**Table 15.1 Geographic distribution of Trachypithecus**

|  |  |  |
| --- | --- | --- |
| **Species** | **Country** | **Source** |
| Trachypithecus francoisi | South-western China, Northern Vietnam, Central Lao PDR\* | Burton *et al.* 1995; Grueter & Ding 2006; Huang *et al.* 2008b; Li D *et al.* 2011; Li Z & Rogers 2005a,b; Tsuji *et al.* 2013b |
| T. leucocephalus | Southern China | Grueter & Ding 2006; Huang *et al.* 2002; Huang *et al.* 2003; Huang *et al.* 2008a; Huang *et al.* 2017c; Li Z & Rogers 2005a,b; Li Z & Rogers 2006 |
| T. poliocephalus | Cat Ba Island, Vietnam | Hendershott 2017; Hendershott *et al.* 2016; Hendershott *et al.* 2018; Nadler & Long 2000; Schrudde *et al.* 2010; Stenke & Xuan 2004 |
| T. delacouri | Northern Vietnam | Agmen 2014; Duckworth *et al.* 2010; Workman 2010b; Workman & Schmitt 2011 |
| T. hatinhensis | Central Vietnam, Lao PDR | Duckworth *et al.* 2010; Haus *et al.* 2009; Nadler *et al.* 2003; Nguyen 2006; Tran *et al.* 2017 |
| T. laotum | Central and North lao PDR | Duckworth *et al.* 2010; Steinmetz *et al.* 2011 |
| T. ebenus | Central Lao PDR, Vietnam\* | Duckworth *et al.* 2010 |
| T. phayrei | Eastern Bangladesh, North-east India, Myanmar, SW China | Adimallaiah *et al.* 2014; Roos *et al.* 2014 |
| T. barbei | Myanmar-Thailand border | Geissmann *et al.* 2004 |
| T. crepusculus | South-west China, South Myanmar, Northern Thailand, North and Central Lao PDR and Northern Vietnam | Carl 2009; Gibson & Koenig 2012; Groves 2001; Nadler *et al.* 2003; Roos *et al.* 2014; Roos *et al.* 2017 |
| T. pileatus | North-central Bangladesh, Assam India, Northern Myanmar\* | Bennett & Davies 1994; Mazumder 2014; Mukherjee & Saha 1974; Stanford 1991a |
| T. geei | Assam India and Bhutan | Chetry *et al.* 2010; Mazumder 2014; Mukherjee & Saha 1974; Srivastava *et al.* 2001 |
| T. shortridgei | South-western China, North-eastern Myanmar | Cui *et al.* 2016; Li Y *et al.* 2015a |
| T. germaini | South Vietnam, South Myanmar, South Thailand, South Lao PDR, Cambodia | Fiore 2015; Timmins *et al.* 2013; Tran *et al.* 2017 |
| T. margarita | Cambodia, Lao PDR, Vietnam | González-Monge 2016 |

\*uncertain

**Table 15.2 Climate Variables reported for Trachypithecus species in the Indo-Burmese region\***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **Climate type** | **Average Annual Temp (˚C)** | | **Average Annual Precipitation (mm)** | **Reference** |
| T. francoisi | Wet season (May to September)  Dry season (October to April) | | 22.1 | 977/1035 | Huang *et al.* 2008a; Li D *et al.* 2011; Zhou Q *et al.* 2007; Zhou Q *et al.* 2011a |
| T. leucocephalus | Wet season (April to September)  Dry season (October to March) | | 22.1 | 1035/1022 | Huang *et al.* 2003; Huang *et al.* 2017c; Li D *et al.* 2011; Zhou Q *et al.* 2011a |
| T. poliocephalus | Wet season (May to October)  Dry season (November to April) | | 24.25 | 1700-1800 | Hendershott, 2017; Hendershott *et al.* 2016; Hendershott *et al.* 2018; Nadler & Long, 2000; Nguyen *et al.* 2010 |
| T. delacouri | Wet season (May to October) | | 22.9 | 1275.6 | Harding 2009; Workman 2010b |
| T. phayrei | Wet season  Dry season | |  | 2340  >3000 | Adimallaiah *et al.* 2014; Mazumder 2014 |
| T. crepusculus | Wet season (May to October)  Dry season (November to April) | | 13.3 |  | Carl 2009; Ma *et al.* 2015 |
| T. geei | Tropical monsoons | | \*\* | 1000 (north)  5000 (south) | Mukherjee & Saha 1974 |
| T. shortridgei | Wet season (May-October)  Dry season (November to April) | | 14.5 | 2745.1 | Cui *et al.* 2016; Li Y *et al.* 2015a |
| T. margarita | Wet season (May to October)  Dry Season (November to April) | | 28.7 | 850.8 | González-Monge 2016 |

\*No data available for *T. hatinhensis, T. laotum, T. ebenus, T. germaini, T. pileatus or T. barbei*

\*\*maximum and minimum temperatures for different study sites only (see Mukherjee & Saha 1974).

