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CURRENT DIRECTORY

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EDITORIAL STAFF

Editor: Christopher J.E. Welsh, 5337 Hickory Hollow Rd, Knoxville, TN 37919 <cwelsh@utk.edu>

Assistant Editor: Charles P. Nicholson, Box 402, Norris, TN 37828 < cpnichol@bellsouth.net > State Count Compiler: Ron Hoff, 282 Hackworth Lane, Clinton, TN 37716 < dollyron@icx.net >

Season Editor: Richard L. Knight, 804 North Hills Dr., Johnson City, TN 37604 <rKnight@preferred.com>

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The TOS website can be found at: www.tnbirds.org

Send subscriptions & address changes to:

Tennessee Ornithological Society, Box 10452, Knoxville, TN 37939-0452

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RAPID NEST-SITE SELECTION AND INITIATION OF NESTS ON COMMERCIAL AIRCRAFT BY EUROPEAN STARLINGS

JEROME A. JACKSON
Whitaker Center, College of Arts and Sciences
Florida Gulf Coast University
10501 FGCU Blvd. South
Ft. Myers, Florida 33965

Birds and airplanes are a combination that biologists and those concerned with air safety try to avoid. Modern radar helps warn pilots of bird concentrations that pose a threat, and intensive management of habitats (e.g., reducing potential nest sites, food and water sources) and use of bird-scaring devices are directed towards minimizing bird activity at airports. Such efforts, however, have focused on the threat posed by planes in flight colliding with birds (e.g., Blokpoel 1976). Such an emphasis is justified by the loss of at least 190 lives, 52 planes, and millions of dollars in damage caused by bird strikes involving civilian airplanes between 1912 and 1995 (Thorpe 1996). However, birds can pose other hazards to aircraft. I was made aware of this as a pilot when I observed an Eastern Bluebird (Sialia sialis) carrying nest material into the engine compartment of a plane I had just rented near Columbus, Mississippi. When I opened the engine cowling, I discovered enough nest material to have started an engine fire had I flown the plane. That plane had not been flown for several days. Recently I observed just how quickly birds would take advantage of potential nest sites in an airplane. Here I describe that incident, call attention to a potential problem, and suggest management that might minimize the threat.

While waiting for a flight from Northwest Arkansas Regional Airport at 0740 on 6 May 2001, I observed a European Starling (Sturnus vulgaris) land on the top of the tail fin (vertical stabilizer) of a Trans World Express ATR 42 airplane and begin displaying. At 0755 a second starling flew to the plane with an approximately 20-cm-long (8 inch) piece of grass and disappeared into an opening at the bottom of the vertical stabilizer just above the rudder or a niche associated with the top hinge on the rudder. The bird left without the grass. Over the course of the next 2 hours up to three starlings at a time were perched on the tail fin and they made 9 trips to the plane with pieces of grass which they left at the same site. I was watching from the terminal building and was never able to clearly see where the grass was placed.

John Buckley of the ATR aircraft company suggested that an inspection plate might have been left off or that the birds were placing the grass into a cleft associated with the hinge.

The starlings obtained the grass from the closely mowed infield approximately 50 m from the plane. I observed up to 15 additional starlings on the ramp side of the airport, including two that perched and displayed on the tail fin of another aircraft and once carried grass to that plane. The starling carrying grass to the plane was out of sight and placement of the grass at a site on the plane was probable, but not observed. At one point an adult male Common Grackle (Quicalus quiscula) landed on the tail fin of the Trans World Express airplane, but a starling quickly displaced it.

A check with Trans World Express personnel revealed that the plane had arrived at the airport at 1830 the previous evening. Thus the birds had little time to discover the potential nest site on 5 May. On the morning of 6 May, a light rain was falling until about 0730 and intermittently until about 0800. It appears that these birds had discovered the potential nest site, claimed it, and initiated nesting activity within a matter of a little over an hour. However, Trans World Express operates on a daily schedule and the same or a similar plane sits in the same spot overnight each night. It is possible that the birds had discovered the potential nest site earlier and were quick to reclaim it when it appeared each morning. The regularly scheduled departure of the plane was at 1102 each morning, so there is a period of approximately 5 hours each day that the plane would be available for occupation by the birds.

