

Supp. file 5. Body mass estimates of *Ronzotherium* Aymard, 1854 in kg, estimated from the equations for Rhinocerotidae Owen, 1845 of Fortelius & Kappelman (1993: appendix 1) based on cranial, dental, humeral, radial, femoral and tibial measurements, as well as equations for astragalar measurements (Li1, Ar1 and Ar3) of Tsubamoto (2014).

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Species	Specimen	WZYG				Bodymass (kg)
		y	a	x	b	
<i>R. heissigi</i>	MNHN.F.LIM181	3.065531	2.68	307	-3.6	1162.869142

Species	Specimen	TRLU				Bodymass (kg)
		y	a	x	b	
<i>R. velaunum</i>	2004-6-1765-RON	3.087204	2.41	229	-2.6	1222.372335
<i>R. filholi</i>	Type MNHN Quercy	3.033277	2.41	217.5	-2.6	1079.634663
<i>R. filholi</i>	1967-1 (villebramar)	3.054711	2.41	222	-2.6	1134.254911
<i>R. kochi</i> (= <i>R. filholi</i>)	Cluj	2.811686	2.41	176	-2.6	648.1649304
<i>R. elongatum</i>	Type FSL Pernes	3.099472	2.41	231.7	-2.6	1257.395036
<i>R. romani</i>	BSPG-1952-II-227	3.195649	2.41	254	-2.6	1569.095067
<i>R. romani</i>	FSL 8547 (Marseille)	3.209567	2.41	257.4	-2.6	1620.192389
<i>R. romani</i>	FSL 8547 (Marseille)	3.140227	2.41	240.9	-2.6	1381.10497
<i>R. romani</i>	POILLAT	3.119294	2.41	236.13	-2.6	1316.116436
<i>R. romani</i>	NMB UM3832 (Rickenbach)	3.072011	2.41	225.7	-2.6	1180.350688
<i>R. romani</i>	Lamothe-Capdeville (Roman 1912)	3.179035	2.41	250	-2.6	1510.203321
<i>R. heissigi</i>	MNHN.F.LIM181	3.114274	2.41	235	-2.6	1300.988771

Species	Specimen	M2L				Bodymass (kg)
		y	a	x	b	
<i>R. sp</i>	Pechelbronn	3.092107	3.78	50	-3.33	1236.250888
<i>R. sp.</i>	MNHN-1877-5 (Mouillac)	3.159647	3.78	52.1	-3.33	1444.264027
<i>R. velaunum</i>	MNHN-OBP-34 (Lagny-Thorigny)	3.405035	3.78	60.5	-3.33	2541.179342
<i>R. filholi</i>	Type MNHN Quercy	3.125581	3.78	51.03	-3.33	1335.305532
<i>R. filholi</i>	1967-1 (villebramar)	3.187763	3.78	53	-3.33	1540.858602
<i>R. filholi</i>	1969-46 (villebramar)	2.99053	3.78	47	-3.33	978.4303215
<i>R. filholi</i>	1970-49 (villebramar)	3.092107	3.78	50	-3.33	1236.250888
<i>R. filholi</i>	1973-34 (villebramar)	3.092107	3.78	50	-3.33	1236.250888
<i>R. filholi</i>	NMB VBR.62 (villebramar)	3.156493	3.78	52	-3.33	1433.813413
<i>R. filholi</i>	FSL (villebramar)	3.007902	3.78	47.5	-3.33	1018.361201
<i>R. filholi</i>	1969-86 (villebramar)	3.307207	3.78	57	-3.33	2028.649202
<i>R. filholi</i>	1971-91 (villebramar)	3.363821	3.78	59	-3.33	2311.109932

