

APPENDIX 1.

Primate-flower interaction database used in this study.

BM: body mass

Flowers/Nectar: overall = percentage in total diet; max = highest percentage in seasonal or monthly diet; + = flowers or nectar consumed but quantitative information not available

Diet: EXU, exudativores; FOL, folivores; FRU-FAU, frugivores-faunivores; FRU-FOL, frugivores-folivores (for definitions see Methods)

Region: AFR, Africa; AME, America; ASI, Asia; MAD, Madagascar

Note: This appendix lists all primate taxa for which consumption of flowers and/or nectar has been reported. It does not list all studies in which consumption of flowers and/or nectar has been reported. A more comprehensive table can be obtained from the author upon request.

Family or subfamily	Species	BM [g]	Flowers		Nectar		Diet	Region	Reference	Notes
			overall	max	overall	max				
Galagonidae	<i>Otolemur crasicaudatus</i>	1110			+		EXU	AFR	Frost & Frost 1981	
	<i>Otolemur garnettii</i>	734			+		FRU-FAU	AFR	Coe & Isaac 1965	
	<i>Sciurocheirus gabonensis</i>	260			+		FRU-FAU	AFR	Nekaris & Bearder 2007	
Loridae	<i>Nycticebus bengalensis</i>	600			6	41	EXU	ASI	Swapna <i>et al.</i> 2010	BM inferred from Groves 2001
	<i>Nycticebus coucang</i>	626			32		FRU-FAU	ASI	Wiens <i>et al.</i> 2006	
	<i>Perodicticus potto</i>	836			+		FRU-FAU	AFR	Grünmeier 1990	
	<i>Cheirogaleus crossleyi</i>	362			+		FOL	MAD	Petter <i>et al.</i> 1977 in Gould & Sauther 2007	BM as for <i>Ch. major</i>
	<i>Cheirogaleus major</i>	362			11		FOL	MAD	Wright & Martin 1995	
	<i>Cheirogaleus medius</i>	282	+				FOL	MAD	Hladik <i>et al.</i> 1980	
Cheirogaleidae	<i>Microcebus berthae</i>	30	+				FRU-FAU	MAD	Dammhahn & Kappeler 2009	
	<i>Microcebus murinus</i>	63	+		+		FRU-FAU	MAD	Martin 1973; Dammhahn & Kappeler 2008	
	<i>Mirza coquereli</i>	326	+				FRU-FAU	MAD	Petter 1978, Pagès 1980	
	<i>Phaner furcifer</i>	460	+		+		EXU	MAD	Petter 1978, Sussman & Raven 1978	

Lemuridae	<i>Eulemur coronatus</i>	1620	14	23			FRU-FOL	MAD	Freed 1996
	<i>Eulemur fulvus</i>	2250		37			FRU-FOL	MAD	Johnson & Overdorff 2002
	<i>Eulemur macaco</i>	2510		+	13		FRU-FAU	MAD	Colquhoun 1993, Andrews & Birkinshaw 1998
	<i>Eulemur mongoz</i>	1610			67		FRU-FOL	MAD	Sussman & Tattersall 1976
	<i>Eulemur rubriventer</i>	1940			<5	19	FRU-FOL	MAD	Overdorff 1992
	<i>Lemur catta</i>	2210	4-8				FRU-FOL	MAD	Sussman 1977
	<i>Varecia variegata</i>	3510	22	3			FRU-FOL	MAD	Moreland 1991 in Sussman 1999, Britt 2000
	<i>Lepilemur edwardsi</i>	934	5				FOL	MAD	Thalmann 2001
	<i>Lepilemur leucopus</i>	594	+				FOL	MAD	Hladik & Charles-Dominique 1974
	<i>Indri indri</i>	6840	5	19			FOL	MAD	Britt <i>et al.</i> 2002
Indridae	<i>Propithecus diadema</i>	6260	16	42			FOL	MAD	Powzyk 1997, Powzyk & Mowry 2003,
	<i>Propithecus tattersalli</i>	3590	13				FRU-FOL	MAD	Meyers & Wright 1993
	<i>Propithecus verreauxi</i>	4280	8	30			FRU-FOL	MAD	Richard 1978
	<i>Daubentonia madagascariensis</i>	2490			20		FRU-FAU	MAD	Sterling <i>et al.</i> 1994
Callitrichidae	<i>Callitrix flaviceps</i>	406			7		EXU	AME	Ferrari & Sritter 1992
	<i>Callitrix jacchus</i>	324		+			EXU	AME	Mendes Pontes & Soares 2005
	<i>Callitrix kuhli</i>	375	+	+			EXU	AME	Rylands 1982
	<i>Callitrix penicillata</i>	307		+			EXU	AME	Lopes Vilela & Faria 2002, Miranda & Faria 2001
Daubentoniidae	<i>Leontopithecus caissara</i>	572	1				FRU-FAU	AME	Prado 1999 in Kierulff <i>et al.</i> 2002
	<i>Leontopithecus chrysomelas</i>	535			<1		FRU-FAU	AME	Rylands 1982
	<i>Leontopithecus chrysopygus</i>	575			<1	12	FRU-FAU	AME	Passos 1999, Passos & Kim 1999
									male BM

