

Table 4 Reproductive parameters of wild and captive great apes.

Species or subspecies	Population	Age of first reproduction, females (yrs)	Age of first reproduction, males (yrs)	Interbirth interval ^b (yrs)	Gestation length (days)	Postpartum amenorrhea (yrs)	Waiting time to conception (mos)	References
Orangutans								
<i>Pongo abelii</i>	Captive	16.4* CI (15.3-17.4) N = 101/183	19.4* CI (17.9-20.9) N = 67/214	4.8* (1.0-17.0) N = 122/27	240 ^c (223-261) N = 19			Anderson et al. 2008 ^d ; Markham 1990
	Ketambe	13.7 (13.3-14.1) N = 2		7.7 (5.6-14.0) N = 14				van Noordwijk et al. 2018
	Suaq Balimbing	14.8 (13.7-15.7) N = 3		7.5 (6.3-9.3) N = 8		~5-6		van Noordwijk & van Schaik 2005; van Noordwijk et al. 2018
<i>P. pygmaeus</i>	Captive	15.5* CI (14.4-16.6) N = 88/158	17.8* CI (16.2-19.4) N = 60/191	6.3* (1.0-12.0) N = 108/27	240 ^c (223-261) N = 19			Anderson et al. 2008 ^d ; Markham 1990
	Free-ranging, provisioned (Sepilok)	11.6 (8-15) N = 13		6.1 N = 2				Kuze et al. 2008
	Danum Valley			7.0 N = 1				van Noordwijk et al. 2018
	Gunung Palung	15.1 (14.4-16.4) N = 3		7.6 (6.8-8.3) N = 10		4.6 (3.0-6.3) N = 3	1.7 (<1-2.4) N = 2	Knott et al. 2009; van Noordwijk et al. 2018
	Kinabatangan	15.5 N = 1		7.4 (6.5-8.0) N = 4				Ancrenaz in Wich et al. 2009; van Noordwijk et al. 2018
	Kutai			6.1 (5.0-8.0) N = 8				Suzuki in Wich et al. 2009
	Sebangau	13.3 (12.7-13.8) N = 2		6.8 (5.5-7.8) N = 4				van Noordwijk et al. 2018
	Tanjung Puting	15.7 (15-16) N = 3		7.7* (5.2-10.4) N = 12/11			~1-6	Galdikas 1981; Galdikas & Wood 1990; Knott et al. 2009; Tilson et al. 1993

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	Tuanan	14.1 (13.3-15.0) N = 2		7.0 (5.9-8.3) N = 12				van Noordwijk et al. 2018
Gorillas								
	Captive	9.3 (7.5-10.4) N = 8	~6	4.2 (2.3-6.4) N = 16	255 (237-289)	2.7 (1.5-5.2) N = 13	2.0 (<1-8) N = 9	Ardito 1976; Beck 1982; Bellem et al. 1995; Dixson and Martin 1981; Mace et al. 1990; Sievert et al. 1991
<i>Gorilla gorilla</i>	Mbeli Bai			5.6 (4.3-7.6) N = 42				Manguette et al. 2019
	Wild – Various	~11.5	~18 ^a	5.1 N = 6				Robbins et al. 2004
<i>G. beringei beringei</i>	Virungas	10.2 (9.0-13.0) N = 18	15.2 ^a (14-17) N = 9	4.0 (2-3-7.3) N = 88		3.0 (2.2-3.9) N = 8	<1-4	Robbins et al. 2006; Harcourt et al. 1980; Stewart 1988; Wright et al. 2020
<i>G. b. graueri</i>	Kahuzi-Biega	10.6 (9.1-12.1) N = 6		4.6 (3.4-6.6) N = 9				Yamagiwa & Kahekwa 2012
Chimpanzees								
	Captive	10.3 (7.3-13.9) N = 16		4.8 (1.7-14.0) N = 54	230 (202-261) N = 56			De Lathouwers and van Elsacker 2005; Littleton 2005; Martin et al. 1978; Courtenay and Santow 1989; Shimizu et al. 2003; Yerkes 1943
<i>P. troglodytes</i>	Free-ranging, provisioned rehabilitants (Gambia)	14.3 (12.6-17.6) N = 6		5.7 (1.8-9.3) N = 35				Brewer-Marsden et al. 2006
	Budongo			5.2* (4.8-7.0) N = 13/17			4.8 (<1-13) N = 8	Emery Thompson 2005; Emery Thompson et al. 2007
<i>P. t. schweinfurthii</i>	Gombe	14.9* (11.-1-22.1) N = 24/5		5.6* (3.3-8.1) N = 74/41	225 (208-235) N = 28	3.9 (2.4-5.7) N = 12	4.7 (<1-13) N = 12	Emery Thompson et al. 2007; Wallis 1997; Walker et al. 2018
	Kanyawara			5.1* (2.2-8.2) N = 36/24	227 (204-260) N = 15	3.4 (0.5-8.1) N = 20	12.6 (<1-40) N = 12	Emery Thompson and Wrangham 2008; Emery Thompson et al. 2017, 2020; Wrangham in Knott 2001
	Ngogo			5.5 (SD=1.2)				Ngogo Chimpanzee Project, unpublished data

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				N = 75				
<i>P. t. verus</i>	Mahale	14.3 (≤12.0-≥23.0) N = 34		6.0* (3.7-11.0) N = 116/58		4.6 (2.8-6.2) N = 38	8.9 (1.4-32.4) N = 18	Emery Thompson et al. 2007; Nakamura et al. 2015; Nishida 1990; Nishida et al. 2003
	Bossou	10.6 (9.5-13.0) N = 6		5.3* (1.9-10.7) N = 21/10				Sugiyama et al. 2004; Emery Thompson et al. 2007; Sugiyama and Fujita 2011
	Tai	14.5 (11.4-18.6) N = 16		5.0 (~4-10) N = 75		2.0 (0.2-5.0) N = 43	39.1 (10-72) N = 28	Boesch and Boesch-Achermann 2000; Deschner and Boesch 2007; Wittig and Boesch 2019

Bonobos								
<i>P. paniscus</i>	Captive	10.6 (8-15) N = 11		4.8 (1.9-6.6) N = 19	246	1.3-2.7 N = 3		De Lathouwers and van Elsacker 2005; Harvey 1997; Marvan et al. 2006; Thompson-Handler 1990
	Wild	14.2 (13-15) N = 6		4.8 (1-9) N = 28		~1	38	Furuichi 1998; Furuichi and Hashimoto 2002; Kano 1992; Kuroda 1989

Data provided are means, followed by measures of variance and sample size, if available. Where multiple published datasets are available, we report combined raw data, if possible, or report the largest sample. Captive data restricted to captive-born animals where possible. * data from Kaplan-Meier survival analysis, including censored intervals. N = completed/censored. Range provided for completed events or 95% confidence interval (CI). ^aHigh rates of sterility unassociated with age are observed in captive male and female gorillas. ^bBased on age of first attainment of silverback status. ^cIncludes only intervals in which the first infant survived to a threshold defined by the source (e.g., weaning, 4 yrs, mother's pregnancy). Intervals after infant death are significantly shorter. ^dNot distinguished for *P. pygmaeus* and *P. abelii*. ^eIncludes only captive-born individuals with known non-hybrid species origin.