

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
1915 YT	35700±2000	AA17542	39710	2110	36, 37	L Molar, NMC773	Brown et al. 1988			16	3+4+4+0+2+1+2
AC'N 34 YT	>38600	AA17541	>38600		36, 37	U Molar, NMC7736	Brown et al. 1988			15	3+4+4+0+1+1+2
Alaska	16170±210	AA17576	19360	310	36, 37	L Molar, NMC6742	Brown et al. 1988			17	3+4+4+0+3+1+2
Alaska	22760±430	AA14951	27360	540	36, 37	L Molar, AK208-V-1	Brown et al. 1988			17	3+4+4+0+3+1+2
American River	16940±210	AA17571	20360	250	36, 37	L Molar, NMC330	Brown et al. 1988			17	3+4+4+0+3+1+2
Anvik	>41097	AA26037	>41097		36, 37	L Molar, UNM6668	Brown et al. 1988			15	3+4+4+0+1+1+2
Ash Bend, YT	31740±440	UCIAMS4 1494	35660	520	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Baldwin Peninsula	26900 ± 3400	AU-90	31170	3480	33, 99	twigs and peaty debris		thermokarst pond sediments		11	1+1+2+1+3+1+2
Ban Creek	14679±174	AA14882	17840	140	36, 37, 155	AM527	Brown et al. 1988			17	3+4+4+0+3+1+2
Ban Creek	15373±101	AA14932	18390	270	36, 37	L Molar, AM8460	Brown et al. 1988			19	3+4+4+0+3+3+2
Ban Creek	15453±99	AA14920	18650	60	36, 37	U Molar, AM BC32	Brown et al. 1988			19	3+4+4+0+3+3+2
Ban Creek	15540±145	AA14894	18700	90	36, 37, 154, 155	AM 493	Brown et al. 1988			19	3+4+4+0+3+3+2
Beaver Creek	36700±2400	AA25998	40480	2330	36, 37	L Molar				16	3+4+4+0+2+1+2
Big Creek	48100 ± 1100	GSC-3032	51780	1990	8, 84	Salix sp. (24.3 g)	High pressure	frozen peat		12	1+3+2+1+2+1+2
Bluefish Cave	13390±180	RIDDL-279	16330	420	37		Brown et al. 1988			17	3+4+4+0+3+1+2
Bluefish Cave	17880±330	RIDDL-330	21550	490	37		Brown et al. 1988			17	3+4+4+0+3+1+2
Bluefish Cave 1	12190±500	CRNL-1220-b	14490	740	12, 15, 16, 68, 85	tibia collagen				14	2+2+4+0+3+1+2

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Bluefish Cave 1	12845 ± 430	CRNL-1220	15500	820	12, 15, 16, 68, 85	tibia collagen		lower loess, unit J7, part of ""bone pile"" feature	Dated 3 times with statistical outliers	18	3+2+4+3+3+1+2
Bluefish Cave 1	13070±400	CRNL-1220-a	15860	680	12, 15, 16, 68, 85	tibia collagen				14	2+2+4+0+3+1+2
Bluefish Cave 1	13280±390	CRNL-1220-c, CARD	16130	590	12, 15, 16, 68, 85	tibia collagen				14	2+2+4+0+3+1+2
Bluefish Cave 1	13940 ± 160	RIDDL-559	17170	170	12, 15, 16, 68, 85	humerus collagen		bone pile in front of cave 1	Dated 3 times with statistical outliers	19	3+2+4+4+3+1+2
Bluefish Cave 2	15500 ± 130	GSC-3053	18670	80	12, 15, 16, 68, 77, 85	scapula collagen		lower loess, unit D6		18	3+2+4+1+3+3+2
Bluefish Cave 2	17860 ± 440	CRNL-1221-b	21530	600	12, 15, 16, 68, 77, 85	scapula collagen		lower loess, unit D6		18	3+2+4+3+3+1+2
Bluefish Cave 2	17880 ± 470	CRNL-1221	21540	620	12, 15, 16, 68, 77, 85	scapula collagen		lower loess, unit D6		18	3+2+4+3+3+1+2
Bluefish Cave 2	17900±500	CRNL-1221a	21560	650	12, 15, 16, 68, 77, 85	scapula collagen		lower loess, unit D6		18	3+2+4+3+3+1+2
Bluefish Cave 2	19640 ± 170	RIDDL-330	23520	150	12, 15, 16, 68, 77, 85	scapula collagen		lower loess, unit D6		16	3+2+4+1+3+1+2
Bluefish Cave 2	20230 ± 180	RIDDL-223	24170	260	12, 15, 16, 68, 77, 85	scapula collagen		lower loess, unit D6		16	3+2+4+1+3+1+2
Bluefish Cave 2	22740 ± 90	CAMS-23470	27470	330	12, 15, 16, 68, 77, 85	limb bone collagen		lower loess, unit K7		18	3+2+4+1+3+3+2
Bluefish Cave 2	23200 ± 250	RIDDL-225	27980	210	12, 15, 16, 68, 77, 85	limb bone collagen		lower loess	possible bone core	16	3+2+4+1+3+1+2

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Bluefish Cave 2	23910 ± 200	RIDDL-224	28810	380	12, 15, 16, 68, 77, 85	limb bone collagen		lower loess	possible bone flake	17	3+2+4+2+3+1+2
Bluefish Cave 3	22430 ± 260	RIDDL-558	27110	470	12, 15, 16, 68, 77, 85	rib collagen		lower loess	18	16	3+2+4+1+3+1+2
Bristol Bay	28440±850	AA25997	32980	750	36, 37, 154	50AEM47	Brown et al. 1988			17	3+4+4+0+3+1+2
Bristol Bay	34400±1800	AA26034	38790	2090	36, 37	UNM1116 1	Brown et al. 1988			17	3+4+4+0+3+1+2
Bristol Bay Mammoth	18860 ± 500	GX-5738 A	22560	630	23, 84	molar bone collagen	no collagen recovered	sea bottom		15	2+3+4+0+3+1+2
Broken Mammoth	11540 ± 140	AA-17601	13430	140	37, 59, 84, 124	collagen	tusk	cultural zone 4B		23	3+4+4+4+3+3+2
Broken Mammoth	11770±80		13670	80	153			CZ 4		23	3+4+4+4+3+3+2
Broken Mammoth	15830±70	BETA-67690; CAMS-9898	18890	80	37, 59	tusk				23	3+4+4+4+3+3+2
Cadzow Bluff	24700 ± 250	RIDDL-229	29600	260	82, 84, 86	tusk	collagen extraction method 1	50 cm below the base of upper glaciolacustrine unit, in fine brown loess		18	3+3+4+2+3+1+2
Cadzow Bluff	25170±630	CRNL-1232	30080	700	82, 84, 86	tusk		50 cm below the base of upper glaciolacustrine unit, in fine brown loess		18	3+3+4+2+3+1+2
Candle	>41100	AA22618	>41100		36, 37	AK V-9-1	Brown et al. 1988			15	3+4+4+0+1+1+2

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Canyon Creek	030 AND 404	SMU-649 (this lab No. on another specimen too)	42090	1760	119					7	3+3+4+1+3+1+2
Cape Lisbourn	11910±130	AA26006	13820	160	36, 37	UNM6648	Brown et al. 1988			19	3+4+4+0+3+3+2
Cape Prince Wales	12440±130	AA26017	14700	320	36, 37	UNM6558	Brown et al. 1988			19	3+4+4+0+3+3+2
Cape Prince Wales	>38155	AA26038	>38155		36, 37	UNM6559	Brown et al. 1988			15	3+4+4+0+1+1+2
Cape Thompson	15654±218	AA22619	18830	200	36, 37	AK-V-10-47	Brown et al. 1988			17	3+4+4+0+3+1+2
Carmaks Area	38400±2800	AA17585	42120	2640	36, 37	NMC4209 9	Brown et al. 1988			16	3+4+4+0+2+1+2
Carmaks Area	>38500	AA17586	>38500		36, 37	NMC4206 8	Brown et al. 1988			15	3+4+4+0+1+1+2
Carmaks Area	>38500	AA17586	>38500		36, 37	NMC4206 8	Brown et al. 1988			15	3+4+4+0+1+1+2
Chena	13380±88	AA14944	16480	250	36, 37	U Molar	Brown et al. 1988			19	3+4+4+0+3+3+2
Ch'ijees's Bluff, YT	>45400	UCIAMS4 1492	>45400		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2
Chukchi Sea	28920 ± 2250	GX-5740	33520	2110	23, 51, 84	tusk, apatite	Brown et al. 1988	sea bottom, -42 m		15	3+3+4+0+3+1+1
Circle City	>44400	AA17572	>44400		36, 37	U Molar, NMC6599	Brown et al. 1988			15	3+4+4+0+1+1+2
Cleary Creek	12337±108	AA14938	14510	270	36, 37	U Molar, AM 11	Brown et al. 1988			19	3+4+4+0+3+3+2
Cleary Creek	12476±81	AA14916	14870	160	36, 37	L Molar, AM 470	Brown et al. 1988			19	3+4+4+0+3+3+2
Cleary Creek	13436±87	AA14934	16650	150	36, 37	L Molar, AM 24	Brown et al. 1988			19	3+4+4+0+3+3+2
Cleary Creek	14093±163	AA14892	17320	200	36, 37, 154, 155	L Molar, AM 504	Brown et al. 1988			17	3+4+4+0+3+1+2

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Cleary Creek	14390±92	AA14923	17580	140	36, 37	AM 508	Brown et al. 1988			19	3+4+4+0+3+3+2
Cleary Creek	15102±135	AA14912	18260	230	36, 37	L Molar, AM 503	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary Creek	15513±192	AA14910	18500	300	36, 37	L Molar, AM 1032	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary Creek	16168±209	AA14866	19360	300	36, 37, 155	L Molar, AM 280	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary Creek	18379±124	AA14935	22070	270	36, 37, 154	U Molar, AM 8052	Brown et al. 1988			19	3+4+4+0+3+3+2
Cleary Creek	21848±175	AA14917	26210	330	36, 37	U Molar, AM 525	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary Creek	25362±584	AA14870	30370	600	36, 37, 155	L Molar, AM 274	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary Creek	29104±465	AA14907	33500	480	36, 37	U Molar, AM 524	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary Creek	31547±773	AA14907	35950	1070	36, 37	U Molar, AM 530	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary Creek	40415±1341	AA14911	44110	1060	36, 37, 154	L Molar, AM 5025	Brown et al. 1988			16	3+4+4+0+2+1+2
Cleary Creek	42764±1737	AA14906	46170	1770	36, 37, 154	U Molar, AM 10412	Brown et al. 1988			16	3+4+4+0+2+1+2
Cleary Creek	43239±1878	AA14904	46680	1980	36, 37, 154	assume tooth or collagen AM 523	Brown et al. 1988			16	3+4+4+0+2+1+2
Cleary Creek	>40912	AA14886	>40912		36, 37	L Molar, AM 505	Brown et al. 1988			15	3+4+4+0+1+1+2
Cleary Creek	>40924	AA14878	>40924		36, 37	L Molar, AM 112	Brown et al. 1988			15	3+4+4+0+1+1+2
Cleary Creek	>41063	AA14862	>41063		36, 37, 155	U Molar, AM 142	Brown et al. 1988			15	3+4+4+0+1+1+2
Cleary Creek	>41097	AA14861	>41097		36, 37	U Molar, AM 305	Brown et al. 1988			15	3+4+4+0+1+1+2
Collinson Pt, AK	37700±2600	AA17570	41430	2460	36, 37	U Molar, NMC222	Brown et al. 1988			16	3+4+4+0+1+2

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Colorado Creek	12980 ± 250	Beta-9906	15830	510	33, 51, 84, 113	mandible collagen		unit 7/8, upper mammoth horizon		17	2+1+3+3+3+1+4
Colorado Creek	15090 ± 170	Beta-5691	18250	240	33, 51, 84, 113	thoracic vertebra collagen		unit 7/8, upper mammoth horizon		18	2+2+3+3+3+1+4
Colorado Creek	15280 ± 120	Beta-1699	18340	260	33, 51, 84, 113	mandible collagen		unit 7/8, upper mammoth horizon	Has a statistical outlier	20	2+2+3+3+3+3+4
Colorado Creek	16150±230	AA-683	19350	320	37		Brown et al. 1988			17	3+4+4+0+3+1+2
Colville River	>41100	AA14959	>41100		36, 37	L Molar, AK 119-V-1	Brown et al. 1988			15	3+4+4+0+1+1+2
CRH-149	13250±70	Beta-79835	16180	310	36, 37		Brown et al. 1988			19	3+4+4+0+3+3+2
Cripple Creek	26022±640	AA14855	30860	590	36, 37, 154, 155	U Molar, AM 2446	Brown et al. 1988			17	3+4+4+0+3+1+2
Cripple Creek	35604±985	AA14931	40310	1190	36, 37	U Molar, AM 2581	Brown et al. 1988			16	3+4+4+0+2+1+2
Cripple Creek	38490±1005	AA14937	42730	650	36, 37	L Molar, AM 840	Brown et al. 1988			16	3+4+4+0+2+1+2
Cripple Creek	>41064	AA14871	>41064		36, 37, 155	L Molar, AM 2015	Brown et al. 1988			15	3+4+4+0+1+1+2
Cripple Creek	>41086	AA14857	>41086		36, 37, 154, 155	U Molar, AM 2527	Brown et al. 1988			15	3+4+4+0+1+1+2
Cripple Creek	>41094	AA14858	>41094		36, 37, 154, 155	U Molar, AM 2442	Brown et al. 1988			15	3+4+4+0+1+1+2
Cripple Creek	>41097	AA14859	>41097		36, 37	U Molar, AM 2382	Brown et al. 1988			15	3+4+4+0+1+1+2
Cripple Creek	>49894	AA14905	>49894		36, 37, 154	L Molar, AM 2378	Brown et al. 1988			15	3+4+4+0+1+1+2
Cripple Hill, YT	37800±2700	AA17545	41510	2550	36, 37, 154	L Molar, NMC11340	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	11860±120	AA17559	13760	140	36, 37	U Molar, NMC36259	Brown et al. 1988			19	3+4+4+0+3+3+2

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Dawson Area	26800±690	AA17569	31420	620	36, 37	L Molar, NMC5673	Brown et al. 1988			17	3+4+4+0+3+1+2
Dawson Area	27490±750	AA17549	32200	650	36, 37	U Molar, NMC36258	Brown et al. 1988			17	3+4+4+0+3+1+2
Dawson Area	37920±2700	AA17535	32420	2600	36, 37, 154	L Molar, NMC42292	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	28400±840	AA17566	32950	740	36, 37	L Molar, NMC8140	Brown et al. 1988			17	3+4+4+0+3+1+2
Dawson Area	35400±2000	AA17532	39450	2160	36, 37	U Molar, NMC11708	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	36600±2300	AA17534	40430	2240	36, 37, 154	L Molar, NMC43124	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	37100±2400	AA17560	40880	2280	36, 37	U Molar, NMC25259	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	37600±2600	AA17536	41330	2460	36, 37	L Molar, NMC46221	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	37700±2600	AA2660	41430	2460	36, 37	L Molar, NMC4660	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	38600±2900	AA17553	42320	2740	36, 37, 154	U Molar, NMC49929	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	38800±3100	AA17547	42520	2940	36, 37	L Molar, NMC35836	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	38900±3100	AA17557	42630	2940	36, 37	L Molar, NMC26024	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	39800±3400	AA17588	43790	3090	36, 37	U Molar, NMC47585	Brown et al. 1988			16	3+4+4+0+2+1+2
Dawson Area	39800±3400	AA17550	43790	3090	36, 37	NMC50124	Brown et al. 1988			16	3+4+4+0+2+1+2

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Dawson Area	46600±200	UCIAMS3 9883	49830	1320	154	Bone or tooth collagen	KCCAMS protocol			17	3+5+4+0+2+1+2
Dawson Area	>37100	AA17577	>37100		36, 37	U Molar, NMC4992 7	Brown et al. 1988			15	3+4+4+0+1+1+2
Dawson Area	>37800	AA17546	>37800		36, 37	L Molar, NMC4992 8	Brown et al. 1988			15	3+4+4+0+1+1+2
Dawson Area	>46200	UCIAMS3 9884	>46200		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2
Dawson Cut	>41069	AA14885	>41069		36, 37	L Molar, AM 5454	Brown et al. 1988			15	3+4+4+0+1+1+2
Dawson Locality No. 10	25680 ± 580	I-8583	30630	580	46, 50, 75, 4	metatarsal collagen		placer mine		16	3+2+4+1+3+1+2
Dawson Locality No. 12	34250±580	Beta-79855	39540	1040	84, 125	molar, NMC9927		placer mine		18	3+4+4+1+3+1+2
Dawson Locality No. 32	32350 ± 1750	I-4226	37300	2190	44, 45, 54, 84	thoracic vertebra collagen		muck, placer mine	downslope movement	17	4+2+4+1+3+1+2
Dawson Locality No. 60	37220±830	LU-3010	41990	520	84	humerus collagen		organic silt at a placer mine		18	4+4+4+1+2+1+2
Dawson Locality No. 62	34700±1900	AA17529	38960	2140	36, 37	L Molar, NMC4662 2	Brown et al. 1988			17	3+4+4+0+3+1+ 2
Dawson Locality No. 8	20190±400	I-10971	24120	430	44, 46, 84	mandible collagen, NMC2927 0		muck, placer mine		15	3+1+4+1+3+1+2
Dome Creek	13661±156	AA14889	16850	140	36, 37	L Molar, AM3187	Brown et al. 1988			17	3+4+4+0+3+1+2
Dome Creek	14372±92	AA14919	17560	150	36, 37, 154	L Molar, AM 1006	Brown et al. 1988			19	3+4+4+0+3+3+2
Dome Creek	32700 ± 980	St-1632	37270	1360	35, 51, 84, 89	hair from skull		muck		17	4+2+4+1+3+1+2



