

THE 2005 AND 2006 NORTH AMERICAN BREEDING BIRD CENSUS WITH ADDITIONS FOR 2003 AND 2004

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Abstract. The Breeding Bird Census (BBC) is the longest, continuously-run bird monitoring program in North America. Here we publish BBC reports for 2005 and 2006, with an additional nine reports from 2003 and 2004 that were not included in the previous publication (Gardali and Lowe 2007) due to late submission. Breeding Bird Censuses were conducted at 21 sites in 2005 and 20 in 2006.

EL CENSO DE AVES REPRODUCTORAS DE NORTEAMERICA DE 2005 Y 2006, CON DATOS ADICIONALES DE 2003 Y 2004

Resumen. El Censo de Aves Reproductoras (BBC) es el programa de monitoreo de aves continuo más longevo de Norteamérica. Publicamos los informes del BBC para 2005 y 2006, con nueve informes adicionales de 2003 y 2004 que no se incluyeron en la anterior publicación (Gardali y Lowe 2007) por retrasos en su elaboración. Se llevaron a cabo conteos del BBC en 21 sitios en 2005, y 20 en 2006.

INTRODUCTION

The Breeding Bird Census (BBC) is the breeding season component of the Resident Bird Counts (RBC), which also include the Winter Bird Population Study. The BBC uses the spot- or territory-mapping method to estimate densities of breeding birds. More information on methods, history, and uses of BBC data can be found in Lowe (2006).

A total of 41 BBC reports were submitted for 2005 and 2006, similar to 2003 and 2004 (47 reports) but down considerably from 2001 and 2002 (68 reports). The length of effort among censuses ranges from new to 47 yr with the majority being > 30 yr.

Two reports from 2003 and 2004 are also included herein as they were received too late for publication in *Bird Populations* 8.

Please contact Tom Gardali (tgardali@prbo.org) for BBC instructions and data forms. To understand layout of the reports, see Gardali and Lowe (2006).

THE 2003 AND 2004 BREEDING BIRD CENSUS

Here, for years 2003 and 2004, we add an additional two reports (Table 1), which were submitted too late for inclusion in volume 8 of *Bird Populations*. These two reports are from

California and they raise the total reports for 2001 and 2002 to 22 and 25, respectively.

plot (2006, report #10) being published for the first time.

THE 2005 AND 2006 BREEDING BIRD CENSUS

A total of 41 Breeding Bird Census reports are included, 21 in 2005 and 20 in 2006 (Tables 2 and 3). The counts come from 7 U.S. states, 1 Canadian province, and the District of Columbia. Similar to 2003 and 2004, California, Connecticut, and Ontario each had the most counts; 7 in 2005 and 8 in 2006 in California, 5 in 2005 and 5 in 2006 in Connecticut, and 3 in 2005 and 3 in 2006 in Ontario. Included here is one

LITERATURE CITED

GARDALI, T., AND J. D. LOWE. 2006. Reviving resident bird counts: the 2001 and 2002 Breeding Bird Census. *Bird Populations* 7: 90-95.

GARDALI, T., AND J. D. LOWE. 2007. The 2003 and 2004 North American Breeding Bird Census with additions for 2001 and 2002. *Bird Populations* 8:116-120.

LOWE, J. D. 2006. An annotated bibliography of Breeding Bird Census publications. *Bird Populations* 7:128-135.

TABLE 1. Summary of Breeding Bird Census reports from 2003 and 2004 for sites not included in Gardali and Lowe (2007).

Habitat (Year)	State/ Prov.	Author(s)	Plot Size (ha)	Terr. per 40 ha	Num. spp.	Hrs. Obs.	Yrs. Study
Non-forested Wetlands (2003)							
22. Desert Riparian-Freshwater Marsh	CA	E. A. Cardiff	15.4	356	30	26.0	26
Non-forested Wetlands (2004)							
25. Desert Riparian-Freshwater Marsh	CA	E. A. Cardiff	15.4	332	29	24.5	27

TABLE 2. Summary of Breeding Bird Census reports from 2005.