<i>R. filholi</i>	MNHN.F.QU17184	3.124615	3.78	51	-3.33	1332.340611
<i>R. filholi</i>	MNHN.F.QU7245	2.900801	3.78	44.5	-3.33	795.7943319
<i>R. filholi</i>	SMNS (Quercy)					
<i>R. kochi</i> (= <i>R. filholi</i>)	Cluj	2.766323	3.78	41	-3.33	583.8791652
<i>R. elongatum</i>	Type FSL Pernes	3.275217	3.78	55.9	-3.33	1884.588922
<i>R. elongatum</i>	NMB KB25 (Kleinblauen)	3.187763	3.78	53	-3.33	1540.858602
<i>R. elongatum</i>	NMB KB27 (Kleinblauen)	3.278151	3.78	56	-3.33	1897.364375
<i>R. romani</i>	FSL 8547 (Marseille)	3.335758	3.78	58	-3.33	2166.495622
<i>R. romani</i>	POILLAT	3.031918	3.78	48.2	-3.33	1076.261499
<i>R. romani</i>	BSPG-1952-II-201	3.292743	3.78	56.5	-3.33	1962.199374
<i>R. romani</i>	BSPG-1973-VII-46	3.369376	3.78	59.2	-3.33	2340.863292
<i>R. romani</i>	MNHN-F-OBP-60 (Ferté alais)	3.175326	3.78	52.6	-3.33	1497.359605
<i>R. romani</i>	NMB UM1 (Rüfi)	3.391412	3.78	60	-3.33	2462.701225
<i>R. romani</i>	SMNS (Rickenbach)	3.218448	3.78	54	-3.33	1653.668341
<i>R. romani</i>	NMB Ri27 (Rickenbach)	3.150166	3.78	51.8	-3.33	1413.079161
<i>R. romani</i>	NMO l12 / 24	3.169072	3.78	52.4	-3.33	1475.952105
<i>R. romani</i>	Gannat	3.471507	3.78	63	-3.33	2961.469587
<i>R. heissigi</i>	NMBE-5035823 (Bumbach)	3.307207	3.78	57	-3.33	2028.649202
<i>R. heissigi</i>	MNHN.F.LIM181	3.203177	3.78	53.5	-3.33	1596.530781
<i>R. heissigi</i>	MNHN-LIM291 (Auvergne)	3.108441	3.78	50.5	-3.33	1283.634584

Species	Specimen	M3L				Bodymass (kg)	AVERAGE -CRANIAL	AVERAGE /species
		y	a	x	b			
<i>R. sp</i>	Pechelbronn	2.862609	3.5	46.7	-2.98	728.8012049	983	
<i>R. sp.</i>	NMB-Bx54 (st martin de briatexte)	2.935686	3.5	49	-2.98	862.3553858	862	
<i>R. sp.</i>	NMB-Bx11 (st martin de briatexte)	3.08619	3.5	54.1	-2.98	1219.524214	1220	
<i>R. sp.</i>	MNHN-1877-5 (Mouillac)						1444	1127
<i>R. velaunum</i>	2004-6-1765-RON					1120.001821	1222	
<i>R. velaunum</i>	Haag 2	3.049219	3.5	52.8	-2.98		1120	
<i>R. velaunum</i>	MNHN-OBP-34 (Lagny-Thorigny)						2541	1628
<i>R. filholi</i>	Type MNHN Quercy	2.990523	3.5	50.8	-2.98	978.4147539	1131	
<i>R. filholi</i>	1967-1 (villebramar)						1338	
<i>R. filholi</i>	1969-46 (villebramar)						978	
<i>R. filholi</i>	1970-49 (villebramar)						1236	
<i>R. filholi</i>	1973-34 (villebramar)						1236	
<i>R. filholi</i>	NMB VBR.62 (villebramar)						1434	
<i>R. filholi</i>	FSL (villebramar)						1018	
<i>R. filholi</i>	1969-86 (villebramar)						2029	
<i>R. filholi</i>	1971-91 (villebramar)						2311	
<i>R. filholi</i>	MNHN.F.QU17184						1332	