<i>Leontopithecus rosalia</i>	598			0-43				FRU-FAU	AME	Dietz et al. 1997	seasonal calculated from Fig. 4.1.2/3
<i>Mico argentatus</i>	360			4	19			EXU	AME	Veracini 1996	
<i>Mico cf. emiliae</i>	330							EXU	AME	Lopes & Ferrari 1994	
<i>Mico humeralifer</i>	380	1						EXU	AME	Rylands 1982	
<i>Saguinus bicolor</i>	430		10					FRU-FAU	AME	Egler 1986, 1992	
<i>Saguinus fuscicollis</i>	358			7	82			FRU-FAU	AME	Porter 2001	
<i>Saguinus imperator</i>	475				52			FRU-FAU	AME	Terborgh 1983	
<i>Saguinus labiatus</i>	529			15	44			FRU-FAU	AME	Porter 2001	
<i>Saguinus leucopus</i>	490	1						FRU-FAU	AME	Poveda & Sánchez Palomino 2004	
<i>Saguinus midas</i>	575	8			7			FRU-FAU	AME	Mittermeier & van Roosmalen 1981, Simmen et al. 2001	Simmen et al. state flowers, but actually nectar is consumed (F. Bayart, pers. comm.)
<i>Saguinus mystax</i>	539			6	31			FRU-FAU	AME	Garber 1988, 1993	
<i>Saguinus niger</i>	575			22				FRU-FAU	AME	Veracini 2000	BM as for <i>S. midas</i>
<i>Saguinus nigricollis</i>	484		+					FRU-FAU	AME	Vargas Tovar 1994	
<i>Saguinus oedipus</i>	404			+				FRU-FAU	AME	A. Savage, pers. comm. to Kostrub 1997	
<i>Saguinus tripartitus</i>	358	+		1				FRU-FAU	AME	Heymann 2000, Kostrub 2003	BM as for <i>S. fuscicollis</i>
<i>Cebus albifrons</i>	2290	9		+				FRU-FAU	AME	Janson et al. 1981, Mittermeier & Fleagle 1983	
<i>Cebus apella</i>	2520	11	17	+				FRU-FAU	AME	Janson et al. 1981, Galetti & Pedroni 1994	
<i>Cebus capucinus</i>	2540	+	15	+				FRU-FAU	AME	Freese 1977, Oppenheimer 1977	

