

CHRISTMAS BIRD COUNT 1973

Total Individuals	COAST				COASTAL PLAIN				FALL BELT				PIEDMONT						MOUNTAINS														
	31 December	23 December	15 December	28 December	30 December	30 December	21 December	31 December	27 December	27 December	29 December	29 December	16 December	18 December	22 December	29 December	29 December	16 December	30 December	29 December	29 December	29 December	26 December	28 December	28 December	27 December	15 December	29 December	30 December				
371	31	13	60	227	9	13	2	2	5	14	14	3	3	3	3	7	2	2	2	2	7	1	2	2	2	2	2	2	2				
224	58	2	10	114	18	22	2	2	1	11	14	3	3	3	3	7	2	2	2	2	7	1	2	2	2	2	2	2	2				
2	1	5	6	9	35	11	2	2	4	4	14	3	3	3	3	9	2	2	2	2	9	1	2	2	2	2	2	2	2				
87	1	5	6	9	35	11	2	2	4	4	14	3	3	3	3	9	2	2	2	2	9	1	2	2	2	2	2	2	2				
446	78	23	41	9	61	31	6	21	11	14	14	67	4	3	8	7	8	1	2	8	1	2	2	2	2	2	2	2	2				
95	4	6	16	8	65	4	6	21	11	14	14	67	4	3	8	7	8	1	2	8	1	2	2	2	2	2	2	2	2				
482	80	71	54	28	1	82	2	2	11	14	14	67	4	3	8	7	8	1	2	8	1	2	2	2	2	2	2	2	2				
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
3,169	15	1,113	1,898	48	14	81	3	3	17	1	2	11	2	6	18	9	1	12	5	1	1	1	1	1	1	1	1	1	1	1			
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
442	28	108	76	29	43	65	3	3	17	1	2	11	2	6	18	9	1	12	5	1	1	1	1	1	1	1	1	1	1	1			
5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
78	10	5	3	9	14	37	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
7	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
179	19	13	41	11	46	48	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
114	7	18	35	2	18	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
194	12	44	50	33	27	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
345	85	147	70	11	32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
10	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
66	1	16	38	8	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
543	173	3,464	1,940	20	71	18	108	14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
3,464	1,940	20	71	18	108	14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
10,022	10,015	79	14	362	231	14	118	56	4	49	9	62	19	3	133	206	4	23	12	40	2	2	2	2	2	2	2	2	2	2	2		
2,243	191	700	19	6	79	77	29	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
1,209	700	19	6	79	77	29	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
457	360	17	3	2	50	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	
4,277	4,200	17	3	2	50	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	
5,260	5,000	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5	190	36	5
77	6	15	50	3	1	3	1	1	6	6	1	15	11	1	11	11	1	11	1	11	1	1	1	1	1	1	1	1	1	1	1	1	
658	300	1,004	12	3	2	82	3	2	82	2	2	11	1	1	11	1	1	11	1	11	1	1	1	1	1	1	1	1	1	1	1	1	
1,484	1,350	20	105	4	4	10	4	4	10	4	4	13	5	4	13	5	4	13	5	4	13	5	4	13	5	4	13	5	4	13	5	4	
161	11	8	5	20	8	26	4	3	10	12	12	13	5	4	13	5	4	13	5	4	13	5	4	13	5	4	13	5	4	13	5	4	
39	27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1,038	45	7	35	113	53	4	122	1	159	9	7	325	1	15	7	73	1	15	7	73	1	15	7	73	1	15	7	73	1	15	7	73	
325	50	7	35	113	53	4	122	1	159	9	7	325	1	15	7	73	1	15	7	73	1	15	7	73	1	15	7	73	1	15	7	73	
338	338	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2,976	1	4	7	100	215	6	4	4	9	8	1	16	6	4	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4
65	1	4	7	100	215	6	4	4	9	8	1	16	6	4	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4	1	4

Scaup (sp. ?)