<i>R. filholi</i>	MNHN.F.QU7245					938.5620	796	
<i>R. filholi</i>	SMNS (Quercy)	2.972463	3.5	50.2	-2.98	935	939	
<i>R. kochi</i> (= <i>R. filholi</i>)	Cluj						616	1261
<i>R. elongatum</i>	Type FSL Pernes	3.15217	3.5	56.5	-2.98	1419.611	1521	
<i>R. elongatum</i>	NMB KB25 (Kleinblauen)	3.433781	3.5	68	-2.98	2715.071	2128	
<i>R. elongatum</i>	NMB KB27 (Kleinblauen)	3.34163	3.5	64	-2.98	2195.987	2047	
<i>R. elongatum</i>	NMB KB8 (Kleinblauen)	3.30558	3.5	62.5	-2.98	2021.063	2021	1929
<i>R. romani</i>	BSPG-1952-II-227					974	1569	
<i>R. romani</i>	FSL 8547 (Marseille)	3.317692	3.5	63	-2.98	2078.221	1955	
<i>R. romani</i>	FSL 8547 (Marseille)					929	1381	
<i>R. romani</i>	POILLAT	3.127762	3.5	55.6	-2.98	1342.028	1245	
<i>R. romani</i>	BSPG-1952-II-201					598	1962	
<i>R. romani</i>	BSPG-1973-VII-46						2341	
<i>R. romani</i>	MNHN-F-OBP-60 (Ferté alais)						1497	
<i>R. romani</i>	MNHN-F-OBP-62 (Ferté alais)	3.173541	3.5	57.3	-2.98	1491.218	1491	
<i>R. romani</i>	NMB UM1 (Rüfi)					136	2463	
<i>R. romani</i>	SMNS (Rickenbach)	3.105732	3.5	54.8	-2.98	1275.651	1465	
<i>R. romani</i>	NMB Ri27 (Rickenbach)					238	1413	
<i>R. romani</i>	NMB UM3832 (Rickenbach)						1180	
<i>R. romani</i>	NMO I12 / 24						1476	
<i>R. romani</i>	FSL 8828 (Marseille)	3.329708	3.5	63.5	-2.98	2136.525	2137	
<i>R. romani</i>	NMB MAR 844 (Marseille)	3.477843	3.5	70	-2.98	293	3005	
<i>R. romani</i>	FSL 520590 (Marseille)	3.30558	3.5	62.5	-2.98	3004.990	2021	
<i>R. romani</i>	Aubenas	3.293371	3.5	62	-2.98	754	1965	
<i>R. romani</i>	Gannat					2021.063	2961	
<i>R. romani</i>	Lamothe-Capdeville (Roman 1912)					974	1510	1844
<i>R. heissigi</i>	NMBE-5035823 (Bumbach)					1965.037	2029	
<i>R. heissigi</i>	MNHN.F.LIM181	3.060691	3.5	53.2	-2.98	819	1303	
<i>R. heissigi</i>	MNHN-LIM291 (Auvergne)						1284	1538

Species	Specimen	H2				Bodymass (kg)	
		y	a	x	b		
<i>R. filholi</i>	1969-1 (villebramar)		3.1209823	2.65	395	-3.76	1321.241795

<i>R. filholi</i>	1970-25 (villebramar)	3.11806499	2.65	394	-3.76	1312.396271
<i>R. filholi</i>	1970-225 (villebramar)	3.18059733	2.65	416	-3.76	1515.644424
<i>R. filholi</i>	1971-97 (villebramar)	3.08547675	2.65	383	-3.76	1217.521814
<i>R. filholi</i>	1973-115 (villebramar)	3.10632121	2.65	390	-3.76	1277.383225
<i>R. filholi</i>	1974-52 (villebramar)	3.05810975	2.65	374	-3.76	1143.167176
<i>R. filholi</i>	1974-87 (villebramar)	3.18336055	2.65	417	-3.76	1525.318528

