

Table 2 Comparative growth data for great apes.

Species or subspecies	Population	Sex	Birth weight (kg)	Body mass (kg)	Brain mass (g), or cranial capacity [cm ³]	Peak weight velocity (approx. kg/yr)	Stature (crown-heel, cm)	Age at peak velocity (approx. yrs)	Age at growth cessation (approx. yrs)	Sexual dimorphism in mass	References
Orangutans											
<i>Pongo spp.</i>	Captive	Male	2.0 N = 27	124 N = 42	351.7 g* N = 6	10	150.8 (148.6-153.0) N = 2	13.5	Indeterminate	2.04-2.22	Fooden and Izor 1983; Leigh 1996; Leigh and Shea 1995; Marino 1998; Smith and Leigh 1998
		Female	1.7 N = 28	61 N = 41			116.6 (106.0-130.8) N = 5				
<i>P. abelii</i>	Wild (various)	Male		79* SD = 10 N = 2	[401.1 cm ³] N = 80		138.0* SD = 28.3 N = 2		2.09		Fooden and Izor 1983; Taylor et al 2007
		Female		38* SD = 6 N = 3	[349.5 cm ³] N = 113		115.8* SD = 31.8 N = 2				
<i>P. pygmaeus</i>	Wild (various)	Male		78* SD = 12 N = 6	[409.8 cm ³] SD = 28.6 N = 20		132.5* SD = 57.2 N = 13		2.04		Fooden and Izor 1983; Taylor et al. 2007
		Female		38* SD = 5 N = 7	[360.7 cm ³] SD = 34.6 N = 16		114.6* SD = 55.6 N = 8				
Gorillas											
<i>Gorilla gorilla</i>	Captive	Male	2.3 N = 56	169	480.3 g* N = 4	19		8-9	18-20	2.00-2.10	Leigh and Shea 1996; Marino 1998; Schaller 1963; Smith and Leigh 1998
		Female	2.0 N = 55	80				12	5-6		
<i>Gorilla gorilla</i>	Wild (various)	Male		168* (145-191) N = 11			167.0 (138.0-176.0) N = 25		2.67		Groves in Williamson and Butynski 2013b; Jungers and Susman 1984
		Female		63* (58-72) N = 3							
<i>G. beringei graueri</i>	Wild (Kahuzi-Biega)	Male		159* 150-209 N = 4			182.0* (169.0-196.0) N = 6		2.09		Coolidge 1936; Groves and Stott 1979; Groves in Williamson and

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<i>G. b. beringei</i>	Wild (Virungas)	Female		76* 73-80 N = 2							Butynski 2013a; Schaller 1963
		Male		152* 120-191 N = 7	498 g SD = 31.6 N = 8		170.4* SD = 13.4 N = 8-9	8-10	18-20	1.76-1.81	Galbany et al. 2017; Groves in Williamson and Butynski 2013a; Groves and Stott 1979; Sarmiento et al. 1996
		Female		84* (70-98) N = 2	460 g SD = 35.1 N = 13			Indistinct	14-16		
Chimpanzees											
<i>Pan troglodytes</i>	Free-ranging, provisioned ^c (Ngamba/Tchimpounga)	Male		52 (39-66) 33							Cole et al. 2020
		Female		46 (31-67) 31							
<i>Pan troglodytes verus</i>	Captive	Male	1.9 N = 45	56 SD = 5 N = 10	397.9 g SD = 24.0 N = 16	8-9	144.0 SD = 41.5 N = 10	8-10	12-15	1.20-1.27	Gavan 1953, 1971; Hamada and Udono 2002; Herndon et al. 1999; Leigh and Shea 1996; Smith and Leigh 1998
		Female	1.8 N = 56	47 SD = 7 N = 22	368.1 g SD = 37.3 N = 17	4	138.2 SD = 42.6 N = 22	Indistinct	12-15		
	Wild	Male		47 (46-49) N = 3	[400.1 cm ³] SD = 22.1 N = 10					1.13	Morbeck and Zihlman 1989; Smith and Jungers 1997
		Female		42 N = 3	[376.4 cm ³] SD = 28.3 N = 19						
<i>P. t. schweinfurthii</i>	Wild (Gombe)	Male		39 SE = 1 N = 31					12-18	1.25	Pusey et al. 2005
		Female		31 SE = 1 N = 26					12-15		
	Wild (Mahale)	Male		42 (34-50) N = 6						1.19	Uehara and Nishida 1987

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<i>P. t. troglodytes</i>	Wild (various)	Female		35 (30-46) N = 8								
		Male		60* ^b N = 5			120.4* SD = 6.4 N = 10			1.30	Emery Thompson and Wrangham 2013; Wood in Jungers and Susman 1984	
		Female		46* ^b N = 4			116.6* SD = 4.6 N = 16					
Bonobos												
<i>Pan paniscus</i>	Captive	Male	1.4 N = 7	47	[~320 cm ³]	7		6	14-15	1.38	Durrleman et al. 2012; Leigh and Shea 1996; Smith and Leigh 1998	
		Female	1.5 N = 7	34		4		5-7	12-15			
	Free-ranging, provisioned ^c (Lola ya Bonobo)	Male		37.7 (31-52) N = 15				120.9 (112-132) N = 15			1.14	Yapuncich et al. 2020
		Female		33.0 (25-38) N = 6				116.8 (108-123) N = 6				
	Wild (various)	Male		45* (37-61) N = 7				119.0* (112.3-124.0) N = 4			1.38	Coolidge and Shea 1982; Jungers and Susman 1984; Reinartz et al. 2013
		Female		33* (27-38) N = 6				112* (101.0-118.0) N = 4				

When data available from more than one source, we list results from a single dataset, either the largest sample, or that with the best details on sample variance and provenance. Alternative sources are also listed, along with a range of sexual dimorphism estimates. *Derived from carcasses. ^aSources do not distinguish males and females or report them as equal. ^b Sources assumed to be *P. t. troglodytes* but may include *P. t. verus*. ^cSanctuary animals are usually wild-born, free-ranging, and provisioned.