

BREEDING BIRD CENSUS: 2003

1. MIXED HARDWOOD POLETIMBER BOSQUE MIXTO MADERERO

DAVID ROSGEN
White Memorial Conservation Center
P.O. Box 368
Litchfield CT 06759

Site Number: CT1265009. **Location:** Connecticut; Litchfield Co.; Litchfield; White Memorial Foundation-Wheeler Hill; 41°42'N, 73°13'W; Litchfield Quadrangle, USGS. **Continuity:** Established 1965; 37 yr. **Size:** 8.5 ha. **Description of Plot:** See *Aud. Field Notes* 19:609-610 (1965) and *J. Field Ornithol.* 64(Suppl.):36 (1993). The plot suffered some tree damage from the November, 2002 ice storm. In addition, a small portion of the plot received a carefully managed hardwood saw timber harvest. The area to the west of the plot also had hardwoods harvested from it during the winter. The entire plot suffered from noticeable browsing by deer throughout the breeding season, which stripped away some of the ground cover that would have otherwise protected some nesting birds. **Weather:** Mean start temp., 23.5°C (range 16-32°C). During May, the weather was awful. Rain fell on all, or part of, 20 days, amounting to a total of 13.6 cm. This is 2.8 cm above normal. Temperatures were cooler than normal, with a mean of 12.4°C. Flooding was a problem. During June, there were 18 days with at least some rainfall. The total of 20 cm of rain was well above average. June's average mean temperature was 17.9°C, which is near normal. Flooding continued to be a problem through the 22nd, when it subsided. July had only 12 days with rain or showers. Total rainfall was 9.7 cm, which is less than normal. The average mean temperature was 20.7°C. **Coverage:** 22.0 h; 12 visits (1 sunrise, 5 sunset); 2, 15, 27 May; 3, 10, 17, 24 June; 1, 8, 15, 24, 31 July, 2003. Maximum number of observers/visit, 3. **Census:** Red-eyed Vireo, 12.5 (59; 23FL); Ovenbird, 12.0 (56; 16FL); Gray Catbird, 11.0 (52; 5N,28FL); Veery, 10.5 (49; 23FL); Eastern Towhee, 9.0 (42; 1N,25FL); Wood Thrush, 6.0 (28; 14FL); American Redstart, 5.0 (24; 1N,17FL); Common Yellowthroat, 4.5 (21; 5FL); Tufted Titmouse, 4.0 (19; 17FL); American Robin, 4.0 (2N,15FL); Scarlet Tanager, 4.0 (9FL); Black-capped Chickadee, 3.5 (16;

17FL); Black-and-white Warbler, 3.5 (8FL); Chestnut-sided Warbler, 3.0 (14; 4FL); Northern Cardinal, 3.0 (1N,8FL); Blue Jay, 2.5 (5FL); American Crow, 2.0 (2N,8FL); Yellow Warbler, 2.0 (6FL); Wild Turkey, 1.5 (9FL); Downy Woodpecker, 1.5 (1N,5FL); Eastern Wood-Pewee, 1.5; Great Crested Flycatcher, 1.5; American Goldfinch, 1.5; Mourning Dove, 1.0; Barred Owl, 1.0 (3FL); Red-bellied Woodpecker, 1.0 (3FL); Eastern Phoebe, 1.0 (4FL); White-breasted Nuthatch, 1.0 (5FL); Blue-gray Gnatcatcher, 1.0 (2FL); Rose-breasted Grosbeak, 1.0; Cooper's Hawk, 0.5 (3FL); Hairy Woodpecker, 0.5; Pileated Woodpecker, 0.5; Eastern Kingbird, 0.5; Warbling Vireo, 0.5 (3FL); Cedar Waxwing, 0.5 (2FL); Song Sparrow, 0.5; Common Grackle, 0.5 (2FL); Brown-headed Cowbird, 0.5 (2FL); Baltimore Oriole, 0.5 (1N,3FL); House Finch, 0.5; Broad-winged Hawk, +; Red-tailed Hawk, +; Northern Flicker, +; Yellow-throated Vireo, +; Blue-winged Warbler, +; Magnolia Warbler, +; Black-throated Green Warbler, +; Chipping Sparrow, +; Purple Finch, +. **Total:** 50 species; 122.0 territories (574/40 ha). **Visitors:** Fish Crow, House Wren, Hermit Thrush. **Remarks:** The number of species breeding in the plot remained at last year's record high of 50. Species composition was similar to last year, except for the loss of Ruffed Grouse and Hermit Thrush and the addition of Magnolia Warbler and Purple Finch. The number of territories in the plot declined to 122.0 this year. Though this is 17.5 fewer than last year, it is still well above the 10-year average of 101.5 territories, and it is the second highest number ever recorded in this plot. Species that increased by one-half or more territories this year included Gray Catbird (+ 3.0), Scarlet Tanager (+ 1.0), Red-eyed Vireo, Veery, Common Yellowthroat, and American Goldfinch (each + 0.5). Northern Cardinal and Chestnut-sided Warbler each declined sharply for no apparent reason. The former was down 3.5 territories from last year, while the latter was down by 3.0 territories. On most of our visits, we saw at least seven deer. Evidence of bobcat and coyote was apparent. Coupled with the territorial raptors in the plot, these predators probably took a toll on nesting songbirds. **Other Observers:** Eric Adam, John Eykelhoff, Rich Kania, Marie Kennedy, and Leann Marshal.

2. SECOND-GROWTH HARDWOOD FOREST BOSQUE SECUNDARIO DE MADERAS DURAS

DAVID ROSGEN
White Memorial Conservation Center
P.O. Box 368
Litchfield CT 06759

Site Number: CT2765006. **Location:** Connecticut; Litchfield Co.; Morris; White Memorial Foundation–Van Winkle Road; 41°42'N, 73°12'W; Litchfield Quadrangle, USGS. **Continuity:** Established 1965; 37 yr. **Size:** 10.1 ha. **Description of Plot:** See *Aud. Field Notes* 19:590–591 (1965) and *J. Field Ornithol.* 64(Suppl.):37–38 (1993). Small stream flooding caused some damage to vegetation this year. Seven trees were blown down, also. **Weather:** Mean start temp., 23.5°C (range 18–30°C). During May, the weather was awful. Rain fell on all, or part of, 20 days, amounting to a total of 13.6 cm. This is 2.8 cm above normal. Temperatures were cooler than normal, with a mean of 12.4°C. Flooding was a problem. During June, there were 18 days with at least some rainfall. The total of 20 cm of rain was well above average. June's average mean temperature was 17.9°C, which is near normal. Flooding continued to be a problem through the 22nd, when it subsided. July had only 12 days with rain or showers. Total rainfall was 9.7 cm, which is less than normal. The average mean temperature was 20.7°C. **Coverage:** 18.5 h; 10 visits (1 sunrise, 6 sunset); 9, 20, 30 May; 9, 19 June; 1, 10, 17, 26, 31 July, 2003. Maximum number of observers/visit, 3. **Census:** Red-eyed Vireo, 15.0 (59; 2N,19FL); Ovenbird, 13.5 (53; 20FL); Veery, 12.5 (50; 1N,23FL); Wood Thrush, 3.5 (14; 1N,4FL); American Robin, 3.5 (1N,15FL); American Redstart, 3.5 (10FL); Scarlet Tanager, 3.5 (5FL); Yellow-bellied Sapsucker, 3.0 (12; 1N,7FL); Eastern Wood-Pewee, 3.0 (4FL); American Crow, 3.0 (3N,12FL); Tufted Titmouse, 3.0 (18FL); Black-capped Chickadee, 2.5 (13FL); Wild Turkey, 2.0 (7FL); Downy Woodpecker, 2.0 (1N,6FL); Great Crested Flycatcher, 2.0 (2FL); White-breasted Nuthatch, 2.0 (9FL); Gray Catbird, 2.0 (1N,3FL); Northern Cardinal, 2.0 (1N,5FL); Red-bellied Woodpecker, 1.5 (1N,5FL); Blue Jay, 1.5 (4FL); Blue-gray Gnatcatcher, 1.5 (1N,3FL); Black-and-white Warbler, 1.5; American Goldfinch, 1.5; Hairy Woodpecker, 1.0 (2FL); Eastern Phoebe, 1.0 (8FL); Cedar Waxwing, 1.0; Eastern Towhee, 1.0 (2FL); Chipping Sparrow, 1.0; Rose-breasted Grosbeak, 1.0; Brown-headed Cowbird, 1.0 (2FL); Barred Owl, 0.5 (1FL); Eastern Kingbird, 0.5; Yellow-throated Vireo, 0.5; Brown Creeper, 0.5; Louisiana Waterthrush, 0.5; Common Yellowthroat, 0.5; Baltimore Oriole, 0.5; Broad-winged Hawk, +; Mourning Dove, +; Ruby-throated Hummingbird, +; Chestnut-sided Warbler, +. **Total:** 41 species; 99.5 territories (394/40 ha). **Visitors:** Northern Flicker, Pileated Woodpecker, Blue-winged Warbler, Black-throated Blue Warbler,

