

Eramoscorpius brucensis gen. et sp. nov. Measurements taken using a hand held digital micrometer. All measurements in mm.

		Average	59322	58777 Left	58777 Right	60063 Left	60063 Right	58931 Left	58931 Right	50048 Left	50048 Right	53247 Left	53247 Right	49275 Left	49275 Right	56751 Left	56751 Right	61159 Left	61159 Right	53248 Left	53248 Right	58778 Left	58778 Right
			Partial abdomen. Probable early instar	Dorsal		Ventral partial internal mould		Dorsal?		Ventral Truncated		Ventral truncated		Dorsal, truncated						Dorsal		Ventral	
Discovery			Excavated	Freshly split rock in quarry		Patio flagstone		Freshly split rock in quarry		Building stone, freshly split		Quarry spoil heap		Building stone, freshly split		Freshly split rock in quarry				Freshly split rock in quarry		Patio flagstone	
Locality			Owen Sound Ledgerrock quarry, Wiarton, within Biota 3 of the Lower Interbedded Unit (von Bitter et al. 2007)	Limberlost Quarry, Bruce Peninsula		Unknown (Bruce Peninsula)		Bruce Peninsula Stone Quarry, Wiarton		Unknown (probably Amsen Quarry, Wiarton)		Spoil heap, Wiarton		Unknown (probably Amsen Quarry, Wiarton)		Lindsay Quarry, near Tobermorey		Wiarton Ledgerrock (?)		Amsen Quarry, Mar		Unknown (Bruce Peninsula)	
Total length:		123.20	[26.5]	63.00				115.00		X		X		X		130.00		X		143.00		165.00	
Carapace/Prosoma:	Length	X		8.92	7.58	15.57		14.05	14.05	15.00	15.00	23.07	23.07	18.90	19.10	19.80	19.80	21.05	21.05	21.34	21.34	26.14	26.14
Carapace:	Maximum width	X		8.83				11.64		14.20		20.00	(really can't tell)	18.30	17.60	19.60		14		18.10		22.99	
	Carapace L:W Ratio	1.14		1.01				1.21		1.06		1.15		1.03	1.09	1.01		1.50		1.18		1.14	
	Carapace L:Total L	0.14		0.14				0.12								0.15				0.15		0.16	
Chelicera	Maximum height	X		2.04				2.62	X	7.40				3.36	3.36	X							
Chela:	Length	X		2.19				5.41	X	2.30				8.30	8.30								
Chela:	Length of movable finger	X		1.5?				3.08	X					3.5?	?								
Pedipalp	Coxa length	X							X	5.70	5.70	9.22		X									
	Coxa width	X							X	5.50	6.10	8.55		X									
	Trochanter length	X		3.80	3.60					11.50	11.60	9.06	7.80	8.06	6.30	7.90	7.44	6.04			6.74	7.07	
	Trochanter width	X								4.8+	4.80	7.40	7.30	4.50	6.03	7.30					7.35	7.08	
	Femur length	X		6.21	5.60					11.20	6.97	14.41	13.80	13.00	12.30	6.16	12.63	9.63			13.56	13.92	
	Femur width	X		2.40	3.00					3.90		6.50	6+	4.20	4.30	6.78							
	Patella length	X		4.33	4.80					7.90		9.13	9.23	7+	9.00	13.44	6.70	8.92			9.95	9.84	
	Patella width	X		3.40	3.60					5.80		6.60	6.00	6.65	5.47	6.80		6.32					
Pedipalp	Pedipalp L femur:patella	1.41		1.43	1.17					1.42		1.58			1.37		1.89	1.08			1.36	1.41	
	Tibia length	X		16.31	15.86			23.09	21.19	28.13		35.18	35.80	30.30	29.60	27.80	29.60	>23			29.54	29.47	
	Manus length	X						8.77	6.99	11.77		14.00	14.60	12.80	12.15	13.90	12.80	13			12.57	13.01	
	Tibia max width	X		4.79	4.26			5.17	4.86	10.39		9.23		7.70		9.50	9.42	9.82			8.60	8.34	

