

Appendix 3. Postcranial specimens and measurements

Comparison of Miocene to early Pleistocene-aged *Castor californicus* (Rodentia: Castoridae) to extant beavers and implications for the evolution of *Castor* in North America

Taxon	Specimen Number	Locality	Age	ScaL	ScaW	ScaAL
<i>Castor canadensis</i>	AMNH 154	No Data	Holocene	87.50	41.40	27.96
<i>Castor canadensis</i>	AMNH 155	No Data	Holocene	82.09	39.11	30.01
<i>Castor canadensis</i>	AMNH 156	No Data	Holocene	78.14	40.25	28.82
<i>Castor canadensis</i>	AMNH 157	No Data	Holocene	82.73	43.07	28.00
<i>Castor canadensis</i>	AMNH 158	No Data	Holocene	76.79	36.43	30.51
<i>Castor canadensis</i>	AMNH 159	No Data	Holocene	84.72	40.36	29.27
<i>Castor canadensis</i>	AMNH 160	No Data	Holocene	81.24	45.88	30.98
<i>Castor canadensis</i>	AMNH 161	No Data	Holocene	73.46	38.52	30.07
<i>Castor canadensis</i>	AMNH 162	No Data	Holocene	87.18	45.42	32.17
<i>Castor canadensis</i>	AMNH 163	No Data	Holocene	80.25	36.01	27.29
<i>Castor canadensis</i>	AMNH 164	No Data	Holocene	78.28	36.68	29.85
<i>Castor canadensis</i>	AMNH 165	No Data	Holocene	85.00	36.45	29.24
<i>Castor canadensis</i>	AMNH 166	No Data	Holocene	81.78	42.52	29.71
<i>Castor canadensis</i>	AMNH 167	No Data	Holocene	74.36	39.81	26.88
<i>Castor canadensis</i>	AMNH 168	No Data	Holocene			
<i>Castor canadensis</i>	AMNH 169	No Data	Holocene	69.34	35.97	26.51
<i>Castor canadensis</i>	ETMNHV 387	No Data	Holocene	79.29	41.60	26.77
<i>Castor canadensis</i>	ETMNHV 2223	Navajo County, AZ	Holocene			
<i>Castor canadensis</i>	ETMNHV 10285	Trenton, NE	Holocene	94.19	40.06	27.94
<i>Castor canadensis</i>	ETMNHV 10286	Trenton, NE	Holocene	86.52	41.56	26.89
<i>Castor canadensis</i>	ETMNHV 10480	Trenton, NE	Holocene			
<i>Castor canadensis</i>	ETMNHV 10484	Trenton, NE	Holocene			
<i>Castor canadensis</i>	ETMNHV 11658	No Data	Holocene	89.44	38.32	28.59
<i>Castor canadensis</i>	IMNH 50001	American Falls Reservoir, ID	Rancholabrean			
<i>Castor canadensis</i>	KUVP 86622	Kansas River, Bonner Spring, KS	Pleistocene			
<i>Castor canadensis</i>	KUVP 88316	Kansas River, Bonner Spring, KS	Pleistocene			
<i>Castor canadensis</i>	KUVP 94596	Kansas River, Bonner Spring, KS	Pleistocene			
<i>Castor canadensis</i>	KUVP 104070	Kansas River, Bonner Spring, KS	Pleistocene			
<i>Castor canadensis</i>	KUVP 126129	Kansas River, Bonner Spring, KS	Pleistocene			
<i>Castor canadensis</i>	KUVP 126359	Kansas River, Bonner Spring, KS	Pleistocene			
<i>Castor fiber</i>	AMNH 170	No Data	Holocene			
<i>Castor fiber</i>	UCMP 32922	Cambridge, UK	Pleistocene			

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Taxon	Specimen Number	Locality	Age	ScaL	ScaW	ScaAL
<i>Castor californicus</i>	HAFO 2329	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	HAFO FS05-50	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 4841	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 4853	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 7851	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 7965	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 9928	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 23534	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 32924	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 32925	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 33610	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 33611	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 33629	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 34464	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 34484	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 34484	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 34506	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 34527	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 34594	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 34604	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 34761	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 36280	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 37188	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 38176	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 38178	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor californicus</i>	IMNH 38180	Hagerman Local Fauna, ID	mid Blancan			
<i>Castor sp.</i>	IMNH 12411	Birch Creek, ID	late Blancan			