Pine Warbler. **Remarks:** The number of breeding species declined to 41 (from 46 last year, 42 in 2001, and 47 in 2000). This is three less than the 10-yr average of 44. Species found this year but not last year included Broad-winged Hawk, Ruby-throated Hummingbird, and Brown Creeper. Most of the species found in very limited numbers last year (such as Cooper's Hawk and Hermit Thrush) were missed this year. The number of territorial males increased slightly this year to 99.5; last year, the number was 99.0. These figures are very close to the 10-yr average of 101.0 territorial males. During this time, there has been little deviation from this number. Nor has there been much of a change among the top three most abundant species (Red-eyed Vireo, Ovenbird, and Veery); all three increased in abundance. Other species that increased included American Crow (which doubled in number), White-breasted Nuthatch, Northern Cardinal, and Blue-gray Gnatcatcher. Species that declined by one or more territories included American Robin, Great Crested Flycatcher, and Gray Catbird. **Other Observers:** Eric Adam, John Eykelhoff, Lukas Hyder, Marie Kennedy, and Ed Yescott.

3. MIXED UPLAND BROADLEAF FOREST BOSQUE MIXTO DE HOJA ANCHA DE ALTURAS

MARY E. D'IMPERIO
4000 Cathedral Ave. NW, #106B
Washington DC 20016

Site Number: DC1060009. **Location:** District of Columbia; Washington; Glover-Archbold Park; 38°55'N, 77°5'W; Washington West Quadrangle, USGS. **Continuity:** Established 1959; 45 yr. **Size:** 14.2 ha. **Description of Plot:** See *Aud. Field Notes* 14:502–503 (1960). **Weather:** Mean start temp., 16.7°C (range 7–21°C). Nine days were clear, eight were partly cloudy, and eight were cloudy. There was light drizzle during one visit and some fog during another. May and June were very rainy and cold in general with standing water in many places in the woods and many mosquitoes. **Coverage:** 50.0 h; 25 visits (25 sunrise); 29 Mar; 2, 6, 12, 19, 27, 30 Apr; 4, 7, 12, 19, 22, 25, 30 May; 3, 6, 9, 12, 15, 21, 25, 28 June; 4, 9, 13 July, 2003. **Census:** Red-bellied Woodpecker, 12.0 (34); Veery, 11.0 (31; 3FL); Gray Catbird, 11.0 (4FL); Northern Cardinal, 10.0 (28; 6FL); Red-eyed Vireo, 9.0 (25); Carolina Wren, 9.0 (8FL); White-breasted Nuthatch, 8.0 (23; 3FL); Downy Woodpecker, 7.0 (20; 29FL); Tufted Titmouse, 7.0 (2FL); Northern Flicker, 6.0 (17); Acadian Flycatcher, 6.0; Eastern Wood-Pewee, 4.0 (11); Hairy Woodpecker, 3.0 (8; 1FL); House Finch, 3.0 (1N); Song Sparrow, 2.5; Pileated Woodpecker, 2.0; Great Crested Flycatcher, 2.0; American Crow, 2.0; House Wren, 2.0 (2FL); Eastern Towhee, 2.0 (6FL); Common Grackle, 2.0; House

Sparrow, 2.0 (2N,1FL); Chimney Swift, 1.0; Blue-gray Gnatcatcher, 1.0 (2FL); Wood Thrush, 1.0; Red-shouldered Hawk, 0.5; Northern Mockingbird, 0.5 (3FL); European Starling, 0.5 (2N,7FL); Mourning Dove, +. **Total:** 29 species; 127.0 territories (358/40 ha). **Visitors:** Mallard, Green Heron, Yellow-billed Cuckoo, Barred Owl, Ruby-throated Hummingbird, White-eyed Vireo, Blue Jay, Fish Crow, Carolina Chickadee, American Robin, American Redstart, Ovenbird, Louisiana Waterthrush, Common Yellowthroat, Scarlet Tanager, Field Sparrow, Indigo Bunting, Brown-headed Cowbird, American Goldfinch. **Remarks:** An unusual year, in terms of weather, following a very severe winter. There were consistently fewer birds in general. Very few crows were seen, with only two possible territories compared to the usual 5-7, and no evidence of nests or young. There were relatively few Blue Jays or Carolina Chickadees. These birds may have been lost due to West Nile Virus. Carolina Wrens were greatly reduced (9.0 territories this year compared to 30.0 last year), probably due to the severe winter. Wood Thrushes were also reduced (1.0 territory this year compared to 6.0 last year). Resurfacing on 42nd Street all spring and early summer and masonry work on an apartment building on W Street seemed to drive away many birds trying to set up territories along the woodland edge there. **Other Observers:** Neal Fitzpatrick and Bob Norris.

4. MATURE BROADLEAF FOREST BOSQUE DE HOJA ANCHA MADURA

CHARLES W. SAUNDERS*, STEVE PELIKAN &
LAUREN P. SAUNDERS
*5561 Carlsbad Court
Fairfield OH 45014

Site Number: OH1591043. **Location:** Ohio; Hamilton Co.; Hooven; Miami Whitewater Forest; 39°14'42"N, 84°45'38"W; Hooven Quadrangle, USGS. **Continuity:** Established 1991; 9 yr. **Size:** 16.0 ha. **Description of Plot:** See *J. Field Ornithol.* 63(Suppl.):52 (1992) and 65(Suppl.):59 (1994). **Weather:** Mean start temp., 15.0°C (range 9–22°C). Six days were calm (0 on Beaufort scale), three days had light winds (1 or 2 on Beaufort), and one day was breezy (3 on Beaufort). **Coverage:** 21.4 h; 10 visits (10 sunrise); 24, 25, 31 May; 1, 7, 20, 21, 26, 28 June; 3 July, 2003. Maximum number of observers/visit, 3. **Census:** Wood Thrush, 14.0 (35; 2FL); Red-eyed Vireo, 11.5 (29); Acadian Flycatcher, 9.5 (24); Eastern Wood-Pewee, 5.5 (14); Red-bellied Woodpecker, 4.5 (11); Scarlet Tanager, 4.0 (10); Brown-headed Cowbird, 4.0 (3FL); Tufted Titmouse, 3.5 (9); White-breasted Nuthatch, 3.5; Northern Cardinal, 3.5 (3FL); Blue Jay, 3.0 (8); Carolina Chickadee, 2.5; Downy Woodpecker, 2.0; Hairy Woodpecker, 2.0; Great Crested Flycatcher, 2.0;

Ovenbird, 2.0; Blue-gray Gnatcatcher, 1.5; American Robin, 1.5 (11FL); Kentucky Warbler, 1.5; Ruby-throated Hummingbird, 1.0; Northern Flicker, 1.0; Pileated Woodpecker, 1.0 (1FL); Yellow-throated Vireo, 1.0; Carolina Wren, 1.0; Louisiana Waterthrush, 1.0; Rose-breasted Grosbeak, 0.5. **Total:** 26 species; 88.0 territories (220/40 ha). **Visitors:** Wild Turkey, Yellow-billed Cuckoo, American Redstart, Hooded Warbler, Summer Tanager, American Goldfinch. **Remarks:** By comparing 2003 populations with historical data (1991–98), we observed decreases in the populations of more species than expected by chance. In contrast, few species showed a population increase. Regardless of the cause(s) of these declines, we have measured the amount of decline of the woodland birds in the plot, with the total number of territorial males 12% below the 1991-98 average. See Saunders et al. (2005) *Ohio Journal of Science* 105(3):43–45. **Other Observers:** Lester Peyton and Mary Saunders. **Acknowledgments:** We thank John Klein and the Hamilton County Park District for the use of the land.

