

MERYCODONTINI MEASUREMENTS AND RATIOS (Millimeters)

SPECIES	MERYCODUS cf. cerroensis							M. furcatus		M. near necatus			M. cf. furcatus		M. necatus			M. recusus sabulosus		M. necatus			Mundet.	M. near necatus	P.L.	M. sp.		M. sp.	M(Subcasoryx) cerroensis (Frick)										1937	M. osborni	M. nevadensis	M. alti-dens	M. coronatus	M. warreni	M. loko-cerus	M. hookwayi	M. agilis			
AUTHOR SPECIMEN	C.I.T. Loc. No. 267							Laidy 1865 UC21892	Cope 1877 Merriam 1916 UC21892	Merriam 1919 Ricardo			Furlong 1927 UC26795	Laidy 1864 UC21892	Laidy 1868 UC21892	Cope 1877 UC21892	Matthew Creek AM 1916 UC21892	Frick AM 1927 UC21892	Merriam 1919 Berstow			L.A.Mus. Coll. Berstow	Merriam 1916 UC21892	Matthew 1916 UC21892	Furlong 1927 UC21892	Furlong 1927			Gazin 1930 CIT 65	F.A.M 33105	F.A.M 33106	F.A.M 33115H	F.A.M 33114	F.A.M 33116	F.A.M 33146C	F.A.M 30982	Mathew 1904 ANNH 1892	Merriam 1911 ANNH 1892	Mathew 1938 F.A.M 31020	Frick 1937 NSM 23.6.34	Frick 1937 C.I.T. 1301	Furlong 1934 C.I.T. 1251	Douglas 1899							
PRONG LENGTH	121	95	101	76	70			88	104					93			98										23	95	94	103	105			125	94	83	88	98						35			24			
BEAM LENGTH	70	100	51	70	68			59		87	104	87			110		44										43	32	72	75	76				72	44	81	70			58			60						
PRONG BEAM RATIO	1.7	.95	2.0	1.1	1.0					1.2					.84		2.2										.54	2.9	1.3	1.4	1.4				1.3	1.9	1.1	1.4			.6			.4						
Setback of fronto-parietal suture behind horn-cores	10.4														(23)													16.5																						
WIDTH OUTSIDE OF HORNS	63														73.5													72																						
WIDTH INSIDE OF HORNS	32														59													40																						
Height of mandible in diastema	6.1				7.0	5.2		5.4							8.4			5.6										8				(G-)												(6.5)	6.7					
Height of mandible below P2	10.5				12.0	10.8	8.3	10.5			14.3	12			14.1		12.6	12.0	11.0			14.4			12.5	11.2		15				12.4		12		10.5	11		11		11.2			10	12.8	10.0				
Height of mandible below M3	13.6	16.0	18.5		16.0	16.0		14.2			14.7	17			16.5		14.7	13.5			16.5				15.5	15.5		17				12.4	12.6	(15)		14	(13)		12	15.3				12	17	17.5				
Height of mandible below M3		20.0			20.0			18.0			15	19.3			18.7		18		13.0	20.0						19.0	18.2		17				15	16	18		(18.3	(18)		16	19.0				14	19.2	20.0			
POSTSYMPHYSEAL DIASTEMA	36							(25)							(32)		(23)	18.5	17.0								30						30		28.5	28.5	27.5		26								27			
P2-M3 total length	51.4							56.5							54		55		47.6	49.5						49	50		51.4				52	47	50	46	46	44.8		(43.7)	48.5			48.5	NSM 30.9.34 50.8	44.8	56.8	48		
MT-M3 total length	36.0	32.5		32.5				36.0							35		36		29.0	32.0	36.5					31	32.5		34				35.3	35	34	31	32	28	31	28.8	31.0	25.3		30.0	33.0	27	34.8	29		
P2-P3 total length	15.4					16.8		20.0							19		19		17.6	17.5					18	17.5		17.4				17.0	12	14.4	15	13.3	13.3		(13)	16.3			18.7	17.8	17.8	22	19			
MT-M3 RATIO	2.3							1.8							1.8		1.9		1.6	1.8					1.7	1.8		1.9				2.1	2.9	2.4	2.1	2.4	2.1		(2.2)	1.9			1.6	1.8	1.5	1.6	1.5			
M3 antero-posterior RATIO diastema	.48							(68)							(54)		(61)		70	.82								.55						.52	.48	.50	.48	.45		.63			.68			.41				
P2 ANTERO-POSTERIOR	3.6					3.5	()			UC22466 5.5				4.5		4.1	4.4								4.2			5.5				4.0	2.4	4.0	3.9	3.3	3.6		5.0			5.4	5.2	4.8	6.0	(4.4)				