Adjacent to the airport and within view of the planes was a house with outbuildings that appeared to shelter livestock. The surrounding countryside included numerous small farms with livestock, rolling hills with patches of forest and wooded fencerows. In short, this was excellent habitat for starlings. Nesting on airport property was facilitated by the apparent schedule of mowing that allowed grasses and weeds to grow to at least 15-20 cm (6-8 inches), the height of vegetation along the runway and taxiway. At this height, when mowed, stems of grasses and weeds were of lengths suitable as nest material for starlings, House Sparrows (*Passer domesticus*), Common Grackles, and Eastern Meadowlarks (*Sturnella magna*) — all of which I observed on the airport during the four hours I was there. Dried, cut grass stems collected as nesting material by the starlings were evident, accumulated on the concrete at the edges of runways and taxiways and forming scattered small mats in adjacent grassy areas.

While successful nesting of starlings in an aircraft parked for such a short time is out of the question, an accumulation of nesting material within cavities associated with either the engine, wheel wells, or stabilizers could affect the safe operation of the aircraft. Shorting of electrical systems, impairment of hydraulic systems, and/ or fire resulting from even a small accumulation of nesting material are possibilities, though I cannot estimate the severity of these threats.

European Starlings begin investigating nest sites in late winter, usually by February or March. Nesting typically occurs between mid-March and mid-June (Cabe 1993). Males select the nest site and display near it to attract a female. In the case of the ATR-42 aircraft, the approximately 6-inch long static discharge rod extending back from the top of the tail fin provided a perfect perch for the displaying male. It

was within a few inches of the site where the birds were placing the grass. Starlings are very efficient birds and are capable of constructing a nest in a single day (Kessel 1957).

To minimize bird hazards to aircraft, the first objective of airport management should be to reduce the attractiveness of habitats on the airport to birds. Such action would minimize efforts needed to scare birds from the site. In this case, reduction in availability of potential nesting material and food (seeds produced by taller plants and arthropods and other invertebrates sheltered by vegetation mats) could be achieved by more frequent mowing such that long stems are not available, and possibly by use of mulching equipment that would chop stems into smaller pieces. The magnitude of the problem of providing a habitat attractive to starlings at an airport is clear: blackbirds and starlings were the second most frequent birds hit by aircraft between 1991 and 1998, and damage resulting from these bird strikes was estimated to cost \$549,000 (Dolbeer et al. 2000).

ACKNOWLEDGMENTS

I thank John Buckley, from ATR Aircraft for his help in understanding where the starling might have been placing the nesting material. This is contribution number 9 from the Whitaker Center for Science, Mathematics, and Technology Education at Florida Gulf Coast University.

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THE 2000 CHRISTMAS BIRD COUNT

Christopher J.E. Welsh 5337 Hickory Hollow Rd. Knoxville, TN 37919

Reports were obtained from 26 counts conducted in Tennessee for the 2000-2001 Christmas Bird Count season. Over 2,600,000 individual birds representing 146 species were counted (Table 1). Most regions of Tennessee experienced another relatively mild fall and early winter, but conditions changed considerably for the Christmas count period with snow and cold temperatures reported on a number of counts. Several counts experienced heavy rain on count day. The mild conditions in early winter may have contributed to the presence of species not normally found in Tennessee this late in the year while the colder weather for the count period may

have pushed some species south in greater numbers than usual.

