

Thirty-eighth Winter Bird-Population Study

Edited by Roger L. Boyd
and Calvin L. Cink

THERE WAS A TOTAL OF 48 STUDIES submitted this year, representing 13 states and provinces and the District of Columbia. Once again Indiana had the highest number with 14 studies being submitted by J.S. Castrale and R.T. Speer. California was a close second with 13 studies. These two states accounted for more than 50% of the total. Also, 25 (52%) of this year's studies were new areas. The longest continuous study was in its 34th year. Concerning mature deciduous floodplain forest, it is conducted by J. Eliot, L. Limbach, and D. Gauthey.

Forty-nine observers reported a total of 625 hours in the field and averaged 13.0 hours per plot. The highest total was 70.6 hours in mixed upland habitat in Washington, D.C.

The total area covered this year was 802 hectares (1981 acres) with an average plot of 16.7 hectares. The largest study was 212.5 hectares of barrier beach and saltwater estuary in Florida. The number of birds per square kilometer

ranged from 0 (only 4 studies) to 5208 (a 5.3 hectare man-made tidal lagoon in Long Beach, California) and averaged 746. Total species ranged from 0 (only one agricultural study in Indiana) to 60 (barrier beach and saltwater estuary in Florida) and averaged 21 species overall.

Even though there were considerably fewer studies submitted this year, perhaps because we no longer print the full accounts, we want to emphasize that these studies will continue to be of great value in the future. All past studies have been placed on computer disc. This will provide easy access to past as well as future studies. Requests for data should be directed to: Gregory S. Butcher, Co-operative Research Program, Cornell Laboratory of Ornithology, 159 Sapsucker Woods Road, Ithaca, NY 14850 (Telephone: 607-256-4999).

We welcome all new studies and wish to encourage previous contributors to continue to send in their studies. Please submit them to us at the address below no later than June 15, 1986. The editors wish to thank Tracie J. Asher for her assistance in editing and compiling the List of Studies.

LIST OF PARTICIPANTS

G. E. Alexander Jr., Karen Anderson, Leon L. Barkman, Lonnie Boardman, Theodore Bodner, Shirley A. Briggs, Elizabeth W. Brook, Richard L. Bunn, Wendy Carr, L. H. Cash, John S. Castrale, Michael Clark, Charles T. Collins, Patricia H. Collins, Shirlee Critchfield, Kenneth L. Crowell, Kenneth W. Dance, William E. Davis Jr., Mary D'Imperio, John Eliot, Mary Jo Elpers, Ann Feather, Kevin S. Foerster, Dick Gauthey, Nancy Gilbert, Laurie Goodrich, Peter Gradoni, Richard E. Hall, G. T. Hunt, Ottavio Janni, Letty Limbach, Robert W. Loftan, Kathy Keane, Karla J. Kramer, Robert Richter, Brenda Roelofs, A. P. Sandilands, Stan Senner, Edgar H. Smith, R. D. Smith, Richard T. Speer, Lee E. Taylor, Mark Thompson, Joan C. Tweit, Robert C. Tweit, Hilary Vreeland, Terry West, Paul White, Richard Zembal.

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List of Studies

Habitat	County; State or Province	Hec- tares	Birds/ sq. km.	Hrs Obs.	Spe- cies	Yrs of Study	Contributors
A. FOREST HABITATS							
1. Maple-Pine-Oak Second-Growth Forest	Norfolk, MA	11.8	119	18.4	15	9	Davis
2. Oak-Maple Bottomland	Middlesex, MA	6.7	224	8.9	15	4	Taylor
3. Mixed Hemlock-White Cedar-Hardwood Forest	St. Lawrence, NY	6.5	139	3.0	7	5	Carr, Roelofs, Vreeland
4. Oak-Maple Slope Forest	Berks, PA	16.9	36	14.4	10	3	Goodrich, Senner
5. Oak-Maple Ridge-top Forest	Berks, PA	19.4	36	6.3	9	3	Senner, Goodrich, Anderson
6. Mature Deciduous Floodplain Forest	Montgomery, MD	17.8	567	31.6	28	34	Eliot, Limbach, Gauthey
7. Upland Mixed Pine-Spruce-Hardwood Plantation	Allegany, NY	16.6	174	8.2	17	12	Brooks
8. Upland Scotch Pine Plantation	Allegany, NY	9.3	173	7.0	9	3	Gradoni, Brooks
9. Black Willow-White Ash Forest	Wentworth, ONT	13.0	185	15.2	24	2	Clark
10. Canyon Floor Dominated by White Alder Woodland	San Bernardino, CA	13.8	2529	35.5	49	1	Elpers
11. Montane Coniferous Forest	Mono, CA	8.9	90	12.5	5	1	Foerster