P2 TRANSVERSE	1.6					1.4	()			M. sp. 1.9							1.2	2.5							2.2							1.6	1.5						1.6			2.5		2.3	2.6					
P3 ANTERO-POSTERIOR	5.3				5.5			6.8	6.1	7.5				5		6.2	6.7	6.3		7					6.0	6.6		5.9				6.4	4.2	5.0	5.2	4.6	4.8		4.2	5.5		6.8	6.0	6.0	6.9	5.2				
P3 TRANSVERSE	2.4				2.2	2.0		2.7	3.0								2.0	3.5	3.0		3.2					3.2	3.0					2.6	2.7						2.4			3.3		2.6	3.2					
P2 ANTERO-POSTERIOR	6.4	6.0			6.0			8.3	6.5		UC22480 6.7			7.5	8	6.3	6.9	6.3	7.3	7.5	7	7.4			6.1	6.7		6.6				6.6	5.8	6.2	6.5	5.8	6.0	6.2	5.2	6.3		7.0	6.7	6.9	8.9					
P4 TRANSVERSE	3.0	2.6			3.0			3.3			3						2.9	3.3	3.7	4.4	4.0	4.4			3.9	3.4					C.I.T. 60	3.2	3.8					3.0			3.6		3.2	3.9						
MT ANTERO-POSTERIOR	8.9	7.0	8.0	7.2	7.0	8.7	8.9	8.5			8.7			9	8	8.2	8.4	8.2	7.5	9.0	7.9	10.8			7.5	7.6	UC22360 10.8	May be M2	7.6			8.0	7.0	8.0		7.7	6.6		7.8	7.0	6.8		7.9		7.4		8.0			
MT TRANSVERSE	5.3	4.5	4.0	4.0	4.8	4.5	3.9	4.3			4.4						4.2	4.7	4.8	5.2	6.5	6.1			5.0	5.0	3.8				4.9	4.9						5.3	3.8		4.7		4.8							
M2 ANTERO-POSTERIOR	11.4	9.7	12.0	9.7	12.0	10.6	11.5	10.5	10.3		UC22300 10.9	11.4	12.0	9.8		11.0	11	11	9.0	10.4	11.3				9.6	10.0		8.8				10.8	10.0	10.0		9.7	9.0		8.4	8.4	7.6		8.7		8.3	11.0	10.0			
M2 TRANSVERSE	5.9	4.6	4.8	4.7	5.6	4.1	(3)	4.5			4.3	5.6	5.4				5.2	4.9	5.0	4.8	6.6			UC22505 UC21490 14.9	17.3	14.5	14.5				6.0	6.4							5.9	()		5.3		4.8	5.4					
M3 ANTERO-POSTERIOR	17.3	15.4		15				17.0	11.5	16.0		12.2	14.5	17.3			14		13.0	14.0	15			UC22301 UC22451 14.9	17.3	14.5	14.5				16.6			16.5	18.4	15.5	13.0	14.2	13.8	12.5	13.4	16.3	11.5	22	12.7	14.4	11.8	14.0	11.0	
M3 TRANSVERSE	4.7	3.8		4.5				3.8		5.4		4.9	4.7				4.5		4.4	4.3	5.2			4.7	5.7	4.5	4.5					5.2	5.5						4.7	3.7		5.0		4.0	50					
Dm2 ANTERO-POSTERIOR					9.6	8.0					UC22453 9.6																																				9.4			
Dm2 TRANSVERSE					4	3.9					3.7																																							
No. of transverse crests on P2	3	3			3			5	4		?			4?	5		5	3	3	5																											4		5	5
P2-M2 total length	42.8																																																	
P2 ANTERO-POSTERIOR	4.6			4.5											6.3																																			
P2 TRANSVERSE	2.5			2.8											4.1																																			
P2 ANTERO-POSTERIOR	5.2			5.9											6.3																																			
P3 TRANSVERSE	3.0			3.8											4.2																																			
P2 ANTERO-POSTERIOR	5.9			6.5											6.3			6.5																																
P4 TRANSVERSE	3.7			4.4											4.2			5.0																																
ML ANTERO-POSTERIOR	8.2	7.8	8.9	8.9	9.3	7.0					UC22452 8.2				8.9			8.1																																
ML TRANSVERSE	5.8	5.7	6.0	4.9	5.8	5.8					4.8				5.7			8.4																																
M2 ANTERO-POSTERIOR	11.0	9.5		9.4	11.5	9.5					9.5	11.2			11.4			10.5																																
M2 TRANSVERSE	6.3	5.7		4.0	6.4	5.3					4.0	8.0			6.0			8.0																																
M3 ANTERO-POSTERIOR	9.5	11.0													11.1																																			
M3 TRANSVERSE	5.0	5.5													5.5																																			

FIGURES IN PARENTHESES () ARE APPROXIMATE