**Table 15.3** **Comparison of the dietary composition (%) of *Trachypithecus* species in the Indo-Burmese region\***

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **F** | **YL** | **ML** | **TL** | **UFR** | **RFR** | **TF** | **FL** | **SD** | **Oa** | **Reference** |
| *T. delacouri* | 29 | 60 | 20 | 80 | 9 | <1 | 9 | 5 | 1 | 6 | Workman 2010a |
| *T. leucocephalus* |  | 75 | 11 | 89 | 2 | 4 | 6 | 3 | <1 | 2 | Li Z & Rogers 2006 |
| 19 |  |  | 92 |  |  | 4 | <1 |  | 4 | Zhou Q *et al.* 2013a |
|  | 61 | 16 | 77 | 15 | 2 | 17 | 5 |  | 2b | Li *et al.* 2016 |
|  | 62 | 27 | 88 |  |  | 9 | 3 |  |  | Yin *et al.* 2011 |
| *T. francoisi* |  |  |  | 95 |  |  | 3 | <1 |  | 2 | Huang *et al.* 2008b |
|  | 39 | 14 | 53 | 16 | 1 | 17 | 8 | 14 | 7 | Zhou Q *et al.* 2006 |
| 25 |  |  | 87 |  |  | 9 | <1 |  | 3 | Li Y *et al.* 2009 |
|  | 43 | 21 | 64 |  |  | 26 | 4 | 7 | <1 | Hu 2011 |
|  | 59 | 12 | 70.6 |  |  | 12 | 4 | 11 | 2 | Li Y *et al.* 2015b |
| *T. poliocephalus* | 19 |  |  | 84 |  |  | 8 | 5 |  | 3 | Hendershott *et al.* 2017 |
| *T. phayrei* | 11 | 41 | 4 | 46 |  |  | 22 | 3 | 18 | 10 | Ma *et al.* 2017 |
|  | 35 | 49 | <1 | 49 | 5 | 2 | 7 |  | 23 | 21e | Gupta & Kumar 1994 |
|  | 29 | 31 | 12 | 46 | 24 | 13 | 40c | 9 |  | 5 | Suarez 2013 |
|  |  |  |  | 47 |  |  | 14c | 16 |  | 23 | Aziz & Feeroz 2009 |
| *T. crepusculus* | 21  29 | 30  31 | 25  12 | 54  46 | 24 | 13 | 32c  40 | 6  9 |  | 7  5 | Fan *et al.* 2015  Suarez 2013 |
| *T. pileatus* |  | 57 | 6 | 64 |  |  | 16c | 16 |  | 4 | Solanki *et al.* 2008 |
|  | 35 | 11 | 42 | 66.8d |  |  | 24 | 7 | 9 | 2 | Stanford 1991b |
|  | 32 |  |  | 61 |  |  | 21 | 4 | 5 | 9 | Islam & Husain 1982 |
|  | 29 |  |  | 46 |  |  | 36 | 1 |  | 16 | Biswas *et al.* 2009 |
| *T. margarita* |  |  |  | 8 |  |  | 21 | <1 | 69 | 2 | González-Monge 2016 |
| *T. geei* |  |  |  | 65 |  |  | 25 | 10 |  |  | Das *et al.* 2013 |
|  |  |  |  | 55 |  |  | 22 | 11 |  | 13 | Lhendup *et al.* 2018 |
| *T. germaini* | 45 | 58 | 9 | 67 |  |  | 24 | 3 |  | 6 | Le *et al.* 2015 |

\*No data available for *T. barbei, T. ebenus, T. hatinhensis, T. laotum* or *T. shortridgei*

