	21.083; -100.683	2.17	2/6/6	
11140	Southern Great Basin SB61	4.91 - 2.63	28.250; -108.000	3.00	2/2/2	
11141	Southern Great Basin SB62	4.91 - 2.63	28.750; -108.250	2.33	2/ 3/ 3	
11142	Southern Great Basin SB63	4.91 - 2.63	28.000; -107.250	2.43	3/5/5	
11144	Southern Great Basin SB64	4.91 - 2.63	21.000 ; -101.000	2.60	3/4/4	
11148	Southern Great Basin SB66	4.91 – 2.63	19.433; -99.133	2.33	2/ 3/ 3	
11159	Southern Great Plains SP1F	4.91 – 2.63	32.519; -96.381	2.29	3/ 5/ 6	
11160	Southern Great Plains SP1G	4.91 – 2.63	35.400 ; -102.600	-	1/ 0/ 0	
11202	West Coast Marine WM26	4.91 – 2.63	32.715; -117.162	2.33	3/3/3	