Species	Specimen	H5				Bodymass (kg)
		y	a	x	b	
<i>R. sp.</i>	BSPG-2008-I-44 (Espenhain)					
<i>R. velaunum</i>	2004-6-262-RON	3.09235292	2.09	97	-1.06	1236.952221
<i>R. filholi</i>	1969-1 (villebramar)	3.1814121	2.09	107	-1.06	1518.490556
<i>R. filholi</i>	1969-35 (villebramar)	3.20651071	2.09	110	-1.06	1608.83206
<i>R. filholi</i>	1970-25 (villebramar)	3.1016625	2.09	98	-1.06	1263.753869
<i>R. filholi</i>	1970-225 (villebramar)	3.27789315	2.09	119	-1.06	1896.239327
<i>R. filholi</i>	1970-226 (villebramar)	3.29302142	2.09	121	-1.06	1963.457133
<i>R. filholi</i>	1973-28 (villebramar)	3.27789315	2.09	119	-1.06	1896.239327
<i>R. filholi</i>	1973-105 (villebramar)	3.1468298	2.09	103	-1.06	1402.264048
<i>R. filholi</i>	1973-115 (villebramar)	3.13797436	2.09	102	-1.06	1373.960853
<i>R. filholi</i>	1973-144 (villebramar)	3.26250845	2.09	117	-1.06	1830.241721
<i>R. filholi</i>	1974-52 (villebramar)	3.05412936	2.09	93	-1.06	1132.737719
<i>R. heissigi</i>	NMB UM132 (Bumbach)	3.12903167	2.09	101	-1.06	1345.958505

Species	Specimen	R4				Bodymass (kg)
		y	a	x	b	
<i>R. sp.</i>	BSPG-2008-I-44 (Espenhain)	2.78187817	2.09	68.9	-1.06	605.1710912
<i>R. filholi</i>	1970-27 (villebramar)	3.00396878	2.09	88	-1.06	1009.180348
<i>R. filholi</i>	1970-56 (villebramar)	3.01422511	2.09	89	-1.06	1033.29687
<i>R. filholi</i>	1970-200 (villebramar)	2.98310176	2.09	86	-1.06	961.837628
<i>R. filholi</i>	1970-228 (villebramar)	2.7962549	2.09	70	-1.06	625.5397377
<i>R. filholi</i>	1971-38 (villebramar)	2.95087321	2.09	83	-1.06	893.0447322
<i>R. filholi</i>	1972-34 (villebramar)	2.97248555	2.09	85	-1.06	938.6108166
<i>R. romani</i>	BSPG (Gaimersheim)	3.09328819	2.09	97.1	-1.06	1239.618904

Species	Specimen	R3				Bodymass (kg)
		y	a	x	b	
<i>R. sp.</i>	BSPG-2008-I-44 (Espenhain)	2.8095631	2.17	45.1	-0.78	645.0050217
<i>R. filholi</i>	1969-17 (villebramar)	2.90676491	2.17	50	-0.78	806.7981792
<i>R. filholi</i>	1970-200 (villebramar)	2.82818449	2.17	46	-0.78	673.2626075
<i>R. filholi</i>	1970-228 (villebramar)	2.86829349	2.17	48	-0.78	738.4030555
<i>R. filholi</i>	1971-38 (villebramar)	2.86829349	2.17	48	-0.78	738.4030555
<i>R. filholi</i>	1972-34 (villebramar)	2.82818449	2.17	46	-0.78	673.2626075
<i>R. romani</i>	BSPG (Gaimersheim)	3.07858821	2.17	60	-0.78	1198.362508

<i>R. heissigi</i>	NMB UM132 (Bumbach)	3.08640916	2.17	-0.78	1220.13859
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Species	Specimen	R5				Bodymass (kg)	AVERAGE Forelimb	AVERAGE/species
		y	a	x	b			
<i>R. sp.</i>	BSPG-2008-I-44 (Espenhain)	2.95912081	2.14	79.7	1.11	910.1664186	720	720
<i>R. velaunum</i>	2004-6-262- RON						1237	1237
<i>R. filholi</i>	1969-1 (villebramar)						1420	
<i>R. filholi</i>	1969-35 (villebramar)						1609	
<i>R. filholi</i>	1970-25 (villebramar)						1288	
<i>R. filholi</i>	1970-225 (villebramar)						1706	
<i>R. filholi</i>	1970-226 (villebramar)						1963	
<i>R. filholi</i>	1971-97 (villebramar)						1218	
<i>R. filholi</i>	1973-28 (villebramar)						1896	
<i>R. filholi</i>	1973-105 (villebramar)						1402	
<i>R. filholi</i>	1973-115 (villebramar)						1326	
<i>R. filholi</i>	1973-144 (villebramar)						1830	
<i>R. filholi</i>	1974-52 (villebramar)						1138	
<i>R. filholi</i>	1974-87 (villebramar)						1525	
<i>R. filholi</i>	1969-17 (villebramar)	2.9026311	2.14	75	1.11	799.1551521	803	
<i>R. filholi</i>	1970-27 (villebramar)						1009	
<i>R. filholi</i>	1970-56 (villebramar)						1033	
<i>R. filholi</i>	1970-200 (villebramar)	3.02982669	2.14	86	1.11	1071.091778	902	
<i>R. filholi</i>	1970-228 (villebramar)						682	
<i>R. filholi</i>	1971-38 (villebramar)						816	
<i>R. filholi</i>	1972-34 (villebramar)						806	1283
<i>R. romani</i>	BSPG (Gaimersheim)	3.22415455	2.14	106	1.11	1675.539041	1371	1371
<i>R. heissigi</i>	NMB UM132 (Bumbach)						1283	1283

