

**Citizen science monitoring reveals a significant, ongoing decline of the  
Endangered Carnaby's black-cockatoo *Calyptorhynchus latirostris***

MATTHEW R. WILLIAMS, COLIN J. YATES, WILLIAM D. STOCK  
GEOFF W. BARRETT and HUGH C. FINN

Table S1 Numbers of Carnaby's black-cockatoo *Calyptorhynchus latirostris* counted at the 42 roost sites in the Swan Coastal Plain region of Western Australia that account for 95% of the total records during five annual surveys (the Great Cocky Count), 2010–2014. Blank cells indicate counts were not conducted at the site.

Site <sup>1</sup>	Number counted						Cumulative % of total
	2010	2011	2012	2013	2014	Total	
1	392	378	432	686	879	2,767	10.5
2			853	35	1,521	2,409	19.7
3	408	645	558	301	402	2,314	28.4
4	700	60	142	127	234	1,263	33.2
5			387		782	1,169	37.7
6	500	41	0	20	480	1,041	41.6
7	542	152	10	16	147	867	44.9
8	237	151	148	157	159	852	48.1
9	371	199	11	0	257	838	51.3
10	0			800	0	800	54.4
11	0		7	573	200	780	57.3
12	73	103	304	183	114	777	60.3
13	342	305	129	0	0	776	63.2
14		312	276	0	138	726	66.0
15	604	0	0	0	0	604	68.3
16		16	0	564	0	580	70.5
17	0	169	215	0	168	552	72.6
18	61				450	511	74.5
19	0	230	0	267	0	497	76.4
20			66	330	19	415	78.0
21	346					346	79.3
22	117	130	80	0	9	336	80.6
23	0	2		323	0	325	81.8
24	275				0	275	82.8
25	113	119	0	30	0	262	83.8
26	0	80	0	0	181	261	84.8
27	252	0				252	85.8
28		56	81	70	41	248	86.7
29				121	92	213	87.5
30		0	0	192	0	192	88.3
31				191	0	191	89.0
32	185	0		0	0	185	89.7
33	159			0	24	183	90.4
34	167	0	0	0	0	167	91.0
35	49	92				141	91.6

36	0	40	0	92	0	132	92.1
37	40	90	0	0	0	130	92.6
38			0	103	20	123	93.0
39	0	110		0	0	110	93.4
40	0			100	3	103	93.8
41				100	0	100	94.2
42	100		0		0	100	94.6
Occupied roosts	22	22	16	23	22	42	
Total count	6,033	3,480	3,699	5,381	6,320	24,913	
% of grand total <sup>2</sup>	95.3	89.0	95.6	96.9	94.7	94.6	

<sup>1</sup>Ranked in order of total count

<sup>2</sup>The grand total is the total count across all survey sites, for each year and for all 5 years (Table S2)

Table S2 Numbers of Carnaby's black-cockatoo counted at the 38 roost sites in the Swan Coastal Plain region of Western Australia that account for the remaining 5% of the total records during five annual surveys (the Great Cocky Count), 2010–2014. Blank cells indicate counts were not conducted at the site.

Site <sup>1</sup>	Number counted					Total	Cumulative % of total
	2010	2011	2012	2013	2014		
43	45	3	0	0	50	98	95.0
44	0	0	12	0	70	82	95.3
45		78	0	4	0	82	95.6
46		69	13			82	95.9
47			26	52	0	78	96.2
48	0	0	0	0	68	68	96.4
49			15	50	0	65	96.7
50	63	0	0	1	0	64	96.9
51	64	0	0	0	0	64	97.2
52			60	0	0	60	97.4
53	0	60		0	0	60	97.6
54					53	53	97.8
55			35	10	0	45	98.0
56		40	0		0	40	98.2
57					40	40	98.3
58	0	35	0	0	0	35	98.4
59	31	0		0	0	31	98.6
60		30		0	0	30	98.7
61		29			0	29	98.8
62	27	0	0	0	0	27	98.9
63	0		1	17	7	25	99.0
64	2			0	19	21	99.1
65				21	0	21	99.1
66	0	20		0		20	99.2
67	0	19			0	19	99.3
68	15	3				18	99.4
69	12	0	0	0	5	17	99.4
70	0	11	6	0	0	17	99.5
71		16		0		16	99.5
72	13	0	0	0	2	15	99.6
73	14	0	0	0	0	14	99.7
74					14	14	99.7
75	0	14	0	0	0	14	99.8
76	0	0	0	9	0	9	99.8
77	8	0	0	0	0	8	99.8
78	0		2	3	3	8	99.9
79					7	7	99.9
80	0		0	0	6	6	99.9
81				5	0	5	99.9
82		5	0	0	0	5	99.9
83			0	0	3	3	100.0
84					2	2	100.0

85	0	0	0	0	2	2	100.0
86	0	0	0	2		2	100.0
87	2	0	0	0	0	2	100.0
88			2			2	100.0
89	1	0	0			1	100.0
Occupied roosts	13	15	10	11	16	47	
Total count	297	432	172	174	351	1426	
% of grand total	4.7	11.0	4.4	3.1	5.3	5.4	
Grand total <sup>2</sup>	6,330	3,912	3,871	5,555	6,671	26,339	

<sup>1</sup>Ranked in order of total count

<sup>2</sup>The total count across all survey sites, for each year and for all 5 years