

FIFTY-FOURTH BREEDING BIRD CENSUS: 1990

<i>Habitat</i>	<i>State/ Province</i>	<i>Compiler</i>	<i>Plot size (ha)</i>	<i>Territories per 40 ha</i>	<i>Number of species</i>	<i>Hours of observation</i>	<i>Years of study</i>
Broadleaf Forest							
1. Northern Oak Woodland	CA	J.D. Petersen	16.0	105	21	12.4	1
2. Riparian Woodland	CA	K.L. Weaver	11.7	596	31	15.0	2
3. Western Sycamore Woodland with Scattered Oaks	CA	H.L. Cogswell	24.3	213	27	66.8	1
4. Mixed Hardwood Poletimber	CT	A. Magee	8.5	425	27	13.0	24
5. Oak Hardwood Forest	CT	M. Dudek	15.8	305	31	26.0	4
6. Second-growth Hardwood Forest	CT	A. Magee	10.1	425	37	11.0	24
7. Mixed Upland Broadleaf Forest	DC	S.A. Briggs	14.2	669	38	128.5	32
8. Isolated Moist Tuliptree—Red Maple Upland Forest	MD	C.S. Robbins	21.4	240	27	56.0	2
9. Mature Beech—Maple—Oak Bottomland Forest	MD	C.S. Robbins	42.0	220	35	46.0	1
10. Upland Tulip Tree—Maple—Oak Forest	MD	G.E. Einem	11.9	350	33	50.0	7
11. Mature Deciduous Floodplain Forest	MD	D. Gauthey	7.6	373	27	51.0	38
12. Old Growth Woods and Swamp Forest	MI	L. Knapp	28.3	326	44	30.3	2
13. Upland Second-growth Oak— Hickory Forest	MS	H. Moore	10.0	656	37	24.8	2
14. Basswood—Black Ash Forest with Dead Timber	MN	G. Canterbury	11.5	288	28	23.0	4
15. Mature Aspen Forest with Young Maple Understory	MN	G.J. Peterson	10.0	378	20	134.0	1
16. Floodplain Forest	NC	H. Meuller	12.6	234	31	17.5	14
17. Mixed Deciduous Forest	NC	H. Meuller	12.6	204	28	19.5	15
18. Isolated Beech—Maple Woods	NY	R.M. Marshall	13.5	198	19	12.7	2
19. Mature Urban Deciduous Forest	NY	D.S. Kunstler	10.1	302	26	36.0	4
20. Urban Deciduous Forest	NY	D.E. Burhans	8.8	200	18	15.0	1
21. White Ash—Red Maple Forest	NY	G.R. Maxwell	16.2	172	29	10.0	5
22. Riparian Deciduous Forest	OH	E.J. Tramer	18.0	349	41	20.3	2
23. River Floodplain Broadleaf Forest	OH	W.E. McGill	18.0	167	30	12.0	2
24. Oak—Maple Ridge-Top Forest	PA	L. Goodrich	19.4	87	22	24.2	8
25. Oak—Maple Slope Forest	PA	L. Goodrich	16.9	101	21	25.3	8
26. Upland Oak—Red Maple Forest	RI	W.R. Eddleman	10.1	374	26	31.1	1
27. Mesophytic Forest I	VA	M.G. Smith	6.1	400	18	13.0	9
28. Mesophytic Forest II	VA	M.G. Smith	6.1	449	17	13.8	9
Needleleaf Forest							
29. Old-Growth Mixed Coniferous— Red Fir Forest Transition	CA	J. Davis	42.3	277	30	103.0	6
30. Ponderosa Pine Forest	CO	L. Hering	8.1	143	12	24.1	26
31. Heavily Thinned White Spruce Plantation	ME	J.K. Markowsky	4.1	448	25	20.0	6
32. Mature Red Spruce Forest	ME	T.P. Skaling	16.0	171	28	26.0	2
33. Mature Spruce—Fir Forest	ME	P.A. Duley	10.0	246	18	17.8	1
34. Mature Spruce Forest	ME	K.L. Crowell	4.0	110	12	4.8	4
35. Young Spruce Forest	ME	K.L. Crowell	4.5	306	20	9.3	10
36. Jack Pine Forest	MI	E. McLaren	16.0	72	13	21.5	6
37. Upland Christmas Tree Farm	NY	E.W. Brooks	10.7	196	15	18.5	8
38. Upland Scotch Pine Plantation	NY	E.W. Brooks	9.3	176	22	12.3	22
39. Mature White Pine Forest	RI	W.R. Eddleman	10.1	320	21	35.6	1