Note: F = Time spent feeding; YL = Young leaves; ML = Mature leaves; TL = Total leaves; UFR = Unripe Fruit; RFR = Ripe Fruit; TF = Total Fruit; FL = Flowers; SD = Seeds; O = Other

aOther items could include stems, petioles, roots/shoots, bark, wood, twigs, buds, epiphytes, gums, animal matter, pith, soil, rock mineral and unknown

bIncludes seeds

cIncludes times when only the seeds of the fruits were consumed

d Includes petioles and leaf buds

e Includes flowers

**Table 15.4. Percentage of time spent in each activity category for *Trachypithecus* species in the Indo-Burmese region**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species** | **Inactive** | **Feeding/**  **Foraging** | **Traveling** | **Social** | **Other** | **Reference** |
| *T. delacouri* | 61 | 29 | 4 | 6 |  | Workman 2010b |
|  | 75 | 21 | 2 | 2 | <1 | Agmen 2014 |
| *T. leucocephalus* | 52 | 13 | 15 | 14 | 7 | Li Z & Rogers 2004b |
|  | 50 | 13 | 18 | 18 |  |  |
|  | 46 | 20 | 29 | 4 |  | Zhou Q *et al.* 2010 |
| *T. francoisi* | 50 | 27 | 13 | <1 | 10 | Yang *et al.* 2007 |
|  | 35 | 32 | 14 | 10 | <1 |  |
|  | 41 | 25 | 17 | 5 | 12 | Hu 2007 |
|  | 52 | 23 | 17 | 2 | 6 | Zhou Q *et al.* 2007 |
| *T. poliocephalus* | 55 | 19 | 12 | 12 | 2 | Hendershott *et al.* 2017 |
| *T. phayrei* | 21.1 | 35 | 14 | 30 |  | Gupta & Kumar 1994 |
| *T. crepusculus* | 44.2 | 21 | 312 |  |  | Fan *et al.* 2015 |
| *T. pileatus* | 40 | 35 | 18 |  | 7 | Stanford 1991a |

\*No data available for *T. barbei, T. ebenus, T. geei, T. germaini, T. hatinhensis, T. laotum, T. margarita or T. shortridgei*

**Table 15.5 Home range sizes of Trachypithecus in the Indo-Burmese region\***

|  |  |  |  |
| --- | --- | --- | --- |
| **Species** | **Home Range Size (ha)** | **Reference** | |
| T. francoisi | 19  69.3  44 -110 | | Zhou Q *et al.* 2007  Hu 2007 |
| T. leucocephalus | 26 - 48  23.8 - 33.8  52 | | Li Z & Rogers 2005b  Zhou Q *et al.* 2011b  Huang *et al.* 2002 |
| T. poliocephalus | 22 – 50 | | Hendershott *et al.* 2018 |
| T. delacouri | 36 – 46 | | Harding 2009 |
| T. hatinhensis | 1 – 10 | | Haus *et al.* 2009 |
| T. phayrei | 27.5  73.7 – 93 | | Stanford 1991a  Pages *et al.* 2005 |
| T. crepusculus | 400  400 - 450 | | Ma *et al.* 2015  Fan *et al.* 2015 |
| T. pileatus | 14 - 64 | | Stanford 1991a |
| T. geei | 64  120, 430a  – | | Mukherjee & Saha 1974  Srivastava 2006 |
| T. margarita | 256 | | González-Monge 2016  González-Monge & Behie 2019 |

\*No data available for *T. barbei, T. ebenus, T. germaini, T. laotum or T. shortridgei*

aHome range for disturbed habitat versus undisturbed habitat.

**Table 15.6. Percent (%) of observed groups of *Trachypithecus* in the Indo-Burma region\* that can be described as unimale-multifemale (UM-MF), multimale-multifemale (MM-MF), or all-male (M)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **UM-MF** | **MM-MF** | **M** | **Other** | **Reference** |
| *T. geeii* | 78% | 22% |  |  | Lhendup *et al.* 2018 |
| 67% | 30% | 3% |  | Chetry *et al.* 2010 |
| ‘most groups’ |  |  |  | Srivastava *et al.* 2001 |
| *T. pileatus* | ~90% |  |  |  | Kumar & Solanki 2008 |
| *T. leucocephalus* | 86-93% of bisexual groups |  |  |  | Jin *et al.* 2009a |
| *T. crepusculus* | 48% | 2 males (25%), 3 males (16%) |  |  | Koenig & Borries 20121 |
| *T. poliocephalus* | 56% |  | 11% | 22% (UM-UF), 11% (F) | Lees *et al.* 2014 |

