

**Table S1.** Morphometric variables for adults of the White-banded Tanager (*Neothraupis fasciata*) in different localities in Brazilian Cerrado (for location abbreviations, see Figure 1). Localities with ten or more individuals (females + males) had sexes compared with ANOSIM test (see ANOSIM's R value and its P-value below location name) and Student's *t*-tests (see *t* value and its *P* value). The number of individuals (N) and the mean, minimum (Min) and maximum (Max) values of eight morphometric variables are given for each locality. The asterisk indicates the morphometric variables with logarithmic transformations for *t*-tests. The bold value indicates statistical significance at the 0.05 level. All units are in mm, except for BM in g. TLF: total length with feathers; BL: bill length; BW: bill width; BH: bill height; TA: tarsus length; TL: tail length; WL: wing length; BM: body mass.

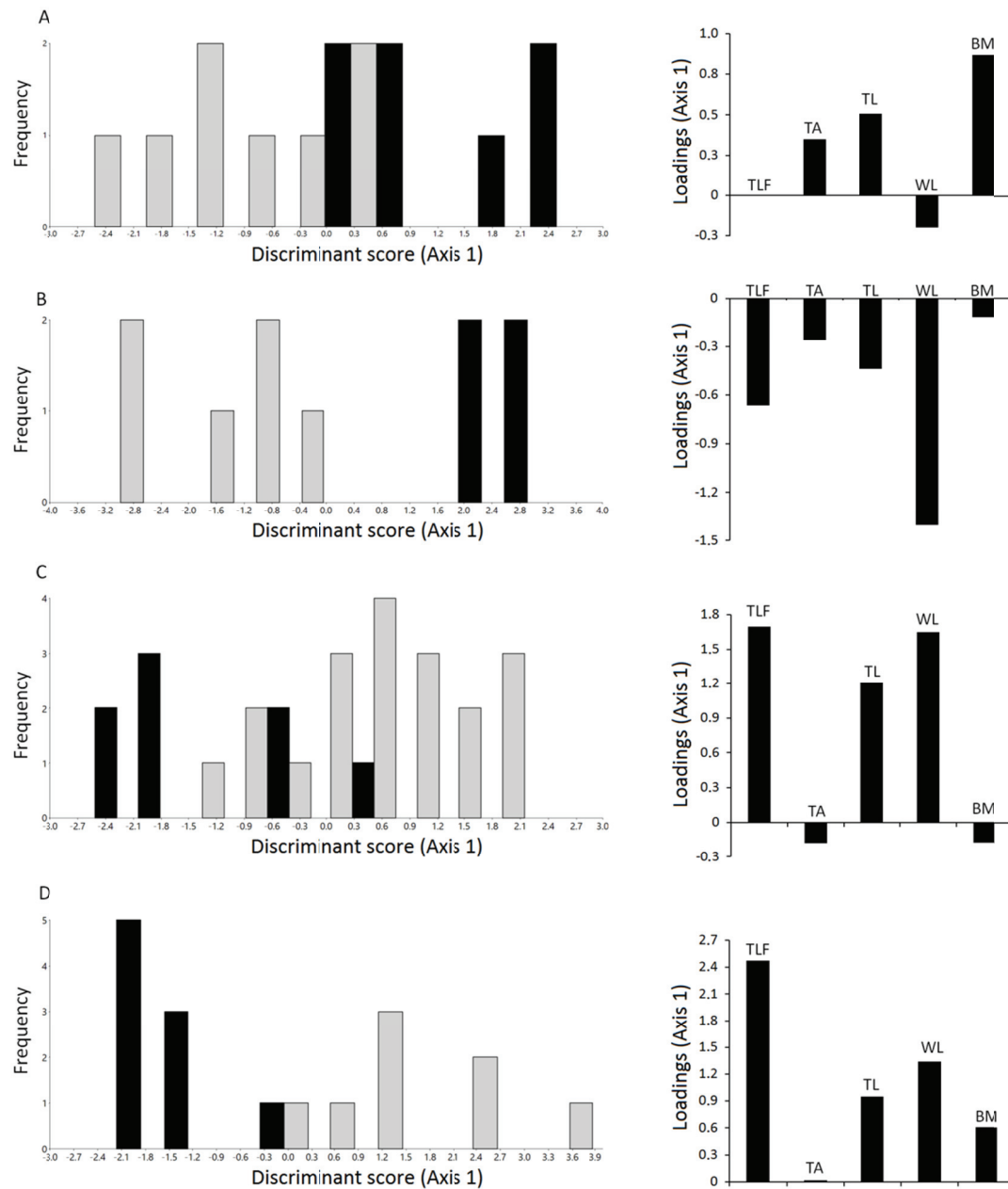
Sample locality	Measure	Females			Males			t (P)
		N	mean ± SD	Min–Max	N	mean ± SD	Min–Max	
AGCV								
-0.036 (0.583)	TLF*	6	167.50 ± 7.58	155–175	8	167.50 ± 8.45	155–175	-0.095 (0.925)
	BL	7	10.06 ± 0.44	9.45–10.71	8	10.32 ± 0.30	9.88–10.76	-1.345 (0.201)
	BW	7	8.82 ± 0.36	8.39–9.21	8	8.84 ± 0.44	8.30–9.48	-0.077 (0.939)
	BH	7	8.05 ± 0.25	7.71–8.34	8	8.27 ± 0.23	8.02–8.59	-1.733 (0.106)
	TA*	7	23.92 ± 0.89	22.14–24.74	8	23.09 ± 3.24	15.38–25.20	0.711 (0.489)
	TL	7	73.11 ± 2.58	69.10–75.25	8	71.90 ± 4.14	64.43–77.28	0.668 (0.515)
	WL	7	73.22 ± 1.62	70.07–75.25	8	73.71 ± 2.29	71.41–77.22	-0.460 (0.653)
	BM	7	29.57 ± 1.62	28–32	8	27.50 ± 2.33	24–31	1.969 (0.070)
PNEM								