CHRISTMAS BIRD COUNT 1973	COAST			COASTAL PLAIN			FALL BELT			PIEDMONT									MOUNTAINS										
	31 December Bodie-Paris, N.C.	23 December Morhead City, N.C.	15 December Wilmington, N.C.	28 December Litchfield-Fawcetts Is., S.C.	30 December Beaufort Co., N.C.	21 December Southern Pines, N.C.	31 December Dillon, S.C.	27 December Roanoke Rapids, N.C.	27 December Henderson, N.C.	29 December Columbia, S.C.	16 December Aiken, S.C.	22 December Raleigh, N.C.	16 December Durham, N.C.	30 December Chapel Hill, N.C.	29 December Greensboro, N.C.	28 December Winston-Salem, N.C.	30 December Iredell Co., N.C.	29 December Stanly Co., N.C.	29 December Charlotte, N.C.	29 December Greenville, S.C.	26 December Elkin-Ronda, N.C.	28 December North Wilkesboro, N.C.	28 December Caldwell Co., N.C.	27 December Avery Co., N.C.	15 December Burcombe Co., N.C.	29 December Brevard, N.C.	30 December G.S.M.F.		
Total Individuals	2	4	3	1	27	94	16	73	4	41	8	34	43	131	23	25	83	157	52	10	23	14	14	6	60	21	*		
Swainson's Thrush																													
Eastern Bluebird	1,095	25	39	5	82	27	16	41	4	16	8	34	43	131	23	25	83	157	52	10	23	14	14	6	60	21	*		
Bl.-gr. Gnatcatcher	13	3	2	5	2																								
Golden-cr. Kinglet	1,266	27	62	68	17	38	1	38	16	4	30	233	87	128	75	38	35	9	79	4	1	3	42	59	34	105			
Ruby-cr. Kinglet	1,294	25	45	219	45	17	6	93	8	25	41	135	18	96	67	32	4	72	58	4	6	1	3	1	7	2	8		
Water Pipit	524	9	94	13		126		113	27	28		27	28		25	25	25	17	101	19	19	1	10	10					
Cedar Waxwing	774	9	*	28	61	33	2	96	2	24	9	17	3	5	14	42	23	17	101	19	19	1	10	10					
Loggerhead Shrike	215	10	3	6	19	13	2	2	2	9	10,911	5,382	2,380	426	903,413	203,000	263	485	2,081	88	189	12	150	231	1,000,582	407	141		
Starling	21,424,457	530	227	6,035	287	121	94	10,723	220	1,401	1,091	5,382	2,380	426	903,413	203,000	263	485	2,081	88	189	12	150	231	1,000,582	407	141		
White-eyed Vireo	11			1	9		1																						
Solitary Vireo	19	3	2	7	4		*				1																		
Black-and-white W.	16			2	13						1																		
Orange-crowned W.	9	2	1	2	3										1														
Black-th. Blue W.	1																												
Yellow-rumped Warbler	12,157	7,850	1,089	323	593	1,158	418	118	9	33	12	164	10	59	44	7	10	22	71	2	2								
Yellow-throated W.	18			2	3	7	6																						
Pine Warbler	291	5	2	12	19	118	33	5	1	16	6	20	5	14	1	1	1	2	3										
Prairie Warbler	11			11																									
Palm Warbler	66	2	7	3	1	14	4	15				7	1	5															
Connecticut Warbler	1																												
Common Yellowthroat	149	22	11	57	8	28	8	1			4	1	1	1	1	1			2										
Yellow-br. Chat	2	*																											
House Sparrow	4,395	31	165	250	18	30	71	138	50	86	66	193	63	80	711	660	35	575	255	15	55	6	32	151	238	108	40		
E. Meadowlark	3,433	246	62	32	16	123	211	300	10	196	109	334	68	95	263	162	95	147	318	29	23	1	57	1	60	99	62		
Yellow-headed Blackbird	1																												
Red-wg. Blackbird	794,851	475	841	949	185	794	896	8,685	507	4,566	8,685	2,518	1,586	266	20,538	85	50	30	724	18	140	4							
Northern Oriole	141	14	4	4	1	21	*	2	14	2	2	27	5	1	3	2	27	2	3										
Rusky Blackbird	62,170	44	125	1	5	135	47	2	2	26	26	11	24	16	60,130	151		445											
Brewer's Blackbird	7																												
Boat-tailed Grackle	3,742	382	1,089	482	187	369	1,233																						
Common Grackle	2,968,594	87	110	10,480	66	638	2,312																						
Brown-hd. Cowbird	135,034	58	*	30	18	42	3	680	33	5	375	1,002	813	796	120,860	115	22	43	109	5	5								
Cardinal	4,602	95	45	104	163	248	364	50	230	58	359	307	209	354	233	127	83	386	341	19	64	2	32	42	214	100	243		
Rose-br. Grosbeak	1																												
Blue Grosbeak	2																												
Evening Grosbeak	1,165	2		1	40	8		104	85	40	*	28	8	19	21	22	16	109	24	36	45	15	25	13	489				
Purple Finch	1,790	12	60	77	39	43	10	76	18	12	*	130	77	126	167	127	51	179	170	16	18	10	44	130	111	51			
House Finch	300							40	2	19		40			61	111	10	16	23	7	10	13	262	*	51	190			
Pine Siskin	2,058	6	37	158	68	18	20	37	2	5		466	78	12	272	12	10	18	276	10	10	10	10	51	190				
Am. Goldfinch	2,615	60	85	101	183	153	57	101	33	152	38	285	92	128	196	156	56	85	121	24	38								

CHRISTMAS BIRD COUNT 1973	COAST				COASTAL PLAIN			FALL BELT			PIEDMONT							MOUNTAINS													
	31 December Bodie/Pea Is., N.C.	23 December Morehead City, N.C.	15 December Wilmington, N.C.	28 December Richfield-Pawleys Is., S.C.	30 December Charleston, S.C.	18 December Hilton Head Is., S.C.	30 December Beaufort Co., N.C.	21 December Southern Pines, N.C.	31 December Dillon, S.C.	29 December Roanoke Rapids, N.C.	27 December Henderson, N.C.	29 December Columbia, S.C.	16 December Aiken, S.C.	22 December Raleigh, N.C.	16 December Durham, N.C.	30 December Chapel Hill, N.C.	29 December Greensboro, N.C.	29 December Winston-Salem, N.C.	30 December Fayetteville, N.C.	29 December Greenville, S.C.	26 December Eliot/Ronda, N.C.	28 December North Wilkesboro, N.C.	28 December Caldwell Co., N.C.	27 December Avery Co., N.C.	15 December Burcombe Co., N.C.	29 December Bravard, N.C.	30 December G.S.M.N.P.				
Total Individuals	195	2,029	1,176	6	195	2,029	1,176	6	195	2,029	1,176	6	195	2,029	1,176	6	195	2,029	1,176	6	195	2,029	1,176	6	195	2,029	1,176				
Red Crossbill	121	115	36	1	85	85	16	20	1	89	26	74	58	189	15	74	*	20	166	6	39	5	24	6	22	33	33				
Ruf-sided Towhee	115	115	36	37	268	268	16	40	6	89	26	74	58	189	15	74	86	104	46	149	166	6	39	5	24	20	22	33			
Savannah Sparrow	6	6	1	4	4	4	1	242	*	260	35	20	20	136	2	9	2	2	46	1	1	1	1	1	2	1	2	1			
Grasshopper Sp.	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
Le Conte's Sparrow	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
Henslow's Sparrow	90	22	7	42	2	9	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
Sharp-tailed Sp.	105	9	11	81	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Seaside Sparrow	43	6	2	15	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Veepor Sparrow	5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Bachman's Sparrow	4	97	124	203	145	25	163	555	37	1,480	261	40	51	1,103	931	827	939	283	150	652	811	81	99	4	39	366	749	560	244		
Dark-eyed Junco	19	2	55	95	37	54	93	3	134	6	12	15	53	30	24	24	2	2	7	18	18	18	18	18	18	12	12	12	12		
Chipping Sparrow	672	15	13	12	45	45	29	72	6	145	5	83	144	156	41	126	153	189	5	46	255	101	4	3	14	94	488	74	107		
Field Sparrow	2,522	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
White-thr. Sparrow	11,058	59	56	298	190	428	141	29	171	42	2,825	81	565	87	1,270	639	819	660	410	225	350	379	23	488	11	45	156	314	86	211	
White-thr. Sparrow	264	7	13	51	*	59	5	1	26	6	4	1	3	12	11	8	14	3	4	5	8	9	9	2	2	156	314	86	211		
Fox Sparrow	7	438	327	116	21	200	6	2	27	4	145	2	52	7	313	7	90	22	21	21	7	3	3	3	3	3	3	3	3	3	
Lincoln's Sparrow	1,859	239	139	286	122	197	47	17	10	785	3	27	118	1,703	121	308	202	530	49	29	468	1	16	9	12	80	295	95	152		
Swamp Sparrow	6,131	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Song Sparrow	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Lapland Longspur	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Snow Bunting	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total no. species	215	154	141	150	142	139	75	92	49	98	49	73	70	98	67	76	83	88	68	80	83	38	60	33	43	49	73	56	53		
Total no. individuals	61,647	22,029	36,884	8,981	12,772	16,175	2,599	7,273	1,091	65,457	1,399	5,038	10,793	26,782	8,867	8,799	2,012,968	1,206,977	1,859	5,646	10,101	591	1,202	213	767	2,314	2,766	626	3,169	3,447	
Field observers	532	20	9	18	23	44	37	5	7	8	7	14	7	20	15	24	40	36	6	14	26	9	17	2	10	17	13	49	34		
Yard observers	125	0	10	0	0	1	1	6	0	2	3	0	1	10	2	3	1	4	4	39	1	2	3	0	6	1	11	9	5		
Field parties	193	9	5	9	6	10	12	3	4	4	1	5	3	10	6	15	12	9	4	6	10	3	4	1	2	8	5	14	12		
Party-hours	1,508.5	104	49	92	37	73	99	28	46	9.5	38	8	34	28	78	30	75	98	84	40	32	64	10	42	20	35	70	75	110		
Party-miles	5,559	212	157	432	154	231	330	150	228	53	242	15	239	187	196	197	159	377	328	189	131	260	75	65	35	154	186	300	272		