Cebidae

Aotidae	<i>Cebus olivaceus</i>	2520	+					FRU-FAU	AME	Robinson 1986	
	<i>Saimiri boliviensis</i>	711	+				+	FRU-FAU	AME	Janson <i>et al.</i> 1981	
	<i>Saimiri oerstedii</i>	680	+				+	FRU-FAU	AME	Happel 1983, 1986	
	<i>Saimiri sciureus</i>	662	7				+	FRU-FAU	AME	Mittermeier & Fleagle 1981, Lima & Ferrari 2003	
Aotidae	<i>Aotus azarai</i>	1230					+	FRU-FAU	AME	Janson <i>et al.</i> 1981	
	<i>Aotus lemurinus</i>	874					+	FRU-FAU	AME	Marín Gómez 2008	
Pitheciidae	<i>Cacajao calvus</i>	2880	4	15	6			FRU-FAU	AME	Ayres 1989, Bowler 2007	seasonal estimated from Fig. 5.3 in Bowler 2007
	<i>Cacajao melanocephalus</i>	2710	5					FRU-FAU	AME	Boublil 1999	
	<i>Callicebus brunneus</i>	805					4	FRU-FOL	AME	Wright 1989	estimated from Fig. 3
	<i>Callicebus cupreus</i>	1120					2	FRU-FOL	AME	Nadjażadeh & Heymann 2008	
	<i>Callicebus discolor</i>	1120	6					FRU-FOL	AME	Carrillo-Bilbao <i>et al.</i> 2005	BM as for <i>C. cupreus</i>
	<i>Callicebus lugens</i>	1210					4	FRU-FOL	AME	Palacios <i>et al.</i> 1997	BM as for <i>C. torquatus</i>
	<i>Callicebus nigrifrons</i>	1380	7	24				FRU-FOL	AME	Neri 1997, Santos <i>et al.</i> 2008	BM as for <i>C. personatus</i>
	<i>Callicebus oenanthæ</i>	1200	+					FRU-FAU	AME	DeLuycker 2007	BM inferred from other <i>Callicebus</i>
	<i>Callicebus personatus</i>	1380	12	72				FRU-FOL	AME	Price & Piedade 2001	mean of 2 groups; seasonal 1 group
	<i>Callicebus torquatus</i>	1210	+					FRU-FAU	AME	Kinzey 1977	
	<i>Chiropotes albinasus</i>	2490	3					FRU-FAU	AME	Ayres 1989	
	<i>Chiropotes satanas</i>	2580	15					FRU-FAU	AME	Peetz 2001, Veiga 2006	mean of two groups from Veiga 2006

	<i>Pithecia albicans</i>	2500	7		2			FRU-FOL	AME	Peres 1993	BM inferred from male BM
	<i>Pithecia monachus</i>	2110	3	10				FRU-FOL	AME	Soini 1986	
	<i>Pithecia pithecia</i>	1580		11		6		FRU-FOL	AME	Setz 1993	
	<i>Alouatta belzebul</i>	5520	28	41				FOL	AME	Bonvicino 1989	
	<i>Alouatta caraya</i>	4330	3					FOL	AME	Bicca-Marques & Calegario-Marques 1994	
	<i>Alouatta fusca</i>	4350	9	11				FOL	AME	Mendes 1989	overall: mean of dry and rainy season
	<i>Alouatta palliata</i>	5350	23	85				FOL	AME	Chapman 1987	seasonal estimated from Fig. 2
	<i>Alouatta seniculus</i>	5210	2	8				FOL	AME	Queiroz 1995	
	<i>Ateles belzebul</i>	7850		35				FRU-FOL	AME	Di Fiore <i>et al.</i> 2008	
	<i>Ateles chamek</i>	9330			+			FRU-FAU	AME	Janson <i>et al.</i> 1981	
	<i>Ateles geoffroyi</i>	7290	10	20				FRU-FOL	AME	Chapman 1987	seasonal estimated from Fig. 2
	<i>Ateles paniscus</i>	8440	6	28				FRU-FOL	AME	Roosmalen 1985	including flower buds
	<i>Brachyteles anachnoides</i>	8070	12	28-33				FOL	AME	Milton 1984	
	<i>Brachyteles hyposanthus</i>	8070	11	33				FOL	AME	Strier 1991	BM as for <i>B. anachnoides</i>
	<i>Lagothrix lagotricha</i>	7020	<1	8	3			FRU-FOL	AME	Peres 1994	seasonal estimated from Fig. 6, includes both flowers and nectar
Cercopithecinae	<i>Allenopithecus nigroviridis</i>	3180	20			+		FRU-FAU	AFR	Zeeve 1991 in Enstam & Isbell 2007, Gautier-Hion & Maisels 1994	
	<i>Cercocebus torquatus</i>	5500	<1	6				FRU-FOL	AFR	Mitani 1989	estimated from Fig. 2