\*No data available for *T. barbei, T. delacouri, T. ebenus, T. francoisi, T. germaini, T. hatinhensis, T. laotum, T. margarita, T. phayrei* or *T. shortridgei*

Notes: Based on observations of group-months and only including wild groups of more than one individual

**Table 15.7: Group size, type, and composition, for *Trachypithecus* species living in Indo-Burmese region\*. Means are listed with ranges in parentheses.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Group size** | **# groups** | **Group type** | **# AM** | **# AF** | **# IM** | **Reference** |
| *T. crepusculus* | 11.4, 12.1, 12.5 (9-16) | 1a | UM-MF | 1 | 4.3, 4.2, 4.5 (3-7) | 6.9, 7.0 | Borries *et al.*2008; Gibson and Koenig 2012; Lu *et al.* 2016; Lu *et al.* 2011; Carl 2009 |
| 25.8, 24.9, 27.5 (20-33) | 1b | UM-MF | 1 | 10.5, 10.8, 11.0 (9-12) | 13.1, 15.5 (11-20) |
| 18.3, 17.3, 19.0 (14-23) | 1c | MM-MF | 2.2, 2.5 (2-4) | 5.4, 4.4, 5.5 (3-8) | 10.7, 10.5 (8-13) |
| (14-19) | 1 | MR | (1-3) | (5-8) |  | Borries *et al.* 2004 |
| 69.9 (42-105) | 8 |  |  |  |  | Ma *et al.* 2015 |
| 12.1 (6-19) | 1a | MR | 1.2 (1-2) | 4.3 (3-7) | 6.5 | Koenig & Borries 2012 |
| 19.6 (14-27) | 1c | MR | 2.7 (1-4) | 6.1 (3-10) | 10.8 |
| 20.5 (15-26) | 1 | MR | 2.7 (1-5) | 7.9 (7-9) | 9.9 |
| 25.7 (20-33) | 1b | MX | 1.2 (0-3) | 10.4 (9-12) | 14.2 |
| >90 | 1 | MM-MF | (>10-11) | (>30-31) | >50 | Fan *et al.* 2015 |
| *T. delacouri* | 11.6 (4-16) | 5 | UM-MF | 1 | 5.4 (2-8) | 5.5 (2-9) | Workman 2010b |
| 5 (4, 6) | 2 | MM-MF | 2 | 1.25 (1, 1.5) | 1.75 (1, 2.5 SA) |
| 4 | 1 | M | 4 Me | - |  |
| ~7-14d | 5 | UM-MF | 1 | 2.8  (1-4)d | 6.0 | Agmen 2014 |
| *T. geeii* | 9.8 (4-19) | 96 | MX |  |  |  | Srivastava 2006 |
| 10.5 (10.1, 10.8) | 19 | MX |  |  |  |
| 8.2 (4-22) | 130 |  |  |  |  | Srivastava *et al.* 2001 |
| 7.19 | 32 |  |  |  |  | Lhendup *et al.* 2018 |
| 7.2 |  | MX |  |  |  | Wangchuk 2005 |
| 5 | 1 | M | 5Me |  |  |
| 7.4 (3-15) | 64 |  |  |  |  | Chetry *et al.* 2010 |
| *T. francoisi* | 8-19 | 3 | UM-MF | 1 | 4-7 | 0-5 | Hu 2007 |
|  | 1 | UM-MF | 1 | 3 | 5 | Li Y *et al.* 2009 |
| 11, 14-18 | 2 | UM-MF | 1 | 3-8 | 5-7 | Zhou Q *et al.* 2009a |
| 4 | 1 | UM-MF | 1 | 3 |  | Zhou Q *et al.* 2011b |
| 9-12 | 1 | MR | 1-4 | 5 | 3 | Zhou Q *et al.* 2009a |
| 10-12; 5 | 2 | UM-MF | 1 | 2-5 | 2-3 | Zhou Q *et al.* 2009b |
| 5.2-7.7i | 7 | UM-MF | 1 | 2-3 | 0-5 | Hu *et al.* 2004 |
| 5.2-7.7i | 3 | M |  |  |  |
| *T. hatinhensis* | 3.54 (1-10) | 27 |  |  |  |  | Haus *et al.* 2009, including unpublished data cited therein |
| 5.09 (1-11) |  |  |  |  |  |
| (3-30) |  |  |  |  |  | Nguyen 2006 |
