

The conservation status of bats in Fiji

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TABLE S1 The morphology, reproductive schedules and survey details for the six bat species occurring in the Fiji archipelago (Fig. 1).

	<i>Pteropus tonganus</i>	<i>Pteropus samoensis nawaiensis</i>	<i>Notopterus macdonaldi</i>	<i>Chaerephon bregullae</i>	<i>Emballonura semicaudata semicaudata</i>	<i>Mirimiri acrodonta</i>
No. captured (Taveuni/Waisali)	44 (1/43)	51 (13/38)	193 (23/170)	10 (3/1)	0	1 (1/0)
No. per mnh Taveuni/Waisali	$5.22 \times 10^{-4}/0.02$	0.01/0.02	0.01/0.07		0	5.30×10^{-4}
Percentage adult/subadult/juvenile on Waisali	36/46/18	29/47/24	70/24/6	100/0/0		
Percentage adult/subadult/juvenile on Taveuni	0/100/0	69/23/8	59/27/14	100/0/0		100/0
Percentage female/male on Waisali	51/49	59/41	41/59	0/100		
Percentage female/male on Taveuni	100/0	85/15	70/30	100/0		100/0
Adult female mean mass (g) \pm SE, range (n)	402.6 \pm 25.52, 346–532 (7)	351.6 \pm 13.15, 302–430 (12)	61.2 \pm 0.92, 50–75 (48)	22.0 \pm 1.00, 21–23 (2)	7.2, 6.5–8.0 (5) ¹	362 (1); 222–264 (2) ¹
Adult male mean mass (g) \pm SE, range (n)	436.1 \pm 33.19, 315–570 (8)	373.0 \pm 14.25, 304–438 (8)	71.5 \pm 0.89, 51–89 (75)	24.3 \pm 0.85, 22–26 (4)	5.5, 5.5 (3) ¹	258 (1) ¹
Sub-adult female mean mass (g) \pm SE, range (n)	242.3 \pm 10.34, 200–300 (11)	236.1 \pm 6.09, 201–270 (14)	41.4 \pm 1.00, 30–50 (26)			
Sub-adult male mean mass (g) \pm SE, range (n)	244.6 \pm 11.35, 204–300 (9)	235.3 \pm 13.1, 201–289 (7)	42.0 \pm 1.20, 30–49 (20)	19.00 (1)		
Juvenile female mean mass (g) \pm SE, range (n)	193.0 \pm 3.51, 186–197 (3)	184.8 \pm 2.35, 176–190 (5)	27.7 \pm 0.49, 26–29 (6)			
Juvenile male mean	186.5 \pm 6.44, 170–199 (4)	176.0 \pm 3.11, 171–185 (4)	27.13 \pm 0.77, 25–29 (4)			