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Dominion Creek	31200±1200	AA17554	35870	1460	36, 37	L Molar, NMC4457 2	Brown et al. 1988			17	3+4+4+0+3+1+2
Dominion Creek	31600±1300	AA17531	36290	1580	36, 37	U Molar, NMC1170 8	Brown et al. 1988			17	3+4+4+0+3+1+2
Dominion Creek	>35600	AA17568	>35600		36, 37	L Molar, NMC8139	Brown et al. 1988			15	3+4+4+0+1+1+2
Dominion Creek	>38500	AA17548	>38500		36, 37	U Molar, NMC8141	Brown et al. 1988			15	3+4+4+0+1+1+2
Eldorado Creek	30000±1000	AA17538	34200	910	36, 37	U Molar, NMC4213 5	Brown et al. 1988			17	3+4+4+0+3+1+2
Elephant Point	27630±770	AA26012	32340	660	36, 37	tusk	Brown et al. 1988			17	3+4+4+0+3+1+2
Elephant Point	33338±1537	AA14358	38180	2060	36, 37	U Molar, AM14371	Brown et al. 1988			17	3+4+4+0+3+1+2
Elephant Point	>38400	AA26011	>38400		36, 37	UNM1089 2	Brown et al. 1988			15	3+4+4+0+1+1+2
Elephant Point	>39700	AA22614	>39700		36, 37	AK1961	Brown et al. 1988			15	3+4+4+0+1+1+2
Elephant Point	>40900	AA14952	>40900		36, 37	L Molar, AK-V-167	Brown et al. 1988			15	3+4+4+0+1+1+2
Elephant Point	>41100	AA26008	>41100		36, 37	UNM8854	Brown et al. 1988			15	3+4+4+0+1+1+2
Engineer Creek	12429±178	AA14860	14670	390	36, 37	U Molar, AM1375	Brown et al. 1988			17	3+4+4+0+3+1+2
Engineer Creek	40515±3850	AA14874	44720	3580	36, 37, 155	L Molar, AM8127	Brown et al. 1988			16	3+4+4+0+2+1+2
Engineer Creek	47116±2854	AA14893	50910	3480	36, 37, 155	U Molar, AM8001	Brown et al. 1988			16	3+4+4+0+2+1+2
Engineer Creek	>41037	AA14877	>41037		36, 37, 155	L Molar, AM 5852	Brown et al. 1988			15	3+4+4+0+1+1+2
Engineer Creek	>41089	AA14863	>41089		36, 37	U Molar, AM 8018	Brown et al. 1988			15	3+4+4+0+1+1+2
Engineer Creek	>41096	AA14865	>41096		36, 37, 155	L Molar, AM 8321	Brown et al. 1988			15	3+4+4+0+1+1+2

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Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Epiguruk	14130 ± 60	USGS-1658	17300	130	39, 40, 84	rooted shrubs (salix)		downslope movement		18	1+4+2+3+3+3+2
Epiguruk	14160 ±140	USGS-1657	17,360	190	39, 40, 84	detrital wood		downslope movement		18	1+4+2+3+3+3+2
Epiguruk	18,520±120	USGS-1451	22230	260	39, 40, 84	wood fragments		base of late Wisconsin alluvium-1142m. Downslope movement		18	1+4+2+3+3+3+2
Epiguruk	18,560±70	USGS-1485	22440	70	39, 40, 84	fibula collagen		downslope movement		22	3+4+4+3+3+3+2
Epiguruk	18,970±170	USGS-1441	22870	210	39, 40, 84	peat		downslope movement		20	3+4+4+3+3+1+2
Epiguruk	19,060±90	USGS-1439	22950	150	39, 40, 84	rib collagen		downslope movement		20	3+4+4+3+3+1+2
Epiguruk	19,570±130	USGS-1448	23460	110	39, 40, 84	peat		base of late Wisconsin alluvium-1142m. Downslope movement		20	1+4+4+3+3+3+2
Epiguruk	23,560±160	USGS-1442	28290	140	39, 40, 84	<i>in situ</i> roots (salix)		base of late Wisconsin alluvium-1538m. Downslope movement		18	1+4+4+3+3+1+2
Epiguruk	23,620±110	USGS-1438	28310	110	39, 40, 84	mandible collagen		base of late Wisconsin alluvium-1538m. Downslope movement		22	3+4+4+3+3+3+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Epiguruk	33,670±280	USGS-1443	38780	1540	39, 40, 84	detrital twigs (salix)		from alluvium of upper paleosol, 2250m. Downslope movement		18	1+4+4+3+3+1+2
Epiguruk	34,620±560	USGS-1440	39830	930	39, 40, 84	rib collagen		from alluvium of upper paleosol, 2250m. Downslope movement		20	3+4+4+3+3+1+2
Escholtz Bay	12508±145	AA14357	14850	300	36, 37	U Molar, AM13752	Brown et al. 1988			19	3+4+4+0+3+3+2
Escholtz Bay	14260±160	AA26033	17440	200	36, 37	UNM16502	Brown et al. 1988			17	3+4+4+0+3+1+2
Escholtz Bay	35100±2000	AA26007	39220	2190	36, 37	UNM8847	Brown et al. 1988			16	3+4+4+0+2+1+2
Escholtz Bay	>36100	AA25995	>36100		36, 37	L Molar, UNM 4162	Brown et al. 1988			15	3+4+4+0+1+1+2
Escholtz Bay	>37800	AA22616	>37800		36, 37	Scapula	Brown et al. 1988			15	3+4+4+0+1+1+2
Escholtz Bay	>40936	AA14353	>40936		36, 37	L Molar, AM 103259	Brown et al. 1988			15	3+4+4+0+1+1+2
Escholtz Bay	>41097	AA26039	>41097		36, 37	UNM4162	Brown et al. 1988			15	3+4+4+0+1+1+2
Ester Creek	13410±152	AA14883	16380	380	36, 37, 155	L Molar, AM1021	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	14115±88	AA14900	17300	150	36, 37	L Molar, AM1419	Brown et al. 1988			19	3+4+4+0+3+3+2
Ester Creek	16789±100	AA14896	20190	130	36, 37, 154, 155	L Molar, AM8744	Brown et al. 1988			19	3+4+4+0+3+3+2
Ester Creek	18041±275	AA14890	21760	410	36, 37	L Molar, AM8090	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	37331±2516	AA14869	41080	2380	36, 37, 155	L Molar, AM7792	Brown et al. 1988			16	3+4+4+0+2+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ester Creek	46391±2699	AA14939	50120	3180	36, 37, 154	U Molar, AM1114	Brown et al. 1988			16	3+4+4+0+2+1+2
Ester Creek	>40925	AA14875	>40925		36, 37, 155	L Molar, AM 8100	Brown et al. 1988			15	3+4+4+0+1+1+2
Ester Creek	>41088	AA14891	>41088		36, 37	L Molar, AM 4504	Brown et al. 1988			15	3+4+4+0+1+1+2
Fairbanks	12622±750	W-401	15180	1160	3, 23					16	3+3+4+0+3+1+2
Fairbanks Area	27436±308	AA14930	32070	240	36, 37	U Molar, AM5186	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Area	39700±3400	AA22572	43630	3140	36, 37, 154	L Molar, AK2036-5	Brown et al. 1988			16	3+4+4+0+2+1+2
Fairbanks Area	>38900	AA14962	>38900		36, 37	L Molar, AK203-V-1	Brown et al. 1988			15	3+4+4+0+1+1+2
Fairbanks Area	>41007	AA14884	>41007		36, 37, 154, 155	L Molar, AM 5332	Brown et al. 1988			15	3+4+4+0+1+1+2
Fairbanks Creek	14023±98	AA14895	17200	120	36, 37, 155	L Molar, AM500	Brown et al. 1988			19	3+4+4+0+3+3+2
Fairbanks Creek	15380 ± 300	SI-453	18420	340	26, 51, 84, 89, 107	animal remains, hind leg		partial carcass in a lens of gravel within muck, near a grey chert biface, association unclear		16	4+2+4+0+3+1+2
Fairbanks Creek	15917±106	AA14915	19010	140	36, 37	L Molar, AM5003	Brown et al. 1988			19	3+4+4+0+3+3+2
Fairbanks Creek	17170±70	CAMS-19253	20620	100	37		Brown et al. 1988			19	3+4+4+0+3+3+2
Fairbanks Creek	17550±80	CAMS-19250	21070	120	37		Brown et al. 1988			19	3+4+4+0+3+3+2
Fairbanks Creek	19477±173	AA14929	23350	170	36, 37	U Molar, AM5002	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	21300 ± 1300	L-601	25650	1620	14, 26, 51, 84, 88, 89	hide and flesh from head	skin soaked in glycerine	muck, placer mine		16	4+2+4+0+3+1+2

Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Fairbanks Creek	35537±714	AA14926	40360	1050	36, 37	U Molar, AM1227				16	3+4+4+0+2+1+2
Fairbanks Creek	39151±3232	AA14856	42910	3070	36, 37, 154, 155	U Molar, AM5025				16	3+4+4+0+2+1+2
Fairbanks Creek	39805±1225	AA14927	43660	920	36, 37, 154	U Molar, AM140				16	3+4+4+0+2+1+2
Fairbanks Creek	40552±1435	AA14914	44230	1140	36, 37	L Molar, AM5096				16	3+4+4+0+2+1+2
Fairbanks Creek	46348±2712	AA14898	50090	3180	36, 37	L Molar, AM2123	Brown et al. 1988			16	3+4+4+0+2+1+2
Finning, YT	28960±310	UCIAMS3 9115	33430	390	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Finning, YT	29030±310	UCIAMS3 9112	33490	380	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Finning, YT	29170±320	UCIAMS3 9114	33600	370	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Finning, YT	44700±2200	UCIAMS3 9887	48210	2470	154	Bone or tooth collagen	KCCAMS protocol			17	3+5+4+0+2+1+2
Finning, YT	45700±2500	UCIAMS3 9113	49350	2900	154	Bone or tooth collagen	KCCAMS protocol			17	3+5+4+0+2+1+2
Forty Mile	13226±85	AA14925	16140	320	36, 37	U Molar, AM1287	Brown et al. 1988			19	3+4+4+0+3+3+2
Fox	16243±105	AA14899	19450	180	36, 37	L Molar, AM10319	Brown et al. 1988			19	3+4+4+0+3+3+2
Fox Permafrost Tunnel	11910 ± 180	I-12657	13910	280	41, 51, 84, 90	wood		debris fan gravels	plant debris from same gravel unit dated 12570±390	13	1+3+2+1+3+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Fox Permafrost Tunnel	12570 ± 390	I-22656	14960	710	41, 51, 84, 90	peat		debris fan gravels	Wood debris from same gravel unit dated 11910±180 .	12	1+3+2+0+3+1+2
Fox Permafrost Tunnel	13470 ± 420	I-2196	16320	620	41, 51, 84, 90	mammal bone		debris fan gravels		14	3+3+2+0+3+1+2
Fox Permafrost Tunnel	14280 ± 230	I-2197	17440	240	41, 51, 84, 90	mammal bone		debris fan gravels		14	3+3+2+0+3+1+2
Galena	11500±160	AA22573	13400	160	36, 37	U Molar, AKA-1011	Brown et al. 1988			17	3+4+4+0+3+1+2
Gilmore Creek	23808±487	AA14881	28780	560	36, 37, 155	L Molar, AM100	Brown et al. 1988			17	3+4+4+0+3+1+2
Gold Hill	>41027	AA14887	>41027		36, 37, 154, 155	U Molar, AM 4136	Brown et al. 1988			15	3+4+4+0+1+1+2
Gold Run	34500±1800	AA17565	38860	2090	36, 37	U Molar, NMC1353 2	Brown et al. 1988			17	3+4+4+0+3+1+2
Gold Run Creek	31200±1200	AA17539	35870	1460	36, 37	U Molar, NMC4245 1	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	12123±88	AA14940	14190	230	36, 37	U Molar, AM6675	Brown et al. 1988			19	3+4+4+0+3+3+2
Goldstream	12576±147	AA14880	14990	250	36, 37, 154, 155	U Molar, AM6677	Brown et al. 1988			19	3+4+4+0+3+3+2
Goldstream	12884±124	AA14907	15460	170	36, 37	L Molar, AM10412	Brown et al. 1988			19	3+4+4+0+3+3+2
Goldstream	13060±150	AA14947	15950	370	36, 37	U Molar, AK201-V-2	Brown et al. 1988			19	3+4+4+0+3+3+2
Goldstream	13339±150	AA14867	16280	390	36, 37	L Molar, AM4953	Brown et al. 1988			19	3+4+4+0+3+3+2
Goldstream	15426±98	AA14941	18620	80	36, 37	U Molar, AM6672	Brown et al. 1988			19	3+4+4+0+3+3+2
Goldstream	15796±195	AA14872	18970	200	36, 37	L Molar, AM10185	Brown et al. 1988			17	3+4+4+0+3+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Goldstream	15947±121	AA14928	19050	160	36, 37	U Molar, AM7391	Brown et al. 1988			19	3+4+4+0+3+3+2
Goldstream	17354±143	AA14936	20840	190	36, 37	L Molar, AM6455	Brown et al. 1988			19	3+4+4+0+3+3+2
Goldstream	17437±132	AA14922	20940	180	36, 37	AM10333	Brown et al. 1988			19	3+4+4+0+3+3+2
Goldstream	21705±180	AA14943	25910	350	36, 37	U Molar, AM4956	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	22796±456	AA14873	27380	560	36, 37	L Molar, AM315	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	23015±449	AA14868	27600	560	36, 37, 155	L Molar, AM10064	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	23222±453	AA14864	27880	620	36, 37, 155	L Molar, AM4214	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	24730±224	AA14933	29690	190	36, 37	L Molar	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	31689±459	AA14942	35610	530	36, 37	U Molar, AM4009	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	35700±2155	AA14876	39630	2250	36, 37, 155	L Molar, AM301	Brown et al. 1988			16	3+4+4+0+2+1+2
Goldstream	37212±867	AA14921	41980	540	36, 37	U Molar, AM544	Brown et al. 1988			16	3+4+4+0+2+1+2
Goldstream	38252±1048	AA14913	42590	650	36, 37	U Molar, AM545	Brown et al. 1988			16	3+4+4+0+2+1+2
Goldstream	43373±1875	AA14902	46800	1990	36, 37, 154	U Molar, AM529	Brown et al. 1988			16	3+4+4+0+2+1+2
Golstream	>41096	AA14879	>41096		36, 37, 155	L Molar, AM 322	Brown et al. 1988			15	3+4+4+0+1+1+2
Henderson	>41100	AA17537	>41100		36, 37	NMC4740 0	Brown et al. 1988			15	3+4+4+0+1+1+2
Hershel Island YT	29180±950	AA17584	33460	810	36, 37	NMC1761 2	Brown et al. 1988			17	3+4+4+0+3+1+2
Hester Creek, YT	27540±270	UCIAMS4 1488	32140	230	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Humphrey Site I	17300 ± 800	Shell-6713 A	20790	1010	31, 84	tusk		3" bs		17	3+3+4+1+3+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Hunker Creek	22430±140	UCIAMS4 1487	27200		330	Bone or tooth collagen	KCCAMS protocol			20	3+5+4+0+3+3+2
Hunker Creek	31300±1200	AA17555	35980	1470	36, 37, 154	U Molar, NMC9926	Brown et al. 1988			17	3+4+4+0+3+1+2
Hunker Creek	32470±480	UCIAMS3 9889	36890	910	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Hunker Creek	33750±1600	AA17558	38430	2040	36, 37	U Molar, NMC2594 1	Brown et al. 1988			17	3+4+4+0+3+1+2
Hunker Creek	33800±1600	AA17567	38470	2030	36, 37	U Molar, NMC9925	Brown et al. 1988			17	3+4+4+0+3+1+2
Hunker Creek	33900±1700	AA17582	38500	2070	36, 37	L Molar, NMC4758 6	Brown et al. 1988			17	3+4+4+0+3+1+2
Hunker Creek	34100±1700	AA17556	38630	2060	36, 37	U Molar, NMC2594 2	Brown et al. 1988			17	3+4+4+0+3+1+2
Hunker Creek	35800±2100	AA17564	39740	2210	36, 37, 154	U Molar, NMC4630 8	Brown et al. 1988			16	3+4+4+0+2+1+2
Hunker Creek	40500±3700	AA17552	44710	3380	36, 37	L Molar, NMC2549 3	Brown et al. 1988			16	3+4+4+0+2+1+2
Hunker Creek	43500±1900	UCIAMS4 1493	46930	2030	154	Bone or tooth collagen	KCCAMS protocol			17	3+5+4+0+2+1+2
Hunker Creek	>37800	AA17540	>37800		36, 37	NMC4261 1	Brown et al. 1988			15	3+4+4+0+1+1+2
Hunker Creek	>47500	UCIAMS3 9888	>47500		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2
Ikpikpuk	12190±130	AA17614	14310	280	36, 37	L Molar, IK-24	Brown et al. 1988			19	3+4+4+0+3+3+2
Ikpikpuk	19560±330	AA17620	23430	50	36, 37	U Molar, IK-13	Brown et al. 1988			17	3+4+4+0+3+1+2



## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ikpikpuk	19970±350	AA17623	23940	400	36, 37	U Molar, IK-3	Brown et al. 1988			17	3+4+4+0+3+1+2
Ikpikpuk	28020±810	AA17616	32680	710	36, 37	U Molar, IK-8	Brown et al. 1988			17	3+4+4+0+3+1+2
Ikpikpuk	31300±1200	AA17602	35980	1470	36, 37	IK-35	Brown et al. 1988			17	3+4+4+0+3+1+2
Ikpikpuk	33400±1600	AA17619	38210	2080	36, 37	L Molar, IK-14	Brown et al. 1988			17	3+4+4+0+3+1+2
Ikpikpuk	36700±2300	AA17627	40530	2220	36, 37	L Molar, IK-4	Brown et al. 1988			16	3+4+4+0+2+1+2
Ikpikpuk	36800±2500	AA17616	40540	2410	36, 37	L Molar, IK-17	Brown et al. 1988			16	3+4+4+0+2+1+2
Ikpikpuk	37800±2700	AA17622	41510	2550	36, 37	L Molar, IK-10	Brown et al. 1988			16	3+4+4+0+2+1+2
Ikpikpuk	38000±2700	AA17605	41710	2550	36, 37	IK-33	Brown et al. 1988			16	3+4+4+0+2+1+2
Ikpikpuk	39700±3400	AA17628	43630	3140	36, 37	L Molar, IK-6	Brown et al. 1988			16	3+4+4+0+2+1+2
Ikpikpuk	39800±3400	AA17615	43790	3090	36, 37	L Molar, IK-25	Brown et al. 1988			16	3+4+4+0+2+1+2
Ikpikpuk	>31000	AA17610	>31000		36, 37	U Molar, Ik-27	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>35700	AA17612	>35700		36, 37	U Molar, IK-16	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>36800	AA17626	>36800		36, 37	L Molar, IK-23	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>37000	AA17603	>37000		36, 37	L Molar, IK-31	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>37200	AA17613	>37200		36, 37	L Molar, IK-22	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>37500	AA17611	>37500		36, 37	L Molar, IK-29	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>37600	AA17604	>37600		36, 37	IK-36	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>37600	AA17617	>37600		36, 37	U Molar, IK-15	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>38100	AA17609	>38100		36, 37	L Molar, IK-32	Brown et al. 1988			15	3+4+4+0+1+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ikpikpuk	>39000	AA17608	>39000		36, 37	U Molar, IK-26	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>39500	AA17607	>39500		36, 37	IK-34	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>40000	AA17606	>40000		36, 37	L Molar, IK-30	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>41000	AA17625	>41000		36, 37	U Molar, IK-5	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>41100	AA17618	>41100		36, 37	U Molar, IK-7	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>41100	AA17621	>41100		36, 37	L Molar, IK-1	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk	>41100	AA17624	>41100		36, 37	U Molar, IK-2	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk River	12270±50	CAMS-53774	14400	200	36, 37		Brown et al. 1988			21	3+4+4+0+3+5+2
Ikpikpuk River	12490±170	AA14954	14770	370	36, 37	U Molar, AK204-V-1	Brown et al. 1988			17	3+4+4+0+3+1+2
Ikpikpuk River	26410±150	CAMS 91967	31280		250	Bone or tooth collagen	KCCAMS protocol			20	3+5+4+0+3+3+2
Ikpikpuk River	30990±250	CAMS 92072	35020	320	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Ikpikpuk River	31100±1200	AA22574	35740	1430	36, 37, 154	L Molar, AK323-V-1	Brown et al. 1988			17	3+4+4+0+3+1+2
Ikpikpuk River	340 +1070/-12	DIC-2123	36950	1500	33, 35, 51, 84	molar				17	3+3+4+1+3+1+2
Ikpikpuk River	33530±340	CAMS 91968	38250	1370	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Ikpikpuk River	37400±2600	AA22615	41130	2460	36, 37	AK1014	Brown et al. 1988			16	3+4+4+0+2+1+2
Ikpikpuk River	36400 ± 560	USGS-807	41540	430	84, 100	limb collagen		2 m above base of bluff		16	3+3+4+1+2+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ikpikpuk River	40870±820	CAMS 91803	44290	800	154	Bone or tooth collagen	KCCAMS protocol			17	3+5+4+0+2+1+2
Ikpikpuk River	>41100	AA14946	>41100		36, 37	U Molar, My Ikpikpu	Brown et al. 1988			15	3+4+4+0+1+1+2
Ikpikpuk River	>51000	CAMS 91811	>51000		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2
Ikpikpuk River	>51900	CAMS 91798	>51900		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2
Ikpikpuk River	>52000	CAMS 91807	>52000		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2
Ikpikpuk River	>54000	CAMS 91795	>54000		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2
Ikpikpuk River	>54000	CAMS 92092	>54000		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2
Ikpikpuk River (?)	33300±1600	AA22575	38140	2090	36, 37	AK268-V-1	Brown et al. 1988			17	3+4+4+0+3+1+2
Indian River, YT	30630±870	UCIAMS3 9890	34840	740	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Inglutalik	16319±292	AA14364	19560	400	36, 37, 154	L Molar, AM1193	Brown et al. 1988			17	3+4+4+0+3+1+2
Inglutalik	24249±521	AA14854	29070	560	36, 37	L Molar, AM 1194	Brown et al. 1988			17	3+4+4+0+3+1+2
Inglutalik	31360±1251	AA14363	36060	1530	36, 37, 154, 155	L Molar, AM1189	Brown et al. 1988			17	3+4+4+0+3+1+2
Inglutalik	37359±2532	AA14362	41100	2400	36, 37, 154, 155	U Molar, AM1188	Brown et al. 1988			16	3+4+4+0+2+1+2
Inglutalik	>40826	AA14853	>40826		36, 37	L Molar, AM 1140	Brown et al. 1988			15	3+4+4+0+1+1+2
Inglutalik	>40878	AA14352	>40878		36, 37	L Molar, AM 1186	Brown et al. 1988			15	3+4+4+0+1+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Inglutalik	>41081	AA14365	>41081		36, 37, 154, 155	U Molar, AM 1187	Brown et al. 1988			15	3+4+4+0+1+1+2
Inmachuk River	35150±530	Beta-189092	40160	950	157	Tusk collagen			AMS	17	3+4+4+1+2+1+2
Kendall Island	8280±60	Beta-115204	9280	110	51 84	Molar, CR-97-64	Brown et al. 1988			19	3+4+4+0+3+3+2
Ketza River	26350 ± 280	TO-393	31170	350	65, 84	thoracic vertebra collagen		gravel and coarse basaltic sand		16	3+4+2+1+3+1+2
Klondike (?)	39300±3200	AA17543	43100	3000	36, 37	U Molar, NMC775	Brown et al. 1988			16	3+4+4+0+2+1+2
Kotzebue Sound	18440±890 (apatite)	GX-5739-A	22100	1030	23	tusk UA76-274-1, apatite		26.3-27.3m bs		16	2+3+4+1+3+1+2
Kotzebue Sound	19870±310	AA26018	23850	370	36, 37	UNM6561	Brown et al. 1988			17	3+4+4+0+3+1+2
Kotzebue Sound	20780±340	AA26035	24750	380	36, 37	UNM8848	Brown et al. 1988			17	3+4+4+0+3+1+2
Kotzebue Sound	>35664	AA26031	>35664		36, 37	UNM6563	Brown et al. 1988			15	3+4+4+0+1+1+2
Kotzebue Sound	>36200	AA26016	>36200		36, 37	U Molar, UNM6552	Brown et al. 1988			15	3+4+4+0+1+1+2
Kotzebue Sound	>37490	AA26032	>37490		36, 37	UNM6560	Brown et al. 1988			15	3+4+4+0+1+1+2
Kotzebue Sound	>37000 (collagen)	GX-5739-A			23	tusk UA76-274-1, apatite		26.3-27.3m bs		14	3+3+4+1+1+0+2
Koyuk	19763±307	AA14356	23730	350	36, 37	U Molar, AM1488	Brown et al. 1988			17	3+4+4+0+3+1+2
Koyuk	30485±437	AA14907	34690	380	36, 37, 154	L Molar, AM1131	Brown et al. 1988			17	3+4+4+0+3+1+2
Last Chance	36800±2400	AA17544	40580	2310	36, 37, 154	U Molar, NMC772	Brown et al. 1988			16	3+4+4+0+2+1+2
Last Chance Creek	40100±3600	AA17533	44180	3300	36, 37	L Molar, NMC7735	Brown et al. 1988			16	3+4+4+0+2+1+2
Last Chance Creek	>48800	UCIAMS4 1491	>48800		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Little John Site	38160±310	Beta 231794	42490	340	161	Tusk collagen		Eroded from hillside across road from KdVo6	AMS	16	3+4+4+0+2+1+2
Livengood	>40900	AA17522	>40900		36, 37	U Molar, AK206-V- 1	Brown et al. 1988			15	3+4+4+0+1+1+2
Livengood	>41100	AA14948	>41100		36, 37	U Molar, AK F-29	Brown et al. 1988			15	3+4+4+0+1+1+2
Long Creek	19169±138	AA14897	23050	180	36, 37	U Molar, AM1170	Brown et al. 1988			19	3+4+4+0+3+3+2
Long Creek	19878±141	AA14924	23750	180	36, 37	U Molar, AM 1169	Brown et al. 1988			19	3+4+4+0+3+3+2
Long Creek	20350±330	AA14960	24260	370	36, 37	U Molar, AK001	Brown et al. 1988			17	3+4+4+0+3+1+2
Lost Chicken Creek	10050±150	I-9998	11650	280	153					19	3+4+4+0+3+3+2
Mead CROSS_CHECK THIS. IN GUTHRIE 2006 it's cited as "Mead River"	17370±90	CAMS- 17408	20850	130	42, 91	tusk		cultural zone 4, lower paleosol		19	3+3+4+1+3+3+2
Meade River	>41000	AA22620	>41000		36, 37	L Molar, V- 30-76	Brown et al. 1988			15	3+4+4+0+1+1+2
Meade River	>41100	AA14953	>41100		36, 37	U Molar, A- 5	Brown et al. 1988			15	3+4+4+0+1+1+2
Mud Creek	42562±1795	AA14901	46010	1780	36, 37, 154	L Molar, AM1001A	Brown et al. 1988			16	3+4+4+0+2+1+2
No Site Name	13340 ± 115	DIC-2131	16320	350	35	bone collagen		alluvium		18	3+3+4+0+3+3+2
No Site Name	17950±120	Beta-70099	21480	120	84	collagen		placer mine		20	3+4+4+1+3+3+2
No Site Name	6770 +490/-52	DIC-2124	31410	470	33, 34, 35, 51, 84	cervical vertebra collagen		floor of a den		16	3+3+4+0+3+1+2
Norton Bay	>37600	AA22613	>37600		36, 37	AK1155	Brown et al. 1988			15	3+4+4+0+1+1+2
Norton Sound	36500±2300	AA17575	40320	2260	36, 37	U Molar, NMC6745	Brown et al. 1988			16	3+4+4+0+2+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Norton Sound	37100±2500	AA26009	40850	2370	36, 37, 154	UNM8846	Brown et al. 1988			16	3+4+4+0+2+1+2
Norton Sound	>40300	AA17573	>40300		36, 37	L Molar, NMC6743	Brown et al. 1988			15	3+4+4+0+1+1+2
Nowitna	>40091	AA26036	>40091		36, 37	UNM6652	Brown et al. 1988			15	3+4+4+0+1+1+2
Nulato	26050±690	AA26022	30860	620	36, 37	L Molar, UNM6659	Brown et al. 1988			17	3+4+4+0+3+1+2
Old Crow	38500±2900	AA17579	42210	2740	36, 37	L Molar, NMC14920	Brown et al. 1988			16	3+4+4+0+2+1+2
Old Crow Loc. CRH-11A	19520±470	SI-2814 AP	23430	540	5, 44, 48, 64, 81	patella collagen		river bank, point bar		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-11A	25910 ± 680	SI-2818	30770	630	5, 44, 48, 64, 81	Calcaneus (11A75-2654) collagen		river bank, point bar	Has a statistical outlier	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-11A	27700±460	SI-2812	32340	400	5, 44, 48, 64, 81	Axis (28) collagen		river bank, point bar	Has a statistical outlier	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-11A	34080 ± 1000	SI-2822	38840	1680	5, 44, 48, 64, 81	Tibia (11A75-4588) collagen		river bank, point bar	Has a statistical outlier	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-11A	36650±1300	SI-2816-A	40920	1390	51, 84	humerus collagen				12	2+1+4+0+2+1+2
Old Crow Loc. CRH-11A	36730 ± 1300	SI-2816	40990	1380	5, 44, 48, 64, 81	Humerus (11A75-2310)		river bank, point bar	Has a statistical outlier	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-12	38200 ± 1200	RIDDL-307	42570	750	11, 84, 86	Limb bone collagen (MkVI-10:15)	Collagen extraction method 2	surface river bank	Two statistical outliers	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-12	38450 ± 1400	RIDDL-195	42760	910	11, 84, 86	Limb bone collagen (MkVI-10:15)	Collagen extraction method 1	surface river bank	Two statistical outliers	14	3+2+4+0+2+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Old Crow Loc. CRH-12	49600 ± 3600	Beta-79851	53060	4060	11, 84, 86	Rib collagen (NMC-14195)	Mammuthus sp. rib (NMC-14195)	surface river bank	Two statistical outliers	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-12	37300 ± 1000	RIDDL-131	42000	620	81, 84, 86	Limb bone collagen (MkVI-24:3)	Collagen extraction method 1.	surface river bank		14	3+2+4+0+2+1+2
Old Crow Loc. CRH-13	35800 ± 1000	RIDDL-123	40420	1230	84, 86	bone collagen	Collagen extraction method 1.	surface, river bank		15	3+3+4+0+2+1+2
Old Crow Loc. CRH-14N	22600±600	I-3573	27060	800	11, 44, 63, 81, 82, 84, 86, 87, 121	Femur collagen		modern river bank, eroding from early Holocene deposit	Four statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-14N	700 +1800 -15	GX-1568	30240	1600	11, 44, 63, 81, 82, 84, 86, 87, 121	Limb bone apatite (MIVI-1:2)		point bar alluvium	Four statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-14N	25970±560	CRNL-1234	30840	540	11, 44, 63, 81, 82, 84, 86, 87, 121	Limb bone (MIVI-1:143)		modern river bank	Five statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-14N	27000 ± 400	RIDDL-232	31710	290	11, 44, 63, 81, 82, 84, 86, 87, 121	Limb bone (MIVI-1:143)		modern river bank	Five statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-14N	27500±1800	GX-1568-Du	32040	1620	63	Long bone shaft, CMC 331, apatite		point bar alluvium		15	3+2+4+0+3+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Old Crow Loc. CRH-14N	100+3000/200	GX-1567	33850	2510	11, 44, 63, 81, 82, 84, 86, 87, 121	Radius (MIV1-1:3_)		point bar alluvium		14	2+2+4+0+3+1+2
Old Crow Loc. CRH-14N	32600 ± 600	RIDDL-302	37000	960	11, 44, 63, 81, 82, 84, 86, 87, 121	Limb bone (MIV1-1:143)		modern river bank	Five statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-14N	34200 ± 500	RIDDL-726	39550	1000	11, 44, 63, 81, 82, 84, 86, 87, 121	Limb bone (MIV1-1:143)	Collagen extraction method 3	modern river bank	Five statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-14N	34600 ± 900	RIDDL-185	39590	1210	11, 44, 63, 81, 82, 84, 86, 87, 121	Bone (MIV1-1:142)	Collagen extraction method 1	modern river bank	Five statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-14N	39700 ± 1000	RIDDL-134	43530	780	11, 44, 63, 81, 82, 84, 86, 87, 121	Limb bone (MIV1-1:143)	Collagen extraction method 1	modern river bank	Five statistical outliers	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-15	39800±1100	RIDDL-731	43620	850	81, 82, 83, 84, 86	Limb bone				13	2+2+4+0+2+1+2
Old Crow Loc. CRH-15	100 +1200/-14	RIDDL-732	45380	1280	81, 82, 83, 84, 86	Femur (MIV1-2:147)	Collagen extraction method 3, >30kD.	alluvium, middle of Unit 2a, 10 m below Disconformity A		14	3+2+4+0+2+1+2
Old Crow Loc. CRH-20	25200±300	RIDDL-306	30120	250	79, 84, 86	Limb bone (NaVk-6:6)	Collagen extraction method 2.	surface, river bank	Two statistical outliers	16	3+2+4+1+3+1+2



## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Old Crow Loc. CRH-20	25200 ± 400	RIDDL-191	30160	350	79, 84, 86	Limb bone (NaVk-6: 21)	Collagen extraction method 1.	surface, river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-20	25450 ± 450	RIDDL-193	30440	480	79, 84, 86	Limb bone (NaVk-6: 6)	Collagen extraction method 1	surface, river bank	Two statistical outliers	16	3+2+4+1+3+1+2
Old Crow Loc. CRH-22	27100 ± 800	RIDDL-192	31740	750	11, 44, 84, 86	Limb bone (NaVk-5: 6)	Collagen extraction method 1	surface, river bank	Two statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-22	28600 ± 350	RIDDL-305	33070	440	11, 44, 84, 86	Limb bone (NaVk-5: 6)	Collagen extraction method 2	surface, river bank	Two statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-22	37500 ± 1200	RIDDL-129	42080	770	11, 44, 84, 86	Limb bone (NaVk-5: 31)	Collagen extraction method 1.	surface, river bank		14	3+2+4+0+2+1+2
Old Crow Loc. CRH-3	29300±1200	I-11050	33580	1010	46, 84, 86	mammoth bone collagen	cf. Mammuthus sp. limb bone (MkVI-3: 9)	surface of point bar		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-4	30490±550	CRNL-1235	34710	460	81, 82, 84, 86	Limb bone (MkVI-5: 13)		modern river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-4	30680 ± 600	RIDDL-231	34860	500	81, 82, 84, 86	Limb bone (MkVI-5: 13)		modern river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-4	31120 ± 450	RIDDL-122	35130	420	81, 82, 84, 86	Limb bone (MkVI-5: 13)	Collagen extraction method 1.	modern river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-42	28800 ± 450	RIDDL-130	33250	500	11, 84, 86	Limb bone (MkVI-8: 18)		surface river bank	Dated with two collagen extraction methods	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-42	28780 ± 350	RIDDL-301	33260	430	11, 84, 86	Limb bone (MkVI-8: 18)		surface river bank	Dated with two collagen extraction methods	15	3+2+4+0+3+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Old Crow Loc. CRH-47	37800 ± 800	RIDDL-733	42310	510	84, 86, 120	Mandible (NbVn-4: 36)	Collagen extraction method 3, >30kD.	alluvium, lower Unit 2a	Collagen poorly preserved	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-60	32000 ± 600	RIDDL-132	36430	1070	11, 84, 86	Limb bone (NbVm-5: 8)	collagen extraction method 1.	surface, river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-60	33700 ± 800	RIDDL-135	38590	1700	11, 84, 86	Limb bone (NbVm-5: 9)	collagen extraction method 1.	surface, river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-66	30100 ± 600	RIDDL-190	34310	520	11, 84, 86	Limb bone (NaVk-1: 7)	collagen extraction method 1.	surface, river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-69	31300 ± 1400	RIDDL-186	36040	1670	11, 84, 86	Limb bone (MIV1-12: 4)	collagen extraction method 1.	surface, river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-69	31900 ± 650	RIDDL-188	36330	1100	11,44, 84, 86	Limb bone (MIV1-5: 27)	collagen extraction method 1.	surface, river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-69	33400 ± 650	RIDDL-304	38250	1570	11,44, 84, 86	Limb bone (MIV1-5: 21)	Collagen extraction method 2	surface, river bank	Two dates from this specimen produced statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-69	34400 ± 850	RIDDL-126	39410	1260	11,44, 84, 86	Limb bone (MIV1-5: 25)	collagen extraction method 1.	surface, river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-69	35400 ± 900	RIDDL-189	40210	1130	11,44, 84, 86	Limb bone (MIV1-5: 21)	Collagen extraction method 1	surface, river bank	Two statistical outliers	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-71	30100 ± 600	RIDDL-125	34310	520	81, 84, 86	Limb bone (MIV1-7: 281)	collagen extraction method 1.	surface, river bank		15	3+2+4+0+3+1+2
Old Crow Loc. CRH-71	36500 ± 1000	RIDDL-194	40950	1190	81, 84, 86	imb bone (MIV1-7: 507)	collagen extraction method 1.	surface, river bank		14	3+2+4+0+2+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Old Crow Loc. CRH-71	39500 ± 1600	RIDDL-127	43550	1150	81, 84, 86	Scapula (MlVI-7: 192)	collagen extraction method 1.	surface, river bank		14	3+2+4+0+2+1+2
Old Crow Loc. CRH-74	25600 ± 300	RIDDL-300	30520	380	81, 82, 84, 86	Bone (MkVI-26: 1)	Collagen extraction method 2	surface of point bar	Seven statistical outliers	15	3+2+4+0+2+1+2
Old Crow Loc. CRH-74	37200 ± 700	RIDDL-725	42000	450	81, 82, 84, 86	Long bone (MkVI-26)	Collagen extraction method 3	surface of point bar	Seven statistical outliers	14	3+2+4+0+3+1+2
Old Crow Loc. CRH-74	38700 ± 900	RIDDL-128	42850	610	81, 82, 84, 86	Long bone (MkVI-26)	Collagen extraction method 1	surface of point bar	Seven statistical outliers	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-74	41400 ± 1600	RIDDL-234	44910	1360	81, 82, 84, 86	Long bone (MkVI-26)	Collagen extraction method 1	surface of point bar	Seven statistical outliers	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-74	460 +5670/-32	CRNL-1219	45850	4270	81, 82, 84, 86	Long bone (MkVI-26)		surface of point bar	Seven statistical outliers	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-74	600 +1600/-19	RIDDL-724	47950	2050	81, 82, 84, 86	Bone (MkVI-26)	Collagen extraction method 3	surface of point bar	Seven statistical outliers	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-85	37700 ± 1300	RIDDL-124	42200	830	84, 86	Bone (NbVm-6: 1)	Collagen extraction method 1.	surface, river bank		14	3+2+4+0+2+1+2
Old Crow Loc. CRH-87	13335 ± 390	CRNL-1218	16190	590	81, 82, 84, 86	Bone (NaVI-7: 1)		surface of point bar	Seven statistical outliers	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-87	25620 ± 300	RIDDL-303	30540	390	81, 82, 84, 86	Bone (NaVI-7: 1)	Collagen extraction method 2.	surface of point bar	Three statistical outliers	16	3+3+4+0+3+1+2
Old Crow Loc. CRH-87	31200 ± 500	RIDDL-727	35190	460	81, 82, 84, 86	Bone (NaVI-7: 1)	Collagen extraction method 3.	surface of point bar	Three statistical outliers	16	3+3+4+0+3+1+2
Old Crow Loc. CRH-87	36600 ± 1000	RIDDL-187	41060	1150	81, 82, 84, 86	Bone (NaVI-7: 1)	Collagen extrtaction method 1.	surface of point bar	Three statistical outliers	15	3+3+4+0+2+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Old Crow Loc. CRH-87	39900 ± 1300	RIDDL-233	43750	980	81, 82, 84, 86	Bone (NaVI-7: 1)	Collagen extrraction method 1.	surface of point bar	Three statistical outliers	15	3+3+4+0+2+1+2
Old Crow Loc. CRH-92	13820±840	Beta-13867	16560	1110	48, 84	Limb bone (NMC-43522)		river bank		16	3+3+4+0+3+1+2
Paneak Mammoth	12585±75	Av of Beta-226405 and CAMS 131222	15050	140	159	Tusk collagen, GAAR 15082			AMS	20	3+4+4+1+3+3+2
Parson's Lake, NWT	>37500	AA17583	>37500		36, 37	NMC4956 2	Brown et al. 1988			15	3+4+4+0+1+1+2
Parson's Lake, NWT	>37500	AA17583	>37500		36, 37	NMC4956	Brown et al. 1988			15	3+4+4+0+1+1+2
Pastolic AK	40400±3700	AA26027	44580	3390	36, 37	ANM8851	Brown et al. 1988			16	3+4+4+0+2+1+2
Point Clarence	27180±730	AA26029	31840	680	36, 37	L Molar, UNM6557	Brown et al. 1988			17	3+4+4+0+3+1+2
Point Hope	13290±140	AA26028	16220	380	36, 37	L Molar, UNM1197	Brown et al. 1988			19	3+4+4+0+3+3+2
Point Hope	15740±230	AA26015	18940	220	36, 37	UMN6068 c	Brown et al. 1988			17	3+4+4+0+3+1+2
Point Hope	24193±510	AA26013	29030	550	36, 37	UNM6068 a	Brown et al. 1988			17	3+4+4+0+3+1+2
Point Hope	31600±1200	AA26014	36260	1500	36, 37	UMN6068 b	Brown et al. 1988			17	3+4+4+0+3+1+2
Porcupine River	29440+620-740	DIC-1570	33690	600	29, 51, 84, 112			sandy gravel from near top of valley-fill, stage 7		16	3+2+4+1+3+1+2
Porcupine River	>36700	AA17581	>36700		36, 37	L Molar, NMC5007 0E	Brown et al. 1988			15	3+4+4+0+1+1+2
Porcupine River	>36700	AA17581	>36700		36, 37	L Molar, NMC5007 0E	Brown et al. 1988			15	3+4+4+0+1+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Porcupine River	>40210	AA26025	>40210		36, 37	UNM2430	Brown et al. 1988			15	3+4+4+0+1+1+2
Porcupine River Cave 1	13725 ± 110	Beta-29166	16940	80	24, 28, 51, 84, 103	Bone	AMS	Unit C, square N6/E4, 175-183 cm below datum		19	3+3+4+1+3+3+2
Port Clarence	20120±350	AA26003	24070	390	36, 37	U Molar	Brown et al. 1988			17	3+4+4+0+3+1+2
Port Clarence	32400±1430	AA28005	37220	1860	36, 37	UNM6567	Brown et al. 1988			17	3+4+4+0+3+1+2
Qagnax Cave-St. Paul	5630±40	Beta-190141B	6400	50	116, 153	tooth 1, SPC-03-09	AMS	lava tube cave, 53 ft bs		25	3+4+4+4+3+5+2
Qagnax Cave-St. Paul	5710±60	Beta-190141A	6520	80	116, 153	tooth 1, SPC-03-09	AMS	lava tube cave, 53 ft bs		23	3+4+4+4+3+3+2
Qagnax Cave-St. Paul	5740±35	CAMS 101895	6550	60	116, 153	tooth 2, CAMS-101895	AMS	lava tube cave, 53 ft bs		25	3+4+4+4+3+5+2
Qagnax Cave-St. Paul	5770±40	Beta-190141C	6580	60	116, 153	tooth 1, SPC-03-09	AMS	lava tube cave, 53 ft bs		25	3+4+4+4+3+5+2
Qagnax Cave-St. Paul	5800±80	Beta-190142	6610	90	116, 153	Postcranial SPC0352A	Conventional	lava tube cave, 53 ft bs		23	3+4+4+4+3+3+2
Quartz Creek, YT	36690±810	UCIAMS3 9891	41620	590	154	Bone or tooth collagen	KCCAMS protocol			17	3+5+4+0+2+1+2
Rampart	25560±600	AA22577	30540	600	36, 37	AK172-V-1	Brown et al. 1988			17	3+4+4+0+3+1+2
Ruby	13690±190	AA25999	16840	190	36, 37	UNM1170 4	Brown et al. 1988			17	3+4+4+0+3+1+2
Ruby	14300±170	AA26002	17460	210	36, 37	UNM1158 1	Brown et al. 1988			17	3+4+4+0+3+1+2
Ruby	14760±170	AA26030	18080	290	36, 37	UNM1158 5	Brown et al. 1988			17	3+4+4+0+3+1+2
Scroggie Creek	16000±130	GSC-1893	19110	180	10, 44, 84	tusk		surface		17	3+2+4+0+3+3+2
Sixty Mile	>36600	AA17527	>36600		36, 37	NMC3389 9	Brown et al. 1988			15	3+4+4+0+1+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Sixty Mile	>36700	AA17528	>36700		36, 37	NMC4276 8	Brown et al. 1988			15	3+4+4+0+1+1+2
Sixty Mile	>36900	AA17526	>36900		36, 37	NMC4473 4	Brown et al. 1988			15	3+4+4+0+1+1+2
Sixty Mile	>38700	AA17525	>38700		36, 37	L Molar, NMC4773 3	Brown et al. 1988			15	3+4+4+0+1+1+2
Sixty Mile	>40300	AA17587	>40300		36, 37	L Molar, NMC4218 1	Brown et al. 1988			15	3+4+4+0+1+1+2
Sixty Mile	>40300	AA17587	>40300		36	L Molar, NMC4218 1	Brown et al. 1988			15	3+4+4+0+1+1+2
Sixy Mile YT	36800±2400	AA17524	40580	2310	36, 37, 154	L Molar, NMC4773 2	Brown et al. 1988			16	3+4+4+0+2+1+2
Southeast AK	18090±250	AA26004	21820	380	36, 37, 154	UNM8572	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	13250±170	AA14949	16180	400	36, 37	L Molar, AK130-V- 1	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	13315±201	AA14346	16240	430	36, 37	kukulik3	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	16370±210	AA14955	19630	310	36, 37	L Molar, AK175-V- 1	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	18120±260	AA14956	21850	380	36, 37	L Molar, AK199-V- 1	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	18691±427	AA14350	22400	570	36, 37		Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	19447±162	AA14344	23320	160	36, 37	kukulik1	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	19759±197	AA14348	23650	200	36, 37	kukulik5	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	21331±633	AA14349	25490	830	36, 37		Brown et al. 1988			17	3+4+4+0+3+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
St. Lawrence	22399±253	AA14345	27060	490	36, 37	kukulik2	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	24609±247	AA14347	29450	340	36, 37	kukulik4	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	32700±1400	AA14958	37600	1940	36, 37	U Molar, AK176-V-1	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Lawrence	>40200	AA14957	>40200		36, 37	U Molar, AK174-V-1	Brown et al. 1988			15	3+4+4+0+1+1+2
St. Michaels	14830±180	AA26000	18130	280	36, 37	UNM8855	Brown et al. 1988			17	3+4+4+0+3+1+2
St. Michaels	>38000	AA26001	>38000		36, 37	UNM8854	Brown et al. 1988			15	3+4+4+0+1+1+2
St. Paul Harbor	6220±40	Beta-213000	7130	80	153, 163	Tusk	AMS			22	3+5+4+0+3+5+2
St. Paul Island	7977±75	Av of AA 34501 and OxA-13027	8830	130	36	M <sup>3</sup>	Brown et al. 1988			20	3+4+4+1+3+3+2
Sullivan Creek	12677±142	AA14888	15150	220	36, 37, 154	L Molar, AM 1208	Brown et al. 1988			19	3+4+4+0+3+3+2
Sullivan Creek	19011±132	AA14918	22900	180	36, 37	L Molar, AM1272	Brown et al. 1988			19	3+4+4+0+3+3+2
Sulpher Creek, YT	45900±2600	UCIAMS3 9116	49590	3020	154	Bone or tooth collagen	KCCAMS protocol			17	3+5+4+0+2+1+2
Swan Point	10230 ± 80	Beta-56666	11960	170	60, 62	charcoal		component 6, cultural zone III		24	5+4+3+4+3+3+2
Swan Point	11660 ± 60	Beta-71372	13550	90	60, 62	willow charcoal		component 7, cultural zone IV, associated with microblades and a microcore		24	5+4+3+4+3+3+2

Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Swan Point	11660 ± 70	Beta-56667	13550	100	60, 62	charcoal, <i>Populus/S alix</i> group		component 7, cultural zone IV, associated with microblades and a microcore		24	5+4+3+4+3+3+2
Swan Point	11770 ± 140	AA-19322	13660	150	60, 62	charcoal		charred residue scraped from a microcore tablet found in a charcoal-stained lens		24	5+4+3+4+3+3+2
Swan Point	12060 ± 70	NSRL-2001; CAMS-17405	14020	160	7, 51, 60, 61, 62, 156	tusk collagen	AMS: CAMS-17045. XAD-KOH purified collagen.	component 7, cultural zone IV, associated with microblades and a microcore		22	3+4+3+4+3+3+2
Swan Point	12050±120	AA-74251	14090	260	156	Tusk collagen		Not in a hearth	AMS	24	3+4+4+4+3+3+2
Swan Point	12110±120	AA-74250	14190	270	156	Molar plate, dentine collagen		Hearth 2	AMS	24	3+4+4+4+3+3+2
Tanana	23150±460	AA17574	27770	600	36, 37, 154	U Molar, NMC6746	Brown et al. 1988			17	3+4+4+0+3+1+2
Tatalik	>40700	AA14961	>40700		36, 37	U Molar, AKV-72-5	Brown et al. 1988			15	3+4+4+0+1+1+2
Teklanika Mammoth	13340 ± 110	DIC-2130	16320	350	33, 51, 84	bone collagen		alluvium		20	3+3+4+1+3+3+2



Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Teklanika River	13500 ± 100	QL-1365	16730	130	25, 51, 84, 110	Vertebra		unit 4, alluvial sand, 16'6"-17'6" depth	peat overlying alluvium dated 12340±205, GX-6284	19	3+2+4+2+3+3+2
Titalik	>39400	AA14959	>39400		36, 37	U Molar, AK72-4	Brown et al. 1988			15	3+4+4+0+1+1+2
Toyone Bluff	29450 ± 610	Beta-1819	33710	540	43, 51, 84, 111	Femur		unit 3, gravel below sand below till		17	3+3+4+1+3+1+2
Trail Creek Cave	11360±100	Beta-13811	13250	110	51, 84, 104,	collagen *different date on same bone Beta-35841). This one is an AMS date, split sample	Scapula	floor of cave B, dark brown sandy silt with clayey lenses, 110-120cm bs	Sample contained 20% organic carbon	18	3+3+4+1+3+3+1
Trail Creek Cave	13570 ± 120	Beta-35841	16790	120	84, 104	Collagen	AMS	cave B, stratum A1	Dates from other bones in this stratum indicate significant mixing	18	3+3+4+1+3+3+1
Trail Creek Cave	14270 ±950	Beta-2007	17090	1250	51, 84, 104,	vertebra		just above floor of cave B, reddish brown silt with dark brown clay lenses, 100-110cm bs		17	3+3+4+1+3+1+2
Tununuk	19440±290	I-8578	23280	310	51, 84					8	1+1+0+0+3+1+2

Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Tusk Bluff	9440 +670/-74	DIC-1570	33680	620	29, 51, 84, 112	tusk		sandy gravel from near top of valley-fill, stage 7	20 cm above the tusk were wooden frags dated to 26570+680/-750 (DIC-1571)	17	3+2+4+2+3+1+2
Umiat	>40800	AA22617	>40800		36, 37	Tusk	Brown et al. 1988			15	3+4+4+0+1+1+2
Upper Stewart River	>36900	AA17563	>36900		36, 37	L Molar, NMC779	Brown et al. 1988			15	3+4+4+0+1+1+2
VGFN Foot, YT	>47800	UCIAMS4 1490	>47800		154	Bone or tooth collagen	KCCAMS protocol			16	3+5+4+0+1+1+2
Weisman	32340±1400	AA22576	37120	1800	36, 37	L Molar, AK202-V-1	Brown et al. 1988			17	3+4+4+0+3+1+2
Whitstone mammoth CRH-43	30300 ± 2000	I-3576	35140	2240	45, 77, 84	Rib		alluvium	Peat associated with the mammoth bones yielded a date of 40,600±1520 BP (GSC-2929).	15	3+2+4+0+3+1+2
Whitman Gulch, YT	32140±370	UCIAMS3 8675	36560	900	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2
Whitman Gulch, YT	34180±590	UCIAMS4 1489	39460	1090	154	Bone or tooth collagen	KCCAMS protocol			18	3+5+4+0+3+1+2