<i>Cercopithecus ascanius</i>	2920	3-12				- 50	FRU-FAU	AFR	Gautier-Hion & Maisels 1994, Chapman <i>et al.</i> 2002	seasonal estimated from Fig. 3
<i>Cercopithecus campbelli</i>	2700	1	7				FRU-FOL	AFR	Buzzard 2006	
<i>Cercopithecus cephus</i>	2880	6					FRU-FAU	AFR	Tutin <i>et al.</i> 1997	
<i>Cercopithecus diana</i>	3900	3	8				FRU-FAU	AFR	Buzzard 2006	seasonal estimated from Fig. 5
<i>Cercopithecus lhoesti</i>	3450	4					FRU-FOL	AFR	Kaplin & Moermond 2000	
<i>Cercopithecus mitis</i>	3930	11	29				FRU-FOL	AFR	Lawes 1991	
<i>Cercopithecus nictitans</i>	4260	4	19				FRU-FOL	AFR	Brugière <i>et al.</i> 2002	seasonal estimated from Fig. 5
<i>Cercopithecus petaurista</i>	2900	6	28				FRU-FAU	AFR	Buzzard 2006	seasonal estimated from Fig. 4
<i>Cercopithecus pogonias</i>	2900	5	11				FRU-FOL	AFR	Brugière <i>et al.</i> 2002	seasonal estimated from Fig. 5
<i>Cercopithecus preussi</i>	4500	1					FRU-FOL	AFR	Besson <i>et al.</i> 1996	
<i>Cercopithecus wolffi</i>	2870	11	51			- 50	FRU-FOL	AFR	Gautier-Hion <i>et al.</i> 1993, Gautier-Hion & Maisels 1994	
<i>Chlorocebus aethiops</i>	2980	7	69				FRU-FAU	AFR	Wrangham & Waterman 1981, Pruetz & Isbell 2000	
<i>Chlorocebus tantalus</i>	2980	9					FRU-FAU	AFR	Nakagawa 2003	BM as for <i>C. aethiops</i>
<i>Chlorocebus dhambajamensis</i>	2980	3	13				FOL	AFR	Mekonnen <i>et al.</i> 2010	BM as for <i>C. aethiops</i>
<i>Erythrocebus patas</i>	6500	7					EXU	AFR	Isbell 1998	calculated from Tab. 1
<i>Lophocebus albigena</i>	6020	6	17				FRU-FAU	AFR	Brugière <i>et al.</i> 2002	estimated from Fig. 5
<i>Lophocebus aterrimus</i>	5760	4				- 50	FRU-FOL	AFR	Horn 1987, Gautier-Hion & Maisels 1994	