Species	Specimen	F5				Bodymass (kg)	
		y	a	x	b		
<i>R. velaunum</i>	2004-6-266-RON		2.85	2.08	100	-1.31	707.9457844
<i>R. velaunum</i>	2004-6-267-RON		2.7648061	2.08	91	-1.31	581.8433781
<i>R. filholi</i>	1970-100 (villebramar)		3.05157283	2.08	125	-1.31	1126.089288
<i>R. filholi</i>	1972-23 (villebramar)		2.99182659	2.08	117	-1.31	981.3560234
<i>R. filholi</i>	1973-112 (villebramar)		3.02962845	2.08	122	-1.31	1070.60298
<i>R. filholi</i>	1974-66 (villebramar)		3.00713768	2.08	119	-1.31	1016.570914
<i>R. filholi</i>	1974-179 (villebramar)		3.06591174	2.08	127	-1.31	1163.889471
<i>R.romani</i>	NMB Mar 828		3.00333417	2.08	118.5	-1.31	1007.706753

Species	Specimen	T2				Bodymass (kg)	
		y	a	x	b		
<i>R. velaunum</i>	2004-6-261-RON		2.78389425	2.95	93.5	-3.03	607.9869423
<i>R. velaunum</i>	2004-6-260-RON		2.73927886	2.95	90.3	-3.03	548.6291303
<i>R. filholi</i>	1969-49 (villebramar)		3.03786931	2.95	114	-3.03	1091.111948
<i>R. filholi</i>	1969-56 (villebramar)		2.9446523	2.95	106	-3.03	880.3437849
<i>R. filholi</i>	1969-77 (villebramar)		3.00370279	2.95	111	-3.03	1008.562433
<i>R. filholi</i>	1970-158 (villebramar)		2.87	2.95	100	-3.03	741.3102413
<i>R. filholi</i>	1971-36 (villebramar)		2.96860008	2.95	108	-3.03	930.2508568
<i>R. filholi</i>	1972-22 (villebramar)		3.06015107	2.95	116	-3.03	1148.553073
<i>R. filholi</i>	1973-163 (villebramar)		2.99210842	2.95	110	-3.03	981.9930661
<i>R. filholi</i>	1973-221 (villebramar)		3.11421684	2.95	121	-3.03	1300.818912

Species	Specimen	T4				Bodymass (kg)	
		y	a	x	b		
<i>R. filholi</i>	1969-49 (villebramar)		2.98632148	1.57	81	-0.01	968.994874
<i>R. filholi</i>	1969-56 (villebramar)		3.05054231	1.57	89	-0.01	1123.420412
<i>R. filholi</i>	1969-77 (villebramar)		3.00295261	1.57	83	-0.01	1006.821787
<i>R. filholi</i>	1970-158 (villebramar)		2.99468775	1.57	82	-0.01	987.842594
<i>R. filholi</i>	1971-36 (villebramar)		2.96927453	1.57	79	-0.01	931.6966487
<i>R. filholi</i>	1972-22 (villebramar)		3.07314689	1.57	92	-0.01	1183.441757
<i>R. filholi</i>	1973-221 (villebramar)		3.05816074	1.57	90	-0.01	1143.301412