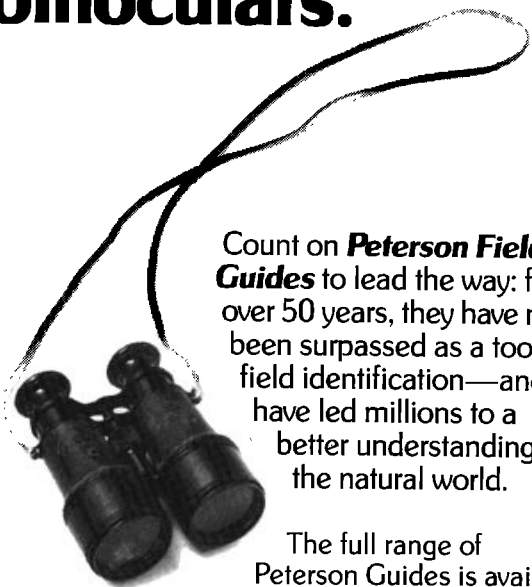
FIFTY-FOURTH BREEDING BIRD CENSUS: 1990 *Continued*

<i>Habitat</i>	<i>State/ Province</i>	<i>Compiler</i>	<i>Plot size (ha)</i>	<i>Territories per 40 ha</i>	<i>Number of species</i>	<i>Hours of observation</i>	<i>Years of study</i>
Broadleaf/Needleleaf Forest							
40. Grazed Oak—Pine Woodland	CA	K. Purcell	29.7	167	21	83.0	6
41. Ungrazed Oak—Pine Woodland	CA	K. Purcell	29.7	152	25	85.8	6
42. Ponderosa Pine—Scrub Oak Forest	CO	P.K. Coomber	13.8	400	22	23.0	10
43. Climax Hemlock—White Pine with Transition Hardwoods	CT	A. Magee	10.5	369	33	13.5	24
44. Young Mixed Hardwood—Conifer Stand	CT	A. Magee	8.5	508	40	13.5	13
45. Oak—Hemlock Forest	CT	R.A. Askins	23.1	161	30	32.5	20
46. Upland Oak and Hemlock Forest	CT	J. Zickefoose	10.5	360	22	9.2	2
47. Central Hardwood Forest with Scattered Pine	DC	B. Ford	26.3	95	27	43.0	32
48. Isolated Oak—Tuliptree—Pine Upland Forest	MD	C.S. Robbins	15.0	162	29	38.0	2
49. Mixed Oak—Virginia Pine Forest	MD	D. Dawson	38.0	197	39	65.0	1
50. Tamarack Bog and Hardwood	MI	J. Mullins	8.5	103	22	8.0	15
51. Young Aspen Forest with Scattered Mature Pines	MN	M. McDonald	9.0	455	20	32.0	1
52. Upland Mixed Pine—Spruce— Hardwood Plantation	NY	E.W. Brooks	16.6	180	29	18.3	17
53. Mature Hemlock—Hardwood Forest	OH	D. Minney	8.5	426	30	29.5	1
54. Mature Red Pine Forest with Deciduous Understory	MN	J. Whittaker	10.0	470	24	97.0	1
55. Mixed Oak—Pine Forest I	PA	D.A. Gross	6.0	413	28	24.5	14
56. Mixed Oak—Pine Forest II	PA	D.A. Gross	11.05	402	37	28.0	14
57. Hemlock—White Pine—Mixed Hardwood Forest	VA	K.R. Hinkle	6.1	213	12	12.2	5
Mixed Habitat							
58. Suburban Cemetery	AL	T.A. Imhof	15.0	210	21	21.0	11
59. Mature Upper Mixed—Coniferous Forest—Montane Chaparral	CA	D.W. Nelson	42.2	241	38	96.0	6
60. Mixed Habitat	CT	M. Dudek	15.0	696	53	34.7	4
61. Transition Forest and Thicket	CT	R.A. Askins	6.5	166	27	9.6	20
62. Disturbed Deciduous Forest	KS	R.L. Boyd	16.2	97	23	43.0	1
63. Bulrush and Cattail Marsh In Conifer Forest	MT	M.M. Bishop	40.5	200	51	21.5	16
64. Deciduous Forest with Pond and Brook	NJ	J. Brotherton	16.2	93	23	11.5	27
65. Freshwater Barrier Dune Community	NY	S.E. Bonanno	10.4	350	26	10.0	1
66. Suburban Bird Sanctuary	NY	W.J. Kolodnicki	4.2	442	23	11.0	7
67. Field, Ridge, and Shrubby Trees	ON	M.F.G. Clark	6.6	803	20	16.4	2
68. Shrubby Trees, Ridge, and Woods	ON	M.F.G. Clark	7.3	457	21	13.1	1
69. Scattered Mixed Coniferous Forest in Subalpine Meadows and Spruce Bogs	OR	R.A. Hudson	32.4	48	15	14.0	15
70. Mixed Lowland Forest and Meadow with Stream	PA	D.B. Snyder	8.1	414	42	18.3	4
71. Mixed Mesophytic Woods and Brushland	TN	R.W. Simmers, Jr.	22.9	119	35	31.7	2
Non-forested wetlands							
72. Coastal Freshwater Marsh	CA	J.P. Kelly	10.5	379	18	9.9	6
73. Coastal Riparian Marsh	CA	J. Evens	17.5	2691	49	21.4	1
74. Desert Riparian—Freshwater Marsh	CA	E.A. Cardiff	15.4	340	32	23.3	14
75. Shrubby Swamp and Sedge Hummocks	CT	A. Magee	8.1	713	20	11.0	24
76. Wetland Sedge Meadow I	NE	G. Lingle	16.2	128	11	6.6	10
77. Wetland Sedge Meadow II	NE	G. Lingle	16.2	104	12	3.9	9
Shrubland							
78. Mesquite—Hackberry Riparian Association	AZ	J. & R. Tweit	11.2	303	22	14.5	2