<i>Macaca cyclopis</i>	4940	7	74				FRU-FOL	ASI	Su & Lee 2001	seasonal estimated from Fig. 3
<i>Macaca fascicularis</i>	3590	9	31				FRU-FOL	ASI	Mackinnon & Mackinnon 1980	
<i>Macaca fuscata</i>	8030	16	65	+			FRU-FOL	ASI	Hanya 2004	figures include nectar; seasonal estimated from Fig. 3
<i>Macaca mulatta</i>	5370	4	17				FOL	ASI	Goldstein & Richard 1989	
<i>Macaca munzala</i>	5370	3	4				FOL	ASI	Mendiratta <i>et al.</i> 2009	overall: mean of spring and winter value; BM as for <i>M. mulatta</i>
<i>Macaca nemestrina</i>	6500	1					FRU-FAU	ASI	Caldecott 1986	
<i>Macaca sylvanus</i>	11000	+					FRU-FOL	AFR	Mehlman 1988	
<i>Macaca tonkeana</i>	9000	1					FRU-FAU	ASI	Riley 2007	
<i>Mandrillus sphinx</i>	12900	1					FRU-FOL	AFR	Tutin <i>et al.</i> 1997	
<i>Papio anubis</i>	13300	6					FRU-FOL	AFR	Kunz & Linsenmair 2008	mean of 2 groups
<i>Papio cynocephalus</i>	12300	2					FRU-FOL	AFR	Post 1982	estimated from Fig. 3
<i>Papio hamadryas</i>	9900	+					FRU-FOL	AFR	Swedell <i>et al.</i> 2008	
<i>Papio papio</i>	12100	9					FRU-FOL	AFR	Sharman 1981 in Dunbar 1988	
<i>Papio ursinus</i>	14800	14					FRU-FOL	AFR	Whiten <i>et al.</i> 1987	mean of 2 groups estimated from Fig. 6
<i>Theropithecus gelada</i>	11700	1					FOL	AFR	Dunbar & Dunbar 1974	
<i>Colobus angolensis</i>	7570	6	38				FRU-FOL	AFR	Maisels <i>et al.</i> 1994	seasonal estimated from Fig. 3
<i>Colobus guereza</i>	7900	2	6				FOL	AFR	Harris & Chapman 2007	
<i>Colobus satanas</i>	7420	12	25				FRU-FOL	AFR	Brugière <i>et al.</i> 2002	seasonal estimated from Fig. 5

Colobinae

<i>Colobus verus</i>	4200	7				FOL	AFR	Oates 1988	
<i>Procolobus badius</i>	6860	2-23	21			FOL	AFR	Marsh 1981, Chapman <i>et al.</i> 2002	overall: range over 8 sites; BM: midpoint of species range in Smith & Jungers 1997
<i>Nasalis larvatus</i>	9820	8				FOL	ASI	Bismarck 2010	
<i>Presbytis comata</i>	6710	7				FOL	ASI	Ruhayat 1983	
<i>Presbytis bosei</i>	5630	3				FOL	ASI	Mitchell 1994 in Workman 2010	
<i>Presbytis melalophos</i>	6470	15	30			FRU-FOL	ASI	Mackinnon & Mackinnon 1980	
<i>Presbytis rubicunda</i>	6170	11	23			FRU-FOL	ASI	Davies <i>et al.</i> 1988	seasonal estimated from Fig. 1 in Davies <i>et al.</i> 1988
<i>Presbytis sabana</i>	6200	3				FRU-FOL	ASI	Nijman 2010	BM inferred from other <i>Presbytis</i>
<i>Presbytis siamensis</i>	6470	6				FRU-FOL	ASI	Curtin 1980	BM as for <i>P. melalophos</i>
<i>Presbytis thomasi</i>	6690	8				FRU-FOL	ASI	Gurmaya 1986	mean from 3 groups (range: 1.5-14)
<i>Pygathrix nemaeus</i>	8440	4				FOL	ASI	Lippold 1998 in Hoang <i>et al.</i> 2009	
<i>Pygathrix nigripes</i>	8440	15				FOL	ASI	Hoang <i>et al.</i> 2009	BM as for <i>P. nemaeus</i>
<i>Rhinopithecus aunculus</i>	8000	8				FRU-FOL	ASI	Quyut <i>et al.</i> 2007	
<i>Rhinopithecus bieti</i>	9960	3				FOL	ASI	Xiang <i>et al.</i> 2007	
<i>Rhinopithecus brelichi</i>	11000	12				FOL	ASI	Bleisch <i>et al.</i> 1993 in Hoang <i>et al.</i> 2009	BM inferred from male BM