5. WHITE OAK SAVANNAH SAVANA DE ROBLE BLANCO

MICHAEL F. G. CLARK
101 Governor's Road, #708
Dundas ON L9H 6L7

Site Number: ON2893110. **Location:** Ontario; Municipality of Muskoka; Torrance; Southwood Shield Plateau; 44°56'N, 79°30'W. **Continuity:** Established 1993; 9 yr. **Size:** 10.4 ha. **Description of Plot:** See *J. Field Ornithol.* 65(Suppl.):60–61 (1994). The recent die-off of a considerable number of large white oaks (the plot's dominant species) plus some smaller trees and shrubs likely continues to affect breeding bird numbers. Grass and herbal ground cover were uncharacteristically abundant throughout the plot this year. **Weather:** Mean start temp., 24.1°C (range 19.0–29.5°C). Monthly temperatures were at or very near the norm from May through July. Precipitation was 9% below the norm overall; rainfall was 14% above the 30-year norm in May and 20% below the norm for June and July combined. **Source:** Environment Canada. **Coverage:** 13.9 h; 8 visits (8 sunset); 18 May; 4, 17, 27, 30 June; 3, 4, 13 July, 2003. **Census:** Chipping Sparrow, 10.0 (38); American Robin, 8.0 (31); Field Sparrow, 7.0 (27); Chestnut-sided Warbler, 6.0 (23); Red-eyed Vireo, 4.5 (17); Eastern Towhee, 4.5; Hermit Thrush, 4.0 (15); Yellow-rumped Warbler, 3.0 (12); Common Yellowthroat, 3.0; Song Sparrow, 3.0; Least Flycatcher, 2.0; Cedar Waxwing, 2.0; Common Nighthawk, 1.0; Northern Flicker, 1.0; Brown Thrasher, 1.0; American Redstart, 1.0; White-throated Sparrow, 1.0. **Total:** 17 species; 62.0 territories (238/40 ha). **Visitors:** Ruffed Grouse, Mourning

Dove, Yellow-billed Cuckoo, Hairy Woodpecker, Eastern Wood-Pewee, Yellow-bellied Flycatcher, Great Crested Flycatcher, Black-capped Chickadee, Brown Creeper, Eastern Bluebird, Veery, Vesper Sparrow, Brown-headed Cowbird, Purple Finch, American Goldfinch. **Remarks:** The much lower precipitation in June and July may have resulted in the marked dwindling of late spring-early summer breeding activity. Total territorial males and total species may have "bottomed out" over the past four years at roughly 59 and 18, respectively. In 1995 there were 131.5 territorial males and 25 breeding species. Seedeaters (25.5 territorial males and 5 species) were dominant again this year. The 13 warbler territories (4 species) tied the lowest breeding total over nine years. Despite the sharp overall declines in breeding numbers, thrush (2 species) and vireo (1 species) totals were above their 9-yr averages. The one breeding thrasher, a low for this plot, is 6 territorial males below the average for mimids.

6. OAK-MAPLE-POPLAR HOLLOW

BOSQUE DE ROBLE-ARCE-ALAMO HUECO

LINDA INGRAM

Nolde Forest Environmental Education Center

2910 New Holland Road

Reading PA 19607

Site Number: PA1093123. **Location:** Pennsylvania; Berks Co.; Reading; Nolde Forest, Buck Hollow; 40°17'N, 75°57'W; Reading Quadrangle, USGS. **Continuity:** Established 1993; 11 yr. **Size:** 11.3 ha. **Description of Plot:** See *J. Field Ornithol.* 65(Suppl.):61 (1994). **Weather:** Mean start temp., 11.8°C (range 7–18°C). There were some sprinkles during two visits. Grounds were damp with winds calm to light. May 2003 received near normal precipitation; observers avoided days with heavy rain. Temperatures in May were normal: mean 16.7°C (range 11.1°–22.2°C). Source: National Climatic Data Center, Asheville, NC (2000). **Coverage:** 18.2 h; 10 visits (10 sunrise, 0 sunset); 27, 28, 30 April; 6, 11, 18, 21, 29, 31 May; 11 June, 2003. **Census:** Ovenbird, 6.0 (21); Wood Thrush, 5.0 (18); Red-eyed Vireo, 3.0 (11); Tufted Titmouse, 3.0; Veery, 2.5; American Crow, 1.5; Red-bellied Woodpecker, 1.0; Hairy Woodpecker, 1.0; Pileated Woodpecker, 1.0 (1N); Blue Jay, 1.0; chickadee species, 1.0; Northern Cardinal, 1.0. **Total:** 12 species; 27.0 territories (96/40 ha). **Visitors:** Mourning Dove, Downy Woodpecker, Northern Flicker, Eastern Wood-Pewee, Great Crested Flycatcher, White-breasted Nuthatch, American Robin, Gray Catbird, Scarlet Tanager, Chipping Sparrow, Rose-breasted Grosbeak, American Goldfinch. **Other Observers:** Richard Bonnett, Edward Barrell, Patricia Mangas, Barry Pounder, Phyllis Reynolds, and David Reynolds.

7. VIRGIN HARDWOOD SWAMP FOREST

BOSQUE PANTANOSO VIRGEN DE MADERAS DURAS

MICHAEL DAWSON

Francis Beidler Forest

336 Sanctuary Road

Harleyville SC 29448

Location: South Carolina; Berkeley Co.; Harleyville; Francis Beidler Forest Sanctuary; 33°13'N, 80°20'W; Pringletown Quadrangle, USGS. **Continuity:** Established 1979; 13 yr. **Size:** 8.9 ha. **Description of Plot:** See *Am. Birds* 34:50 (1980) and *J. Field Ornithol.* 65(Suppl.):64 (1994). The plot is continuing to recover from the damage caused by hurricane Hugo in 1989. Scrubby areas are beginning to thin out as saplings increase in height and shade the forest floor. **Weather:** Mean start temp., 15.2°C (range 13–19°C). March, April and May were extremely wet. All surveys were conducted during times without wind. **Coverage:** 15.8 h; 10 visits (10 sunrise, 0 sunset); 22, 29 April; 2, 3, 9, 12, 16, 21, 24, 30 May, 2003. Maximum number of observers/visit, 3. **Census:** Blue-gray Gnatcatcher, 28.0 (126); Northern Parula, 11.5 (52); Tufted Titmouse, 9.0 (40); Carolina Wren, 8.5 (38); Red-eyed Vireo, 7.5 (34); Prothonotary Warbler, 7.0 (31); Northern Cardinal, 7.0; Great Crested Flycatcher, 5.0 (22); White-eyed Vireo, 5.0; Red-bellied Woodpecker, 4.5 (20); Acadian Flycatcher, 3.0 (13); Yellow-billed Cuckoo, 2.0; Hooded Warbler, 2.0; Red-shouldered Hawk, 1.0; Barred Owl, 1.0; Downy Woodpecker, 1.0; Pileated Woodpecker, 1.0; American Crow, 1.0; Swainson's Warbler, 0.5. **Total:** 19 species; 105.5 territories (474/40 ha). **Visitors:** White Ibis, Eastern Screech-Owl, Chimney Swift, Yellow-throated Vireo, Fish Crow, Carolina Chickadee, White-breasted Nuthatch, Wood Thrush, Black-throated Blue Warbler, Yellow-throated Warbler, Common Yellowthroat, Summer Tanager. **Other Observers:** Norman Brunswig, Bettina Miller, and Julia Noran.

8. MATURE MAPLE-BEECH-BIRCH FOREST

BOSQUE MADURO DE ARCE-HAYA-ABEDUL

HAYDEN WILSON & LAURA M. LEWIS*

**Cherokee National Forest*

2800 N. Ocoee Street

Cleveland TN 37312

Site Number: TN2392102. **Location:** Tennessee; Monroe Co.; Whigg Ridge, Cherokee National Forest; 35°19'N, 84°2'W; Big Junction Quadrangle, USGS. **Continuity:** Established 1992; 11 yr. **Size:** 10.2 ha. **Description of Plot:** See *J. Field Ornithol.* 64(Suppl.):57–58 (1993) and 66(Suppl.):63 (1995). **Weather:** Mean start temp., 16.6°C (range 9–25°C). **Coverage:** 16.7 h; 9 visits (5 sunrise, 4 sunset); 1, 2, 10,

11, 15(2), 16 June; 2, 3 July, 2003. **Census:** Veery, 13.5 (53); Dark-eyed Junco, 12.0 (47); Blue-headed Vireo, 5.5 (22); Blackburnian Warbler, 5.5; Ovenbird, 5.0 (20); Black-throated Blue Warbler, 4.0 (16); Hairy Woodpecker, 1.0. **Total:** 7 species; 46.5 territories (182/40 ha). **Visitors:** Ruffed Grouse, Red-eyed Vireo, Tufted Titmouse, Red-breasted Nuthatch, Chestnut-sided Warbler, Rose-breasted Grosbeak. **Remarks:** Flyovers included Chimney Swift and American Goldfinch. **Acknowledgments:** We wish to acknowledge the logistical and financial support of the USDA Forest Service, Cherokee National Forest.