* Seen in count area during count period but not on count day.
† Figure below includes some Black-capped Chickadees.

CHRISTMAS BIRD COUNT—1973

ELOISE F. POTTER

Despite inclement weather Charleston Christmas bird counters set the pace for Carolina Bird Club in 1973 with 162 species, only two short of Wilmington's 1961 record of 164. Although the Charleston list has a few interesting stragglers (Wood Thrush, Swainson's Thrush, and Rose-breasted Grosbeak), it includes nothing really rare for the locality. This outstanding census appears to be the result of thorough coverage, and all 44 observers should be commended for their fine effort.

The Charleston tally is representative of the 215 species found throughout the Carolinas during the present bird count—short on rare visitors from the north and long on lingering summer residents and fall migrants. Bodie-Pea Island (154 species) adds four names to the all-time Christmas Bird Count list: *Glaucous Gull*, *Black-throated Blue Warbler*, *Connecticut Warbler*, and *Yellow-headed Blackbird*. The two warblers are thought to represent first winter records for North Carolina. Hilton Head Island (139 species) adds the *Acadian Flycatcher* to the all-time list. These five additions minus four species (Blue Goose, Common Teal, Ipswich Sparrow, and Oregon Junco) recently lumped by A.O.U. bring the total to 277 species.

The 1973-1974 invasion of northern finches appears to be only moderate, but *Pine Siskins* (2,058) are relatively abundant. The number of *House Finches* (300) is the highest yet recorded in the Carolinas with one or more reported from 11 of the 29 count areas. The center of the population is in the North Carolina piedmont, primarily Winston-Salem (111), Greensboro (61), and Raleigh (40). Sightings of Rough-legged Hawks, Saw-whet Owls, Tree Sparrows, and Lincoln's Sparrows, though few in number, suggest the presence of more individuals than usual in the Carolinas this winter.

Although participants in those censuses taken during the first week of the count period (15 through 22 December) experienced some adverse field conditions, the weather was generally mild for December and decidedly pleasant for most of the counts made after Christmas. The gasoline shortage probably reduced the number of observers in a few places, but it apparently encouraged extensive coverage by foot, thus contributing to the overall excellence of the 1973 Christmas Bird Count in the Carolinas.

Please note the new arrangement of localities in the count table. Several sites that are on or near the fall line have been grouped under the heading "Fall Belt." Henderson, which has a count circle entirely within the piedmont, has been included in this new classification because of its proximity to Roanoke Rapids in the Roanoke River basin. The Editor welcomes your comments on this change and your suggestions for further modifications that might enhance the usefulness of the count table.

COMPILERS' COMMENTS

COAST

BODIE-PEA ISLAND, N.C. (center: 2.7 miles SSE of Bodie Island Lighthouse).

31 December. *Great Cormorant* (Dwight Peake, Richard Peake) was an immature bird flying north from Oregon Inlet; recorded in same vicinity on three of last four Christmas counts. *Cattle Egret* (Paul Sykes, John Williamson) and immature *White Ibis* (Claudia Wilds) are first Christmas count records for area. *Red Knots* (John Fussell, Wesley Messenger) were on flats at Oregon Inlet. The *Glaucous Gull* (Gilbert Grant, Lynn Messenger, Norman Messenger) was in second winter plumage and was studied in direct comparison with Great Black-backed and Herring Gulls on the beach at the northern tip of Pea Island. Although there are several previous winter records for the Oregon Inlet area, this is the first Glaucous Gull found on a Christmas count in the Carolinas. The

CBC CHRISTMAS BIRD COUNT STATISTICS

	1973	1937-1972
Total number species	215	230 (1972)
Total number individuals	6,315,366	7,636,868 (1960)
Number count areas	29	30 (1972)
Total number observers	657	653 (1972)
Field parties	193	180 (1972)
Party-hours	1,508.5	1,478.5 (1972)
Party-miles	5,554	5,623 (1971)

Highest number species:

Coast	Charleston, 162	Wilmington, 164 (1961)
Coastal Plain	Southern Pines, 92	New Bern, 95 (1966)
Fall Belt	Roanoke Rapids, 98	Roanoke Rapids, 103 (1972)
Piedmont	Raleigh, 98	Raleigh, 96 (1968)
Mountains	Buncombe Co., 73	Yancey-McDowell, 74 (1972)
Most individuals	Buncombe Co., 2,766,626	Clemson, 5,504,288 (1960)