0.223 (0.095)	TLF*	4	161.25 ± 4.79	155–165	6	164.17 ± 8.61	155–180	-0.597 (0.566)
	BL	4	10.20 ± 0.27	9.92–10.56	6	10.16 ± 0.16	9.98–10.42	0.268 (0.795)
	TA*	4	22.29 ± 1.03	20.92–23.33	6	23.43 ± 0.50	22.43–23.82	<b>-2.335 (0.047)</b>
	TL	4	68.02 ± 3.79	62.54–70.98	6	69.95 ± 3.17	64.61–74.2	-0.877 (0.405)
	WL	4	64.75 ± 1.63	63.62–67.17	6	70.93 ± 3.19	65.25–74.66	<b>-3.528 (0.007)</b>
	BM	4	26.75 ± 2.63	24.50–30.50	6	27.25 ± 1.57	25.5–30	0.380 (0.713)
PGSV								
0.082 (0.199)	TLF*	8	165 ± 6.55	155–175	19	168.16 ± 6.06	155–180	-1.212 (0.236)
	BL	8	10.81 ± 0.51	10.11–11.56	19	10.71 ± 0.51	9.87–11.58	0.465 (0.645)
	BW	8	8.87 ± 0.31	8.39–9.45	19	8.98 ± 0.25	8.42–9.37	-0.983 (0.334)
	BH	8	8.37 ± 0.26	7.93–8.85	19	8.43 ± 0.30	7.95–9.06	-0.460 (0.648)
	TA	8	24.56 ± 0.94	22.79–25.93	19	24.23 ± 0.81	22.41–25.53	0.943 (0.354)
	TL	8	72.31 ± 2.82	67.39–77.16	19	74.55 ± 3.01	70.11–81.39	-1.802 (0.083)
	WL	8	72.24 ± 1.65	69.30–74.57	19	75.32 ± 2.02	72.14–79.31	<b>-3.785 (&lt;0.001)</b>
	BM*	8	29.75 ± 2.19	27–33	19	29.42 ± 1.61	27–32	0.397 (0.694)
PATO								
<b>0.382 (0.002)</b>	TLF	8	161.88 ± 4.58	155–170	8	169.38 ± 4.17	165–175	<b>-3.612 (0.003)</b>
	BL	9	10.12 ± 0.52	9.41–10.87	8	10.28 ± 0.64	9.48–11.27	-0.569 (0.578)
	BW	9	8.50 ± 0.26	8.19–8.94	8	8.55 ± 0.31	7.88–8.88	-0.371 (0.716)
	BH	9	8.35 ± 0.43	7.75–9.18	8	8.17 ± 0.24	7.76–8.45	1.049 (0.311)
	TA	9	23.46 ± 0.87	22.24–25.32	8	23.50 ± 0.55	22.66–24.14	-0.124 (0.903)
	TL	9	68.13 ± 2.47	64.60–71.61	8	71.02 ± 2.39	67.91–75.24	<b>-2.446 (0.027)</b>
	WL	9	69.90 ± 1.36	68.41–72.60	8	73.97 ± 2.10	70.87–77.71	<b>-4.796 (&lt;0.001)</b>
	BM	9	27.78 ± 1.20	26–30	8	29.63 ± 1.06	28–31	<b>-3.340 (0.004)</b>