Nine species were represented by a single individual on this year's counts; 13 species were reported from only a single count on count days. Nineteen species were found on count day on all 26 counts. Three additional species (Eared Grebe and Tree and Barn Swallow) did not appear on a count day but were reported during count week on one count each. Winter finch numbers were low with no Evening Grosbeaks and only one Red Crossbill (on the Savannah count). Eurasian Collared-Doves continued to increase with 206 found on four counts (plus more count week on a fifth count) compared to 59 on three counts last year. Particularly notable was the influx of American Pipits, Horned Larks, Lapland Longspurs, and American Tree Sparrows. These species were new or at unusually high numbers on many counts across the state. Lapland Longspurs were found on eight counts versus only two last year, and American Tree Sparrows were observed on seven counts (only three last year). Brewer's Blackbirds were reported from seven counts this year but on only one last year. Common Mergansers, reported on a single count last year appeared on four counts this year. Observers on the Jackson count were amazed, or perhaps nearly overwhelmed, by a huge mixed flock of well over a million blackbirds. Interestingly, while Jackson was overrun, several counts missed Common Grackle and Brown-headed Cowbird completely. Shorebirds were few and far between with Least Sandpiper as the only unusual species. Raptors made a nice showing with Broad-winged Hawk on one count, Osprey and Peregrine Falcon on two counts, Golden Eagle on three counts, Rough-legged Hawk on four counts, and Merlin on five counts. Yellow-throated Warbler was a most unusual bird on the Knoxville count, as was Smith's Longspur on the Reelfoot count.

Other species of note (number of counts) included American White Pelican (1), Great Egret (2), Black-crowned Night-Heron (3), Tundra and Mute Swan (1 each), Greater White-fronted Goose (3), Ross's Goose (2), Blue-winged Teal (1), Surf Scoter (1), Long-tailed Duck (2), Northern Saw-whet Owl (1), Short-eared and Barn Owl (2 each), Rufous and Selasphorus sp. Hummingbirds (2 and 1), Fish Crow (1), Black-capped Chickadee (2), Sedge and Marsh Wren (2 each), Blue-headed Vireo (1), and LeConte's Sparrow (5).

Thanks to the Jackson count, four out of the top five species based on abundance were blackbirds. The ten most abundant species, based on number of individuals

reported, were: (1) Red-winged Blackbird, (2) European Starling, (3) Common Grackle, (4) Brown-headed Cowbird, up from 17th a year ago, (5) American Crow, (6) Mallard, (7) American Coot, (8) Ring-billed Gull, (9) Canada Goose, and (10) Sandhill Crane. Horned Larks, found on 11 counts, were the 12th most abundant species, and Lapland Longspurs, on eight counts, were 26th. Brewer's and Rusty Blackbirds, on seven and 15 counts respectively, were 20th and 21st.

The Reelfoot count, with 106 species recorded on count day and an additional 6 found during count week (Table 1), again set the standard for Tennessee CBC's. However, Savannah, was close behind with 110 count day species. Chattanooga and Hiwassee were the only other counts to reach the century mark, both tallying 100 count day species. Eight counts had 90 or more count day species, and five counts reported 80-89 species. Twenty-two of the 26 counts included at least some time owling.

Ron Hoff has taken over as the state compiler for the Tennessee Ornithological Society. Future spring and Christmas count data should be sent to Ron at 282 Hackworth Lane, Clinton, TN 37716 or e-mail to dollyron@icx.net.