9. WHITE PINE-WHITE CEDAR SAVANNAH SAVANA DE PINO BLANCO-CEDRO BLANCO

MATT TIMPF
Bird Studies Canada
P.O. Box 160

Port Rowan ON NOE 1M0

Location: Ontario; Municipality of Haldimand-Norfolk; Port Rowan; Long Point National Wildlife Area; 42°32'45"N, 80°6'45"W; Gravelly Bay Quadrangle, DEMR. **Continuity:** Established 1973; 8 yr. **Size:** 9.3 ha. **Description of Plot:** See *Am. Birds* 28:1018-1019 (1974), *J. Field Ornithol.* 63(Suppl.):69-70 (1992), 65(Suppl.):72-73 (1994), and 67(Suppl.):57-58 (1996). **Weather:** Mean start temp., 16.3°C (range 12-20°C). **Coverage:** 40.3 h; 10.5 visits (7.5 sunrise, 3 sunset); 6, 7, 10, 15, 17, 20, 22, 24, 25, 26 June, 2003. **Census:** Yellow Warbler, 14.0 (60); House Wren, 8.5 (37); Chipping Sparrow, 7.0 (30; 2FL); Common Yellowthroat, 6.5 (28); Gray Catbird, 5.5 (24); Eastern Towhee, 5.0 (22; 1N,1FL); Eastern Wood-Pewee, 4.5 (19; 3N); Red-eyed Vireo, 4.0 (17; 1N); Northern Cardinal, 2.5; Baltimore Oriole, 2.5 (1N); Great Crested Flycatcher, 2.0; Eastern Kingbird, 2.0 (1N); White-eyed Vireo, 2.0 (1N); Black-capped Chickadee, 2.0 (1FL); Song Sparrow, 2.0; Red-winged Blackbird, 2.0; Carolina Wren, 1.5; Cooper's Hawk, 1.0; Mourning Dove, 1.0; Whip-poor-will, 1.0; Blue Jay, 1.0; Pine Warbler, 1.0; American Redstart, 1.0; Field Sparrow, 1.0; Brown-headed Cowbird, 1.0; American Robin, 0.5 (1FL). **Total:** 26 species, 82.0 territories (353/40 ha). **Visitors:** American Woodcock, Yellow-billed Cuckoo, Red-breasted Nuthatch, Veery, Brown Thrasher, Cedar Waxwing, Nashville Warbler, Black-and-white Warbler, Ovenbird, White-throated Sparrow, Common Grackle, American Goldfinch. **Remarks:** This study is part of a long-term project designed to monitor the response of plant and breeding bird communities to a reduction in deer browsing at Long Point, Lake Erie. **Other Observers:** Taeko Knockaert, John Brett, and Crissy Ranelucci. **Acknowledgments:** Thanks to Jon McCracken for project supervision, Jane Bowles and Michael

Bradstreet for measuring vegetation parameters, and the Canadian Wildlife Service for financial support.

10. CLIMAX HEMLOCK-WHITE PINE FOREST WITH TRANSITION HARDWOODS BOSQUE CLIMAX DE PICEA-PINO BLANCO EN TRANSICION A MADERAS DURAS

DAVID ROSGEN
White Memorial Conservation Center
P.O. Box 368
Litchfield CT 06759

Site Number: CT2765008. **Location:** Connecticut; Litchfield Co.; Litchfield; White Memorial Foundation-Catlin Woods; 41°43'N, 73°12'W; Litchfield Quadrangle, USGS. **Continuity:** Established 1965; 37 yr. **Size:** 10.5 ha. **Description of Plot:** See *Aud. Field Notes* 19:594-595 (1965) and *J. Field Ornithol.* 67(Suppl.):60 (1996). The plot suffered significant tree damage from an ice storm in November 2002 and several subsequent snowstorms. Coupled with blow-downs from storms in previous years, there is now much more undergrowth and regeneration, which is improving habitat diversity. Though the old-growth trees are fewer in number, there are still plenty of them in the plot. Hemlock woolly adelgid has not spread into the forest any further than the edge of Webster Road, and only two additional trees died from it this year. **Weather:** Mean start temp., 21.8°C (range 14-27°C). During May, the weather was awful. Rain fell on all, or part of, 20 days, amounting to a total of 13.6 cm. This is 2.8 cm above normal. Temperatures were cooler than normal, with a mean of 12.4°C. Flooding was a problem. During June, there were 18 days with at least some rainfall. The total of 20 cm of rain was well above average. June's average mean temperature was 17.9°C, which is near normal. Flooding continued to be a problem through the 22nd, when it subsided. July had only 12 days with rain or showers. Total rainfall was 9.7 cm, which is less than normal. The average mean temperature was 20.7°C. **Coverage:** 22.5 h; 10 visits (1 sunrise, 5 sunset); 5, 19, 29 May; 5, 16, 24 June; 3, 12, 18, 25 July, 2003. Maximum number of observers/visit, 3. **Census:** Black-throated Green Warbler, 18.5 (70; 4N,34FL); Ovenbird, 16.0 (61; 2N,22FL); Veery, 14.5 (55; 21FL); Blackburnian Warbler, 14.0 (53; 2N,28FL); Red-eyed Vireo, 13.5 (51; 18FL); Hermit Thrush, 6.0 (23; 14FL); Pine Warbler, 4.5 (17; 9FL); Scarlet Tanager, 4.5 (5FL); Black-capped Chickadee, 4.0 (15; 17FL); Great Crested Flycatcher, 3.5 (13; 7FL); Wood Thrush, 3.5 (2FL); Black-and-white Warbler, 3.5 (3FL); Blue-headed Vireo, 3.0 (11; 3FL); Brown Creeper, 2.5 (9FL); Yellow-rumped Warbler, 2.5 (5FL); Eastern Wood-Pewee, 2.0 (2FL); Blue Jay, 2.0 (7FL); Tufted Titmouse, 2.0 (8FL); Mourning Dove, 1.5; Yellow-bellied Sapsucker, 1.5

(2FL); Northern Cardinal, 1.5 (2FL); Wild Turkey, 1.0; Hairy Woodpecker, 1.0 (2FL); Pileated Woodpecker, 1.0 (2FL); American Crow, 1.0 (1N,4FL); White-breasted Nuthatch, 1.0 (4FL); American Robin, 1.0 (1N,4FL); Common Yellowthroat, 1.0; Canada Warbler, 1.0; Brown-headed Cowbird, 1.0 (1FL); Broad-winged Hawk, 0.5; Great Horned Owl, 0.5 (2FL); Ruby-throated Hummingbird, 0.5 (3FL); Gray Catbird, 0.5 (3FL); Chipping Sparrow, 0.5 (2FL); Purple Finch, 0.5; Downy Woodpecker, +; Red-breasted Nuthatch, +; Louisiana Waterthrush, +; Rose-breasted Grosbeak, +. **Total:** 40 species; 136.5 territories (520/40 ha). **Visitors:** Barred Owl, Northern Flicker, Eastern Phoebe, Yellow-throated Vireo, Blue-gray Gnatcatcher, American Redstart, American Goldfinch. **Remarks:** In spite of increasing habitat diversity in the plot, the number of breeding species dropped back to 40 this year. It hasn't been this low since 1999. Last year 46 species bred here, and the 10-yr average is 43 species. Species found on territory last year but not this year included Magnolia Warbler, Cedar Waxwing, Eastern Kingbird, and Song Sparrow. The only species found this year but not last year were Ruby-throated Hummingbird and Louisiana Waterthrush. This latter species is a new one for the plot. The number of territorial males decreased slightly from 137.0 last year to 136.5 this year, but the total was the third highest ever recorded. The 10-yr average is 123.0 territories. Species that increased by more than one territory this year included Black-throated Green Warbler, Ovenbird, Veery, and Blackburnian Warbler. Species that decreased included Pine Warbler and American Robin. **Other Observers:** Eric Adam, John Eykelhoff, Kathy Hall, Lukas Hyder, Rich Kania, Marie Kennedy, Russ Naylor, and Ed Yescott.