<i>Rhinopithecus roxellanae</i>	11600	1	12					Li 2006	ASi	FOL		seasonal estimated from Fig. 2
<i>Sennopithecus dussumieri</i>	9890	3	21					Newton 1992	ASi	FOL		BM as for <i>S. entellus</i>
<i>Sennopithecus entellus</i>	9890	7						Srivastava 1989	ASi	FOL		
<i>Sennopithecus bector</i>	14800	6						Koenig <i>et al.</i> 1998	ASi	FOL		BM as for <i>S. entellus schistaceus</i>
<i>Sennopithecus priam</i>	6910		27					Hladik 1977	ASi	FOL		single day; BM as for <i>S. entellus thersites</i>
<i>Trachypithecus auratus</i>	8000	14	12					Kool 1993	ASi	FOL		overall: mean from two groups (7, 21); seasonal estimated from Fig. 4; BM inferred from other <i>Trachypithecus</i>
<i>Trachypithecus delacouri</i>	7350	5						Workman 2010	ASi	FOL		BM as for <i>T. francoisi</i>
<i>Trachypithecus jobnii</i>	11200	9						Oates <i>et al.</i> 1980	ASi	FOL		
<i>Trachypithecus obscurus</i>	6260	5	15					Mackinnon & Mackinnon 1980	ASi	FOL		
<i>Trachypithecus pileatus</i>	9860	7	42					Stanford 1991	ASi	FOL		seasonal estimated from Fig. 5.7
<i>Trachypithecus poliocephalus</i>	8000	<1	12					Li <i>et al.</i> 2003, Li & Rogers 2006	ASi	FOL		seasonal estimated from Fig. 2 in Li & Rogers; BM inferred from other <i>Trachypithecus</i>
<i>Trachypithecus vetulus</i>	5900		2					Hladik 1977	ASi	FOL		only single day of observation

Hylobatidae	<i>Hylobates agilis</i>	5820	3				FRU-FOL	ASI	Gitins 1982	seasonal estimated from Fig. 9
	<i>Hylobates hooleck</i>	6880	5	13			FRU-FOL	ASI	Islam & Feeroz 1992	
	<i>Hylobates lar</i>	5340	<1	1			FRU-FOL	ASI	MacKinnon & MacKinnon 1980	
	<i>Hylobates moloch</i>	6250	1				FRU-FOL	ASI	Kappeler 1984	
	<i>Hylobates muelleri</i>	5350	4				FRU-FOL	ASI	Leighton 1987	
	<i>Hylobates pileatus</i>	5440	2				FRU-FOL	ASI	Suwanvecho 2003 in Bartlett 2007	
	<i>Hylobates muelleri</i> x <i>agilis</i>	5600	13				FRU-FOL	ASI	McConkey <i>et al.</i> 2002	BM mean of parent species
	<i>Nomascus concolor</i>	7620		7			FOL	ASI	Lan 1993	
	<i>Nomascus leucogenys</i>	7320	5				FOL	ASI	Hu <i>et al.</i> 1989, 1990 in Bartlett 2007	
	<i>Symphalangus syndactylus</i>	10700	12	40			FOL	ASI	Lappan 2009	
Pongidae	<i>Pongo abelii</i>	35800	+				FRU-FOL	ASI	MacKinnon 1974	BM as for <i>P. pygmaeus</i>
Hominidae	<i>Pongo pygmaeus</i>	35800	2	11			FRU-FOL	ASI	Rodman 1977	
	<i>Gorilla beringei</i>	97500	+				FOL	AFR	Rothman <i>et al.</i> 2006	
	<i>Gorilla gorilla</i>	71500	1				FOL	AFR	Tutin <i>et al.</i> 1997	
	<i>Pan troglodytes</i>	33700	9	45			FRU-FOL	AFR	Newton-Fisher 1999	
	<i>Pan paniscus</i>	33200	+				FRU-FOL	AFR	Badrian <i>et al.</i> 1981	

APPENDIX 2.

Statistical comparisons of the distribution of florivory, nectarivory or both over dietary categories (Figure 2). Results of χ^2 -tests or the extended version of the Fisher-test are reported; significant differences are in bold (threshold: $p < 0.0083$, see METHODS).

	FOL	FRU-FOL	FRU-FAUN
FOL			
FOL-FOL	Fisher $p = 0.0225$		
FRU-FAU	$\chi = 31.6, p < 0.001$	$\chi = 27.5, p < 0.001$	
EXU	Fisher $p = 0.0001$	Fisher $p = 0.0001$	Fisher $p = 0.0209$

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