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Pedipalp	Tibia max width:total length	0.29		0.29	0.27			0.22	0.23	0.37		0.26		0.25		0.34	0.32			0.29	0.28		
Pedipalp	Free finger	X		10.35	9.47			16.03	15.40	16.24	18.07	22.60	24.80	19.25	17.00	21.36	20.65	>9		21.82	19.96		
Pedipalp	free finger:tibia	0.67		0.63	0.60			0.69	0.73	0.58		0.64	0.69	0.64	0.57	0.77	0.70			0.74	0.68		
Pedipalp	Free finger:manus	1.64						1.83	2.20	1.38		1.61	1.70	1.50	1.40	1.54	1.61			1.74	1.53		
Pedipalp:	Total length (inc troch)	X		34.98	34.66			X	X	66.63		76.91	75.86	51.36	66.20	68.74	63.07	33.51		69.74	70.14		
Pedipalp:	Tibia L:total pedipalp L	0.46		0.47	0.46					0.42		0.46	0.47	0.59	0.45	0.40	0.47			0.42	0.42		
Pedipalp:	Tibia:carapace	1.60		1.83	2.09			1.64	1.51	1.88		1.52	1.55	1.60	1.55	1.40	1.49			1.38	1.38		
Sternum	length					11.06				10.94		14.80						14.59					
Sternum	max width					4.87				4.70		7.18						5.83					
Sternum	L:W	2.29				2.27				2.33		2.06						2.50					
Sternum:ca	rapace L	0.69				0.71				0.73		0.64						0.69					
Leg I:	Total length	X		10.30				X	X	X	X	30+	33+			0.71				X	28.20		
	Coxa length					4.89																	
	Coxa width					4.40																	
	Trochanter																						
	Femur		x	x						x	x	x	x	X	X	x	x	5.75		x	x	X	5.80
	patella		x	x						x	x	x	x	X	x	x	x	3.55		x	x	X	4.60
	tibia		x	x						x	x	x	x	X	x	x	x	4.4		x	x	x	5.20
Leg I:	Tibia:patella	0.85																0.81					0.88
	basitarsus		x	x						x	4.30	4.40	x	X	x	x	x	4.19		x	x	x	3.70
	tarsus		x	x						x	3.60	3.30	x	X	x	x	x	3.89		x	x	x	3.40
Leg I:	Basiarsus:tarsus	1.20									1.19	1.33						1.08					
	posttarsus		x	x						x		X	2 claws?	2 claws?	X	x	x			x	x	x	claw
Leg II:	Total length	X		15.60	17.00			X	X	31.20	X	37+	32+			39+				30.4+	34.4+		
	Coxa length					5.29												6.05					
	Coxa width					3.75												5.86					
	trochanter		x	x														6.57		x	x	x	x
	femur			3.20	9.00					2.50	4.00	x	x			x	x	6.57		x	x	x	9.00
	patella			2.70	6.30					6.30	6.9	x	x		7.90	8.90	x	6.67		x	x	9.00	8.50
	tibia		x	x						5.00	4.50	x	x		5.70	5.30	x	6.20		7.26	6.44	5.10	5.40
										5.80	5.70	x	x		5.20	6.30	x	7.52		6.96	7.52	6.90	5.40
Leg II:	Tibia:patella	0.89								0.86	0.79				1.10	0.84		1.04	0.86	0.74			0.93
	basitarsus		x	x						3.30	3.30	x	x		4.50	3.60	x			x	x	x	4.10
	tarsus		x	x						2.90	3.10	x	2 claws		3.50	2.90	x			x	x	x	3.60
Leg II:	Basiarsus:tarsus	1.17								1.14	1.06				1.29	1.24							1.14
	posttarsus		x	x							(claw)	2 claws	x	claw	claw	x	x			x	x	x	x
Leg III:	Total length	X		20.30	20.10			X	X	38.67	x	47.00	48.00			41+	40.50			43.5+	43+		
	Coxa length					5.20	5.80											8.01					
	Coxa width					3.50	4.20																
	trochanter		x	x						6.90	x	x	x	x	x	x	x			x	x	x	
	femur		x	x						8.30	x	x	x		13.20	x	7.9?			8.79	10.30	x	9.70
	patella			3.30	3.30					6.60	x	x	x		6.60	6.90	5.90	6.20	6.02	7.30	7.20	x	9.00