11. YOUNG MIXED HARDWOOD-CONIFER STAND

BOSQUE JOVEN-MIXTO DE MADERAS
DURAS/RODAL DE CONIFEROS

DAVID ROSGEN

White Memorial Conservation Center

P.O. Box 368

Litchfield CT 06759

Site Number: CT2778262. **Location:** Connecticut; Litchfield Co.; Morris; White Memorial Foundation-Pitch Road; 41°42'N, 73°10'W; Litchfield Quadrangle, USGS. **Continuity:** Established 1978; 26 yr. **Size:** 8.5 ha. **Description of Plot:** See *Am. Birds* 33:72 (1979). **Weather:** Mean start temp., 18.5°C (range 13–24°C). During May, the weather was awful. Rain fell on all, or part of, 20 days, amounting to a total of 13.6 cm. This is 2.8 cm above normal. Temperatures were cooler than normal, with a mean of 12.4°C. Flooding was a problem. During June, there were 18

days with at least some rainfall. The total of 20 cm of rain was well above average. June's average mean temperature was 17.9°C, which is near normal. Flooding continued to be a problem through the 22nd, when it subsided. July had only 12 days with rain or showers. Total rainfall was 9.7 cm, which is less than normal. The average mean temperature was 20.7°C. **Coverage:** 13.5 h; 8 visits (2 sunrise, 4 sunset); 20, 30 May; 8, 17, 27 June; 8, 17, 29 July, 2003. **Census:** Red-eyed Vireo, 12.0 (56; 1N,13FL); Veery, 11.5 (54; 17FL); Ovenbird, 11.5 (23FL); Wood Thrush, 6.0 (28; 1N,11FL); Hermit Thrush, 4.5 (21; 9FL); Scarlet Tanager, 4.5 (8FL); American Redstart, 3.0 (14; 8FL); Yellow-bellied Sapsucker, 2.5 (3FL); Black-capped Chickadee, 2.5 (9FL); Tufted Titmouse, 2.5 (13FL); American Robin, 2.5 (1N,8FL); Eastern Wood-Pewee, 2.0; Gray Catbird, 2.0 (1N,5FL); Black-and-white Warbler, 2.0 (3FL); Northern Cardinal, 2.0 (5FL); Downy Woodpecker, 1.5 (2FL); Great Crested Flycatcher, 1.5; Blue Jay, 1.5; White-breasted Nuthatch, 1.5 (5FL); Louisiana Waterthrush, 1.5 (3FL); Common Yellowthroat, 1.5 (2FL); Wild Turkey, 1.0; Barred Owl, 1.0 (3FL); Blue-headed Vireo, 1.0 (3FL); Blue-gray Gnatcatcher, 1.0 (2FL); Black-throated Blue Warbler, 1.0; Brown-headed Cowbird, 1.0 (2FL); American Goldfinch, 1.0; Broad-winged Hawk, 0.5; Mourning Dove, 0.5; Ruby-throated Hummingbird, 0.5; Red-bellied Woodpecker, 0.5; Pileated Woodpecker, 0.5; Eastern Phoebe, 0.5; American Crow, 0.5; Cedar Waxwing, 0.5; Chestnut-sided Warbler, 0.5; Blackburnian Warbler, 0.5; Eastern Towhee, 0.5; Rose-breasted Grosbeak, 0.5; Baltimore Oriole, 0.5; Purple Finch, 0.5; Black-throated Green Warbler, +. **Total:** 43 species; 94.0 territories (442/40 ha). **Visitors:** Hairy Woodpecker, Northern Flicker, Yellow-throated Vireo, Canada Warbler. **Remarks:** This plot suffered ongoing problems throughout the year from illegal dumping, parties, ATVs, and dirt bikes. Whether or not these activities contributed to the sharp decrease in species diversity this year is unknown. Likely contributing was the persistent wet weather and resultant flooding. Whatever the cause, a drop from 50 species last year to 43 this year is significant, even though this latter figure is closer to the long-term average. Broad-winged Hawk was the only species found this year and not last year. The number of territorial males found this year was 94.0, which is 1.5 more than were found last year, and 2 more than the 10-yr average. This increase is largely due to significant increases in the numbers of Red-eyed Vireos (from 9.0 territories last year to 12.0 this year), Veeries (from 9.5 to 11.5), and Ovenbirds (from 10.0 to 11.5). These have been the most abundant species in this plot for the past several years, but they were more abundant than ever this year. **Other Observers:** Lukas Hyder, Russ Naylor, Ed Yescott, and John Eykelhoff.

12. RIPARIAN WOODLAND**ARBOLADO RIVEREÑO**

SCOTT R. ROBINSON

*Bureau of Land Management
3815 N. Schreiber Way
Coeur d'Alene ID 83815*

Location: Idaho; Kootenai Co.; Coeur d'Alene; Blackwell Island; 47°41'N, 116°48'W; Coeur d'Alene Quadrangle, USGS. **Continuity:** Established 1997; 7 yr. **Size:** 8.9 ha. **Description of Plot:** See 1997 BBC report (unpublished) and Bird Populations 7:106 (2006) and 7:123 (2006). Construction of the day-use recreation area with boat launch, picnic area, and boardwalk for birdwatchers was completed and it was opened to the public for Memorial Day weekend. **Weather:** Mean start temp., 8.6°C (range 3–13°C). The seven sunrise visits explain the lower starting temperatures than during the first five years of the census. No flooding this year. The mosquito hatch between visits five and six provided a good food source for bird chicks. **Coverage:** 13.3 h; 7 visits (7 sunrise); 13, 20, 28 May; 3, 10, 24 June; 2 July, 2003. **Census:** Song Sparrow, 6.0 (27); American Robin, 5.5 (25); Tree Swallow, 5.0 (22; 5N); Yellow Warbler, 5.0; Spotted Sandpiper, 2.0; European Starling, 2.0; Black-headed Grosbeak, 2.0; Red-winged Blackbird, 2.0; Brown-headed Cowbird, 2.0; House Finch, 2.0; Canada Goose, 1.0 (3FL); Mallard, 1.0; California Quail, 1.0; Killdeer, 1.0; Calliope Hummingbird, 1.0; Hairy Woodpecker, 1.0; Northern Flicker, 1.0; Willow Flycatcher, 1.0; Violet-green Swallow, 1.0; Pygmy Nuthatch, 1.0; Gray Catbird, 1.0; Cedar Waxwing, 1.0; Yellow-rumped Warbler, 1.0. **Total:** 23 species; 46.5 territories (209/40 ha). **Visitors:** Common Merganser, Osprey, Bald Eagle, Ring-billed Gull, Mourning Dove, Rufous Hummingbird, Red-naped Sapsucker, Downy Woodpecker, Western Wood-pewee, American Crow, Common Raven, Barn Swallow, Black-capped Chickadee, Nashville Warbler, Common Yellowthroat, Brewer's Blackbird, Bullock's Oriole. **Remarks:** One artificial nest box was removed from the census plot. Swallows and flickers have continually occupied these nest boxes in place of Wood Ducks. A visiting Bald Eagle took at least two goslings and left three to fledge.