Species	Specimen	T5			Bodymass (kg)	AVERAGE	AVERAGE/species
		y	a	x			
<i>R. velaunum</i>	2004-6-266-RON					708	
<i>R. velaunum</i>	2004-6-267-RON					582	
<i>R. velaunum</i>	2004-6-261-RON					608	
<i>R. velaunum</i>	2004-6-260-RON					549	612

<i>R. filholi</i>	1970-100 (villebramar)									1126	
<i>R. filholi</i>	1972-23 (villebramar)									981	
<i>R. filholi</i>	1973-112 (villebramar)									1071	
<i>R. filholi</i>	1974-66 (villebramar)									1017	
<i>R. filholi</i>	1974-179 (villebramar)									1164	
<i>R. filholi</i>	1969-49 (villebramar)									1030	
<i>R. filholi</i>	1969-56 (villebramar)									1002	
<i>R. filholi</i>	1969-77 (villebramar)									1008	
<i>R. filholi</i>	1970-158 (villebramar)	3.0245030	2.2	6	-						
<i>R. filholi</i>	1971-36 (villebramar)	5	7	3	1.06	1058.04234				929	
<i>R. filholi</i>	1972-22 (villebramar)		2.2	6	-					931	
<i>R. filholi</i>	1973-163 (villebramar)	3.0851898	7	7	1.06	1216.717633				1183	
<i>R. filholi</i>	1973-221 (villebramar)	2.9258359	2.2	5	-					982	
<i>R. filholi</i>	(villebramar)	2	7	7	1.06	843.0162038				1096	1040
<i>R. romani</i>	NMB Mar 828									1008	1008

Species	Specimen	Li1				Li1 (mm)	Bodymass (kg)
		log e li1 (x)	log e BM (y)	a	b		
<i>R. indet</i>	MNHN.LIM.7 (bournoncles)	4.21803603		2.78	2.07		
<i>R.</i>		5	13.8421025	9	8	67.9	1 027
<i>velaunum</i>	2006-6-1770-RON		13.9190732	2.78	2.07		
		4.24563401	5	9	8	69.8	1 109
<i>R. filholi</i>	BSPG (Möhren 7)	4.12066187	13.5705259	2.78	2.07		
		1	6	9	8	61.6	783
<i>R. romani</i>	BSPG (Gaimersheim)	4.29592393	14.0593318	2.78	2.07		
		6	6	9	8	73.4	1 276

Species	Specimen	Ar1 = Li1 x Li2					Bodymass (kg)
		log e li1 (x)	log e BM (y)	a	b	Ar1	
<i>R. indet</i>	MNHN.LIM.7 (bournoncles)	8.33707320		1.41	1.83	4175.8	
<i>R.</i>		9	13.6006103	1	7	5	807
<i>velaunum</i>	2006-6-1770-RON	8.26740787	13.5023125	1.41	1.83	3894.8	
		9	2	1	7	4	731
<i>R. filholi</i>	BSPG (Möhren 7)	8.06998066	13.2237427	1.41	1.83	3197.0	
		1	1	1	7	4	553
<i>R. romani</i>	BSPG (Gaimersheim)	8.27373468	13.5112396	1.41	1.83	3919.5	
		2	4	1	7	6	738

Species	Specimen	Ar3 = Li1 x Li9					Bodymass (kg)
		log e li1 (x)	log e BM (y)	a	b	Ar3	
	MNHN.LIM.7	8.07665826	13.2672449	1.39	1.96	3218.4	
<i>R. indet</i>	(bournoncles)	3	1	9	8	6	578
<i>R.</i>		7.80668009	12.8895454	1.39	1.96	2456.9	
<i>velaunum</i>	2006-6-1770-RON	2	5	9	8	6	396
<i>R. filholi</i>	BSPG (Möhren 7)						
		8.28119740	13.5533951	1.39	1.96	3948.9	
<i>R. romani</i>	BSPG (Gaimersheim)	3	7	9	8	2	769