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79. Coastal Scrub	CA	R. Gutsell	8.1	219	16	163.0	16
80. Disturbed Coastal Scrub A	CA	S. Allen	4.7	204	21	135.0	16
81. Disturbed Coastal Scrub B	CA	K.J. Fernandez	8.1	187	17	181.0	17
Grassland							
82. Coastal Prairie	CA	J.P. Kelly					
83. Tallgrass Prairie I	IA	P.E. Lowther	16.0	81	18	6.5	7
84. Tallgrass Prairie II	IA	P.E. Lowther	65.7	77	17	9.0	7
85. Tallgrass Prairie III	IA	P.E. Lowther	44.8	99	19	8.3	7
86. Kentucky Bluegrass Prairie	ND	D.H. Johnson	4.8	41	6	2.6	19
87. Mixed Prairie I	ND	D.H. Johnson	10.0	60	10	5.9	19
88. Mixed Prairie II	ND	D.H. Johnson	6.1	13	6	3.3	19
89. Mixed Prairie III	ND	D.H. Johnson	6.1	3	3	2.3	19
90. Mixed Prairie IV	ND	D.H. Johnson	6.1	29	7	3.0	19
91. Mixed Prairie V	ND	D.H. Johnson	6.1	13	3	2.9	19
92. Subirrigated Grassland	NE	G. Lingle	16.2	79	7	4.4	10
93. Subirrigated Native Hay	NE	G. Lingle	16.2	38	5	3.9	10
94. Tallgrass Prairie Remnant	OH	D. Minney	44.0	151	15	46.5	1
Successional Field							
95. Field and Shrubland	CT	T. Ford	24.0	109	25	19.8	1
96. Abandoned Upland Pasture	NY	V.M. Pitzrick	8.0	665	33	25.0	7
97. Abandoned Pasture Scrubland	ON	J. Romanow	9.0	369	35	24.0	9
Cultivated							
98. Mature Citrus Orchard	FL	F.E. Lohrer	77	79	3	24.8	1

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