mass (g) ± SE, range (n)						
Adult female mean forearm length (mm) ± SE, range (n)	142.4 ± 1.14, 140–148 (8)	127.7 ± 0.64, 124–132 (12)	64.9 ± 0.27, 61–70 (48)	52.3 ± 0.38, 52–53 (3)	46.2, 45.3–47.9 (5) ¹	120.1 (1); 111.2 (1) ¹
Adult male mean forearm length (mm) ± SE, range (n)	139.3 ± 5.61, 107–161 (8)	130.8 ± 1.89, 120–138 (8)	67.1 ± 0.24, 62–72 (76)	52.7 ± 0.26, 52–53 (4)	44.8, 44.4–45.5 (3) ¹	127.2 (1) ¹
Sub-adult female mean forearm length (mm) ± SE, range (n)	124.8 ± 1.29, 116–132 (12)	114.0 ± 1.05, 108–120 (13)	59.1 ± 0.60, 52–65 (26)			
Sub-adult male mean forearm length (mm) ± SE, range (n)	123.8 ± 2.20, 116–134 (9)	113.5 ± 1.95, 106–120 (7)	58.1 ± 0.62, 52–62 (20)	52.0 (1)		
Juvenile female mean forearm length (mm) ± SE, range (n)	122.9 ± 4.28, 116–131 (3)	106.8 ± 0.38, 106–108 (5)	53.1 ± 0.60, 51–55 (6)			
Juvenile male mean forearm length (mm) ± SE, range (n)	122.2 ± 4.15, 114–133 (4)	107.7 ± 1.92, 102–110 (4)	53.6 ± 0.70, 52–55 (4)			
Pregnant females	Aug. 2009		May 2009; Mar. & Aug. 2010	Nov. 2009		May 2009
Juveniles trapped	Apr. 2009; Feb., Apr., Dec. 2010	Apr., Sept., Oct., Dec. 2009; Feb., May, Oct., Nov. 2010	June, July, Oct., Nov., Dec. 2009; Feb., Oct. 2010			
Sub-adults trapped	Apr., June, July, Aug., Sep., Oct., Dec. 2009; Feb., Apr., May, Aug., Sep. 2010	Apr., May, June, July, Sep., Nov., Dec. 2009; Feb., Apr., Aug., Sep., Nov. 2010	Feb., Apr., May, June, July, Aug., Sep., Oct., Nov., Dec. 2009; Feb., Sep. 2010	May 2009		
Females with pups	Sep. 2010		Mar. 2009		Nov. 2009 ²	
Camps for surveying <i>P. tonganus</i> and <i>P. s. nawaiensis</i> (size estimate and date) and cave surveys for <i>N. macdonaldi</i> , <i>C. bregullae</i> , & <i>E. semicaudata</i> (date & guide)	<i>P. tonganus</i>: Taveuni: Urban camp at Garden Island Resort, Waiyevo (>2,000; May 2009); forest camp, c. 700 m altitude, Mount Koroturanga (~300; Apr. 2009) Vanua Levu: Forest camp near Vdomodomo village (>2,000; July, Sep., Oct. 2009); Five separate camps on Waisali land – two in secondary forest (10–300; Sep. 2008, July 2009, Apr., Aug. 2010), one near a village garden (10–300; May 2009, Mar., Apr. 2010), one in forest west of village (>3,000; Sep. 2008, July 2009),	Saweni/Tatuba: ~200; Oct. 2008, June 2009 (Apisa, Saweni) Wailotua: ~1,000; Oct. 2008 (Ratu Savenaca Bose, Wailouta) Kalabo: ~2,000; Aug. 2008 (Jos Gio, Wainibuku & Troko, Kalabo) Wainibuku: ~1,000; July 2008 (Jos Gio & experts from Department of Forests & University of South Pacific)	Nakanacagi: <2,000; May 2010 & Mar. 2011 (local guides from Nakanacagi & second survey with conservation officers from NatureFiji-MareqetiViti)	Coastal overhangs, Savusavu Bay, limestone cave in Namale Resort, and rocky outcrops near Savusavu airport: Sep. 2008–July 2009 (local guides from Namale & Nukubalavu) Waisali land: Sep. 2008 & July 2009 (Elia, Waisali & Nabalebale, and rangers from		

and one maternity camp within the Waisali Rainforest Reserve (~300; July–Sep. 2009, Aug. 2010); three separate camps on small offshore islands in and near Savusavu Bay (>2,000 in each; Mar.–May, Aug. 2010, Jan., Mar. 2011); forest camp near Lomolomo (~1,000; Mar. 2011)

Viti Levu: Two camps in Suva city (>2,000; July 2008–Mar. 2011); forest camp in Colo-i-suva Park (>2,000; July 2008); forest camp in Koroyanitu National Heritage Park (~300; July 2008)

***P. s. nawaiensis*:**

Vanua Levu: Two separate camps in secondary forest on Waisali land (2–30; Sep. 2008, Sep. 2009; Apr., Aug. 2010, Mar. 2011) & often observed in small numbers within the *P. tonganus* camps

Dharam Singh & Udit: Aug. 2008 (Jos Gio)

Waisali land: Sep. 2008 & July 2009 (Elia, Waisali & Nabalebale, and rangers from Waisali Rainforest Reserve and National Trust of Fiji)

Waisali Rainforest Reserve and National Trust of Fiji)

Yaqeta: Dec. 2010 (local guide, Matayalevu)

¹Measures supplemented from Flannery (1995) for bats caught in Fiji. No standard error is generated for measures of individual animals, or for values supplemented by statistics from other studies (e.g. for *E. semicaudata semicaudata* and *M. acrodonta*).

²K. Macedru observed a female with pup at Tavuuyaga (Tubakau) cave near Nakorovou village, Vuna, Taveuni (Macedru, 2010).