1,250 *Great Black-backed Gulls* probably represent the largest number of this species ever found in North Carolina at one time. The 500 *Laughing Gulls* are a high count for the season (previous high, 36). The Ake party saw one adult and 34 immature *Black-legged Kittiwakes* from the boat, and eight additional immatures were found by land parties for a count record total of 43. The *Common Tern* (Robert Anderson), *Caspian Terns* (two parties), *Great Crested Flycatcher* (Harry LeGrand), adult male *Black-throated Blue Warbler* (Grace Russell, John Terborgh), adult male *Connecticut Warbler* (Dwight Peake), and female *Yellow-headed Blackbird* (Robert Anderson) were all seen well under favorable field conditions; all but Common Tern are first records for this count. One *Savannah Sparrow* was an "Ipswich" Sparrow. Fifteen of the Snow Geese were dark morphs.—PAUL W. SYKES JR., P.O. Box 2077, Delray Beach, Florida 33444.

MOREHEAD CITY, N.C. (center: 0.7 mile NW of Crab Point).

23 December. The number of *Loggerhead Shrikes* (10) is high for this area. Two female or immature *Common Eiders* were at Fort Macon on 24 December, one of them remaining in vicinity until at least 2 January (John Fussell III and others). Fussell found a *Saw-whet Owl* freshly killed on the highway 1 mile E of Atlantic Beach on 18 December for the first county record of the species. In addition, a "very tame little owl sitting on the parking lot" was described in Fussell's presence by an unidentified person. An unidentified goatsucker, probably a Whip-poor-will, was at Fort Macon 13, 26, and 28 December. On 20 December John O. Fussell II saw a hummingbird at close range in his own yard, but he could not be positive of the species. Four *Snow Buntings* (J.F. III) were at the south end of Radio Island on 27 December. They were feeding next to Ruddy Turnstones and Purple Sandpipers on a large concrete boat landing.—JOHN O. FUSSELL III, Box 520, Morehead City, N.C. 28557.

WILMINGTON, N.C. (center: Monkey Junction).

15 December. *Great Cormorant* (James F. Parnell) was in Cape Fear River. *Whimbrel* (John Fussell) was on Masonboro Island. *Spotted Sandpiper* and *Common Tern* were seen by compiler. *Laughing Gulls* are unusually abundant for season, but waterfowl are scarce.—FRANCES B. NEEDHAM, Box 81, Wilmington, N.C. 28401.

LITCHFIELD-PAWLEYS ISLAND, S.C. (center: entrance to North Litchfield Beach on US 17).

28 December. *Common Merganser* was seen by Julian Harrison, Margaret Harrison, and Philip Stoddard.—FREDERICK PROBST, Route 2, Box 80-C2, Pawleys Island, S.C. 29585.

CHARLESTON, S.C. (center: 14 miles NE of Mt. Pleasant and 0.5 mile E of US 17).

30 December. An excellent count despite the inclement weather! Snow Geese were dark morphs. *Wood Thrush* (Perry Nugent, Kenneth Hough), *Swainson's Thrush* (Nugent, Alan Bills), and male *Rose-breasted Grosbeak* (Nugent and others) are interesting stragglers even though previous winter records exist for all three species, Nugent saw the immature *White-crowned Sparrow* at close range in good light. The bird was in company with a variety of other sparrows, including White-throated Sparrows.—JULIAN R. HARRISON, Department of Biology, College of Charleston, Charleston, S.C. 29401.

HILTON HEAD ISLAND, S.C. (center: 32°12'N, 80°45'W, Spanish Wells Landing).

18 December. Nini Chapin saw the *Rough-legged Hawk* daily during the count period. *Acadian Flycatcher* was seen in good light by Frank Arnold and Tommy Sasser.—DAVID AND VIRGINIA HARRALL, 15 Plantation Drive, Hilton Head Island, S.C. 29928.

COASTAL PLAIN

BEAUFORT COUNTY, N.C. (center: where Upper Goose Creek enters Pamlico River).
30 December.—GERALDINE COX, Route 1, Box 151A, Merritt, N.C. 28556.

SOUTHERN PINES, N.C. (center: 1 mile NW of Skyline). The count circle was moved this year to encompass the new Lake Surf development, which will soon contain a 1,300-acre lake. The change has caused almost no loss of habitat normally covered on previous local counts.

21 December. *Sora* (John Fussell) was flushed at close range from a small cattail marsh; first winter record for area. Five *Lapland Longspurs* (Chris Marsh, John Fussell) were with 35 Horned Larks on a mudflat at Lake Surf, which is now filling. Longspurs have been found here previously this winter, constituting a new species for the county.—J.H. CARTER III, P.O. Box 891, Southern Pines, N.C. 28387.

DILLON, S.C. (center: Dillon).

31 December.—JOHN H. WILSON, Box 535, Dillon, S.C. 29536.

FALL BELT

ROANOKE RAPIDS, N.C. (center: 1.4 miles SE of Weldon).

27 December. Two immature *Whistling Swans* (Merrill Lynch, Cindy Johnson, Bill Collier) were at a large beaver pond near Weldon; third winter record for count circle area. The *Snow Goose* (Harry LeGrand) was an immature seen in flight with a dozen Canada Geese over the Johnston Farm ponds. *Common Mergansers* were in flight over Roanoke Rapids Lake where several had been found by the compiler during the previous 2 weeks. *Gray Catbirds* (5) and *Palm Warblers* (15) are unusually abundant for area. *White-crowned Sparrows* (17) seem to be regular winter residents in suitable habitat in the Oconeechee Neck region. The *Lapland Longspur* (Harry LeGrand) was in flight with five Horned Larks near the place they have been found the past two winters.—J. MERRILL LYNCH, 539 Henry Street, Roanoke Rapids, N.C. 27870.

HENDERSON, N.C. (center: Henderson).

27 December.—A.W. BACHMAN, 111 Jennette Avenue, Henderson, N.C. 27536.

COLUMBIA, S.C. (center: intersection Gill's Creek and Bluff Road, same as last 7 years).
29 December.—GILBERT BRISTOW, 2921 Blossom Street, Columbia, S.C. 29205.