**Table S1.** Continuation.

Sample locality	Measure	Females			Males			t (P)
		N	mean ± SD	Min–Max	N	mean ± SD	Min–Max	
PNCG								
	TLF	1	150	150	1	160	160	
	BL	2	10.50 ± 0.13	9.96–10.14	1	8.95	8.95	
	BW	2	8.72 ± 0.25	8.54–8.90	1	7.32	7.32	
	BH	2	7.66 ± 0.14	7.56–7.76	1	5.88	5.88	
	TA	2	23.33 ± 0.13	23.24–23.42	1	24	24	
	TL	1	61.74	61.74	1	64.38	64.38	
	WL	2	67.10 ± 0.93	66.44–67.76	1	71.08	71.08	
PNSC								
	TLF	4	170.75 ± 3.38	165–178	3	168.33 ± 1.67	165–170	
	BL	4	10.67 ± 0.42	9.74–11.78	3	10.38 ± 0.16	10.06–10.56	
	BW	4	8.49 ± 0.19	8.02–8.93	3	8.78 ± 0.31	8.42–9.39	
	BH	4	8.52 ± 0.26	7.93–9.14	3	8.9 ± 0.23	7.84–8.58	
	TA	4	23.99 ± 0.11	23.8–24.26	3	24.56 ± 0.13	24.30–24.73	
	TL	4	71.28 ± 0.79	69.89–73.05	3	72.70 ± 0.31	72.33–73.32	
	WL	4	73.27 ± 0.68	72.17–75.12	3	74.48 ± 0.36	74.10–75.19	
	BM	4	30 ± 0.41	29–30	3	32.17 ± 1.42	30.5–35	

**Table S2.** Cross-validation results of the Discriminant Analysis of sexual size dimorphism of the White-banded Tanager (*Neothraupis fasciata*) considering a set of five morphometric variables (total length with feathers, tarsus length, tail length, wing length, and body mass) of individuals with sex determined by molecular sexing. Sample size (N) and number of individuals correctly assigned are given per locality (Overall) and sex.

Locality	N	Overall	Females	Males
APA Gama and Cabeça de Veado	15	10 (66.7%)	05 (62.5%)	05 (71.4%)
Emas National Park	10	08 (80.0%)	04 (66.7%)	04 (100%)
Grande Sertão Veredas National Park	27	21 (77.8%)	06 (60.0%)	15 (88.2%)
Ponte Alta do Tocantins	17	14 (82.4%)	07 (87.5%)	07 (77.8%)



**Figure S1.** Discriminant Analysis of morphometric variables of adult male and female White-banded Tanagers (*Neothraupis fasciata*) captured in four different localities in the Brazilian Cerrado: A) APA Gama and Cabeça de Veado; B) Emas National Park; C) Grande Sertão Veredas National Park; and D) Ponte Alta do Tocantins. On left: histogram of discriminant scores of males (grey bars) and females (black bars). On right: loading scores for Axis 1 given separately for each sampling locality. TLF: total length with feathers; TA: tarsus length, TL: tail length, WL: wing length; BM: body mass.