13. HEMLOCK-MIXED BROADLEAF RIPARIAN FOREST**BOSQUE RIVEREÑO MIXTO DE ESPECIES DE HOJA ANCHA Y PINABETO**LYNN BOWDERY, ALLAN BOWDERY, TOM SARRO,
& LIN FAGAN*Daniel Smiley Research Center
Mohonk Lake
1000 Mountain Rest Road
New Paltz NY 12561*

Location: New York; Ulster Co.; Gardiner; Upper Coxing Clove; 41°44'N, 74°12'W; Gardiner Quadrangle, USGS. **Continuity:** Established 1993; 3 yr. **Size:** 12.1 ha. **Description of Plot:** A rectangular plot (shortest side 152 m, longest 794 m) with a closed canopy dominated by eastern hemlock, red oak, black birch, and sugar maple. The stand is 61–100 years of age with a mean canopy height of 20 m (range 15–25 m). The understory is dominated by striped maple, witch-hazel, and mountain laurel. The ground cover is dominated by hay-scented fern, partridge berry, and New York fern. There is one permanent stream (the Coxing Kill) with a maximum width of 10 m and a maximum depth of 1 m, and there are also a few ephemeral streams and pools. This area has suffered from an infestation of woolly adelgids since 1998, and a noticeable number of hemlocks, ~10%, in this ravine have died or are in poor condition. In November 2002, there was a severe ice storm that broke many branches and tops of hardwood trees and even felled a few. **Edge:** More than 75% of the plot's perimeter is bordered by the same habitat, and the plot lies within a tract of similar habitat 51–100 ha in size. **Topography and Elevation:** The plot has a NE-facing slope of 11–16% grade. Minimum elevation 279 m, maximum 320 m. **Weather:** Mean start temp., 14.3°C (range 9–26°C). The average temperature for May was 0.5°C below normal, and precipitation was 27% above average. The average temperature for June was 0.5°C above normal, and precipitation was 52% above average. The frequent rains kept the Coxing Kill unusually full, causing it to be quite noisy during visits 4–12, and making faint or very high-pitched sounds inaudible. **Coverage:** 23.0 h; 12 visits (11 sunrise, 1 sunset); 16, 19, 22, 27 May; 2, 6, 10, 12, 16, 19, 23, 27 June, 2003. Maximum number of observers/visit, 6. **Census:** Red-eyed Vireo, 12.0 (40); Ovenbird, 6.0 (20; 1N); Black-throated Green Warbler, 4.5 (15); Louisiana Waterthrush, 4.0 (13); Wood Thrush, 3.5 (12); Scarlet Tanager, 3.5; Acadian Flycatcher, 3.0 (10); Eastern Wood-pewee, 2.0; Black-and-white Warbler, 1.5; Blue Jay, 1.0 (2FL); Black-throated Blue Warbler, 1.0; Blackburnian Warbler, 1.0; Red-bellied Woodpecker, 0.5; Pileated Woodpecker, 0.5; Black-capped Chickadee, 0.5; Hooded Warbler, 0.5; Great Crested Flycatcher, +; Yellow-throated Vireo, +. **Total:** 18 species; 45.0 territories (149/40 ha). **Visitors:** Downy Woodpecker, Hairy Woodpecker, American Crow, Tufted Titmouse, American Robin, Worm-eating Warbler, American Goldfinch. **Remarks:** Inspection of the original data sheets confirmed that fewer birds were detected this year (compared with 63+ territories of 27 species). In addition to the loss of hemlocks and ice damage resulting in fewer caterpillars, the West Nile virus has been found in Ulster County for several years. **Other Observers:** David Arner, Lisa Daddona, Ruth Elwell, Ethan

Pierce, Barbara Rubin, John Thompson, and Jane Vecchione. **Acknowledgments:** Thanks to the Mohonk Preserve for its cooperation and support.

14. INTERGRADING DUNE-SWALE SAVANNAH SAVANA CON GRADIENTE DE DUNA A CIENAGA

MARGARET A. KURCZ
Bird Studies Canada
P.O. Box 160
Port Rowan ON N0E 1M0

Location: Ontario; Municipality of Haldimand-Norfolk; Port Rowan; Long Point National Wildlife Area; 42°32'45"N, 80°4'0"W; Gravelly Bay Quadrangle, DEMR. **Continuity:** Established 1965; 7 yr. **Size:** 11.0 ha. **Description of Plot:** See *Aud. Field Notes* 19:630 (1965), *J. Field Ornithol.* 63(Suppl.):82-83 (1992), 65(Suppl.):85-86 (1994), and 67(Suppl.):65-66 (1996). **Weather:** Mean start temp., 15.7°C (range 10-21°C). **Coverage:** 25.8 h; 9 visits (7 sunrise, 2 sunset); 5, 13, 15, 17, 18, 20, 22, 24, 25 June, 2003. **Census:** Tree Swallow, 10.5 (38; 7N); Chipping Sparrow, 6.0 (22; 1N); Killdeer, 5.0 (18); Brown Thrasher, 5.0 (3N,1FL); Eastern Kingbird, 3.0 (11; 1N); Song Sparrow, 3.0; Northern Mockingbird, 2.5; Mourning Dove, 2.0; Warbling Vireo, 2.0 (1N); European Starling, 2.0 (1N); Common Grackle, 2.0 (2FL); House Wren, 1.0; Red-winged Blackbird, 1.0; Brown-headed Cowbird, 1.0; Yellow Warbler, 0.5, Common Yellowthroat, 0.5. **Total:** 16 species, 47.0 territories (171/40 ha). **Visitors:** Spotted Sandpiper, Yellow-billed Cuckoo, Ruby-throated Hummingbird, Belted Kingfisher, Northern Flicker, Eastern Wood-Pewee, Great Crested Flycatcher, Red-eyed Vireo, American Robin, Field Sparrow, Savannah Sparrow, Bobolink, Baltimore Oriole, American Goldfinch. **Remarks:** This study is part of a long-term project designed to monitor the response of plant and breeding bird communities to a reduction in deer browsing at Long Point, Lake Erie. **Other Observers:** Matt Timpf and John Brett. **Acknowledgments:** I thank Jon McCracken for project supervision, Jane Bowles and Michael Bradstreet for measuring vegetation parameters, and the Canadian Wildlife Service for financial support.

15. FIELD, RIDGE, SHRUBBY TREES, AND WOODS CAMPOS, COLINAS, ARBUSTOS Y BOSQUES

MICHAEL F. G. CLARK
101 Governor's Road, #708
Dundas ON L9H 6L7

Location: Ontario; Municipality of Hamilton-Wentworth; Dundas; Dundas Valley Plot #1; 43°15'N, 79°54'W. **Continuity:** Established 1994; 10 yr. **Size:** 5.8 ha. **Description of Plot:** See *J. Field Ornithol.*

60(Suppl.):14 (1989), 66(Suppl.):27-28 (1995), and 67(Suppl.):73-74 (1996). **Weather:** Mean start temp., 18.1°C (range 11.5-24.0°C). Precipitation was 15% above the 30-year norm from April through June. May rainfall was 63% above the norm and June rainfall was 25% below. Temperatures averaged roughly 2° below the norm for all three months. Source: Environment Canada. **Coverage:** 12.7 h; 8 visits (0 sunrise, 3 sunset); 29 April; 10, 14, 22 May; 6, 13, 19, 24 June, 2003. **Census:** Yellow Warbler, 45.0 (310); Gray Catbird, 21.0 (145); Song Sparrow, 11.0 (76); Northern Cardinal, 8.0 (55); Blue-winged Warbler, 5.0 (34); Common Grackle, 5.0; Field Sparrow, 4.0 (28); Rose-breasted Grosbeak, 4.0; American Robin, 3.0 (21); Indigo Bunting, 3.0; American Goldfinch, 3.0; Northern Flicker, 2.0; Brown Thrasher, 2.0; Wood Thrush, 1.0; Brown-headed Cowbird, 1.0. **Total:** 15 species; 118.0 territories (814/40 ha). **Visitors:** Ruby-throated Hummingbird, Downy Woodpecker, Great Crested Flycatcher, Blue Jay, Black-capped Chickadee, Cedar Waxwing, Common Yellowthroat, Eastern Towhee, Orchard Oriole, Baltimore Oriole. **Remarks:** This revised plot's top three breeders (Yellow Warbler, Gray Catbird, Song Sparrow) accounted for 65% of all territorial males. May's abnormally high rainfall and below normal temperatures may have adversely affected breeding success. Ongoing vegetative succession was likely responsible for record numbers of breeding Common Grackles and Rose-breasted Grosbeaks, as well as the notable continuing decline or absence of several smaller species. The total of 118 breeding pairs was 10 pairs below the 10-yr average; the total of 15 breeding species (the lowest total to date) was 4 species below average.