AIKEN, S.C. (center: Couchton).

16 December. Solitary Vireo and Black-and-white Warbler were seen by compiler. Heavy overcast and poor light conditions caused count to be discontinued before sunset.—GERALD E. KNIGHTON SR., 304 Kirby Drive, North Augusta, S.C. 29841.

PIEDMONT

RALEIGH, N.C. (center: Norfolk and Southern RR crossing on Lake Wheeler Road).

22 December. The 98 species is a new record for a Raleigh Christmas Count. Noteworthy species were a dark phase *Rough-legged Hawk* (Harry LeGrand) at Lake Raleigh, a *Merlin* (Harry LeGrand) on Dix Hospital grounds, an *Oldsquaw* (Chris Marsh, David Whitehurst) at Lake Wheeler, and a *Northern Shoveler* (Marsh) at Lake Wheeler. The *House Finches* roost in a large fir tree in the Raleigh Rose Garden. Early morning ice on small ponds may have forced Mallards and Black Ducks into open areas of the larger lakes thus accounting for unusually good numbers of these species.—R.J. HADER, 3313 Cheswick Drive, Raleigh, N.C. 27609.

DURHAM, N.C. (center: 1 mile N and 1 mile E of junction of Eno River and US 501).

16 December. *Green Heron* (Norman Budnitz) flushed from the edge of a pond. The female or immature *Brewer's Blackbird* was found by Robert Ridgely, who is familiar with the species from field work in the western United States and Canada. The bird was surrounded by flocks of Starlings, Red-winged Blackbirds, and Brown-headed Cowbirds, but it did not associate with any of them. Two female or immature *Blue Grosbeaks* (Ridgely) were brown with good tan wing bars, gave "spink" call, and constantly flicked tail to side in an abrupt manner. The habitat was a soybean field. The birds could not be found 2 days later following 5 inches of snow and subfreezing temperatures. The 10 immature *White-crowned Sparrows* were in a single flock.—NORMAN BUDNITZ, Department of Zoology, Duke University, Durham, N.C. 27706.

CHAPEL HILL, N.C. (center: intersection of Franklin and Columbia Streets).

30 December. Among our more unusual sightings were 5 *Palm Warblers* (four parties), a *Common Yellowthroat* for the third consecutive year, a *Tree Sparrow* (compiler), a high count of 9 *White-crowned Sparrows* (three parties), and an almost incredible report of 6 *Lincoln's Sparrows* by Edwin Lappi. Our 453 Mourning Doves were 50% over our record in 13 counts. The number of Common Grackles is 40 times our previous high, which probably is not significant for an erratic blackbird species. Wide variations in our recent counts of Water Pipits and Savannah Sparrows are attributed to minor changes in the portions of the count circle covered from year to year.—JAMES O. PULLMAN, Route 6, Box 149, Chapel Hill, N.C. 27514.

GREENSBORO, N.C. (center: Radio Station WBIG transmitter).

29 December. Count area included a multi-acre roost estimated by seven observers to contain 2 million birds. A mixed population of Starlings, Rusty Blackbirds, Brown-headed Cowbirds, Red-winged Blackbirds, and Common Grackles attracted a Red-tailed Hawk. The *Oldsquaw* was present for several days on a small pond along with a single Mallard.—DONALD ALLEN, 2611 David Caldwell Drive, Greensboro, N.C. 27408.

WINSTON-SALEM, N.C. (center: intersection of I-40 and Silas Creek Parkway).

29 December. *Blue-winged Teal* was found by Romona Snavely, Ruth Hill, and party. *Water Pipits* have been present in unusually large numbers all fall. Starlings and grackles were in two large roosts within count area. This is the largest number of *House Finches* yet reported in area. *Tree Sparrow* (Sue Moore, Ann Pollard) and *Lincoln's Sparrow*

(Ramona Snively) are unusual, but both have been found previously on local Christmas counts.—C. ROYCE HOUGH 713 Lankashire Road, Winston-Salem, N.C. 27106.

IREDELL COUNTY, N.C. (center: South Yadkin River bridge on 115 W).

30 December. *Gray Catbird* (Jane Mullen) was present for second consecutive winter. *Red Crossbill* (Larry Marlin, Dwayne Hayes) is second sighting for Iredell County. *Bonaparte's Gull* (five observers including compiler) is second county record. *Pine Siskins* are first reported sighting in county. The local increase in *Eastern Bluebirds* is notable.—JANE S. MULLEN, 728 E. Broad Street, Statesville, N.C. 28677.

STANLY COUNTY, N.C. (center: 2 miles NW of Badin).

29 December. *Common Loon* (Barrett Crook, Harold Morris) is second record for county. *Bald Eagle* (Raymond Barker, David McCarn) was near Badin Dam. *Bonaparte's Gull* (Vivian Whitlock, Bessie Morgan, Mattie Gereg) was on Badin Lake; first count record. [No details on Saw-whet Owl.—ED.] The *Sharp-tailed* and *Bachman's Sparrows* (Vera Crook, Margaret Crawley) were on the Smith farm, the same place where Henslow's Sparrows were found last year. *Eastern Bluebirds* and *House Finches* are more abundant than in previous years.—MRS. BARRETT CROOK, Route 1, New London, N.C., and MRS. JOHN WHITLOCK, Box 219, Albemarle, N.C. 28001.

CHARLOTTE, N.C. (center: intersection of South Boulevard and Woodlawn Road).

29 December. The number of *Wood Ducks* was high for the season and area. *Common Yellowthroat* (Doug Pratt) appeared for the first time on a winter count. *Brewer's Blackbird* (David and Jeff Wright) showed up for the second time in three years. The find of the day was a late or over-wintering *Grasshopper Sparrow* (Lee Jones) flushed from a plowed field about a mile SE of Wither's Bridge on Catawba River bordering York County, S.C. The total number of species (83) is the highest ever recorded on a Charlotte Christmas Bird Count.—JOE AND BECKY NORWOOD, 1329 Goodwin Avenue, Charlotte, N.C. 28205.

GREENVILLE, S.C. (center: intersection of Hwy 29 and 291).