INFORMATION ON THE COUNTS

BRISTOL (36°35' N, 82°06'W): 31 Dec. 2000; 0700-1800. Weather: cloudy with light snow; wind NW 0-8 mph; temp. 17-24 °F; still and moving water partially frozen. Fifteen observers in six parties covered 406.5 miles in 55 hours. Owling effort included five hours and 35 miles. 83 species plus one count week; 12,188 individuals. Participants: Rob Biller, Ron Carrico, Wallace Coffey; Bert, Ken, and Loraine Hale; Kevin Hamed, Andy Jones, Rick Knight, Geoff Larsen, Richard Lewis (compiler: 407 V.I. Ranch Road, Bristol, TN 37620; mountainbirds@email.com), Janice Martin, Larry McDaniel, Bob Quillen, and Anthony Whitted. Sandhill Crane and Merlin were new for the count. Other highlights included a count week Eared Grebe, Double-crested Cormorant, Greater Scaup, Common Goldeneye, Red-breasted Merganser, and Red-headed Woodpecker. An unidentified peep sandpiper was seen on count day, and probably the same bird was identified as a Least Sandpiper during count week. High counts were reported for Mallard (record high), Redhead, Cooper's Hawk; Red-bellied, Downy, and Hairy Woodpecker; Cedar Waxwing (record high), Eastern Towhee, and White-Crowned Sparrow.

BUFFALO RIVER (35°18' N, 87°28'W): 28 Dec. 2000; 0630-1700. Weather: cloudy a.m., partly cloudy in afternoon; wind N 8-15 mph; temp. 27-35 °F; still water partly frozen, moving water open. Sixteen observers in six parties put in 61 party hours and covered 507.5 party miles. In addition, 2.5 hours and 16 miles effort went into owling. 80 species plus five count week; 22,878 individuals. Participants: Michael Beuerlein, Connie Hollman, Billy Engels, Chester and Dorothy McConnell, Royce Neidert, Jane Newell, Carole Owen, Muriel Ross, Ann and Mike Sanders, Donette Sellers, Don Simbeck (compiler: 424 Riddle Lane, Loretto, TN 38469; dnks@lorettotel.net), Alexander and Morris Williams, and Buford Worn. Highlights were Double-crested Cormorant, Great Egret, Golden Eagle, Sandhill Crane, and nice numbers of Wild Turkey, Horned Lark, and Lapland Longspur.

CADES COVE (35°36' N, 83°50'W): 30 Dec. 2000; 0820-1550. Weather: overcast and snowing a.m., cloudy with snow showers p.m.; 1-3" snow on the ground above

Table 1. Species observed, number of individuals, and effort for 26 Christmas bird counts conducted in Tennessee during the 2000-2001 Christmas count period.

Species	Fayt Cty	Memp	Reel Lake	Jack	102Sav	Buff Riv	Colum	Clarks	Nash	Hick Priest	Murf	Leb
Common Loon		-	2		15		-	2	14	1	-	
Pied-billed Grebe	1	14	122	7	93	cw	1	3	1	35	4	
Horned Grebe		-	6	1	9	cw		1000	-	44		-
Eared Grebe		-	_	12	(20)	-		2	2	1	-	- 2
American White Pelican		13	7		*		÷	8	5	7.5	15	17
Double-crested Cormorant	-	25	155		71	1	1	5	2	1	-	-
Great Blue Heron	7	72	70	12	67	11	38	25	18	50	3	1,00
Great Egret		-	-	-		1	*	÷.		**	: +:	-
Black-crowned Night-Heron		-	-	1	140	-	143	-	1	1	12	12
Tundra Swan	٠	-	-		5.	-	1	2.	- 5	•	17.	
Mute Swan	-	5	2		-			2		2		12
Greater White-fronted Goose		22	222				2		-	-		
Snow Goose (blue)		-	*	-	30		1		-	1		-
Snow Goose (white)	+	29	2		100		-	9	-	2	12	
Snow Goose (unspecified)	*	77	2	7.75	5	(5)	:50	cw	ŧ	5		-
Ross's Goose		2	1		Q.		1	2	1	2.	-2	1
Canada Goose	151	687	3629	207	343	346	1044	76	491	1129	15	
Goose sp.		-	-	-	32			-		1120		
Wood Duck	2	15	4	cw	10		19	5	1		15	
Green-winged Teal	*	3	10	-	5	*	45	-	1	- 5	-	-
American Black Duck	-		142	9	61	3	54	3	17	4	4	
Mallard	5	416	15534	759	557	127	661	115	687	364	30	- 15
Northern Pintail		110	12	100	2	1	10	6	2	504	-	-
Blue-winged Teal	(2)	- 2	12		-		10		-	- 2		
Northern Shoveler	*	104	13	9	2	1	12	5	7	16		
Gadwall		124	39	81	194	12	33	7	83	30	15	
American Wigeon		-	261	1	5		21	-				
Canvasback		7	55	10	~		173	1	33	69		- 2
Redhead		6	6	10	- 6		1	1.5	33	03	6	-
Ring-necked Duck	2	127	53	152	4	3	124	2	13	19	2	
Greater Scaup		2	6	-	-	-	120	_	-			
Lesser Scaup		280	345	1	101	-	6	-	7	20	1	-
Scaup sp.	(43)	-	4	-	-		-	2		-	- 2	-
Long-tailed Duck (Oldsquaw) -	20	-		-	-	-	-		190	-	-
Surf Scoter	-	*	-	*	9				-		*	-
Common Goldeneye	1	2	22		4	1		_		21		
Bufflehead	-		40	-	1				36	30		- 0
Hooded Merganser	-	20	111	2	•	cw	39	2		36		13.
Common Merganser	4	20	***	-		211	2			17		-
Red-breasted Merganser		-	12	-	-	*	6	#	-	-	-	-
Ruddy Duck	-	47	1851	-	_	cw	8		7	20	-	-
Duck sp.	-	-	1001	200	18	108	-		-	20	-	-
Black Vulture	56	102	cw	67	29	29	17	66	44	1	1	43
Turkey Vulture	43		CW	47	53	81	3	6	27		1	43
Osprey	40		CW		1	01		O				-
wayes by	-			-	1	-	-	-		-		