| *T. laotum* | (15-25) |  |  |  |  |  | Steinmetz *et al.* 2011 |
| 17 | 1 |  | 14 A/SA | | 3 (J) | Nadler 2009 |
| *T. leucocephalus* | 7.3 (3-13) | 6 | UM-MF | 1 | 4.0 (2-7) | 2.3 (0-5) | Huang *et al.* 2005; Huang *et al.* 2003 |
| 6.0 (4-9) | 1 | MX | 0.75 (0-1) | 2.5 (1-3) | 2.25 (0-5) | Huang *et al.* 2015 |
| 7 | 1 | UM-MF | 1 | 3 | (3-4 I) | Zhao Q *et al.* 2008 |
| 17 (7-27) | 4 | UN-MF | 1 | 6.0 (3-9) | 10.0 (3-18) | Zhao Q & Pan 2006 |
| 6.0 | 3 | M/M-IM | 1 | - | 5 |
| 24-33 | 1 | UN-MF | 1 | 10 | (13-22) | Yao *et al.* 2012 |
| 11 | 1 | MM-MF | 2 | 7 | 3 | Zhou Q *et al.* 2013a |
| 7 (6,8) | 2 | UM-MF | 1 | 6 (5,7) |  |
| 8.83 (4.5-14.5) | 9 | UM-MF | 1 | 4.83 | 3.0 (0-7) | Li Z & Rogers 2005b |
| 9.25, 9.7 (4-16) | 10 | UM-MF | 1 | 4.9 (3-9) | 3.2 | Li Z & Rogers 2004a,b |
| 6.5 (4, 9; 13) | 2 | M | 6 (4,8) | - | 0.5 (0, 1 SA) |
| 53 | 1 | MM-MF | 2 Me | 3 Fe |  |
| 11.7 (3-30) | u/kg | UM-MF | 1 | 5.1 (1-14) | 5.6 (0-13) | Jin *et al.* 2009a |
| 9.7 | 3 | MM-MF | 2.3 (2-3) | 3.0 (1-5) | 4.3 (2-8) |
| 5.2 (2-13) | u/k | M/M-IM | 1.3 (0-3) | - | 3.9 (0-9) |
| 18 (16.5, 19.5) | 2 | UM-MF | 1 | 6.25 (6.0, 6.5) | 10.75 (9.5, 12.0) | Jin *et al.* 2015 |
| 8.0 (7-13) | 4 | UM-MF | 1-3 Me | 5-12 Fe |  | Liu Z *et al.* 2013b |
| 4 | 1 | M | 4 Me | - |  |
| 12.5 (11, 14) | 2 | UM-MF | 1 | 6.5 (5, 8) | 5 (5, 5) | Li D *et al.* 2011 |
| 26 (3-18)3 |  |  | >1 |  |  | Burton *et al.* 1995 |
| 22 (17, 27) | 2 (pre takeover) | UM-MF | 1 | 9 (6, 12) | 12 (10, 14) | Yin *et al.* 2013 |
| *T. margarita* | ~16 (6-62)d |  | MX | 3 (1-6) | 7 (2-20) | 0-36 | González-Monge 2016 |
| *T. phayrei* | 15.0 (12-18) | 3 | UM-MF | 1 | 4.3 (3-5) | 9.6 | Gupta & Kumar 1994 |
| 16.04 (15, 17) | 2 | MM-MF | 2 | 5.0 (4, 6) | 9.0 |
| 12.14 (8-19) | 7 | UM-MF | 1 | (3-7) | (1-2 I) | Adimallaiah *et al.* 2014 |
| *T. pileatus* | 8.33 (8-9) | 3 | UM-MF | 1 | 4.6 (4-5) | 2.66 | Solanki *et al.* 2007 |
| 7 | 1 | MM-MF | 2 | 4 | 1 (J) |
| 4-13 | 49 | UM-MF | 1 | 4 (4-5) | 4 (5-7) | Stanford 1991b |
| 8 | 1 | UM-MF | 1 | 5 | 2 | Solanki *et al.* 2008 |
| 7.5 (3-13) | 26 |  |  |  |  | Kumar & Solanki 2008 |
| *T. poliocephalus* | 6.1 | 11 |  |  |  |  | Schrudde *et al.* 2010 |
| 8.0 (6, 10) | 2 | MR | >1-2 | >2 | 0, 4 | Schneider *et al.* 2010 |
| 8.6-10.3 |  |  |  |  |  | Nadler and Long 2000 |
| 5.6-6.7 |  |  |  |  |  |
| 3.7 |  |  |  |  |  | Stenke and Xuan 2004 |
| 4.67 (50-60 species total) | 12 |  |  |  |  | Duy *et al.* 2014 |
| 6.9 (2-16) | 7 | UM-MF | 1 | 2.9 (1-5) | 3.0 | Lees *et al.* 2014 |
| 3 | 1 | M | 1 |  | 2 (SAM) |
| *T. shortridgei* | 8.0 (7-9) | 5 | UM-MF | 1 | 2.9 (2-3) | 4.1 (3-5) | Li Y *et al.* 2015a |