29 December.—ROSA LEE HART HARDIN (Mrs. W.B. Hardin Sr.), Cleveland, S.C. 29635.

ELKIN-RONDA, N.C. (center: 3 miles N of Elkin on US 21).

26 December. This is the first appearance of the *House Finch* and *Tree Sparrow* on the count day, but both have occurred during the count period in prior years.—LIN HENDREN, P.O. Box 148, Elkin N.C. 28621.

NORTH WILKESBORO, N.C. (center: North Wilkesboro).

28 December.—WENDELL P. SMITH, 911 E Street, North Wilkesboro, N.C. 28659.

CALDWELL COUNTY, N.C. (center: Lenoir).

28 December.—MISS HELEN MYERS, 310 Beall Street NW, Lenoir, N.C. 28645.

MOUNTAINS

AVERY COUNTY, N.C. (center: entrance to Grandfather Mountain toll road).

15 December. CORRECTION: In the table for the 1972 Christmas Bird Count (*Chat*, 37:9) Avery County should be listed as reporting 16 *Ruffed Grouse* and no *Sparrow Hawks*. Total individuals for these species should be changed to 331 Sparrow Hawks and 36 Ruffed Grouse.—MRS. JAMES PLYMIRE, Box 306, Linville, N.C. 28646, or R.D.2, Chestertown, Maryland 21620.

BUNCOMBE COUNTY, N.C. (center: intersection of US 70 and SR 2740, Swannanoa.)

15 December. *Snow Goose* (Hall family) was with a flock of Canada Geese in the

Fairview area, and its solid white body with black wing-tips made it conspicuous. The pink legs and bill could be seen as it flew low over Echo Lake. Three male *Northern Shovelers* (Halls) were on a small farm pond. *Merlin* (Halls) was seen both perched and in flight. *Saw-whet Owl* (Halls) was heard along Blue Ridge Parkway at 06:40. *House Wrens* are unusually abundant for this season, perhaps due to unseasonably warm weather. *Gray Catbird* (Halls) was in a multiflora rose hedge. *Tree Sparrows* (Halls) were in two flocks about 4 miles apart in the Fairview area. *Common Snipe* was fould near Chunn's Cove by Plumer Wiseman of Danville, Virginia. *Rusty Blackbirds* (Halls) remained near the roost after other species had left; identified by call.—ROBERT C. RUIZ, 300 Wilson Avenue, Swannanoa, N.C. 28778.

BREVARD, N.C. (center: 7 air miles SE of Brevard, 0.5 mile N of intersection of US 276 and SR 1584).

29 December. Count day saw arrival of strong, wet weather front and receding waters from major flooding of French Broad River. *Mallards* (Susan Holland, Doris Guest) were feeding in flooded pastures. *Rusty Blackbirds*, *Brewer's Blackbirds*, *Common Grackle*, and *Brown-headed Cowbird* (Eloise Fenneberg, Mrs. R. Tish) were seen during passage of major weather fronts. *Swainson's Thrush* (Bill and Ellen Cook) was sighted regularly at a feeder from 8 November through 28 December.—WALTER HOLLAND JR., 290 Maple Street, Brevard, N.C. 28712.

GREAT SMOKY MOUNTAINS NATIONAL PARK, N.C.-Tenn. (Bull Head of Mt. Le Conte).

30 December.—DONALD H. DeFOE, Great Smoky Mountains National Park, Gatlinburg, Tennessee 37738.

FIELD OBSERVERS

BODIE-PEA ISLAND, N.C.: Robert Ake, Robert Anderson, Keith Fielder, John Fussell, Gilbert Grant, Harry LeGrand Jr., Paul McQuarry, Lynn Messinger, Norman Messinger, Wesley Messinger, Dwight Peake, Richard Peake, Grace Russell, Ross Silcock, Paul Sykes Jr., John Terborgh, Claudia Wilds, Gary Williamson, John Williamson, Mark Williamson. Boat courtesy of U.S. Coast Guard, Oregon Inlet. (Cape Henry Audubon Society and guests).

MOREHEAD CITY, N.C.: Clint and Doris Benbow, Judy Eubanks, John O. Fussell II, John Fussell III, Donna Goodwin, L.J. Klein, Joyce Lewis, Charles Lincoln, Chris Marsh, Darryl Moffett, David Morris, Mary Nicholson, Rebecca Norris, Bob and Mary Simpson, Clay Smith, Daniel Vaughn, E.W. Warner.

WILMINGTON, N.C.: Mrs. Cecil Appleberry, Bobby Austin, Robert Brown, J.H. Carter III, Mrs. Sam Earle, John Fussell, Haskell Hart, Kitty Kosh, Harry Latimer III, Harry LeGrand, A.G. Massey, Mrs. W.C. Mebane, Frances Needham, James F. Parnell, James Poteat, Charlotte Waggett, Pete Roberts.

LITCHFIELD-PAWLEYS ISLAND, S.C.: Jeannine Angerman, Calvin Clyde, Evelyn Dabbs, Betsy Eaddy, Dennis Forsythe, Jean Forsythe, Julian Harrison, Margaret Harrison, Pete Laurie, David C. McLean, David McLean Jr., Joe McLean, Mary Lou McLean, Stephen Meyers, Perry Nugent, Frederick Probst, Renee Probst, John Reed, Mary Reed, Smith Salisbury, John Schenk, Rebecca Schenk, Philip Stoddard.

CHARLESTON, S.C.: Bill Anderson, Jeannine Angerman, Ted Beckett, Alan Bills, E.B. Chamberlain, David Chamberlain, Norman Chamberlain, Calvin Clyde, John Dick, Dielle Fleischmann, Melanie Fleischmann, Sallie Fleischmann, Dennis Forsythe, Harry Freeman, Jim and Patty Fulcher, Devin Garrity, Tommy Graham, Betsy and Hilda Griffin,

Margaret and Julian Harrison, T.F. Hassell, Kenneth Hough, Katherine Huger, Bobbin and David Huff, Stanley Langston, Peter Laurie, John Manzi, Isaac and John Metcalf, Perry Nugent, Robert and William O'Dell, Frederick and Renee Probst, John and Mary Reed, Jay Shuler, Arthur and Gayle Smith, Grant and LeAnn Staley.