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B. FOREST MIXED WITH OTHER HABITATS							
12. Mixed Upland Habitat	D.C., WA	14.2	648	70.6	37	26	Cash, D'Imperio, Feather, Hunt, Janni, Smith, E.
13. Cottonwood-Abandoned Fields Bottomland	Larimer, CO	8.1	1132	9.7	28	3	Bodner
14. Bottomland Oak-Gum-Cypress Forest Recently Disturbed	Washington, MS	11.4	2965	15.2	37	14	Alexander
15. Chaparral and Woodland	San Bernardino, CA	11.5	557	25.7	40	1	Gilbert, Zembal, Kramer, Elpers
C. MIXED RIPARIAN HABITATS							
16. Sycamore-Ash-Oak Riparian Association	Pima, AZ	10.4	788	2.4	38	1	Tweit, J., Tweit, R.
17. Mesquite-Hackberry Riparian Association	Pima, AZ	11.2	1188	11.0	48	1	Tweit, J., Tweit, R.
18. Riparian Woodland Oak-Juniper Association	Pima, AZ Santa Cruz, AZ	8.1	1049	8.8	31	2	Tweit, J., Tweit, R.
19. Narrow Riparian Belt Through Boulder-Strewn Floodplain	San Bernardino, CA	16.2	537	35.7	42	1	Zembal, Elpers, Gilbert
20. Narrow Side-Canyon Belt of Riparian Woodland	San Bernardino, CA	9.8	1303	31.2	40	1	Elpers, Zembal
D. BRUSH, GRASSLAND, AND DESERT							
21. Brushy Field with Trees and Hills	Wentworth, ONT	6.1	147	5.9	12	2	Clark
22. Chaparral on a Floodplain Terrace	San Bernardino, CA	11.7	1188	31.3	38	1	Zembal, Elpers, Gilbert, Kramer
E. HABITATS INCLUDING OPEN WATER							
23. Mixed Upland Habitat and Swamp	Fairfield, CT	14.2	77	6.0	14	12	Barkman
24. Barrier Beach and Saltwater Estuary	Duval, FL	212.5	2136	24.0	60	8	Loftin, Richter, West
25. Chesney Bog	Oxford, ONT	15.2	36	19.2	18	2	Sandilands
26. Man-Made Tidal Lagoon	Los Angeles, CA	5.3	5208	4.7	28	2	Collins, C., Collins, P.
27. Tidal Lagoon Park	Los Angeles, CA	8.1	2423	10.0	29	3	Critchfield
28. Tidal Channel-Recreational Area	Los Angeles, CA	15.3	689	7.0	18	3	White
F. CULTIVATED CROPLAND							
29. Chisel-Plowed Cornfield I	Scott, IN	5.9	—	3.3	1	1	Castrale, Speer
30. Chisel-Plowed Cornfield II	Scott, IN	5.6	—	2.5	0	1	Castrale, Speer
31. Chisel-Plowed Cornfield III	Scott, IN	5.1	294	2.7	3	1	Castrale, Speer
32. Chisel-Plowed Soybean Field	Scott, IN	14.6	27	2.8	1	1	Castrale, Speer
33. Disked Soybean Field	Scott, IN	10.8	—	3.7	1	1	Castrale, Speer
34. Corn Residue I	Scott, IN	19.1	6	2.5	4	1	Castrale, Speer
35. Corn Residue II	Scott, IN	18.9	11	2.5	2	1	Castrale, Speer
36. Corn Residue III	Scott, IN	14.0	21	3.3	2	1	Castrale, Speer
37. Corn Residue IV	Scott, IN	11.2	18	3.0	2	1	Castrale, Speer
38. Soybean Residue I	Scott, IN	6.0	50	2.3	2	1	Castrale, Speer
39. Soybean Residue II	Scott, IN	10.5	29	2.5	5	1	Castrale, Speer
40. Soybean Residue III	Scott, IN	13.1	8	2.3	1	1	Castrale, Speer
41. Soybean Residue IV	Scott, IN	5.2	—	2.8	1	1	Castrale, Speer
42. Soybean Residue V	Scott, IN	10.3	107	2.8	5	1	Castrale, Speer
G. URBAN HABITAT							
43. Urban Park with Pond	Waterloo, ONT	14.2	679	14.9	22	4	Sandilands, Dance
44. Urban Residential	El Paso, CO	15.5	1587	9.7	25	1	Bunn
45. Urban Nature Center	Orange, CA	7.3	1918	18.8	39	3	Hall
46. Suburban Abandoned Field	Orange, CA	25.0	472	20.0	37	1	Boardman
47. Suburban Nature Center	Los Angeles, CA	34.4	1573	28.0	52	7	Keane
48. Urban River	Los Angeles, CA	42.5	1647	15.0	51	1	Smith, R.