Nick Lake	Cooke	Clay Cty	Chatt	Hiwas	Knox	Cades Cove	GSM NP	Norris	Green	Eliz	Bris	Roan Mtn	Shady Valley	Total Ind.	# of Cts.
4	_	30	33	1				2		2	2	-	_	92	10
261	12	17	52	92	159	2	-	8	4	5	16	1	2	908	21
4	1	10	70	6	8	-		-	3.95	2	2	-	-	163	12
-	-	-		-	-				- 0	-	cw		- 0	-	CW
	-		22			- 2		-	-			2	- 0	13	1
	5	(55,3	1.50	150		- 3	22	150	- 3	-		- 5		***	
42	-		+	75	22	-	-	-	-	*	1	12	Ģ.	394	10
49	16	106	104	189	173	7	3	16	31	11	17		4	1099	24
-	-	-	98.0		1	-		-	-	-	100	100	-	2	2
-	4.5	+		-	4	-	-	-	-	-	+	52	-	6	3
-	1	÷	17.0	+	÷	÷	of:		.51	-	-	į.	*	1	1
ш	2				-	_	14	-			-	2	2	5	1
-	-	-		-		-			_					246	3
-	2	-	-	4	-	-			_	_	-		-	38	5
12.0		-			-	-	14	- 2	_	2		41	-	129	2
77	-	.70		7	150	-	5.75			-	17	20	÷	9	2
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153	579	1	509	705	902	65		152	232	225	440	-	179	12260	23
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	21	3	13	7	32	6	6	-	3	2	2	20	2	168	19
*	1	4	23	13	3	7	-	5	3	*		5,50	4	115	12
2	1	16	4	2402	17	2	72	cw	17	-	22	-2	10	2788	18
83	93	167	441	5575	452	91	72	84	61	136	1349	4	24	27887	25
-	+	1	13	21	2	1	-	1	-	100	3	-	-	74	12
2	-	- 2	-	-	-	-		-	1	-	-	-	21	1	1
1	*	40	14	7	2		7.7	1	7	-	7	1.00	7.0	229	14
1064	14	23	320	131	187	1	-	35	34	4	46		-	2477	21
3	-	4	2	165	3	-	-	-		-	91			556	10
33	-		-	15	2	2	20	-	-			-	(4)	396	9
1	2	12	-	1	3	2	4			2	9		2.7	33	8
70	11	5	7	39	112	-	-	7	1	13	30	*		796	21
10			10			2	23	2	1		3	12.5		29	4
61		191	33	1.50	6		-	1	1	-	6	1.5		1060	15
01	1	-	55		-	- 0	- 2	-				20		1	1
-	1		1			- 2		- 1	- 0	- 3				2	2
-	-		1	-	- 5		-			-	- 5			1	1
4	cw	1	64	-	- 2	÷	7	1	7		1	*	*	121	10
56	10	1	39	17	7		*	2	7	156	93			488	13
39	22	18	17	78	59	5	20	-	1	3	31		2	483	16
-	-	3	*	1	1	ं	77	- 5	3	2	.5		*	21	4
77	1		4			-	*		*	*	2	•	•	25	5
19	18	3	9	1	-		-	1	i.e.	5	7	-	-	1991	12
+	*	(e)					-		-	~	-		*	326	3
67	157	(2)	17	26	19	0	30	1	59	12	56	-	4.1	796	19
30	250	14	144	29	46	3	15	*	78	14	29	1	6	920	21
-	-	()e-	-	*	÷	-	-	*	1	-	-	(4)	40	2	2