\*No data available for *T. barbei or T. germaini*

Note: If one study reports multiple of the same type of group, or the same group over time, these are averaged. We attempted to reduce conflating sample sizes by identifying the same groups across studies (although this was not always possible), and the nature of dividing up reports by group type means that some groups are represented multiple times in different rows. Therefore, this table cannot be used to calculate statistical patterns. If multiple studies mention the same group (but different means/ranges), they are separated by a comma. If the sample size is two groups, the range is described with a comma (,); if it is more than two groups, a dash (-) is used. Group types include: UN-MF = unimale-multifemale, MM-MF = multimale-multifemale, M = all-male (including M/M-IM = all male groups with some immature individuals), MR = mixed reproductive, MX = mixed (indicates that a group changed type throughout the study, but there is no detail in what the group composition was for each type). AM = adult male, AF = adult female, SAM = subadult male, SAF = subadult female, IM = immature (including subadults (SA), juveniles (J) and infants (I) of both sexes). u/k = unknown

agroup PS, which crossed group type categories

bgroup PB, which crossed group type categories

cgroup PA, which crossed group type categories

danimals are unhabituated and these values represent minimum counts

eunknown age

fmaximum

gunknown total across censuses, but 12-17 groups were identified in any one year

honly group composition at the beginning of the study is included here

imean for all group types

**Table 15.8: Age-sex ratios for males-to-females (M:F), adult males-to-adult females (AM:AF), adult females-to-juveniles (AF:J), adult females-to-infants (AF:I), adult females-to-immature (AF:IM; immature includes anyone not sexually mature), and adults-to-immatures (A:IM).**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **M:F** | **AM:AF** | **AF:J** | **AF:infant** | **AF:IM** | **A:IM** | **reference** |
| *T. geeii* |  | 1:2.26 | 1:3.03 | 1:2.7 |  |  | Lhendup *et al.* 2018 |
|  | 1:1.53 |  | 1:0.617 | 1:1.86 | 1:1.017 | Chetry *et al.* 2010 |
|  | 1:1.9-2.5 |  |  |  |  | Srivastava *et al.* 2001 |
|  | 1:2.1 (1:1.5-1:5.0) |  |  |  |  | Srivastava 2006 |
| *T. phayrei* |  | 1:4.69 | 1:0.75 | 1:0.24 | 1:1.67 | 1:1.38 | Adimallaiah *et al.* 2014 |
| *T. pileatus* | 1:3.6 |  |  |  |  |  | Kumar & Solanki 2008 |
| *T. shortridgei* |  | 1:2.9 |  | 1:0.455 |  | 1:1.2 | Li Y *et al.* 2015a |
| *T. margarita* | 1:2.77 (1:1.25-1:3.33) |  |  |  |  |  | González-Monge 2016 |
| *T. leucocephalus* |  | (1:3.0-1:4.7) |  |  |  |  | Jin *et al.* 2009a |
|  |  |  |  |  |  | 1:0.48 | Huang *et al.* 2002 |
|  |  |  |  |  |  | 1:1.16 | Burton *et al.* 1995 |
| *T. poliocephalus* |  | 1:3.25 | 1:0.46 | 1:0.11 | 1:0.92 | 1:0.71 | Lees *et al.* 2014a |