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	tibia			3.80	3.20					7.80	x	x	x	7.50	x	7.20	7.60		9.16	8.20	8.20	10.20	9.50	
Leg III:	Tibia:patella	0.86		0.87	1.03					0.85				0.88		0.82	0.82		0.66	0.89	0.88		0.95	
	basitarsus			2.00	x					3.50	x	x	x	4.80	x	4.20	4.70		6.5	x		5.10	x	4.30
	tarsus			1.70	x					2.90	x	x	x	4.30	x	3?				x		4.60	x	x
Leg III:	Basitarsus:tarsus	1.18		1.18						1.21				1.12			1.27				1.11			
	posttarsus			claws	x					2 claws	x	x	2 claws	2 claws	x	x	2 claws			x	x	x	x	
Leg IV:	Total length	X		23.40	22.00	38.10		X	X	44.60	43.50	52.00	57.00			56.00				64.58	50.84			
	Coxa length					6.90																		
	Coxa width					4.20																		
	trochanter			x	x	4.80				6.60	5.90	x	x			x	x			x	x	x	x	
	femur			5.70	5.70	8.60				10.40	10.5 9.1	x	x	16.80	16.50	12?	10.60		6.37	x	12?	x		
	patella			4.00	3.60	6.90				8.50	7.50	8.80	10.6?	8.00	8.00	7.30	7.90		6.45	8.90	7.30	x		
	tibia			5.00	4.40	5.76				9.50	9.50	11.40	x	9.50	2.88	8.90	9.00			11.00	8.90	x		
Leg IV:	Tibia:patella	1.02		0.80	0.82	1.20				0.89	0.79	0.77		0.84	2.78	0.82	0.88			0.81	0.82			
	basitarsus			2.90	2.40	3.60				4.60	4.70	6.00	x	5.00	5.50	5.50	4.30			x		5.50	x	
	tarsus			2.20	1.60	3.60				3.70	3.90	4.90	x	4.40	4.30	4.20	4.10			x		4.20	x	
Leg IV:	Basitarsus:tarsus	1.23		1.32	1.50	1.00				1.24	1.21	1.22		1.14	1.28	1.31	1.05					1.31		
	posttarsus			claws	x	claws				claw	2 claws	2 claws?	x	CLAW	claw	claw	claw			x	claws	x		
Mesosoma:	Total length (tergites)	X		18.50	18.50	38.00		44.13		44.20	44.20	44.20		61.39		46.00			48.83	48.83	47.00		48.94	
	Leg IV:Mesosoma	1.12		1.26	1.19	1.00				1.01	0.98	1.18				1.22								
Mesosoma:	Tergite I length	X						5.19		5.85 (ab plates)		7.50							8.28	5.68	6.00		6.92	
Mesosoma:	Tergite II length	X				6.00		6.78		7.00		7.60							7.46	5.72	5.50			
Mesosoma:	Tergite III length		2.25			6.00		6.02		7.00		7.95				5?			7.02	6.86	5.90		7.14	
Mesosoma:	Tergite IV length		2.25			6.00		6.05		7.00		8.60				5?			7.84	7.16	6.05		8.35	
Mesosoma:	Tergite V length		2.25			6.00		6.81		7.00		8.08				5.90			8.24	7.97	5.24		9.30	
Mesosoma:	Tergite VI length		2.25			6.06		7.46		7.20		8.29				7.90			7.5	6.38			9.10	
Mesosoma:	Tergite VII length		2.40	5.42		8.52		9.84		9.87		9.47		10.70		10.00			12.05	12.70			13.57	
Mesosoma:	Tergite maximum width		6.03	9.90		18.00		16.50		19.53		25.23		25.00		24.00			23.68	22.04			26.78	
Mesosoma:	Length:Max width	2.11		1.87		2.11		2.67		2.26		1.75		2.46		1.92			2.06	2.13			1.83	
Prosoma plus mesosoma				27.33		50.00		55.77		58.40		64.20		79.69		65.60			62.83	65.10			71.93	
Metasoma I:	Maximum width		2.12	4.80				8.00	8.00	11.25				10.10		10.48					11.60		12.83	
Metasoma I:	Length		2.50	6.50				10+	10.00	X				10.50		11.70					14.18		13.75 ?telescoped	
Metasoma II:	Maximum width									X				X		10.48 (all)					11.68 (all)			
Metasoma II:	Length		2.50	6.50				10+		X				X		11.40					14.02		15.90	

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Metasoma III:	Maximum width									X				X									
Metasoma III:	Length		2.50	6.50				10+		X				X		13.00				14.23		15.86	
Metasoma IV:	Maximum width									X				X									
Metasoma IV:	Length		2.50	6.50				10+		X				X		13.00				13.90		15.83	
Metasoma V:	Maximum width									X				X									12.83
Metasoma V:	Length		2.5?	6.70				10.00		X				X		13.00				14.18		16.08	
Metasoma	Tergite L:W	1.21	1.18	1.35				1.25	1.25							1.12				1.22		1.07	
Metasoma:	total length	1.43		1.62				1.16								1.35						1.57	
Telson:	Maximum height		X	3.43				X		X				X		6.90						8.53	
Telson:	Total length		X	6.24				X		X				X		14.20				8.11 (12.35)		11.38 (14.76?)	
Metasoma:	Total length		12.19	30.00				51.00								62.30				69.16		77.04	77.04
Total length:	Prosoma + mesosoma + metasoma		X													127.80							165.00
Mesosoma width: metasoma width		2.21	2.84	2.06				2.06								2.29				1.90		2.09	
metasoma/total length		0.47		0.48				0.44								0.48				0.48		0.47	