Species	Fayt Cty	Memp	Reel Lake	Jack	1045av	Buff Riv	Colum	Clarks	Nash	Hick Priest	Murf	Leb
Bald Eagle (total)	9	-	23	-	6			3		1		-
Bald Eagle (adult)	- 2		10	-	6	2	2	1	- 2	1	2	
Bald Eagle (imm.)			13	-		-		2			-	-
		5	30	15	30	15	9	1		1	3	1
Northern Harrier	11			5.0			(3)	- 0			55.5	
Sharp-shinned Hawk	4	3	2	5	2	4	1	2	2	1	1	17
Cooper's Hawk	1	3	- 1	2	3	-	3	(4)	2	2	2	cw
Accipiter sp.	7	1	3.70	-	1		-	-				9.7
Red-shouldered Hawk	10	5	5	5	9	4	3	9	2	3	-	
Broad-winged Hawk		-	14	-	1.00		-	-			2	16
Red-tailed Hawk	45	1.5	22	40	32	47	24	16	38	17	4	2
Rough-legged Hawk	2	77	a.	1	12			121	9		2	1.4
Golden Eagle	-	190	CW	-		1					-	
Golden Eagle (adult)		-	-			-						
Golden Eagle (imm.)	-	-		- 3		1	2	120			0	
American Kestrel	6	28	17	14	13	51	17	16	19	13	14	1
American Resurei	0	20	177	14	15	51	1./	10	19	13	19	- 1
Merlin	-	-	0.1		2		-	-	- 4	-	2	12
Peregrine Falcon			-	-	-	-	-		200		-	-
Ruffed Grouse		963	-			- 2	-	194	(4)	-	- 2	-
Wild Turkey	12	120	23	cw	12	84	62	127	206	1		2
Northern Bobwhite		300	2	18	26	-	2	11	cw		-	-
Mandala Ball												
Virginia Rail	-	00	405	-	inc	Ť	1	-		-	-	7
American Coot		88	405	20	676	- 1	16	13	-	603	8	-
Sandhill Crane	-	*	-	6	-	5	-	-	-		-	-
Killdeer	7	137	45	20	99	6	15	14	38	28	11	2
Least Sandpiper	7.7	65	6	*	*		~	< <u>*</u> €	(*)		•	-
Shorebird sp.				9		-	2	-				-
Common Snipe		21	10	5	7	12	1		(*)	2	1	7
American Woodcock	1	343			2		3	-			-	-
Bonaparte's Gull		4	128	-	770	2	1	-		42	3	
Ring-billed Gull	-	1761	1486	cw	1428	*	1	33	11	872	4000	-
Herring Gull		5	3	-	65		1			64	4	_
Gull sp.			-				-	5				
Rock Dove	37	911		1320	127	42	82	43	639	430	50	
	2/				141	44	04		039	430		-
Eurasian Collared-Dove Mourning Dove	47	1 429	1 365	cw 150	286	281	153	353	198	149	6 62	23
Barn Owl		7	1.7	- 7	-	-	- 2	97.5	-	- 1		Ε.
Eastern Screech Owl	1	1	CW	_	3	2	3			1		-
Northern Saw-whet Owl	-		-	-		-	~		-	-	-	-
Great Horned Owl	1	2	3	cw	5	1	4		1	3	177	-
Barred Owl	1	1	3	1	6	1	2		2	4	*	-
Short-eared Owl	ě		8		1				-			-
Rufous Hummingbird							-			14		-
Selasphorus Hummingbird	sp	2			-		5	120	2		12	-
Belted Kingfisher	4	15	7	5	8	10	14	7	14	5	2	_
Red-headed Woodpecker	17	5	3	CW	3	21	3	06	2		2	-
manieaueu wooupecker	17	5	3	CW	3	44	3		4	-	-	-