\*No data available for *T. barbei, T. crepusculus, T. delacouri, T. ebenus, T. francoisi, T. germaini, T. hatinhensis* or *T. laotum*

aLimited to wild populations

**Table 15.9: Reproductive characteristics for *Trachypithecus* species living in Indo-Burmese region. Mean given, with range in parentheses. Births that are reported throughout the year are labelled as ‘TY’. If known, sample size is also listed in parentheses (n=). For mating and birth seasons, months are listed as well as whether those months fall within the regional wet (W) or dry (D) season.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Gestation (days)** | **Weaning (months)** | **IBI (months)** | **Mating season** | **Birth season** | **reference** |
| *T. crepusculus* |  | 20.12 (13-29, n=34) | 23.22 (15-34, n=32) |  |  | Borries *et al.* 2008 |
| 205.3 (201-211 n=7)a | 19.0 (12-28, n=51) | 22.3b (14-32, n=40) |  |  | Borries *et al.* 2011; Borries *et al.* 2014b |
| 205.3 (n=7)a |  |  |  | mostly Nov-April (D) | Lu *et al.* 2016 |
| *T. delacouri* |  |  |  |  | 3 in Sept/Oct (W), 1 in Nov/Dec (D), 2 in April (D) (n=6) | Workman 2010b |
| *T. francoisi* |  | 12-14 (n=4) | 24 (19-28) |  | TY; peak in Feb and March (end D) (n= 20) | Hu 2007 |
| *T. leucocephalus* |  |  |  |  | TY, peak in March-April (early spring = end D/start W) | Tan 1985 |
|  | 19-21 (n=3) |  |  |  | Zhao Q *et al.* 2008 |
|  |  | 23.2 (8.4-34.5) (n=27) | May-Sept (W) | TY; peak Nov-March (D) (n=133) | Jin *et al.* 2009b |
|  |  | 21.47 |  |  | Yin *et al.* 2013 |
|  | 18.49 (16-22, n=32) | 27.26c (24-35) |  |  | ZhaoQ *et al.* 2011 |
|  | 20.29 (n=17) | 25.4 (n=23) |  |  | Zhao Q *et al.* 2009 |
| *T. phayrei* |  |  |  |  | Jan-Feb (D) (n=8) | Adimallaiah *et al.* 2014 |
| *T. pileatus* |  |  |  |  | late Dec – mid May (D) (clumped in 4.5 months) | Stanford 1992 |
| 200 (196-205; n=4) |  | 23.3 | Sept-Jan, April-May (D) | Dec-April (most in March) (D) | Solanki *et al.* 2007 |
| *T. poliocephalus* |  |  |  |  | TY; Feb peak | Leonard *et al.* 2016 |
| *T. shortridgei* |  |  | 24 |  | March – July (W) | Li Y *et al.* 2015a |

\*No data available for *T. barbei, T. ebenus, T. geei, T. germaini, T. hatinhensis, T. laotum* or *T. margarita*

aFrom Lu *et al.*2010, cited in other sources

bthroughout the study period (not per year)

cwhen last infant survived to 1 year

**Table 15.10. Published studies used in this review on *Trachypithecus* species in the Indo-Burmese region. Studies are classified into categories based on primary research topic of the paper.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Species** | **No. Studies** | **Population status** | **Activity** | **Diet/**  **Feeding** | **Reproduction** | **Distribution/**  **Habitat** | **Social organisation/**  **Behaviour** | **Conservation/**  **threats** | **genetics** |
| *T. leucocephalus* | 33 | 2 | 3 | 7 | 6 | 10 | 3 | 0 | 2 |
| *T. francoisi* | 21 | 4 | 5 | 6 | 0 | 5 | 0 | 0 | 1 |
| *T. crepusculus* | 20 | 2 | 0 | 1 | 7 | 3 | 5 | 1 | 1 |
| *T. poliocephalus* | 13 | 2 | 2 | 1 | 0 | 1 | 1 | 5 | 1 |
| *T. pileatus* | 12 | 2 | 0 | 2 | 2 | 1 | 3 | 2 | 0 |
| *T. geei* | 9 | 4 | 0 | 0 | 0 | 4 | 0 | 1 | 0 |
| *T. delacouri* | 7 | 1 | 1 | 2 | 0 | 2 | 0 | 1 | 0 |
| *T. phayrei* | 6 | 1 | 0 | 3 | 0 | 1 | 1 | 0 | 0 |
| *T. germaini* | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| *T. margarita* | 4 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| *T. shortridgei* | 3 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| *T. barbei* | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| *T. laotum* | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *T. hatinhensis* | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| *T. ebenus* | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| *Total* | 138 | 24 | 12 | 25 | 15 | 29 | 15 | 12 | 6 |