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Specimen Number	Mph3t	InnomL	IIIL	FeL	FeAPD	FeMLD	FeGT	FeHD	FeEB	TL	TAPD
AMNH 154		177.74	90.06	102.10	12.84	25.65	13.99	17.10	32.88	131.92	16.38
AMNH 155				98.88	11.56	24.17	12.25	16.76	33.04	129.73	15.65
AMNH 156				99.28	11.39	25.74	11.20	17.24	34.56	131.65	15.50
AMNH 157				102.22	12.20	26.05	12.98	17.80	33.64	131.38	16.43
AMNH 158		156.63	79.94	96.73	10.12	24.55	12.12	16.32	32.75	132.14	14.26
AMNH 159				103.97	11.47	25.42	12.72	17.43	33.92	136.75	16.84
AMNH 160				99.91	11.49	26.39	13.04	16.13	32.85	132.92	16.30
AMNH 161				96.22	11.17	25.16	10.44	17.02	33.04	125.74	15.28
AMNH 162				110.81	12.62	27.77	14.12	17.41	35.25	142.91	17.03
AMNH 163				94.52	9.93	23.75	10.27	17.33		133.72	13.42
AMNH 164				96.60	11.24	23.11	12.40	17.29	34.96	135.78	13.89
AMNH 165	14.68	155.66	81.41	95.93	10.54	21.18	12.81	16.10	32.47	130.76	13.45
AMNH 166				92.71	10.70	24.47	11.54	17.09	36.60	128.81	13.99
AMNH 167				93.68	10.63	24.45	11.64	17.61	32.58	120.76	13.46
AMNH 168				96.54	12.14	25.01	15.62	16.69	31.68	132.01	14.12
AMNH 169				89.44	10.90	23.71				119.75	14.12
ETMNHV 387				103.96	13.40	23.65	16.93	17.12	35.69	130.88	14.80
ETMNHV 2223				108.49	12.86	24.85	18.07	19.22	36.15	134.96	11.02
ETMNHV 10285											
ETMNHV 10286											
ETMNHV 10480		175.13	89.12								
ETMNHV 10484		147.94	70.5								
ETMNHV 11658		176.1	81.21	105.66	11.44	26.45	16.25	16.98	36.08	131.90	12.13
IMNH 50001				109.69	13.29	27.94	14.34		37.10		
KUVP 86622				93.56	12.44	23.41	12.84	17.20	30.44		
KUVP 88316				101.94	12.16	24.78	12.91	17.57	36.30		
KUVP 94596				103.42	12.75	24.30	11.70		32.93		
KUVP 104070											
KUVP 126129				97.80	13.34	26.61	12.74	16.99	35.89		
KUVP 126359											
AMNH 170				69.08	8.84	16.30					
UCMP 32922				86.78	12.36	27.26					

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Specimen Number	Mph3t	InnomL	IIIL	FeL	FeAPD	FeMLD	FeGT	FeHD	FeEB	TL	TAPD
HAFO 2329		220.91	110.65	117.267		29.33	19.35	21.40	46.57	156.97	14.28
HAFO FS05-50	15.16			98.70	13.96	23.73	19.36	20.36	40.09	131.08	12.40
IMNH 4841				112.37			11.98	19.47	40.40		
IMNH 4853											
IMNH 7851											
IMNH 7965											
IMNH 9928											
IMNH 23534					13.21	25.27					
IMNH 32924											
IMNH 32925											
IMNH 33610				110.24	15.60	31.05	14.01	21.55	41.74		
IMNH 33611											
IMNH 33629					14.31	27.14					
IMNH 34464											
IMNH 34484				113.48			12.32	18.15			
IMNH 34484					13.76	27.52					
IMNH 34506											13.62
IMNH 34527											
IMNH 34594					13.26	23.13					
IMNH 34604											
IMNH 34761											
IMNH 36280				106.88	15.04	25.28		20.24	39.79	149.19	15.24
IMNH 37188					13.52	26.55					
IMNH 38176											
IMNH 38178											
IMNH 38180							14.71				
IMNH 12411					14.48	25.60					

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Specimen Number	Pph3t
AMNH 154	
AMNH 155	
AMNH 156	
AMNH 157	
AMNH 158	
AMNH 159	
AMNH 160	
AMNH 161	
AMNH 162	
AMNH 163	
AMNH 164	
AMNH 165	17.05
AMNH 166	
AMNH 167	
AMNH 168	
AMNH 169	
ETMNHV 387	
ETMNHV 2223	
ETMNHV 10285	
ETMNHV 10286	
ETMNHV 10480	
ETMNHV 10484	
ETMNHV 11658	
IMNH 50001	
KUVP 86622	
KUVP 88316	
KUVP 94596	
KUVP 104070	
KUVP 126129	
KUVP 126359	
AMNH 170	
UCMP 32922	

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Specimen Number	Pph3t
HAFO 2329	
HAFO FS05-50	19.11
IMNH 4841	
IMNH 4853	
IMNH 7851	
IMNH 7965	
IMNH 9928	
IMNH 23534	
IMNH 32924	
IMNH 32925	
IMNH 33610	
IMNH 33611	
IMNH 33629	
IMNH 34464	
IMNH 34484	
IMNH 34484	
IMNH 34506	
IMNH 34527	
IMNH 34594	
IMNH 34604	
IMNH 34761	
IMNH 36280	18.09
IMNH 37188	
IMNH 38176	
IMNH 38178	
IMNH 38180	
IMNH 12411	