## Supplemental Data. Mammoth Radiocarbon Dates

Mammoth Sites	Measured Date	Lab No.	Cal BP	Cal SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Whitman Gulch, YT	39800±1200	UCIAMS3 9892	43650	910	154	Bone or tooth collagen	KCCAMS protocol			17	3+5+4+0+2+1+2
Yaya Lake, NWT	36400±22	AA17578	41610	260	36, 37	U Molar, NMC1133 8	Brown et al. 1988			22	3+4+4+2+2+5+2
YT	>36200	AA17551	>36200		36, 37	L Molar, NMC774	Brown et al. 1988			15	3+4+4+0+1+1+2
YT	>36700	AA17561	>36700		36, 37	L Molar, NMC8895	Brown et al. 1988			15	3+4+4+0+1+1+2
YT 1915	11990±130	AA17562	13980	220	36, 37	L Molar, NMC777	Brown et al. 1988			21	3+4+4+2+3+3+2
Yukon Palisades	18140±280	AA26021	21860	390	36, 37	U Molar, UNM1992	Brown et al. 1988			19	3+4+4+2+3+1+2
Yukon Palisades	>40900	AA26019	>40900		36, 37	L Molar, UNM6655	Brown et al. 1988			15	3+4+4+0+1+1+2
Yukon River	>35500	AA17580	>35500		36, 37	U Molar, NMC6744	Brown et al. 1988			15	3+4+4+0+1+1+2
Yukon River	>35550	AA17580	>35550		36, 37	U Molar, NMC6744	Brown et al. 1988			15	3+4+4+0+1+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Anchorage	170±30	Beta 136732	160	110	151	Skull				22	3+4+4+0+3+5+2
Baldwin Peninsula	26900 ± 3400	AU-90	31170	3480	33, 99	twigs and peaty debris		peat in thermokarst pond sediments in same horizon as a skeleton		11	1+1+2+1+3+1+2
Birch Creek	11900 ± 70	Beta-67494	13780	110	51, 84, 106	Skull collagen		female bison with skull with horn sheaths		19	3+4+4+0+3+3+2
Birch Creek, Yukon Flats	2415±25	OxA-11990	2430	50	151	Horncore, RS-0201				22	4+4+4+0+3+5+2
Birch Creek, Yukon Flats	2526±26	OxA-11989	2630	90	151	Bone, RS-0202				22	3+4+4+0+3+5+2
Bison Cave	13040±70	OxA10681	15800	240	37, 151	CMN-46699	Brown et al. 1988			19	3+4+4+0+3+3+2
Bison Cave	13135±65	OxA11166	15980	280	37	CMN46696	Brown et al. 1988			21	3+4+4+2+3+3+2
Black River, Yukon Flats	1730±60	Beta 62999	1660	70	151	Left femur, RS-9201				19	3+4+4+0+3+3+2
Black River, Yukon Flats	2172±37	OxA-11248	2210	80	151	Bone, RS-0105				21	3+4+4+0+3+5+2
Black River, Yukon Flats	2776±36	OxA-11631	2880	50	151	Metacarpal, RS-0001				22	3+4+4+0+3+5+2
Black River, Yukon Flats	4495±60	Beta 65662	5150	110	151	Skull, RS-9202				19	3+4+4+0+3+3+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Black River, Yukon Flats	11900±70	Beta 67494	13780	110	151	Skull, RS-9200				19	3+4+4+0+3+3+2
Black River, Yukon Flats	40800±600	OxA-11275	44190	680	151	Humerus, RS-0104				19	3+4+4+0+3+3+2
Black River, Yukon Flats	49100±1700	OxA 11164	52960	2650	151	Humerus, RS-0102				16	3+4+4+0+2+1+2
Black River, Yukon Flats	57700±3200	OxA-11138	57700	3200	151	Radius, RS/BSX1				16	3+4+4+0+2+1+2
Black River, Yukon Flats	58200±3900	OxA-11276	58200	3900	151	Humerus, RS-0103				16	3+4+4+0+2+1+2
Blue Babe	36425±2575	DIC-891	40120	2550	35, 51, 84	<i>Bison priscus</i> hide		frozen silt and peat		17	4+3+4+1+2+1+2
Bluefish Cave	12370±440	CRNL-1236	14680	690	37		Brown et al. 1988			17	3+4+4+0+3+1+2
Bluefish Cave	13390±180	RIDDL-279	16370	370	37		Brown et al. 1988			17	3+4+4+0+3+1+2
Bluefish Cave	13390±140	RIDDL-279	16370	370	37		Brown et al. 1988			19	3+4+4+0+3+3+2
Bluefish Cave 2	10230 ± 140	RIDDL-561	11980	330	12, 15, 16, 68, 84, 85	Metacarpal (MgVo-2: G5-G-5)		lower loess		18	3+2+4+1+3+3+2
Bluefish Cave 2	31730 ± 230	CAMS-23469	35580	320	12, 15, 16, 68, 84, 85	Tibia (MgVo-2: D6-4-34)		lower loess		16	3+2+4+1+3+1+2
Bluefish Cave 3	23710 ± 100	CAMS-23471	28390	130	12, 15, 16, 68, 84, 85, 125	<i>Bison priscus</i> radioulna (MgVo-3:85-123)		lower loess		19	3+2+4+2+3+3+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Boliden Creek, Carmacks	>56000	OxA-10548	>56000		151	Metacarpal, CMN 42113				15	3+4+4+0+1+1+2
Braeburn, YT	2460±40	Beta 137731	2550	120	151	Skull				22	3+4+4+0+3+5+2
Broken Mammoth	9690 ± 960	UGa-6256 D	11140	1260	59, 124	charcoal		cultural zone 3, central hearth		22	5+4+3+4+3+1+2
Broken Mammoth	10270 ± 110	WSU-4263	12080	270	59, 124	charcoal		cultural zone 3, central hearth		24	5+4+3+4+3+3+2
Broken Mammoth	10290 ± 70	CAMS-5357	12130	190	59, 124	charcoal		cultural zone 3, east hearth		24	5+4+3+4+3+3+2
Broken Mammoth	10790 ± 230	WSU-4019	12670	280	59, 124	charcoal		cultural zone 3, charcoal scatter, ca. 1.5 m depth, in eroded bluff face		22	5+4+3+4+3+1+2
Broken Mammoth	11040 ± 80	CAMS-7203	12940	100	59, 124	mammal bone collagen		cultural zone 3/4A		22	3+4+3+4+3+3+2
Broken Mammoth	11060 ± 90	CAMS-7204	12950	100	51, 59, 124	wapiti bone collagen		cultural zone 3/4A		22	3+4+3+4+3+3+2
Broken Mammoth	11040 ± 260	UGa-6257 D	12990	220	59, 124	charcoal		cultural zone 4A		22	5+4+3+4+3+1+2
Broken Mammoth	11280 ± 190	WSU-4265	13180	200	59, 124	charcoal		cultural zone 4B, middle of the lower palaeosol complex, 2 samples combined		22	5+4+3+4+3+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Broken Mammoth	11420 ± 70	CAMS-5358	13320	80	59, 124	charcoal		cultural zone 4B, east hearth		24	5+4+3+4+3+3+2
Broken Mammoth	11500 ± 80	CAMS-8261	13410	100	59, 124	swan bone collagen		cultural zone 4B		23	3+4+4+4+3+3+2
Broken Mammoth	11510 ± 120	WSU-4262	13410	120	59, 124	charcoal		cultural zone 4B, central hearth		24	5+4+3+4+3+3+2
Broken Mammoth	11770 ± 210	WSU-4351	13700	250	59, 124	charcoal		cultural zone 4C		22	5+4+3+4+3+1+2
Broken Mammoth	11770 ± 220	WSU-4364	13710	260	59, 124	charcoal		cultural zone 4C		22	5+4+3+4+3+1+2
Canyon Creek	7195 ± 100	SI-1117	8040	100	72, 84, 122	charcoal		hearth, N5-10/E45-50, Stratum D, brown sand, 7.5 ft depth	large log with hair-like roots on its exterior, out of sequence with W-1122 on Level 3.	17	5+1+2+1+3+3+2
Chalkyitsik, AK	4390±70	Beta 136731	5050	150	151	Skull, A-191				19	3+4+4+0+3+3+2
Chatanika	13125±75	OxA11277	15980	290	37, 151		Brown et al. 1988			19	3+4+4+0+3+3+2
Ch'ijee's Bluff	26640±1400	QU-781	31310	1280	11, 44, 68, 73, 81, 87	Humerus (Big Bluff-76-29)		river bank at base of high bluff		15	3+2+4+0+3+1+2
Cleary Creek	11735 ± 130	St-1631	13620	140	51, 84, 89	<i>Bison priscus</i> horn sheath				16	3+4+4+0+2+1+2
CRH-11-1	12610±440	TO-34	15090	830	37		Brown et al. 1988			17	3+4+4+0+3+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Cripple Creek	21065 ± 1365	SI-839	25380	1680	51, 84, 89, 108	Horn sheath (AMNH-4037)		muck		17	4+2+4+1+3+1+2
Cripple Creek	29295 ± 2440	SI-842	34110	2480	33, 51, 84, 89, 108	Horn sheath (AMNH-46928)		muck		17	4+2+4+1+3+1+2
Cripple Creek	33300±1600		38140	2090	151	Metacarpal, A-179-2052				17	3+4+4+0+3+1+2
Cripple Creek	>41000		>41000		151	Metacarpal, A-206-2449				15	3+4+4+0+1+1+2
Cripple Hill	>62000	OxA-11992	>62000		151	Metacarapal, CMN35783				15	3+4+4+0+1+1+2
Dawson City	12960±60	OxA11197	15530	70	37, 151	CMN46696	Brown et al. 1988			19	3+4+4+0+3+3+2
Dawson City	>52000	OxA-12028	>52000		151	Metacarpal				15	3+4+4+0+1+1+2
Dawson Loc. 7	30300 ± 1850	I-3571	35070	2070	44	<i>Bison crassicornis</i> horncore		gravel at placer operation		15	3+2+4+0+3+1+2
Dawson Loc. No. 36	45200 ± 2100	Beta-79857	48680	2440	84	Metatarsal (NMC-33876)		placer mine		16	3+4+4+0+2+1+2
Dawson Locality No. 10	44600 ± 1900	Beta-79856	48000	2180	46, 50, 75, 84	Thoracic vertebra		placer mine		15	3+2+4+1+2+1+2



## Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Dawson Locality No. 25	24900 ± 1000	I-3575	29700	1080	44, 84	<i>Bison crassicornis</i> horncore and frontal		Placer mine		16	4+2+4+0+3+1+2
Dawson Locality No. 32	22200 ± 1400	I-3570	26590	1640	44, 45, 54, 84	<i>Bison crassicornis</i> horncore		muck near the surface of underlying gold-bearing gravel		17	4+2+4+1+3+1+2
Denali National Park	>42000	Beta 235489	>42000		152	DENA 6476. Skull petrous bone	Collagen extraction with alkali			15	3+4+4+0+1+1+2
Dome Creek	31400 +2040 - 1815	St-1721	35980	1300	51, 84, 89	<i>Bison priscus</i> hair and hide		muck frozen silt near contact with underlying gravel		17	4+2+4+1+3+1+2
Dome Creek	>56000	OxA- 10685	>56000		151	Femur, A- 678-3133				15	3+4+4+0+1+1+2
Dry Creek	9340 ± 195	SI-2329	10640	300	6, 41, 58, 96, 114	charcoal		paleosol 2, component II		17	1+2+4+4+3+1+2
Dry Creek	10690 ± 250	SI-1561	12510	330	6, 41, 58, 96, 114	charcoal		paleosol 1, component II, loess 3		17	1+2+4+4+3+1+2
Dry Creek	10715±225	St-1561	12560	300	33					18	1+3+4+4+3+1+2
Dry Creek	11735±130	SI-1631	13620	140	37		Brown et al. 1988			19	3+4+4+0+3+3+2
Eldorado Creek, Dawson City	31530±230	OxA- 11137	35400	330	151	Metacarpal , CMN 49764				17	3+4+4+0+3+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Elephant Point	16685±80	OxA11223	20080	120	37, 151		Brown et al. 1988			19	3+4+4+0+3+3+2
Engigstciak	9400 ± 230	RIDDL-319	10700	330	17, 22, 70, 97, 98, 118, 160	Metatarsal (NiVκ-1: 459)		Buffalo Pit		15	3+1+4+1+3+1+2
Engigstciak	9770 ± 180	RIDDL-281	11190	320	17, 22, 70, 97, 98, 118	Metacarpal (NiVκ-1: 135)		Buffalo Pit		15	3+1+4+1+3+1+2
Engigstciak	9870 ± 180	RIDDL-362	11390	310	17, 22, 70, 97, 98, 118, 160	Tibia		Buffalo Pit		15	3+1+4+1+3+1+2
Engineer Creek	>39000		>39000		151	Metacarpal, A-105-5319				15	3+4+4+0+1+1+2
Engineer Creek	>41000		>41000		151	Metacarpal, A-219-8090				15	3+4+4+0+1+1+2
Engineer Creek	>41000		>41000		151	Metacarpal, A-105-5396				15	3+4+4+0+1+1+2
Engineer Creek	>44000		>44000		151	Metacarpal, A-219-8005				15	3+4+4+0+1+1+2
Escholtz Bay	53800±2900	OxA-11273	56220	2930	151	Metacarpal, FAM 14332				16	3+4+4+0+2+1+2
Ester Creek	19360±280		23190	290	151	Metacarpal, A-112-6450				17	3+4+4+0+3+1+2
Ester Creek	19570±290		23450	310	151	Metacarpal, A-100-7749				17	3+4+4+0+3+1+2
Ester Creek	21580±370		25810	580	151	Metacarpal, A-105-6641				17	3+4+4+0+3+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ester Creek	23380±460		28260	630	151	Metacarpal, A-144-9359				17	3+4+4+0+3+1+2
Ester Creek	25310±580		30310	600	151	Metacarpal, A-148-9294				17	3+4+4+0+3+1+2
Ester Creek	27440±790		32140	700	151	Metacarpal, A-160-6681				17	3+4+4+0+3+1+2
Evergreen Creek, Dawson City	33710±240	OxA-11960	38990	1380	151	Humerus, 110.20a				17	3+4+4+0+3+1+2
Evergreen Creek, Dawson City	34470±200	OxA-11991	39810	810	151	Humerus, 110.19				17	3+4+4+0+3+1+2
Fairbanks Area	16400±2000	M-38	19750	2360	21, 51, 84, 89	<i>Bison priscus</i> horn sheath		muck		17	4+2+4+1+3+1+2
Fairbanks Area	17210±500	SI-454	20640	600	37		Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Area	31980 ± 4490	SI-843	36420	4230	33, 51, 89, 108	<i>Bison priscus</i> horn sheath (AMNH-30530)				16	4+2+4+0+3+1+2
Fairbanks Creek	11980 ± 135	ST-11633	13970	230	35, 45, 51, 84, 89	<i>Bison priscus</i> hide		frozen silt		19	4+2+4+1+3+3+2
Fairbanks Creek	12,860±140	AA26829	15430	200	37	AMNH, A-4339	Brown et al. 1988			19	3+4+4+0+3+3+2
Fairbanks Creek	13235±65	OxA11617	16150	300	37, 151	Metatarsal	Brown et al. 1988			18	3+3+4+0+3+3+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Fairbanks Creek	14,620±170	AA26802	17750	130	37	AMNH, Bx278-5640	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	15380±300	SI-453	18420	340	37		Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	17170 ± 840	SI-838	20620	1040	35, 45, 51, 84, 89	Horn sheath (AMNH-1014)				16	4+2+4+0+3+1+2
Fairbanks Creek	20445 ± 885	SI-837	24550	1050	35, 45, 51, 84, 89	Horn sheath (AMNH-1042)				16	4+2+4+0+3+1+2
Fairbanks Creek	22120±130	OxA-10581	26500	250	151	Scapula, Ak-316-V-11				19	3+4+4+0+3+3+2
Fairbanks Creek	39200±550	OxA-10683	43110	500	151	<i>B. pre-occidentalis</i> Skull, A-606-1082				16	3+4+4+0+2+1+2
Fairbanks Creek	>41000		>41000		151	Metacarpal, A-628-5454				15	3+4+4+0+1+1+2
Finning, Whitehorse	30500±250	OxA-11280	34640	240	151	Metatarsal, 3.124				17	3+4+4+0+3+1+2
Flat Creek, Dawson City	>50100	OxA-11957	>50100		151	Metacarpal, CMN 25211				15	3+4+4+0+1+1+2
Fox	>41000		>41000		151	Metapodial, FAM 46836				15	3+4+4+0+1+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Fox Permafrost Tunnel	11910 ± 180	I-12657	13910	280	41, 84, 90	wood		debris fan gravels	plant debris from same gravel unit dated 12570±390	13	1+3+2+1+3+1+2
Fox Permafrost Tunnel	12570 ± 390	I-22656	14960	710	41, 84, 90	peat		debris fan gravels	Wood debris from same gravel unit dated 11910±180	12	1+3+2+0+3+1+2
Fox Permafrost Tunnel	13470 ± 420	I-2196	16320	620	41, 84, 90	Mammal bone		debris fan gravels		14	3+3+2+0+3+1+2
Fox Permafrost Tunnel	14280 ± 230	I-2197	17440	240	41, 84, 90	Mammal bone		debris fan gravels		14	3+3+2+0+3+1+2
Fox Permafrost Tunnel	14280±230	I-2191	17440	240	37		Brown et al. 1988			17	3+4+4+0+3+1+2
Gerstle River	8960±70		10070	120	151	Astragalus, VA-2000-54-77				24	3+5+4+4+3+3+2
Gerstle River	9400±60	OxA-11246	10630	80	95, 151	<i>Bison priscus</i> astragalus		lower locus, disturbed	AMS, well preserved collagen	21	3+4+4+2+3+3+2
Gerstle River	9510±40. CHECK, should it be 9506±38	OxA-11962	10880	150	95, 151	<i>Bison priscus</i> metatarsal		lower locus, disturbed	AMS, well preserved collagen	23	3+4+4+2+3+5+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Gold Run Creek	21500±130	OxA-10547	25530	260	151	Metacarpal, CMN 34726				19	3+4+4+0+3+3+2
Gold Stream	>40300		>40300		151	Metacarpal, A-100-1205				15	3+4+4+0+1+1+2
Goldstream, Fox	>41000		>41000		151	Metacarpal, A-269-6036				15	3+4+4+0+1+1+2
Herschel Island, Pauline Cove	46900±0	Beta 185980	50210		162	Metapodial, YG 153.1				16	3+4+4+0+2+1+2
Hester Creek, Dawson City	27060±190	OxA-11193	31800	130	151	Metacarpal, CMN 49692				17	3+4+4+0+3+1+2
Hunker Creek, Dawson City	26760±120	OxA-12087	31640	110	151	Metacarpal, CMN 35891				19	3+4+4+0+3+3+2
Hunker Creek, Dawson City	29150±500	OxA-10680	33520	490	151	Metatarsal, CMN 35365				17	3+4+4+0+3+1+2
Hunker Creek, Dawson City	29200±210	OxA-11632	33650	310	151	Metacarpal, CMN 35357				17	3+4+4+0+3+1+2
Hunker Creek, Dawson City	>56800	OxA-11168	>56800		151	Metacarpal, CMN 44404				15	3+4+4+0+1+1+2
Ikpikpuk River	10510±50	CAMS-53767	12510	120	37, 151		Brown et al. 1988			21	3+4+4+0+3+5+2

## Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ikpikpuk River	10990±50	CAMS-53891	12890	80	37, 151	Astragalus	Brown et al. 1988			21	3+4+4+0+3+5+2
Ikpikpuk River	11810±50	CAMS-53756	13690	70	37		Brown et al. 1988			21	3+4+4+0+3+5+2
Ikpikpuk River	12270±50	CAMS-53774	14400	200	37		Brown et al. 1988			22	3+4+4+0+3+5+2
Ikpikpuk River	12270±50	CAMS 53774	14400	200	151	Humerus, IK-98-528				22	3+4+4+0+3+5+2
Ikpikpuk River	12410±50	CAMS53760	14730	120	37, 151	Metatarsal	Brown et al. 1988			21	3+4+4+0+3+5+2
Ikpikpuk River	17160±80	CAMS53777	20610	110	37, 151	Metapodial	Brown et al. 1988			19	3+4+4+0+3+3+2
Ikpikpuk River	17160±80	CAMS-53777	20610	110	37		Brown et al. 1988			19	3+4+4+0+3+3+2
Ikpikpuk River	19420±100	CAMS 53772	23320	90	151	Femur, IK-98-504				19	3+4+4+0+3+3+2
Ikpikpuk River	21040±120	CAMS53890	24980	110	151	Astragalus, IK-98-1090				19	3+4+4+0+3+3+2
Ikpikpuk River	21530±130	CAMS53770	25560	270	151	Metacarpal, IK-98-401				19	3+4+4+0+3+3+2
Ikpikpuk River	23680±170	CAMS 53901	28480	250	151	Femur, IK-98-1254				17	3+4+4+0+3+1+2
Ikpikpuk River	24500±180	CAMS 53764	29400	300	151	Radius, IK-98-302				17	3+4+4+0+3+1+2
Ikpikpuk River	25980±230	CAMS 53899	30900	340	151	Horncore, IK-98-				17	3+4+4+0+3+1+2
Ikpikpuk River	27400±260	CAMS 53758	32020	200	151	Radius, IK-98-095				17	3+4+4+0+3+1+2
Ikpikpuk River	27590±280	CAMS 53768	32180	250	151	Metacarpal, IK-98-374				17	3+4+4+0+3+1+2
Ikpikpuk River	28120±290	CAMS53892	32590	330	151	Astragalus, IK-98-1115				17	3+4+4+0+3+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ikpikpuk River	29040±340	CAMS 53775	33490	400	151	Metacarpal, IK-98-616				17	3+4+4+0+3+1+2
Ikpikpuk River	29570±340	CAMS 53897	33890	340	151	Metacarpal, IK-98-1164				17	3+4+4+0+3+1+2
Ikpikpuk River	30000±540	CAMS 53771	34200	460	151	Metapodial, IK-98-430				17	3+4+4+0+3+1+2
Ikpikpuk River	31412±420	CAMS 53763	35330	430	151	Metapodial, IK-98-256				17	3+4+4+0+3+1+2
Ikpikpuk River	31630±440	CAMS 53759	35530	480	151	Radius, IK-98-096				17	3+4+4+0+3+1+2
Ikpikpuk River	32370±470	CAMS 53885	36810	930	151	Humerus, IK-98-				17	3+4+4+0+3+1+2
Ikpikpuk River	33320±540	CAMS 53903	37790	1140	151	Femur, IK-98-1323				17	3+4+4+0+3+1+2
Ikpikpuk River	35580±550	CAMS 53894	40440	980	151	Metacarpal, IK-98-1211				16	3+4+4+0+2+1+2
Ikpikpuk River	35710±730	CAMS 53782	40480	1060	151	Astragalus, IK-98-916				16	3+4+4+0+2+1+2
Ikpikpuk River	36320±780	CAMS 53900	40930	1050	151	Metacarpal, IK-98-1222				16	3+4+4+0+2+1+2
Ikpikpuk River	36520±800	CAMS 53914	41340	770	151	Astragalus, IK-98-863				16	3+4+4+0+2+1+2
Ikpikpuk River	37460±890	CAMS 53893	42120	550	151	Metacarpal, IK-98-1120				16	3+4+4+0+2+1+2
Ikpikpuk River	38700±1000	CAMS 53769	42870	670	151	Astragalus, IK-98-377				16	3+4+4+0+2+1+2



Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ikpikpuk River	38800±1100	CAMS 53779	42950	740	151	Astragalus, IK-98-889				16	3+4+4+0+2+1+2
Ikpikpuk River	39800±1200	CAMS 53781	43650	910	151	Astragalus, IK-98-915				16	3+4+4+0+2+1+2
Ikpikpuk River	39850±1200	CAMS 53761	43690	910	151	Astragalus, IK-98-174				16	3+4+4+0+2+1+2
Ikpikpuk River	40700±1300	CAMS 53895	44290	1060	151	Metacarpal, IK-98-1122				16	3+4+4+0+2+1+2
Ikpikpuk River	44800±2200	CAMS 53887	48310	2480	151	Ulna, IK-98-1042				16	3+4+4+0+2+1+2
Ikpikpuk River	46100±2200	CAMS 53757	49660	2670	151	Metacarpal, IK-98-032				16	3+4+4+0+2+1+2
Ikpikpuk River	46100±2600	CAMS 53766	49800	3050	151	Radius, IK-98-305				16	3+4+4+0+2+1+2
Ikpikpuk River	47000±2900	CAMS53778	50800	3470	151	Metacarpal, IK-98-671				16	3+4+4+0+2+1+2
Ikpikpuk River	49600±4000	CAMS 53783	52930	4300	151	Astragalus, IK-98-928				16	3+4+4+0+2+1+2
Ikpikpuk River	50000±4200	CAMS 53773	53150	4370	151	Vertebra, IK-98-527				16	3+4+4+0+2+1+2
Ikpikpuk River	49700±1400	OxA-11136	53660	2460	151	Metatarsal, IK-01-216				16	3+4+4+0+2+1+2
Ikpikpuk River	>46600	CAMS 53762	>46600		151	Astragalus, IK-98-218				15	3+4+4+0+1+1+2
Ikpikpuk River	>48500	CAMS 53886	>48500		151	Tibia, IK-98-1041				15	3+4+4+0+1+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ikpikpuk River	>49500	CAMS 53902	>49500		151	Metapodial, IK-98-1299				15	3+4+4+0+1+1+2
Ikpikpuk River	>49900	CAMS 53898	>49900		151	Astragalus, IK-98-1167				15	3+4+4+0+1+1+2
Jack Wade Creek	29700 ± 240	QL-1178	34040	240	51, 84, 92, 93	<i>Bison priscus</i> horncore		schistose orange sandy gravel beneath >5 m of organic silt		17	3+2+4+1+3+1+2
Kangiguksuk	30780±330	CAMS-107316	34890	340	158	Atlas collagen, YPM 234122	Modified Longin Method. Collagen visually inspected for purity	human occupation		17	3+4+4+0+3+1+2
Kangiguksuk	34820±460	CAMS-107317	39980	890	158	Horn core collagen, YPM 234149	Modified Longin Method. Collagen visually inspected for purity	human occupation		17	3+4+4+0+3+1+2
Ketza River	26350 ± 280	TO-393	31170	350	65, 84	Thoracic vertebra		gravel and coarse basaltic sand		18	3+4+4+1+3+1+2
Last Chance Creek	28850±220	OxA-11626	33350	320	151	Metacarpal, CMN 47551				17	3+4+4+0+3+1+2
Last Chance Creek	>57500	OxA-10682	>57500		151	Metacarpal, CMN 47439				15	3+4+4+0+1+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Lime Hills 1	27950 ± 560	Beta-67670	32560	500	1, 2, 51, 84	Talus		cave 1, N0/E1, 70-77 cm depth		18	3+4+4+1+3+1+2
Little John Site	9580±60	Beta 241522	10940	140	161	Radius collagen		Paleosol, East lobe, 98 cm dbs	AMS	21	3+4+4+2+3+3+2
Little John Site	12020±70	Beta 241523	13920	100	161	Vertebra collagen		Loess below paleosol, east lobe, 85 cm dbs	AMS	21	3+4+4+2+3+3+2
Lost Chicken Creek	6600 ± 60	USGS-1257	7500	50	33, 47, 76, 94, 115	wood		Unit 8/9, upper forest bed, lower boundary of unit 9, upper boundary of unit 8		14	1+2+2+1+3+3+2
Lost Chicken Creek	7110 ± 90	USGS-1256	7930	90	33, 47, 76, 94, 115	<i>Picea</i> twigs		Unit 6, lower forest bed, upper boundary of unit 6		14	1+2+2+1+3+3+2
Lost Chicken Creek	8120 ± 60	USGS-1258	9090	80	33, 47, 76, 94, 115	Peat		Unit 6, gray alluvium overlying a prominent ice-wedge horizon		14	1+2+2+1+3+3+2
Lost Chicken Creek	8120 ± 60	USGS-1258	9090	80	33, 47, 76, 94, 115	Peat		Unit 6, gray alluvium overlying a prominent ice-wedge horizon		14	1+2+2+1+3+3+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Lost Chicken Creek	8620 ± 375	USGS-372	9670	480	33, 47, 76, 94, 115	<i>Picea</i> twigs		Unit 6, large spruce stem in red gravel, basal unit 6		12	1+2+2+1+3+1+2
Lost Chicken Creek	10370 ± 160	I-8582	12210	300	33, 47, 76, 94, 115, 160	<i>Bison priscus</i> tibia (CMN-25485)		placer deposits		16	3+2+4+1+3+1+2
Lost Chicken Creek	12340±65	OxA10697	14510	220	37, 151	Tibia	Brown et al. 1988			19	3+4+4+0+3+3+2
Lost Chicken Creek	12340±65	OxA-10679	14510	220	37		Brown et al. 1988			19	3+4+4+0+3+3+2
Lost Chicken Creek	12380±60	OxA11226	14600	210	37, 151		Brown et al. 1988			19	3+4+4+0+3+3+2
Lost Chicken Creek	12465±75	OxA-111	14850	150	151	Metapodial, V-54-320				19	3+4+4+0+3+3+2
Lost Chicken Creek	12525±70	OxA10541	14960	140	37, 151		Brown et al. 1988			19	3+4+4+0+3+3+2
Lost Chicken Creek	12665±65	OxA10855	15160	120	37, 151	Humerus	Brown et al. 1988			19	3+4+4+0+3+3+2
Lost Chicken Creek	12915±70	OxA10544	15490	80	37, 151	Metatarsal	Brown et al. 1988			19	3+4+4+0+3+3+2
Lost Chicken Creek	12960±70	OxA10538	15540	80	37, 151	Femur	Brown et al. 1988			19	3+4+4+0+3+3+2
Lost Chicken Creek	13160±70	OxA10540	16030	290	37, 151	Right ulna	Brown et al. 1988			19	3+4+4+0+3+3+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Lost Chicken Creek	13240±75	OxA10543	16160	320	37, 151		Brown et al. 1988			19	3+4+4+0+3+3+2
Lost Chicken Creek	17960±90	OxA10542	21480	80	37, 151		Brown et al. 1988			19	3+4+4+0+3+3+2
Lost Chicken Creek	19540±120	OxA-11139	23430	100	151	Humerus, V-54-1099				19	3+4+4+0+3+3+2
Lost Chicken Creek	24950±170	OxA-10537	29910	140	151	Metacarpal, V-54-55				17	3+4+4+0+3+1+2
Lost Chicken Creek	26210±170	OxA-11227	31100	290	151	Metapodial, V-54-29				17	3+4+4+0+3+1+2
Lost Chicken Creek	26460±160	OxA-11131	31330	240	151	Radius, V-54-60				17	3+4+4+0+3+1+2
Lost Chicken Creek	41,000±2500	USGS-371	44980	2060	33, 47, 76, 94, 115	wood		associated with USNM372804, unit 3		11	1+2+2+1+2+1+2
Lost Chicken Creek	>55800	OxA-10539	>55800		151	Metapodial, V-54-712				15	3+4+4+0+1+1+2
Lower Eldorado Creek	21020±360		25140	440	151	Metacarpal, A-169-3115				17	3+4+4+0+3+1+2
Lower Eldorado Creek	33880±1900		38450	2180	151	Metacarpal, A-174-3123				17	3+4+4+0+3+1+2
Lower Eldorado Creek	>38000		>38000		151	Metacarpal, A-209-4359				15	3+4+4+0+1+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Lower Gold Stream	20730±350		24670	400	151	Metacarpal, A-237-7970				17	3+4+4+0+3+1+2
Manley Hot Springs	18000 ± 200	SI-841	21700	340	33, 51, 84, 89, 108	Horn sheath (AMNH-4002)		muck		18	4+3+4+1+3+1+2
No Site Name	39290 ± 540	TO-5650	43170	500	54, 84	<i>B. priscus</i> right metacarpal		grey sandy silt 5 cm bs		15	3+2+4+1+2+1+2
Nugget Gulch, Dawson City	30810±975	Beta 33192	35070	880	151, 160	Skull, CMN 46320				17	3+4+4+0+3+1+2
Old Crow	12350±70	OxA10546	14520	230	37, 151	CMN3303 9 Skull	Brown et al. 1988			19	3+4+4+0+3+3+2
Old Crow Loc. CRH-11	12220±1500	QU-783	14590	1990	81, 84	Humerus (11-75-3-3)		river base at bank of high bluff		16	3+2+4+1+3+1+2
Old Crow Loc. CRH-11-1	11990 ± 180	I-7765	14060	330	44, 81, 84	<i>Bison crassicornis</i> scapula		gully behind face of high bluff		16	3+2+4+1+3+1+2
Old Crow Loc. CRH-11-1	12460±220	I-3574	14710	440	44, 81, 84	<i>Bison crassicornis</i> lumbar vertebra		gully behind face of high bluff		17	3+2+4+2+3+1+2
Old Crow Loc. CRH-11-1	12610 ± 70	TO-34	15090	130	44, 81, 84	<i>Bison crassicornis</i> metacarpal	Alkali extraction	gully behind face of high bluff		19	3+2+4+2+3+3+2
Old Crow Loc. CRH-11A	11450±400	QU-780	13430	440	5, 44, 48, 64, 81, 84	Humerus (11A77-3154)		river bank, point bar	Redeposited	15	3+2+4+0+3+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Old Crow Loc. CRH-11A	12275±180	I-7764	14430	350	5, 44, 48, 64, 81, 84	<i>Bison crassicornis</i> horncore		river bank, point bar	Redeposited	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-11A	12660±560	QU-782	15210	990	5, 44, 48, 64, 81, 84	Humerus (11A77-3305)		river bank, point bar	Redeposited	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-11A	27400±1050	SI-2817-B	32050	990	84	Metacarpal (11A75-2387) apatite		river bank, point bar		13	2+1+4+0+3+1+2
Old Crow Loc. CRH-11A	28050±500	SI-2825	32620	470	5, 44, 48, 64, 81, 84	Metacarpal (11A75-7909)		river bank, point bar	Redeposited	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-11A	34000±1000	SI-2822-A	38770	1710	44, 51					9	1+2+0+0+3+1+2
Old Crow Loc. CRH-11A	34900±500	SI-2825-B	40010	910	84	Metacarpal (apatite extraction) (11A75-7909)		river bank, point bar		13	2+1+4+0+3+1+2
Old Crow Loc. CRH-14N	33880 ± 2000	I-4227	38420	2240	11, 4, 63, 81, 83, 84, 86, 87, 121	<i>Bison crassicornis</i> humerus		modern river bank, eroding from early Holocene deposit		12	3+2+1+0+3+1+2
Old Crow Loc. CRH-15	34700 ± 600	RIDDL-139	39860	950	81, 82, 83, 84, 86	Humerus (MIV1-2:121)	Collagen extraction method 1.	alluvium, Disconformity A		14	3+2+4+0+2+1+2
Old Crow Loc. CRH-15	35200 ± 750	RIDDL-310	40130	1040	81, 82, 83, 84, 86	Rib (MIV1-2:10)	Collagen extraction method 2		Two statistical outliers	15	3+2+4+1+2+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Old Crow Loc. CRH-15	36500 ± 650	RIDDL-144	41570	490	81, 82, 83, 84, 86	Bison sp. rib (MIV1-2:10)	Collagen extraction method 1.	alluvium, middle of Unit 2b, between Disconformity A and upper lake	Two statistical outliers	15	3+2+4+1+2+1+2
Old Crow Loc. CRH-15	39500 ± 900	RIDDL-730	43370	700	81, 82, 83, 84, 86	Innominate (MIV1-2:103-3)	Collagen extraction method 3, >30kD	alluvium, Disconformity A		14	3+2+4+0+2+1+2
Old Crow Loc. CRH-20	37000 ± 950	RIDDL-196	41800	630	79, 84, 86	Humerus (NaVk-6:2)	collagen extraction method 1	surface, river bank		14	3+2+4+0+2+1+2
Old Crow Loc. CRH-70	37300 ± 750	RIDDL-136	42050	470	80, 81, 84, 86	Radius (MIV1-3:11)	Collagen extraction method 1	alluvium, middle of Unit 2b, between Disconformity A and upper lake	Associated organic detritus (GSC-2792: >37,000 BP).	15	3+2+4+1+3+1+2
Old Crow Loc. HH69-21	42000 ± 1200	RIDDL-142	45260	1200	81, 84, 86	Rib (MIV1-13:21)	Collagen extraction method 1.	alluvium, Disconformity A		15	3+3+4+0+2+1+2
Old Crow Loc. REM78-1	35200 ± 750	RIDDL-309	40130	1040	84, 86	Tibia (MIV1-14:52)	Collagen extraction method 2	alluvium, Disconformity A	Two statistical outliers	15	3+3+4+0+2+1+2
Old Crow Loc. REM78-1	36500 ± 1000	RIDDL-138	40950	1190	84, 86	Tibia (MIV1-14:52)	Collagen extraction method 1	alluvium, Disconformity A	Two statistical outliers	15	3+3+4+0+2+1+2
Oro Granda Creek, Dawson City	>47500	OxA-10573	>47500		151	Metacarpal, CMN 47476				15	3+4+4+0+1+1+2
Palisades	26300±300	Beta 110938	31130	360	151	Metatarsal, P-013				17	3+4+4+0+3+1+2



Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Pearl Creek	36425 +2575/- 1974	QC-891	40150	4220	33, 35				Blue Babe	17	4+3+4+1+2+1+2
Pelly Farm	2920 ± 140	GSC-127	3090	180	69, 72, 84, 101, 121	charcoal		square S20/W65, floor 5, burned sand stratum	S-193 and GSC-127 are out of sequence with respect to their stratigraphi c relationships, but overlap at one-sigma.	18	5+1+3+1+3+3+2
Pelly Farm	3100 ± 70	S-193	3310	80	69, 72, 84, 101, 121	charcoal		square S3/W2, floor 4, 0.7 m depth, in burned sand and charcoal		17	5+1+3+0+3+3+2
Porcupine River Bison	9000 ± 250	Beta-18552	10110	340	51, 84, 106, 151	Bone collagen				17	3+4+4+0+3+1+2
Porcupine River Cave 1	21050±330	DIC-1333	25170	400	24, 28, 51, 103	Metacarpal		Unit C, square N5/E4, 195- 200 cm below datum		18	3+3+4+1+3+1+2
Quartz Creek, Dawson City	30750±290	OxA- 10574	34860	320	151	Metacarpal , CMN 49583				17	3+4+4+0+3+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Revenue Creek, Dawson City	>51200	OxA-11683	>51200		151	Metacarpal, 30.2				15	3+4+4+0+1+1+2
Seward Peninsula, Alder Creek	19420±100	OxA-11247	23320	90	151	Femur, FAM 32761				19	3+4+4+0+3+3+2
Seward Peninsula, Alder Creek	37550±400	OxA-11196	42180	350	151	Horn core, FAM 14344				16	3+4+4+0+2+1+2
Sheep Creek, Fairbanks	>5900	OxA-11279	>5900		151	Skull, V-37-30				15	3+4+4+0+1+1+2
Teklanika	13500±100	QL-1365	16730	130	37		Brown et al. 1988			19	3+4+4+0+3+3+2
Trail Creek Cave 9	13010±350	K-1327	15820	640	51, 66, 84, 104, 109	Calcaneus		outside south entrance to Cave 9		15	3+1+4+1+3+1+2
Tsiigetichic NWT	11830±45	OxA-18549	13700	70	164	<i>B. priscus</i>		Alluvial terrace, glacial fluvial sediments	Preserved hair, intestines, eyeball, hoof cover, ligaments, horn core	23	4+4+4+1+3+5+2
Upper Cleary Creek	12460 ± 320	SI-290	14720	560	51, 78, 84, 89, 105	<i>Bison priscus</i> horn sheath		frozen muck		15	4+1+4+0+3+1+2
Upper Cleary Creek	19150±280		23000	290	151	Metacarpal, A-112-3346				17	3+4+4+0+3+1+2

Supplemental Data. Bison Radiocarbon Dates

Bison Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material	Pretreatment	Provenience	Notes	Rating	Rating Justification
Williscroft Creek	5480 ± 70	GSC-3731	6290	70	10, 84	<i>Picea</i> (11.0 g)		peat, 2.0 m below the White River Ash, eastern lobe, 2.38 m bs		15	1+3+2+1+3+3+2
Yukon Flats	11900±70	RS-9200	13780	110	37		Brown et al. 1988		Female bison skull with horn sheaths	21	3+4+4+2+3+3+2
Yukon Flats	12425±45	OxA12067	14780	90	37		Brown et al. 1988			23	3+4+4+2+3+5+2
Yukon River	43400±900	OxA-11163	46490	1160	151	Skull				16	3+4+4+0+2+1+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
2 km from Little John Site	20660±100	Beta 70102	24680	90	161				<i>Equus lambei</i>	19	3+4+4+0+3+3+2
Alaska Locality	34,300±1700	AA26800	38750	2050	36, 37	AMNH, A-1a	Brown et al. 1988			17	3+4+4+0+3+1+2
Birch Creek	15,502±100	AA26831	18680	50	37	AMNH, I23	Brown et al. 1988			19	3+4+4+0+3+3+2
Bluefish Cave	13390±180	RIDDL-279	16330	420	37		Brown et al. 1988			16	3+4+4+0+3+1+1
Bluefish Cave	22680±530	NMC-1237	27180	700	104	collagen				17	3+4+4+0+3+1+2
Bluefish Cave 1	12900 ± 100	GSC-2881	15470	120	12, 15, 16, 68, 84, 85	Equus lambei femur (50 g, T-3-31, 526.9 g)		stratigraphic unit IV	Palynological data support a post Wisconsin maximum age	19	3+2+4+2+3+3+2
Bluefish Cave 1	17440 ± 220	RIDDL-278	20930	260	12, 15, 16, 68, 84, 85	Equus lambei metatarsal (MgVo-1: K8-1-13)		bone pile in front of cave 1		19	3+2+4+4+3+1+2
Bluefish Cave 2	22680±530	CRNL-1237	27180	700	12, 15, 16, 68, 84, 85	Equus sp. limb bone (6 g, MgVo-2:I6-G-27)		lower loess unit 16		16	3+2+4+1+3+1+2
Bluefish Cave 3	12290±440	NMC-1236	14580	680	84	Bone				14	3+1+4+0+3+1+2
Bluefish Cave 3	12290±440	CRNL-1236	14580	680	12, 15, 16, 68, 84, 85	Equus sp. limb bone (MgVo-3: TP1-F-1)		lower loess, Test Pit 1		16	3+2+4+1+3+1+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Canyon Creek	39360±1740	SMU-640	43470	1240	84, 119	Bone collagen		contact between Units 4 and 5	This specimen was dated 3 times with statistical outliers	17	3+3+4+2+2+1+2
Cleary	13,940±160	AA26809	17170	170	37	AMNH, A-276	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary	14,300±160	AA26803	17460	200	36, 37	AMNH, A-274	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary	16,700±220	AA26807	20040	280	37	AMNH, A-940	Brown et al. 1988			17	3+4+4+0+3+1+2
Cleary	19,065±140	AA26846	22950	190	37	AMNH, A-603	Brown et al. 1988			19	3+4+4+0+3+3+2
Cleary	>40970	A-963	>40970		37		Brown et al. 1988			15	3+4+4+0+1+1+2
Cleary Creek	18450 +200/-210	DIC-3091	22120	330	33, 51, 84	Bone collagen				16	3+3+4+0+3+1+2
Cleary Creek	30250 +890/-990	DIC-3092	34440	860	51, 84, 89	Bone collagen				15	3+2+4+0+3+1+2
CR-44	16450 ± 175	Avg of RIDDL-765 and RIDDL-766	19740	270	48, 84, 117, 162	Equus lambei cranium (NMC-43815)	Date on >30,000 Dalton weight molecules of collagen.	sand colluvium on glacially deformed marine and terrestrial beds, partly exposed		19	3+3+4+1+3+3+2
Cripple Creek	13,270±150	AA26811	16200	390	37	AMNH, Bx334-2870	Brown et al. 1988			19	3+4+4+0+3+3+2
Cripple Creek	20,840±350	AA26850	24880	420	37	AMNH, A-4-4-2145	Brown et al. 1988			17	3+4+4+0+3+1+2
Cripple Creek	21,050±360	AA26855	25170	440	37	AMNH, A-404-2144	Brown et al. 1988			17	3+4+4+0+3+1+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Cripple Creek	33,600±1700	AA26786	38320	2110	37	AMNH, A2382	Brown et al. 1988			17	3+4+4+0+3+1+2
Cripple Creek	34,500±1800	AA26784	38860	2090	37	AMNH, A2869	Brown et al. 1988			16	3+4+4+0+2+1+2
Cripple Creek	34,800±2000	AA26793	39010	2200	37	AMNH, A-2560	Brown et al. 1988			17	3+4+4+0+3+1+2
Cripple Creek	35,900±2200	AA26797	39780	2280	37	AMNH, A-144-9421	Brown et al. 1988			16	3+4+4+0+2+1+2
Cripple Creek	40,800±3900	AA26796	45070	3610	37	AMNH, A4108	Brown et al. 1988			16	3+4+4+0+2+1+2
Cripple Creek	>41100	A-4320	>41100		37		Brown et al. 1988			15	3+4+4+0+1+1+2
Cripple Creek Sp.	14,260±160	AA26840	17440	200	37	AMNH, A-558-2402	Brown et al. 1988			17	3+4+4+0+3+1+2
Dawson Locality No. 28	14870 ± 260	I-3569	18140	300	9, 44, 50, 84	Metacarpal collagen		interface of muck and gold-bearing gravel		16	3+2+4+1+3+1+2
Dawson Locality No. 29	27680 ± 650	Beta-8865	32380	550	84	Metatarsal collagen		placer mine		17	3+4+4+0+3+1+2
Dominion Creek	14990 ± 220	I-9316	18210	260	35, 84	Bone collagen		placer deposits		16	3+3+4+0+3+1+2
Dominion Creek	16270 ± 230	I-9271	19490	340	35, 84	Bone collagen		placer deposits		17	3+4+4+0+3+1+2
Dublin Gulch	31450 ± 1300	I-10935	36160	1580	49, 84	Equus lambei metatarsal (NMC-34964)		silt colluvium overlying glacial till		18	3+4+4+1+3+1+2
Engineer Creek	15,570±190	AA26812	18710	160	37	AMNH, A-114-5278	Brown et al. 1988			17	3+4+4+0+3+1+2
Engineer Creek	19,450±290	AA26836	23290	310	37	AMNH, A-114-5336	Brown et al. 1988			17	3+4+4+0+3+1+2
Engineer Creek	20,410±320	AA26862	24310	370	37	AMNH, A-463-3144	Brown et al. 1988			17	3+4+4+0+3+1+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Engineer Creek	20,580±160	AA26857	24580	170	37	AMNH, A-244-8413	Brown et al. 1988			17	3+4+4+0+3+1+2
Engineer Creek	25,335±580	AA26875	30340	590	37	AMNH, A-8516	Brown et al. 1988			17	3+4+4+0+3+1+2
Engineer Creek	34,800±1800	AA26785	39060	2070	37	AMNH, A-5087	Brown et al. 1988			17	3+4+4+0+3+1+2
Engineer Creek	40,500±3900	AA26795	44690	3650	37	AMNH, A-8525	Brown et al. 1988			16	3+4+4+0+2+1+2
Epiguruk	36,850±750	USGS-1514	41780	500	39, 40	Bone collagen		holocene eolian sand, 2250m	downslope movement	20	3+4+4+3+3+1+2
Ester Creek	12,510±130	AA26819	14880	260	37	AMNH, A-144-9422	Brown et al. 1988			19	3+4+4+0+3+3+2
Ester Creek	12,580±140	AA26828	15010	240	37	AMNH, A-144-9399	Brown et al. 1988			18	3+4+4+0+3+3+2
Ester Creek	14,000±160	AA26805	17240	190	37	AMNH, A-144-6987	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	14,990±190	AA26852	18210	260	37	AMNH, A-160-6810	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	15,370±190	AA26804	18380	290	37	AMNH, A-144-6534	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	15,750±190	AA26808	18920	180	37	AMNH, A-144-6306	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	15,920±190	AA26820	19080	220	37	AMNH, A-144-9414	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	16,150±210	AA26845	19340	300	37	AMNH, A-114-6909	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	17,650±230	AA26818	21140	250	37	AMNH, A-114-6511	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	17,910±260	AA26833	21580	400	37	AMNH, A-144-9423	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	18,890±280	AA26839	22770	320	37	AMNH, A-160-6819	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	19,120±290	AA26824	22980	290	37	AMNH, A-114-6801	Brown et al. 1988			17	3+4+4+0+3+1+2

## Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ester Creek	19,460±290	AA26823	23310	310	37	AMNH, A155-6052	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	19,520±300	AA26842	23380	320	37	AMNH, A-107-7670	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	19,550±310	AA26860	23420	340	37	AMNH, A-144-9392	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	19,730±350	AA26851	23770	400	37	AMNH, A-107-7716	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	19,790±335	AA26849	23770	390	37	AMNH, A-414	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	20,420±325	AA26869	24320	370	37	AMNH, A-144-6509	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	20,580±330	AA26847	24470	380	37	AMNH, A-802	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	22,710±440	AA26848	27290	570	37	AMNH, A-160-6805	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	23,410±200	AA26853	28180	140	37	AMNH, A-160-6831	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	23,620±470	AA26876	28620	570	37	AMNH, A-144-9406	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	26,105±635	AA26868	30910	580	37	AMNH, A-114-6703	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	26,690±720	AA26854	31330	640	37	AMNH, A-160-6811	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	31400±1200	AA26780	36080	1480	37	AMNH, A-155-6253	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	32,600±1400	AA26787	37470	1900	37	AMNH, A-155-6274	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	34,900±2200	AA26790	39030	2310	37	AMNH, A107-6367	Brown et al. 1988			17	3+4+4+0+3+1+2
Ester Creek	35,400±2000	AA26788	39450	2160	37	AMNH, A-144-9427	Brown et al. 1988			16	3+4+4+0+2+1+2
Ester Creek	36,300±2200	AA26781	40170	2200	37	AMNH, A-107-6558	Brown et al. 1988			16	3+4+4+0+2+1+2
Ester Creek	36,640±2300	AA26867	40470	2230	37	AMNH, A-107-4519	Brown et al. 1988			16	3+4+4+0+2+1+2



## Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ester Creek	36,300±1600	AA26791	40510	1640	37	AMNH, A144-9451	Brown et al. 1988			16	3+4+4+0+2+1+2
Ester Creek	37,900±2700	AA26789	41610	2550	37	AMNH, A-107-6250	Brown et al. 1988			16	3+4+4+0+2+1+2
Ester Creek	40,300±3600	AA26793	44460	3260	37	AMNH, A144-6567	Brown et al. 1988			16	3+4+4+0+2+1+2
Fairbanks Area	13640 ± 410	I-9422	16510	630	25, 33, 51, 74, 84	Bone collagen				16	3+3+4+0+3+1+2
Fairbanks Creek	12860±140	AA26829	15430	200	37		Brown et al. 1988			18	3+4+4+0+3+3+1
Fairbanks Creek	14620±170	AA26802	17750	130	37		Brown et al. 1988			16	3+4+4+0+3+1+1
Fairbanks Creek	18,910±280	AA26821	22790	310	37	AMNH, Bx278-5635	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	19,470±290	AA26816	23320	310	37	AMNH, A-506	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	19,490±310	AA26865	23350	340	37	AMNH, A-5198	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	19,835±155	AA26863	23700	170	37	AMNH, A-5642	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	19,830±330	AA26841	23810	380	37	AMNH, A-559-4237	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	19,880±300	AA26871	23860	360	37	AMNH, A-559-4330	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	20,020±340	AA26843	23980	390	37	AMNH, A-5638	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	20,050±320	AA26877	24010	370	37	AMNH, A-559-4321	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	20,545±345	AA26866	24430	390	37	AMNH, A-559-4332	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	24,165±505	AA26874	29010	550	37	AMNH, A-506-1353	Brown et al. 1988			17	3+4+4+0+3+1+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Fairbanks Creek	25,150±570	AA26873	30070	610	37	AMNH, A-559-4321	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	26,450±280	AA26859	31250	340	37	AMNH, A-517-1358	Brown et al. 1988			17	3+4+4+0+3+1+2
Fairbanks Creek	35620 +1530/-1900	DIC-3100	39860	1820	33, 51, 84	Bone collagen				15	3+3+4+0+2+1+2
Fish Creek	19,560±300	AA26827	23440	320	37	AMNH, A-1537	Brown et al. 1988			17	3+4+4+0+3+1+2
Fox	12,560±140	AA26810	14970	250	37	AMNH, A6159	Brown et al. 1988			19	3+4+4+0+3+3+2
Fox	16,130±240	AA26837	19330	330	37	AMNH, A-6150	Brown et al. 1988			17	3+4+4+0+3+1+2
Fox	19,580±300	AA26835	23460	320	37	AMNH, A-6152	Brown et al. 1988			17	3+4+4+0+3+1+2
Fox	19,740±300	AA26825	23700	340	37	AMNH, A-7210	Brown et al. 1988			17	3+4+4+0+3+1+2
Fox	19,900±305	AA26870	23870	360	37	AMNH, A-265-6149	Brown et al. 1988			17	3+4+4+0+3+1+2
Fox	20,450±350	AA26872	24340	390	37	AMNH, A-6147	Brown et al. 1988			17	3+4+4+0+3+1+2
Fox	20,560±330	AA26861	24450	380	37	AMNH, A-6156	Brown et al. 1988			17	3+4+4+0+3+1+2
Fox	21,800±370	AA26844	26080	600	37	AMNH, A-7211	Brown et al. 1988			17	3+4+4+0+3+1+2
Fox	35,000±2100	AA26783	39120	2250	37	AMNH, A-107-4483	Brown et al. 1988			17	3+4+4+0+3+1+2
Fox Permafrost Tunnel	11910 ± 180	I-12657	13910	280	41,90	wood		debris fan gravels	plant debris from same gravel unit dated 12570±390	13	1+3+2+1+3+1+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Fox Permafrost Tunnel	12570 ± 390	I-22656	14960	710	41,90	peat		debris fan gravels	Wood debris from same gravel unit dated 11910±180	12	1+3+2+0+3+1+2
Fox Permafrost Tunnel	13470 ± 420	I-2196	16320	620	41,90	mammal bone		debris fan gravels		14	3+3+2+0+3+1+2
Fox Permafrost Tunnel	14280 ± 230	I-2197	17440	240	41,90	mammal bone		debris fan gravels		14	3+3+2+0+3+1+2
Gerstle River	15150 ± 70	Beta-109267	18270	230	95	Radius collagen	AMS, well preserved collagen	upper locus, eroding slope debris		20	3+4+4+1+3+3+2
Goldstream	12,710±170	AA26822	15180	250	37	AMNH, A-216-6846	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	13,250±160	AA26832	16180	390	37	AMNH, Bx1 I19-no9	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	14,120±180	AA26817	17340	210	37	AMNH, A-237-10198	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	16,480±210	AA26806	19770	310	37	AMNH, Bx265-6140	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	18,080±260	AA26838	21810	390	37	AMNH, A-1016	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	19,390±290	AA26801	23230	310	37	AMNH, A-216-6190	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	19,835±155	AA26834	23700	170	37	AMNH, A-237-6189	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	20,010±340	AA26815	23980	390	37	AMNH, II73	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	20,170±320	AA26813	24110	370	37	AMNH, A-1013	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	20,230±320	AA26856	24160	370	37	AMNH, A-1005	Brown et al. 1988			17	3+4+4+0+3+1+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Goldstream	22,300±410	AA26814	26860	670	37	AMNH, I36	Brown et al. 1988			17	3+4+4+0+3+1+2
Goldstream	35,200±2000	AA26798	39290	2180	37	AMNH, A-4038	Brown et al. 1988			16	3+4+4+0+2+1+2
Goldstream	36,400±2300	AA26794	40220	2280	37	AMNH, A-1012	Brown et al. 1988			16	3+4+4+0+2+1+2
Goldstream Horse	28600 +690/-760	DIC-3099	33080	680	33, 51, 84	Bone collagen				16	3+3+4+0+3+1+2
Herschel Island, Pauline Cove	17490±90	Beta 185981	21010	130	162	Metacarpal, YG 155.9				19	3+4+4+0+3+3+2
Herschel Island, Pauline Cove	45800±2500	AAR-11192	49450	2910	162	YG 206.37				16	3+4+4+0+2+1+2
Herschel Island, Pauline Cove	>45130	Beta 189292	>45130		162	Phalanx, YG 12.7				15	3+4+4+0+1+1+2
Herschel Island, Pauline Cove	>47000	AAR-11195	>47000		162	Tibia, YG 206.6				15	3+4+4+0+1+1+2
Herschel Island, Pauline Cove	>53000	AAR-11194	>53000		162	Phalanx, YG 206.36				15	3+4+4+0+1+1+2
Ikpikpuk River	19250 ± 360	I-9371	23090	360	38, 51, 84	Bone collagen		surface		17	3+4+4+0+3+1+2
Ikpikpuk River	20810 ± 410	I-9274	24840	520	38, 51, 84	Bone collagen		surface		16	3+3+4+0+3+1+2
Ikpikpuk River	23920 ± 620	I-9321	28830	640	38, 51, 84	Bone collagen		surface		16	3+3+4+0+3+1+2
Ikpikpuk River	23910 ± 470	I-9318	28850	540	38, 51, 84	Bone collagen		surface		16	3+3+4+0+3+1+2

## Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Ikpikpuk River	32270 ± 1500	I-9275	37090	1900	38, 51, 84	Bone collagen		surface		16	3+3+4+0+3+1+2
Ketza River	26350 ± 280	TO-393	31170	350	65, 84	bison thoracic vertebra, collagen		sand		16	3+4+2+1+3+1+2
Last Chance Creek	26280 ± 210	Beta-67407	31140	310	55, 84	Bone collagen		near the base of organic silt (muck) overlying auriferous gravel and bedrock		18	3+4+4+1+3+1+2
Lillian Creek	22370 +300/-310	DIC-3093	26980	560	33, 35, 51, 84	Bone collagen				16	3+3+4+0+3+1+2
Lillian Creek	23340±388	DIC-3094	28180	470	33, 35, 51, 84	Bone collagen				16	3+3+4+0+3+1+2
Lost Chicken Creek	7110 ± 90	USGS-1256	7930	90	33, 47, 76, 94, 115	<i>Picea</i> twigs		Unit 6, lower forest bed, upper boundary of unit 6		14	1+2+2+1+3+3+2
Lost Chicken Creek	8120 ± 60	USGS-1258	9090	80	33, 47, 76, 94, 115	peat		Unit 6, gray alluvium overlying a prominent ice-wedge horizon		14	1+2+2+1+3+3+2
Lost Chicken Creek	8120 ± 60	USGS-1258	9090	80	33, 47, 76, 94, 115	peat		Unit 6, gray alluvium overlying a prominent ice-wedge horizon		14	1+2+2+1+3+3+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Lost Chicken Creek	8620 ± 375	USGS-372	9670	480	33, 47, 76, 94, 115	<i>Picea</i> twigs		Unit 6, large spruce stem in red gravel, basal unit 6		12	1+2+2+1+3+1+2
Lost Chicken Creek	18640 ± 205	DIC-3096	22350	340	33, 47, 76, 94, 115	Bone collagen				11	3+2+0+0+3+1+2
Lost Chicken Creek	24070 +380/-410	DIC-3098	28960	490	33, 47, 76, 94, 115	Bone collagen				11	3+2+0+0+3+1+2
Lost Chicken Creek	26830 +1230/-1450	DIC-3097	31500	1230	33, 47, 76, 94, 115	Bone collagen				11	3+2+0+0+3+1+2
Lost Chicken Creek	26760±300	SI-355	31540	260	33, 47, 76, 94, 115	Bone collagen		placer deposits		12	3+2+0+1+3+1+2
Lost Chicken Creek	37320 +1780/_2300	DIC-3095	41200	1950	33, 47	Bone collagen				14	3+2+4+0+2+1+2
Lower Rampart Cave 1	13350±120-check this date	Beta-37056	16330	360	15, 24, 66	Bone collagen	AMS			16	3+1+4+0+3+3+2
Manley Hot Springs	18,060±130	AA26858	21730	250	37	AMNH, A-460-4339	Brown et al. 1988			19	3+4+4+0+3+3+2
No Site Name	24070 ± 680	I-9322	28930	670	32, 35, 74	Bone collagen				16	3+3+4+0+3+1+2
Old Crow Loc. CRH-11A	26460±3760	QU-784	30610	3940	5, 44, 48, 64, 81	Equus sp. humerus (11A77-3166)		river bank, point bar	Redeposited	15	3+2+4+0+3+1+2
Old Crow Loc. CRH-11A	28200 ± 500	SI-2824-A	32740	500	5, 44, 48, 64, 81	Equus sp. metacarpal (11A75-5645)		river bank, point bar	Redeposited	15	3+2+4+0+3+1+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Old Crow Loc. CRH-11A	36700±800	SI-2820-B	41640	570	84	tibia (11A75-3742) apatite extraction		river bank, point bar	this date is considered less reliable than SI-280A on the same specimen	12	2+1+4+0+2+1+2
Old Crow Loc. CRH-11A	36700±800	SI-2820	41640	570	5, 44, 48, 64, 81	Equus sp. tibia (11A75-3742)		river bank, point bar	re-deposited; The apatite fraction of this bone yielded a date of 36,700±800 BP. This date considered more reliable than SI-2820-B	14	3+2+4+0+2+1+2
Old Crow Loc. CRH-28	34000±2600	I-4222	38360	2580	44, 84	Metatarsal collagen		surface, river bank		15	3+2+4+0+3+1+2
Pedro Creek	19,940±320	AA26826	23910	380	36, 37	AMNH, A-21-1231	Brown et al. 1988			17	3+4+4+0+3+1+2
Porcupine River Cave 1	13350 ± 120	Beta-37056	16330	360	24, 28, 51, 103	Bone collagen	AMS	Unit D, square N5/E4, 220-230 cm below datum		19	3+3+4+1+3+3+2

Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Porcupine River Cave 1	21780 ± 310	DIC-1334	26040	540	24, 28, 51, 103	Radioulna collagen		Unit C, square N5/E4, 185 cm below datum		18	3+3+4+1+3+1+2
Richardson Highway	25750 +910/-1040	DIC-2125	30550	890	33, 34, 51	Bone collagen		floor of a den		17	3+4+4+0+3+1+2
Scottie Creek	20660 ± 100	Beta-70102	24680	90	84	Equus lambei mandible		placer mine		19	3+4+4+0+3+3+2
Simpson Point, Herschel Island, Pauline Cove	36160 ± 530	Beta-70841	41120	710	84, 162	Phalanx collagen		surface		16	3+4+4+0+2+1+2
Sixtymile Loc. 3	46660 ± 840	TO-2702	49960	1640	50, 75, 125	Equus cf. E. verae metatarsal (NMC-46507)		placer mine		16	3+4+4+0+2+1+2
Swan Point	11950±100	AA-74249	13850	120	156	Molar dentine collagen		Not in a hearth	AMS	23	3+4+4+4+3+3+2
Titaluk River	28700 ± 460	USGS-804	33160	520	51, 84, 115	Equus lambei metacarpal and phalanx		surface colluvium, base of bluff 7.6 m high		17	3+3+4+1+3+1+2
Titaluk River Horse	17190 ± 240	DIC-2418	20670	280	38, 51, 84	Equus sp. Hoof		colluvium at the base of a loess section		18	4+3+4+1+3+1+2



Supplemental Data. Horse Radiocarbon Dates

Horse Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Trail Creek Cave 9	15750±350	K-1210	18980	390	51, 66, 84, 104, 109	Scapula collagen		outside south entrance to Cave 9, with a bison calcaneus		15	3+1+4+1+3+1+2
Upper Cleary Creek	12,482±80	AA26830	14880	150	37	AMNH, Bx46-34	Brown et al. 1988			19	3+4+4+0+3+3+2

## Supplemental Data. Archaeological Radiocarbon Dates

Archaeological Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Annie Lake, YT Avg	6614±42		7510	40	127	charcoal				23	5+4+3+2+3+5+1
Bedwell	10490±70	CAMS-11032	12430	170	42, 128				associated with lanceolate point	22	5+2+3+4+3+3+2
Broken Mammoth III, Avg	9986±43		11460	120	42, 59, 124	charcoal		Middle paleosol, WSU-4263 is from a hearth		26	5+4+3+4+3+5+2
Broken Mammoth IV A, Avg	11047±58		12950	80	42, 59, 124	large mammal bone, wapiti bone		Between paleosols		24	5+4+3+4+3+3+2
Broken Mammoth IV B, Avg	11464±44		13360	70	42, 59, 124	charcoal		Middle/lower paleosol, some are hearth samples		24	5+4+3+4+3+5+2
Broken Mammoth IV C, Avg	11770±152		13660	170	42, 59, 124	charcoal and ivory				22	5+4+3+4+3+1+2
Carlo Creek I, Avg	8770±159		9860	230	129	charcoal and soil humates		Hearths 1 and 2		20	5+2+3+4+3+1+2
Chuck Lake, Level 2	7360±270		8190	260	130, 131	charcoal		Shell midden in a black silty loam		20	5+3+2+4+3+1+2
Chuck Lake, Level 3, Avg	8207±90		9190	130	130, 131	charcoal and shell		shell midden		22	5+3+2+4+3+3+2
Chugwater, Avg	9127±101		10340	120	132	charcoal				22	5+3+2+4+3+3+2
Delta R. Overlook I	8555±380		9590	490	61, 95			sample from just above CZ 1		20	5+3+2+4+3+1+2
Delta R. Overlook II, Avg	6847±132		7720	120	61, 95			above and below CZ 2		22	5+3+2+4+3+3+2
Delta R. Overlook III	3980±150	GX-6752	4460	230	61, 95			paleosol 4, 35 cm below bison bone		22	5+3+2+4+3+3+2
Delta R. Overlook V	2285±145	GX-6750	2340	210	61, 133	hearth				22	5+3+2+4+3+3+2
Dry Creek I	11120±85	SI-2880	13020	110	6, 58, 96	charcoal				24	5+4+3+4+3+3+2
Dry Creek II, Avg	10017±19		11510	90	6, 58, 96	charcoal		paleosols 1 and 2		26	5+4+3+4+3+5+2

Supplemental Data. Archaeological Radiocarbon Dates

Archaeological Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Dry Creek IV, Avg	3749±42		4110	80	6, 58, 96	charcoal				23	5+4+3+2+3+5+1
Gallagher Flint Station, L2	6960±90	Beta-97211	7800	90	25, 42, 134	charcoal				22	5+4+2+3+3+3+2
Gallagher Flint Station, L3	10540±150	SI-974	12420	230	95	charcoal				21	5+4+1+3+3+3+2
Gerstle River, Avg	9358±22		10590	50	135	charcoal		hearth features and paleosol		26	5+4+3+4+3+5+2
Ground Hog 2 Bay, Avg	9350±68		10560	100	20			basal gravel		20	5+4+2+4+3+2
Healy Lake Village L 1, Avg	752±68		710	50	20, 42	charcoal				16	5+4+1+0+3+3+1
Healy Lake Village L2, Avg	2299±30		2300	50	20	charcoal				18	5+4+1+0+3+5+1
Healy Lake Village L3, avg	2602±33		2750	20	20	charcoal and plant remains				18	5+4+1+0+3+5+1
Healy Lake Village L4, Avg	4418±42		5050	130	20	charcoal				19	5+4+1+0+3+5+1
Healy Lake Village L5	5000±60	Beta-76069	5760	90	20	plant remains				15	5+4+1+0+3+1+1
Healy Lake Village L6, Avg	9858±30		11260	30	20	charcoal				18	5+4+1+0+3+5+1
Healy Lake Village L7, Avg	11091±26		13000	50	20	charcoal				18	5+4+1+0+3+5+1
Healy Lake Village L8	11090±170	GX-1341	13010	170	20	bone				15	5+4+1+0+3+1+1
Healy Lake Village L9, Avg	7887±131		8760	180	20	charcoal				17	5+4+1+0+3+3+1
Healy Lake Village, L10, Avg	10093±134		11700	270	20	charcoal				17	5+4+1+0+3+3+1
Hilltop, Avg	8960±55		10080	110	92	charcoal and soil organics				21	5+4+2+2+3+3+2
Hog Island, Avg	8017±60		8880	110	136	charcoal				23	5+4+3+3+3+3+2
Jay Creek Ridge, Avg	9767±58		11190	50	26					19	5+4+2+1+3+3+1
Lime Hills 1	9530±60	Beta-67667	10890	150	2	charcoal			associated with antler projectile point and microblades	22	4+4+3+3+3+3+2
Little John Site	8890±50	Beta 182798	10030	110	161	Bone collagen, Rangifer?		Paleosol, East lobe, 67 cm DBS	AMS	21	3+4+2+2+3+5+2

## Supplemental Data. Archaeological Radiocarbon Dates

Archaeological Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Little John Site	9530±40	Beta 217279	10900	140	161	Bone collagen, <i>Rangifer</i>		Paleosol, East lobe, 70 cm DBS	AMS	21	3+4+2+2+3+5+2
Little John Site	9550±50	Beta 218235	10910	140	161	Bone collagen, <i>Cygnus</i> femur		Paleosol, East Lobe, 54.5 cm DBS	AMS	22	3+4+3+2+3+5+2
Little John Site	10000±60	Beta 241525	11500	150	161	<i>Cervus</i> phalanx collagen		Paleosol, East lobe, 84 cm DBS	AMS	19	3+4+2+2+3+3+2
Mead CZ I	1430±60	WSU-4348	1360	40	42	charcoal				26	5+4+3+4+3+5+2
Mead CZ II, Avg	5585±103		6400	100	42	charcoal		Middle paleosol		21	5+4+3+2+3+3+1
Mead CZ III, Avg	9488±54		10840	170	42			Lower-middle paleosol		23	5+4+3+3+3+3+2
Mead CZ III-IV	10760±170	WSU-4425	12700	190	42	charcoal		Lower-middle paleosol		22	5+4+3+4+3+1+2
Mead CZ IV, Avg	11584±54		13470	80	42	charcoal and collagen		Lower paleosol		24	5+4+3+4+3+3+2
Mesa, Avg	10794±15		12740	20	137	hearth charcoal				25	5+4+3+4+3+5+1
Moose Creek CZ I	11190±60	Beta-96627	13120	80	42	hearth charcoal				22	5+4+3+2+3+3+2
On Your Knees Cave, Avg	9558±31		10920	130	26	collagen and charcoal				24	5+4+3+3+3+5+1
Onion Portage, Akmak	9570±150	K-1583	10900	210	42, 138	redeposited bone				13	2+1+1+1+3+3+2
Onion Portage, Band 8 Avg	7685±43		8480	50	42	charcoal				24	5+3+2+4+3+5+2
Owl Ridge I, Avg	6480±76		7390	70	42	charcoal				20	5+3+2+1+3+5+1
Owl Ridge II, Avg	6611±55		7510	50	42	charcoal and soil organics				18	5+3+2+1+3+3+1
Owl Ridge III, Avg	4213±139		4760	190	42	charcoal				18	5+3+2+1+3+3+1
Owl Ridge, Avg	603±41		610	40	42	charcoal		upper sand		17	1+3+2+1+3+5+2
Panguingue Creek I, Avg	9775±50		11200	40	139	charcoal				21	5+3+2+4+1+5+1
Panguingue Creek II, Avg	7890±100		8760	160	139	charcoal				19	5+3+2+4+1+3+1

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Panguingue Creek III	4510±95	GX-13011	5150	140	96, 139	charcoal				22	5+3+2+4+3+3+2
Phipps	10150±265		11860	460	140	charcoal				18	5+1+2+4+3+1+2
Putu, Avg	9135±54		10320	70	42, 141	hearth and soil organics				20	5+2+2+4+3+3+1
Sparks Point, Avg	9135±59		10340	80	142					18	5+1+2+3+3+3+1
Spein Mountain	10050±90		11600	200	131, 143	charcoal from hearth				21	5+4+3+1+3+3+2
Susitna River Overlook	8160±50	Beta-208284	9130	90	144	soil charcoal				26	5+4+3+4+3+5+2
Swan Point CZ I B, Avg	1543±35		1460	50	60, 61, 62	paleosol and <i>Picea</i> charcoal				26	5+4+3+4+3+5+2
Swan Point CZ II	7400±80	WSU-4426	8220	100	60, 61, 62	charcoal				24	5+4+3+4+3+3+2
Swan Point CZ III, Avg	11183±48		13120	80	60, 61, 62	charcoal				26	5+4+3+4+3+5+2
Swan Point CZ IV A, Avg	11697±63		13600	100	60, 61, 62	charcoal				24	5+4+3+4+3+3+2
Swan Point IV B, Avg	12127±26		14100	110	145	charcoal and mammoth ivory				26	5+4+3+4+3+5+2
Teklanika West I	7130±98	GX-18518	7960	100	42, 146	charcoal				22	5+4+2+3+3+3+2
Teklanika West II, Avg	4663±67		5420	90	42	charcoal				21	5+4+2+3+3+3+1
Tingmiakpuk, Avg	7518±55		8320	70	127	caribou bone				11	3+1+0+0+3+3+1
Trapper Cr. Overlook I	7900±40	Beta-208283	8760	110	144	concentrated soil charcoal		paleosol 2		26	5+4+3+4+3+5+2
Trapper Cr. Overlook II	5129±40	Beta-208282	5860	70	144	concentrated soil charcoal		paleosol 2		26	5+4+3+4+3+5+2
Tuluq Hill, Avg	10538±19		12610	40	147, 148	charcoal		shallow feature		26	5+4+3+4+3+5+2
Ugashik Narrows	8995±295		10120	390	131, 149					20	5+2+3+4+3+1+2
Usibelli	3195±295	GX-13013	3420	370	96	charcoal				17	5+3+2+1+3+1+2
Walker Road I, Avg	11336±44		13210	80	42	charcoal				26	5+4+3+4+3+5+2

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Archaeological Sites	Measured Date	Lab No.	Calibrated Date	Calibrated SD	Source	Material Dated	Pretreatment	Provenience	Notes	Rating	Rating Justification
Whitmore Ridge, Avg	9793±63		11210	50	96, 150	charcoal				17	5+4+2+2+3+3+2