16. SEDGE-TAMARACK DUNE POND DUNA DE ESPARGANIO-LARICE AMERICANO

MATT TIMPF
Bird Studies Canada
P.O. Box 160
Port Rowan ON N0E 1M0

Location: Ontario; Municipality of Haldimand-Norfolk; Port Rowan; Long Point National Wildlife Area; 9.0 km W of Long Point Lighthouse; 42°32'54"N, 80°9'45"W; Little Creek Ridges Quadrangle, DEMR. **Continuity:** Established 1978; 4 yr. **Size:** 10.0 ha. **Description of Plot:** See *Am. Birds* 33:103-104 (1979), *J. Field Ornithol.* 63(Suppl.):93-94 (1992) and 65(Suppl.):103 (1994). **Weather:** Mean start temp., 14.6°C (range 10-18°C). **Coverage:** 28.8 h; 8 visits (6 sunrise, 2 sunset); 2, 8, 11, 14, 16, 18, 21, 23 June, 2003. **Census:** Red-winged Blackbird, 31.0 (124; 14N,16FL); Yellow Warbler, 8.0 (32; 2N); Common Yellowthroat, 7.5 (30; 2N,2FL); Eastern Kingbird, 5.0 (20; 4N); Song Sparrow, 3.5 (14); Tree Swallow, 2.0;

Swamp Sparrow, 2.0; Baltimore Oriole, 2.0 (2N); Chipping Sparrow, 1.5 (1N); Mallard, 1.0 (3FL); Sora, 1.0; Eastern Wood-Pewee, 1.0; Cedar Waxwing, 1.0; Field Sparrow, 1.0 (1N); Whip-poor-will, +; Gray Catbird, +; Brown Thrasher, +. **Total:** 17 species, 67.5 territories (270/40 ha). **Visitors:** Wood Duck, Hooded Merganser, Pied-billed Grebe, Killdeer, Black Tern, Mourning Dove, Yellow-billed Cuckoo, Belted Kingfisher, Northern Flicker, Red-eyed Vireo, Black-capped Chickadee, House Wren, Marsh Wren, American Robin, European Starling, Eastern Towhee, Common Grackle, American Goldfinch. **Remarks:** This study is part of a long-term project designed to monitor the response of plant and breeding bird communities to a reduction in deer browsing at Long Point, Lake Erie. **Acknowledgments:** Thanks to Jon McCracken for project supervision, Jane Bowles and Michael Bradstreet for measuring vegetation parameters, and the Canadian Wildlife Service for financial support.

17. SHRUBBY SWAMP AND SEDGE HUMMOCKS

PANTANO ARBUSTIVO-MOGOTE

DAVID ROSEN

White Memorial Conservation Center

P.O. Box 368

Litchfield CT 06759

Location: Connecticut; Litchfield Co.; Litchfield; White Memorial Foundation-North Shore Marsh; 41°43'N, 73°13'W; Litchfield Quadrangle, USGS. **Continuity:** Established 1965; 37 yr. **Size:** 8.1 ha. **Description of Plot:** See *Aud. Field Notes* 19:625-627 (1965) and *Bird Populations* 7:125-126 (2006). Habitat succession continued in spite of persistent, and sometimes severe flooding. Red maple and other sapling-sized trees withstood the flooding fairly well, as did most of the shrubs. Herbaceous vegetation, however, was adversely affected. Beavers have now girdled enough trees that there is an ample supply of snags to serve as homes for cavity nesters. **Weather:** Mean start temp., 21.5°C (range 13-30°C). During May, the weather was awful. Rain fell on all, or part of, 20 days, amounting to a total of 13.6 cm. This is 2.8 cm above normal. Temperatures were cooler than normal, with a mean of 12.4°C. Flooding was a problem. During June, there were 18 days with at least some rainfall. The total of 20 cm of rain was well above average. June's average mean temperature was 17.9°C, which is near normal. Flooding continued to be a problem through the 22nd, when it subsided. July had only 12 days with rain or showers. Total rainfall was 9.7 cm, which is less than normal. The average mean temperature was 20.7°C. **Coverage:** 25.5 h; 12 visits (1 sunrise, 3 sunset); 1, 9, 19, 27 May; 2, 9, 17, 23 June; 1, 8, 15, 25 July, 2003. Maximum number of observers/visit, 3. **Census:** Red-winged

Blackbird, 33.0 (163; 7N,104FL); Yellow Warbler, 30.0 (148; 9N,72FL); Swamp Sparrow, 29.0 (143; 3N,74FL); Common Yellowthroat, 22.0 (109; 44FL); Gray Catbird, 20.0 (99; 6N,48FL); Common Grackle, 7.0 (35; 5N,18FL); Song Sparrow, 4.5 (22; 10FL); American Goldfinch, 4.0 (20; 9FL); Eastern Kingbird, 3.5 (17; 3N,14FL); Cedar Waxwing, 3.5 (1N,7FL); Black-capped Chickadee, 3.0 (15; 2N,14FL); Blue-gray Gnatcatcher, 3.0 (2N,5FL); Willow Flycatcher, 2.5 (1N,3FL); Tree Swallow, 2.5 (2N,13FL); Veery, 2.5 (7FL); American Robin, 2.5 (2N,11FL); Baltimore Oriole, 2.5 (2N,9FL); Great Crested Flycatcher, 2.0 (5FL); Warbling Vireo, 2.0 (1N,3FL); Northern Cardinal, 2.0 (5FL); Mallard, 1.5 (9FL); Alder Flycatcher, 1.5 (4FL); Least Flycatcher, 1.5 (2FL); Chestnut-sided Warbler, 1.5 (2FL); Black-and-white Warbler, 1.5 (6FL); Downy Woodpecker, 1.0 (3FL); Northern Flicker, 1.0 (2FL); Yellow-throated Vireo, 1.0; Tufted Titmouse, 1.0 (6FL); American Redstart, 1.0 (4FL); Brown-headed Cowbird, 1.0 (1FL); Canada Goose, 0.5; Mute Swan, 0.5; Wood Duck, 0.5 (7FL); Great Blue Heron, 0.5; Spotted Sandpiper, 0.5; Mourning Dove, 0.5; Hairy Woodpecker, 0.5; Eastern Wood-Pewee, 0.5; Red-eyed Vireo, 0.5; American Crow, 0.5 (3FL); White-breasted Nuthatch, 0.5 (2FL); Marsh Wren, 0.5; Northern Waterthrush, 0.5; Ruby-throated Hummingbird, +; Eastern Bluebird, +; Wood Thrush, +; Rose-breasted Grosbeak, +. **Total:** 48 species; 201.0 territories (993/40 ha). **Visitors:** American Woodcock, Yellow-billed Cuckoo, Yellow-bellied Sapsucker, Blue Jay, Canada Warbler. **Remarks:** Though ground nesters suffered some ill effects from spring flooding, shrub and tree nesters did just fine. The total of 48 species found breeding this year was a new record high. This has to be due to the increase in habitat diversity brought about by succession, and is a continuation of an upward trend that began in 1997. The number of species has increased every year since then. Despite the increase in species diversity, the total number of territories decreased to 201. This is still the second-highest number ever counted in this plot. The 1993-2002 average was 175 territories, with 220 tallied last year and 191 in 2001. Species suffering the biggest declines were mostly ground nesters, which were the victims of frequent floods in May and June. Red-winged Blackbird remained the most abundant species, but declined by 5.0 territories from last year. Yellow Warbler declined by only 1.0 territory, but became the second most common species here because Swamp Sparrow declined by 6.0 territories. Common Yellowthroat increased by 1.0 territory. Gray Catbird increased by 4.0 territories. **Other Observers:** Eric Adam, John Eykelhoff, Rich Kania, Carolyn Kurtich, Ed Yescott, Janet Amalavage, and Lorraine Amalavage. **Acknowledgments:** Marie Kennedy helped compile these data.