HILTON HEAD ISLAND, S.C.: Frank Arnold, Gordon Benford, Doris and Seward Bowers, Nancy Butler, Nini Chapin, Marj Fowler, Billie Hack, John Hannold, David and Virginia Harrall, Dorothy Hitchcock, Helen and Royce Hough, Isabel Hurst, Charlotte and Edith Inglesby, Donald and Louise Lacoss, Mildred Lawrence, Helen Lorient, Imogene Lowden, Olin and Violet McIntosh, Caroline Newhall, Muggs Park, Helene Parry, Thomasia Phillips, Beryl and Kieth Pitcairn, Lois Pitcairn, Betty and Wallace Roy, Tommy Sasser, Mary Smith, Elizabeth and Robert Whitney.

BEAUFORT COUNTY, N.C.: Geraldine Cox, James McLaurin, Mary McLaurin, David Morris, Louise Satterthwaite, Mary Wilson.

SOUTHERN PINES, N.C.: Bobby Austin, Dana Carter, J.H. Carter III, Vera Chase, Laurence Davis, Roberta Davis, John Fussell, Harry LeGrand, Chris Marsh, Frances Needham, Lura Williams, Mary Wintyen, Ethel Wotton.

DILLON, S.C.: John H. Wilson.

ROANOKE RAPIDS, N.C.: Bill Collier, Betty Davis, Louis Fink, Louise Hutchinson, Cindy Johnson, Harry LeGrand, Merrill Lynch, Louise Parker, Gus VanVliet, John Wright.

HENDERSON, N.C.: Neita Allen, Mr. and Mrs. A.W. Bachman, Annie G. Burroughs, Mrs. Russell Parham, Mrs. Howard Stewart, Paul Stewart.

COLUMBIA, S.C.: Gilbert Bristow, John Hughes Cooper, Mary Desportes, Russell Green, Mrs. Blanding Guignard, Frank Hill, Johnny Kinsey, Jeanette Mahoney, Nina Reid, Eddie Rowland, Kay Sisson, Glenn Smith, Meta Smith, Emma Walker.

AIKEN, S.C.: Jeanne Angerman, Charles Braun, Jack Cooper, Fred Denton, Gerald Knighton, Vivian Poindexter, Tom Rial.

RALEIGH, N.C.: Betty and Lloyd Davis, Mrs. T.M. Donaldson, Louis Fink, John Fussell, Charlotte Hilton Green, R.J. Hader, Jeanne and Ray Halsey, Roberta Horton, Mabel Jones, Kenneth and David Knapp, William Lassiter, Joshua Lee, Harry and Edmund LeGrand, Chris Marsh, Edna Miller, T.L. Quay, Bob Smart, Mary Smith, Pat Sprunt, Elizabeth and Robert Teulings, David Whitehurst, Gail Whitehurst, Mrs. T.M. Wilson, Ray Winstead, John Wright.

DURHAM, N.C.: Jo Booser, Norman Budnitz, Caroline Carter, Robin Carter, Chip Chandler, Gil Ewing, Alexander Hull, Reed Kelley, Robert Klein, David Morris, Ted Nixon, Julie Ridgely, Robert Ridgely.

CHAPEL HILL, N.C.: Stanley Alford, Charles Blake, Annie Broughton, Elizabeth Calhoon, Forrest Calhoon, Angello Caparella, Caroline Carter, Robin Carter, Louise Crumpacker, Eric Garner, Lois Garner, Steve Hoverman, Isabelle Hoverman, Russell Hoverman, Paul Koepke, R. Koster, Edwin Lappi, Gertrude London, Johnnie Payne, James Pullman, Barbara Roth, Elizabeth Teulings, Kelsey Wager, Eleanor Wagstaff, Albert Walker, Ed Welch.

GREENSBORO, N.C.: Carolyn Allen, Donald Allen, Rose Avery, Virginia Bell, Helen Black, Edwin Blich III, Carolyn Brown, Kenneth Brown, Madeline Cason, Eve Craft,

Larry A. Crawford Jr., Charlotte Dawley, Frank L. Fish, Mildred Fish, Dot Garrett, Jean Gertz, Rebecca Greaves, Howard Groover, Ellene Kirk, Ellen Knight, Ben Lambeth, Kathryn Lambeth, Robert L. Lasley, James Mattocks, Jean McCoy, Ethel McNairy, Ida Mitchell, Beryl Norcross, Elizabeth Ogburn, Emma Leah Perrett, Etta Schiffman, Virginia Seawell, George Smith, Irene Smyre, Thomas E. Street, Marjorie Tays, William Tays, James Weigand, Daphne Weisner, Maude Williams, Helen Zuk.

WINSTON-SALEM, N.C.: Fran Baldwin, Olive Boice, William Boice, Zach Bynum, Charles Frost, Gardner Gidley, Margaret Gidley, Louise Gossett, Fred Hill, George Hill, Ruth Hill, Kevin Hints, Royce Hough, Jean Isenhower, Ike Isenhower, Hank Kudlinski, Kay Kudlinski, Janice Levitt, Ann Listokin, Mary McGehee, Sue Moore, Jim Orgain, Barbara Page, Ann Pollard, Susan Provost, Jackie Shelton, Mark Shelton, Dorothy Shiffert, Jerry Shiffert, Margaret Shirling, Ramona Snavelly, S.C. Sommer, Paul Spain, Royce Weatherly, Bob Witherington.

IREDELL COUNTY, N.C.: Lois Goforth, Dwayne Hayes, Flippen Jones, Larry Marlin, Bobby Mize, Jane Mullen.

STANLY COUNTY, N.C.: Raymond Barker, Margaret Crawley, Barrett and Vera Crook, Virginia Foglia, Mattie Gereg, Terry Hahn, Vera Littleton, David McCarn, Bessie Morgan, Harold Morris, Ann Olsen, Taimi Olsen, Vivian Whitlock.

CHARLOTTE, N.C.: Dale and Josette Arvey, Elizabeth Clarkson, Teresa Cline, Bill and Flo Cobey, Adrian and Beth Dykema, Gina Elliott, Susan Ennett, Gwen Fenninger, David Frech, Jack Hamilton, Herbert and Martha Hechenbleikner, Lee Jones, Bobby Klutz, Joe and Becky Norwood, Shuford and Katherine Peeler, Doug Pratt, Ed Read, Al Ross, Donald Rousar, David and Jeff Wright (Mecklenburg Audubon Society).

