

SUPPLEMENTAL DATA 2 – Individual carbon and oxygen isotope values for middle to late Miocene North American specimens analyzed in this study. Upper and lower case letters denote teeth from the upper and lower dentition.

Taxon	Museum Specimen #	Tooth Position	$\delta^{13}\text{C}$ (VPDB, ‰)	$\delta^{18}\text{O}$ (VSMOW, ‰)
<u>Nebraska (11.8 Ma)</u>				
Rhinocerotidae				
<i>Teleoceras fossiger</i>	UNSM 27802	m3	-9.4	25.9
<i>Teleoceras fossiger</i>	UNSM 27805	M3	-9.5	26.0
<i>Teleoceras fossiger</i>	UNSM 27808	M3	-7.9	25.0
<i>Teleoceras fossiger</i>	UNSM 52228	M3	-9.5	26.7
<i>Teleoceras fossiger</i>	UNSM 52234	m3	-9.7	26.1
<i>Teleoceras fossiger</i>	UNSM 52247	m3	-9.8	26.4
<i>Teleoceras fossiger</i>	UNSM 52272	m3	-10.2	26.6
<i>Teleoceras fossiger</i>	UNSM 52282	m3	-8.0	24.7
Equidae				
<i>Pliohippus</i> sp.	UNSM 27864	M3	-8.6	26.6
<i>Pliohippus</i> sp.	UNSM 27870	m3	-8.9	26.3
<i>Pliohippus</i> sp.	UNSM 27879	m3	-7.5	25.5
<i>Pliohippus</i> sp.	UNSM 100721	M3	-8.0	26.5
<i>Pliohippus</i> sp.	UNSM 117969	M3	-8.6	26.9
<i>Pliohippus</i> sp.	UNSM 100721	M2	-8.8	27.0
<i>Pseudohipparion</i> sp.	UNSM 27800	M3	-9.2	29.2
<i>Pseudohipparion</i> sp.	UNSM 27832	M3	-9.9	25.1
<i>Pseudohipparion</i> sp.	UNSM 27851	M3	-9.6	29.7
<i>Pseudohipparion</i> sp.	UNSM 27878	M3	-7.7	28.7
<i>Cormohipparion</i> sp.	UNSM 117868	M3	-9.5	25.8
<i>Cormohipparion</i> sp.	UNSM 117861	M3	-4.1	21.3
Camelidae				
<i>Procamelus</i> sp.	UNSM 530	M3	-10.7	25.3
<i>Procamelus</i> sp.	UNSM 2656	M3	-9.8	24.7
<i>Procamelus</i> sp.	UNSM 765	M3	-10.2	28.5
<i>Procamelus</i> sp.	UNSM 2119	M3	-9.8	24.7
Moschidae				
<i>Longirostromeryx</i> sp.	UNSM 2028	M3	-7.9	28.4
<i>Longirostromeryx</i> sp.	UNSM 2229	M3	-8.1	24.5
<i>Longirostromeryx</i> sp.	UNSM 1154	M2	-9.0	26.2
<u>California (9.7 to 5.3 Ma)</u>				
Rhinocerotidae				
<i>Teleoceras fossiger</i>	UCMP 34558	M1	-12.2	29.9
<i>Teleoceras fossiger</i>	UCMP 34558	Mx	-12.7	27.0
<i>Teleoceras fossiger</i>	UCMP 34558	Mx	-11.8	26.7
<i>Teleoceras fossiger</i>	UCMP 34558	Mx	-12.4	25.9
<i>Teleoceras fossiger</i>	UCMP 34558	Mx	-13.0	28.3
<i>Teleoceras fossiger</i>	UCMP 34558	Mx	-11.6	25.9
<i>Teleoceras fossiger</i>	UCMP 37573	Mx	-12.6	27.8
<i>Teleoceras fossiger</i>	UCMP 37571	Mx	-10.9	26.3
Equidae				
<i>Pliohippus interpolatus</i>	UCMP 32979	M3	-11.1	25.7
<i>Pliohippus interpolatus</i>	UCMP 34553	M3	-11.7	26.4
<i>Pliohippus interpolatus</i>	UCMP 29293	M3	-12.2	26.2
<i>Pliohippus interpolatus</i>	UCMP 2142	M3	-12.5	27.5
<i>Pliohippus interpolatus</i>	UCMP 2142	M3	-12.0	25.5
<i>Pliohippus</i> sp.	UCMP 34099	M3	-11.6	27.4
<i>Pliohippus</i> sp.	UCMP 33541	Mx	-11.1	25.3
<i>Pliohippus</i> sp.	UCMP 85159	Mx	-11.7	24.4
<i>Pliohippus</i> sp.	UCMP 33530	M1	-12.0	23.6

<i>Pliohippus</i> sp.	UCMP 58216	Mx	-11.5	26.5
Gomphotheriidae				
<i>Gomphotherium productus</i>	UCMP 13126	M3	-12.8	23.5
<i>Gomphotherium productus</i>	UCMP 33580	M3	-12.2	24.3
<i>Gomphotherium productus</i>	UCMP 53531	m3	-12.2	26.8
<i>Gomphotherium productus</i>	UCMP 33781	M2	-12.5	27.0
<i>Gomphotherium productus</i>	UCMP 4426	M3	-11.9	26.4
<i>Gomphotherium productus</i>	UCMP 4426	M3	-12.4	27.0
<i>Gomphotherium productus</i>	UCMP 4426	M3	-11.8	27.0
Camelidae				
<i>Procamelus</i> sp.	UCMP	Mx	-11.2	26.3
<i>Procamelus</i> sp.	UCMP	Mx	-13.2	23.8
<i>Procamelus</i> sp.	UCMP	Mx	-11.8	25.7
<i>Procamelus</i> sp.	UCMP	Mx	-11.4	25.9
<i>Procamelus</i> sp.	UCMP	Mx	-10.2	26.6
<u>Oregon (8.4 to 5.0 Ma)</u>				
Rhinocerotidae				
<i>Teleoceras fossiger</i>	UCMP 113494	Mx	-10.2	20.9
<i>Teleoceras fossiger</i>	UCMP 113499	Molar Frag.	-12.2	19.3
<i>Teleoceras fossiger</i>	UCMP 113503	Molar Frag.	-12.2	19.5
<i>Teleoceras fossiger</i>	UCMP 113498	Molar Frag.	-11.5	18.8
<i>Teleoceras fossiger</i>	UCMP 113497	mx.	-12.7	19.4
Camelidae				
<i>Camelid</i>	UCMP 113535	Molar Frag.	-11.1	21.7