18. COASTAL SCRUB
MATORRAL COSTANERO

PARVANEH ABBASPOUR & ELIZABETH PORZIG
PRBO Conservation Science
 3820 Cypress Drive #11
 Petaluma CA 94954

Location: California; Marin Co.; Bolinas; Palomarin Field Station; 37°55'N, 122°45'W; Bolinas Quadrangle, USGS. **Continuity:** Established 1971; 29 yr. **Size:** 8.1 ha. **Description of Plot:** See *Am. Birds* 25:1003–1004 (1971). The cover of Douglas-fir (*Pseudotsuga menziesii*) and shrubs continues to increase. **Weather:** Mean start temp., 9.5°C (range 4–19°C). **Coverage:** 268.7 h; 84 visits (43 sunrise, 0 sunset), 2003. **Census:** Wrentit, 11.5 (57; 11N,21FL); Spotted Towhee, 7.0 (35; 4N); Bewick's Wren, 5.0 (25); Orange-crowned Warbler, 4.5 (22); Wilson's Warbler, 4.5; Allen's Hummingbird, 3.0 (15); Hutton's Vireo, 3.0; Anna's Hummingbird, 2.5 (3N,2FL); Chestnut-backed Chickadee, 2.5; White-crowned Sparrow, 2.5; Purple Finch, 2.5; California Quail, 2.0; Northern Flicker, 2.0; Bushtit, 2.0; Song Sparrow, 2.0 (3N,3FL); Band-tailed Pigeon, 1.0 (1N); Mourning Dove, 1.0; Olive-sided Flycatcher, 1.0; Pacific-slope Flycatcher, 0.5; Western Scrub-Jay, 0.5; Golden-crowned Kinglet, 0.5; Red-tailed Hawk, +; Steller's Jay, +; Swainson's Thrush, +; American Robin, +; California Towhee, +; Dark-eyed Junco, +. **Total:** 27 species; 61.0 territories (301/40 ha). **Visitors:** None reported. **Remarks:** Overall territory density increased 27% from 2002. This is the first year that Olive-sided Flycatcher, Band-tailed Pigeon, and Pacific-slope Flycatcher were recorded. Species with notable increases include Wrentit (from 8.0 to 11.5 territories) and Hutton's Vireo (from + to 3.0). The increase in cover is likely responsible for some changes in bird numbers and community composition. **Other Observers:** Dennis Jongsomjit, Tom Gardali, Grant Ballard, and Alex Rosenthal. **Acknowledgments:** We thank Point Reyes National Seashore for their cooperation. This is PRBO contribution No. 1599.

19. DISTURBED COASTAL SCRUB A
MATORRAL PERTURBADO A

AMANDA SHULTS & ELIZABETH PORZIG
PRBO Conservation Science
 3820 Cypress Drive #11
 Petaluma CA 94954

Location: California; Marin Co.; Bolinas; Palomarin Field Station; 37°55'N, 122°45'W; Bolinas Quadrangle, USGS. **Continuity:** Established 1972; 29 yr. **Size:** 4.7 ha. **Description of Plot:** See *Am. Birds* 26:987–988 (1972). **Weather:** Mean start temp., 9.5°C (range 4–19°C). **Coverage:** 164.6 h; 65 visits (19 sunrise, 0 sunset), 2003. **Census:** Wrentit, 7.5 (64; 5N,5FL);

American Goldfinch, 4.0 (34; 2N); California Quail, 3.0 (26); Orange-crowned Warbler, 3.0; Spotted Towhee, 3.0 (3N); Song Sparrow, 3.0 (4N,10FL); Purple Finch, 3.0; Wilson's Warbler, 2.0; Allen's Hummingbird, 1.5; Bushtit, 1.5 (1N); Bewick's Wren, 1.5; Mourning Dove, 1.0; Anna's Hummingbird, 1.0; Western Scrub-Jay, 1.0; American Robin, 1.0; Brown-headed Cowbird, 1.0; Northern Flicker, 0.5 (1N,2FL); Olive-sided Flycatcher, 0.5; Hutton's Vireo, 0.5; Chestnut-backed Chickadee, 0.5; Swainson's Thrush, 0.5; California Towhee, 0.5; White-crowned Sparrow, 0.5; Dark-eyed Junco, 0.5; Red-tailed Hawk, +; Band-tailed Pigeon, +; Pacific-slope Flycatcher, +; Steller's Jay, +; Black-headed Grosbeak, +. **Total:** 29 species; 42.0 territories (357/40 ha). **Visitors:** None reported. **Remarks:** Cover of trees (firs) and shrubs continues to increase. Overall territory density increased from 2002. This is the first year that Olive-sided Flycatcher and Dark-eyed Junco bred on the plot. Species with notable increases in density from last year include American Goldfinch (from 1.0 to 4.0 territories) and Wrentit (4.5 to 7.5). **Other Observers:** Tom Gardali, Dennis Jongsomjit, Geoff Geupel, and Geetha Jayabose. **Acknowledgments:** We thank Point Reyes National Seashore for their cooperation. This is PRBO contribution No. 1600.

20. DISTURBED COASTAL SCRUB B
MATORRAL PERTURBADO B

GEETHA JAYABOSE & ELIZABETH PORZIG
PRBO Conservation Science
 3820 Cypress Drive #11
 Petaluma CA 94954

Location: California; Marin Co.; Bolinas; Palomarin Field Station; 37°55'N, 122°46'W; Bolinas Quadrangle, USGS. **Continuity:** Established 1971; 29 yr. **Size:** 8.1 ha. **Description of Plot:** See *Am. Birds* 25:1002 (1971) and *J. Field Ornithol.* 66(Suppl.):104 (1995). **Weather:** Mean start temp., 9.5°C (range 4–19°C). **Coverage:** 401.5 h; 119 visits (41 sunrise, 2 sunset), 2003. **Census:** Song Sparrow, 12.5 (62; 14N,13FL); Wrentit, 10.0 (49; 9N,23FL); American Goldfinch, 7.0 (35; 3N); Swainson's Thrush, 5.0 (25); Wilson's Warbler, 5.0; Spotted Towhee, 5.0; Orange-crowned Warbler, 3.5 (17); Purple Finch, 3.5; Anna's Hummingbird, 3.0 (15); Bewick's Wren, 2.5 (1N); Golden-crowned Kinglet, 2.5; Chestnut-backed Chickadee, 2.0; Western Scrub-Jay, 1.5; American Robin, 1.5; Brown-headed Cowbird, 1.5; Mourning Dove, 1.0 (1N); Allen's Hummingbird, 1.0 (1N); Northern Flicker, 1.0; Hutton's Vireo, 1.0; California Towhee, 0.5; White-crowned Sparrow, 0.5; Red-tailed Hawk, +; Bushtit, +; Winter Wren, +; House Finch, +. **Total:** 25 species; 71.0 territories (351/40 ha). **Visitors:** None reported. **Remarks:** Cover of trees (firs) and shrubs continues to increase. Overall territory density increased slightly (15%) from 2002. Species with notable increases in density from

last year include Wilson's Warbler (from 2.0 to 5.0 territories) and Spotted Towhee (2.5 to 5.0). This is the first year that Golden-crowned Kinglet was recorded breeding on the plot. **Other Observers:** Dennis Jongsomjit, Tom Gardali, Geoff Geupel, and Amanda Shults. **Acknowledgments:** We thank Point Reyes National Seashore for their cooperation. This is PRBO contribution No. 1601.

21. BLUEGRASS-MILKWEED GRASSLAND
YERBASAL DE "YERBA-AZUL"

MARGARET A. KURCZ
Bird Studies Canada
P.O. Box 160

Port Rowan ON N0E 1M0

Location: Ontario; Municipality of Haldimand-Norfolk; Port Rowan; Long Point National Wildlife Area; 42°32'48"N, 80°9'45"W; Little Creek Ridges Quadrangle, DEMR. **Continuity:** Established 1973; 5 yr. **Size:** 10.5 ha. **Description of Plot:** See *Am. Birds* 27:1013 (1973), *J. Field Ornithol.* 63(Suppl.):107-108 (1992) and 67(Suppl.):87-88 (1996). **Weather:** Mean

start temp., 15°C (range 10-19°C). **Coverage:** 28.0 h; 8 visits (6 sunrise, 2 sunset); 2, 11, 14, 16, 18, 21, 23, 26 June, 2003. **Census:** Field Sparrow, 6.0 (23; 2FL); Common Yellowthroat, 4.0 (15); Red-winged Blackbird, 4.0 (1N); Killdeer, 3.0 (11; 1N); Eastern Kingbird, 3.0 (1N); Northern Rough-winged Swallow, 3.0 (3N); Chipping Sparrow, 3.0; Song Sparrow, 3.0; Mourning Dove, 2.0 (1N); Tree Swallow, 2.0; Bank Swallow, 2.0 (1N); Northern Mockingbird, 2.0; Yellow Warbler, 2.0; Baltimore Oriole, 1.5; Northern Flicker, 1.0; European Starling, 1.0 (1N,4FL). **Total:** 16 species, 42.5 territories (162/40 ha). **Visitors:** Yellow-billed Cuckoo, Belted Kingfisher, American Robin, Brown Thrasher, Common Grackle, Brown-headed Cowbird, American Goldfinch. **Remarks:** This plot was formerly called Bluegrass Grassland. This study is part of a long-term project designed to monitor the response of plant and breeding bird communities to a reduction in deer browsing at Long Point, Lake Erie. **Acknowledgments:** Thanks to Jon McCracken for project supervision, Jane Bowles and Michael Bradstreet for measuring vegetation parameters, and the Canadian Wildlife Service for financial support.