Habitat	State/ Prov.	Author(s)	Plot Size (ha)	Terr. per 40 ha	Num. spp.	Hrs. Obs.	Yrs. Study
Broadleaf Forests							
1. Mixed Hardwood Poletimber	CT	D. Rosgen	8.5	586	51	19.0	39
2. Second-Growth Hardwood Forest	CT	D. Rosgen	10.1	269	38	15.0	39
3. Mixed Upland Broadleaf Forest	DC	M.E. D'Imperio	14.2	321	28	35.0	47
4. Red Oak-Ironwood Savannah	ON	B. Gendreau	12.0	457	30	34.5	7
5. Red Oak-Sugar Maple Savannah	ON	B. Gendreau	10.5	623	31	36.7	6
6. Oak-Maple-Poplar Hollow	PA	L. Ingram	11.3	71	9	17.7	13
7. Virgin Hardwood Swamp Forest	SC	M. Dawson	8.9	393	19	11.4	14
8. Mature Maple-Beech-Birch Forest	TN	H. Wilson et al.	10.2	216	9	21.2	13
Needleleaf Forests							
9. Tamarack Slough	ON	C. Friis	8.8	627	34	26.4	9
Broadleaf/Needleleaf Forests							
10. Climax Hemlock-White Pine Forest with Transition Hardwoods	CT	D. Rosgen	10.5	371	36	20.0	39
11. Young Mixed Hardwood-Conifer Stand	CT	D. Rosgen	8.5	306	38	12.0	28
12. Riparian Woodland	ID	S.R. Robinson	8.9	200	20	14.0	9
Mixed Habitats							
13. Riparian Scrub Basin	CA	M. Aimar	12.7	526	25	22.1	2
14. Streamside Riparian Woodland I	CA	T. Reeser	17.8	213	21	26.5	2
15. Streamside Riparian Woodland II	CA	S. Hoffman	12.3	429	32	19.1	2
16. Forest Wetland and Bordering Cliff and Talus	NY	L. Bowdery et al.	22.3	105	30	27.2	3
Non-forested Wetlands							
17. Desert Riparian-Freshwater Marsh	CA	E.A. Cardiff	15.4	358	35	28.0	28
18. Shrubby Swamp & Sedge Hummocks	CT	D. Rosgen	8.1	1032	48	26.0	39
Shrublands							
19. Coastal Scrub	CA	S. Jennings	8.1	311	19	201.6	31
20. Disturbed Coastal Scrub A	CA	C. Snow, S. Jennings	4.7	357	28	149.0	31
21. Disturbed Coastal Scrub B	CA	K. Neijstrom, S. Jennings	8.1	356	22	211.3	31

TABLE 3. Summary of Breeding Bird Census reports from 2006.

Habitat	State/ Prov.	Author(s)	Plot Size (ha)	Terr. per 40 ha	Num. spp.	Hrs. Obs.	Yrs. Study
Broadleaf Forests							
1. Mixed Hardwood Poletimber	CT	D. Rosgen	8.5	621	50	19.0	40
2. Second-Growth Hardwood Forest	CT	D. Rosgen	10.1	277	39	14.5	40
3. Hardwood Swamp Forest	SC	M.R. Dawson	8.1	375	19	13.7	14
4. Mature Maple-Beech-Birch Forest	TN	L.M. Lewis	10.2	161	8	13.3	14
Broadleaf/Needleleaf Forests							
5. Climax Hemlock-White Pine Forest with Transition Hardwoods	CT	D. Rosgen	10.5	381	42	21.0	40
6. Young Mixed Hardwood-Conifer Stand	CT	D. Rosgen	8.5	322	35	11.0	29
7. Riparian Woodland	ID	S.R. Robinson	8.9	227	20	11.8	10
8. Mixed Upland Forest	NY	L. Bowdery et al.	42.3	171	43	33.1	8
8. Intergrading Dune-Swale Savannah	ON	C-A. Wegenschimmel	11.0	135	11	49.7	9
Mixed Habitats							
10. Riparian Scrub	CA	J. Coumoutso	14.6	205	19	16.8	New
11. Riparian Scrub Basin	CA	M. Aimar	12.7	485	28	20.2	3
12. Streamside Riparian Woodland I	CA	T. Reeser	17.8	352	24	38.8	3
13. Streamside Riparian Woodland III	CA	S. Hoffman	12.3	493	31	27.0	3
14. Field, Ridge, Shrubby Trees, and Woods	ON	M.F.G. Clark	5.8	641	16	12.1	11
15. Sedge-Tamarack Dune Pond	ON	M. Boyd	10.0	420	25	39.5	5
Non-forested Wetlands							
16. Desert Riparian-Freshwater Marsh	CA	E.A. Cardiff	15.4	436	31	25.5	29
17. Shrubby Swamp and Sedge Hummocks	CT	D. Rosgen	8.1	1007	52	27.0	40
Shrublands							
18. Coastal Scrub	CA	J. Musina et al.	8.1	212	21	236.4	32
19. Disturbed Coastal Scrub A	CA	E. Porzig, S. Jennings	4.7	277	31	143.5	32
20. Disturbed Coastal Scrub B	CA	S. Jennings	8.1	259	24	203.9	32