GREENVILLE, S.C.: Wilma Abrams, Mary Austin, Ruth Gilreath, Rosa Lee Hardin, Gladys Hart, Lillie Hart, Martha Lawrence, William Lawrence, May Puett.

ELKIN-RONDA, N.C.: Alex Biggs, Tim Bontecou, Tom Bryan, Gary Burchette, Herbert Cochran, C.C. Dudley, Gordon Getsinger, Elizabeth Harris, Virginia Hart, Lin Hendren, Ola Hendren, Tom Hendren, David Hasse, Lee Hasse, E.M. Hodel, Lewis Petree, Mike Randleman, William Roth, W.P. Smith, Jerry Tysinger.

NORTH WILKESBORO, N.C.: Louise Smith, Wendell Smith.

CALDWELL COUNTY, N.C.: Mrs. Glen Barnes, Mrs. Clarence Beach, Isabel Bernhardt, Mrs. Murray Bruner, Mr. and Mrs. C.G. Hughes, Mr. and Mrs. E.M. Manchester, Mr. and Mrs. Fred May, Helen Myers, Mr. and Mrs. Henry Parker, Mrs. C.S. Warren, Mrs. Dickson Whisnant, Joyce Bruner Whitman.

AVERY COUNTY, N.C.: Cecilia and Charles Bureson, Winston Church, Rip Collins, Hall family (John, Joy, Joyce, Mark, and Walter), Agnes Mayer, Hugh Morton, Dennis Myers, Margaret Plymire, Margery Plymire, Dick and Dixie Proctor, Sallie Southerland.

BUNCOMBE COUNTY, N.C.: Betty Ball, Robert Bruce, Dennis Carter, Wendell Cisco, Ken Durant, Margaret Finch, Joy Hall, Joyce Hall, Walter Hall, Easton Hulme, Lewis Kort, Meryle Kort, Gordon Mahy, Vauda Rauchwerger, Betty Ruiz, Robert Ruiz, Chris Rustay, Doris Sargent, Roland Sargent, Mary Sawyer, Joan Steeves, Plumer Wiseman, Thomas Wood, Vertice Wood.

BREVARD, N.C.: Eleanor Ashworth, Glenna Ball, Herbert Ball, Lydia Barrett, Paul Barrett, Len Berg, George Blaha, Mildred Blaha, Patrick Bohan, Rick Bohan, Lucille Cain, Bill Cook, Ellen Cook, Nell Cuthell, Louise Davidson, Owens Davidson, Eloise

Fenneberg, Connie Foster, Ercel Francis, George Francis, Dick Garren, Doris Guest, Frank Guest, Charles Haag, Velma Haag, Tom Hallowell, Byrniece Hansbrough, Ed Hansbrough, Curt Holland, Gail Holland, Susan Holland, Walter Holland Jr., Olive Hutchenson, Genevieve Lilly, Estle Lyon, Gaylord Lyon, Betty McIlwain, Walter McKelvey, Josephine Palmer, Dewitt Parsons, Helen Parsons, Wilson Peek, Elizabeth Provence, Donald Reese, Gladys Reese, Hazel Roberts, Hervey Roberts, Joe Schatz, Joyce Schatz, Lilian Scott, Glenn Snyder, Marge Snyder, Annette Sprott, Mrs. R. Tish, Claude Viens, Eleanor Viens, Doug Wauchope, Arthur Wood.

GREAT SMOKY MOUNTAINS NATIONAL PARK, N.C.-Tenn.: Winnifred Brown, James Campbell, Glenn Cardwell, Nancy Clark, Mary Francis Davidson, Don DeFoe, Jay DeFoe, Lori DeFoe, Shirley DeFoe, James Dingwall, Mildren Garrison, David Hassler, Robbie Hassler, J.C. Howell, Lucinda Ogle, Chester Massey, Debbie Massey, Eleanor Massey, Morton Massey, Terry McGown, Cynthia Muffly, Gary Muffly, Muriel Monroe, Louise Nunnally, J.B. Owen, Paul Pardue, Pauline Ryder, Boyd Sharp Jr., Mary Sharp, Nape Shelton, Johneta Smith, Louis Smith, Arthur Stupka, Margaret Stupka, George Wood, Hedy Wood, Bill Williams, Irene Williams, Dick Zani.

BOOK REVIEWS

KEY TO NORTH AMERICAN WATERFOWL. — Stephen R. Wylie and Stewart S. Furlong. Illustrated by Jack R. Schroeder. Livingston Publishing Company, 18 Hampstead Circle, Wynnewood, Pennsylvania 19096, 1972. 32 p. \$3.95.

Printed on opaque plastic instead of paper, this sturdy waterproof booklet provides even the novice hunter with a means of identifying waterfowl before he shoots. In addition to color illustrations of the hen and drake at rest in winter plumage, it offers black-and-white flight drawings and silhouettes of the birds taking off from water. Text consists of size, weight, conspicuous color markings, flight patterns, food preferences, and habitat preferences. Color-coded symbols indicate relative abundance of each species in each flyway. While this book is of limited interest to the experienced bird watcher, it should be very helpful to hunters and more convenient to carry than the standard field guides. — EFP

LANDSCAPING FOR BIRDS. — Shirley A. Briggs, editor. Audubon Naturalist Society of the Central Atlantic States, Inc., 8940 Jones Mill Road, Washington, D.C. 20015, 1973. 62 p. Illus. Paperback, \$1.75 (\$2.00, postpaid mail orders; 40% discount for 10 or more copies).

This collection of seven informative articles that originally appeared in *Atlantic Naturalist* contains many practical suggestions for making city and suburban yards more attractive for birds by landscaping with plants that provide excellent cover, nesting sites, or natural food sources. Although the text does not use scientific names for plants, the index does, thus resolving any problems that may arise from regional variations in use of common names. After reading this booklet I added several new plants (barberry, bittersweet, and fragrant sumac) to my yard and began to view some established trees and shrub with new respect. If the mark of a good book is its making the reader take positive action, I must give this one my wholehearted endorsement. — EFP