Nick Lake	Cooke	Clay		Hiwas	Knox	Cades Cove	GSM NP	Norris	Green	Eliz	Bris	Roan Mtn	Shady Valley	Total Ind.	# of Cts.
2		3	1	20	1	-	-	_	-	1		-		61	10
2	12	2	1	12	1		2	-	2.1		-			36	9
-		1		8	-	-	-			1	-		-	25	5
1	cw	4		7	2	1			2	- 1	-		1	139	18
2	1	1	6	5	5	1		-	1	1	1	1	1	53	23
			-	125	-			2	-	11					
5	4	2	3	8	4	-	-	3	2	4	8	-	2	62	19
-	-	2	-		1	1	1				- 5	17	-	5	5
13	5	6	10	27	17	4	1	11			2	-	3	154	21
-		-	-	1	-	-	-	-	-	-		-	*	1	1
21	26	23	21	33	49	3	6	10	13	9	26	4	11	542	25
	1,2	-		1	1	4	-	2	4	2	2	127	120	80	4
-	-		-	3	-	-	-	~	577		*	1.00		4	2
-	-	-	1 6	1	-	-	-	-	-	\rightarrow		·*	-	1	1
(2)	14	-	1.20	2		-	-	_	-		2	-	12	3	2
11	54	33	2	31	8	4	3	8	31	9	20	1	9	433	26
1	ų,	2	1			2	cw	2	1	-	1		2	6	5
1		-	- 1		-	-	-	-	: 1 :=:	1				2	2
-	-	-			*	-	-	-	2	1	1		2	2	2
2	-	1	47	45	2	4	17	2	51	-	-	92	6	690	16
8	cw	-	7	21	15		**	-	8		*	(1	-	118	10
7094	9	173	240	268	98	1	7	62	-	5	14			1 19793	1 18
-	cw	115	1	8788	20	1	-	02	-	2	3		-	8918	6
44	154	24	84	165	63	15	19	71	40	30	14		3		25
**	131	-	-	20	0.5	-	19	7.1	40	30	cw	*	-	1148 91	3
-	2	2	-	-	-	-	-	-	-	-	1	7	25	1	1
4		-	41	121	7	-	1	CW	6		12	-	1	259	17
-	cw	~	(2)		2		+		-	-	2	1		7	4
20	3	18	882		260		+	12		3	11			2157	14
1703	1	352	2545	460	2095	*	*	1733	cw	7	202	*	\sim	18690	17
8		cw	11.	4	2	2	-	-	-	-				164	8
	-	100	(me)	-	-	-		-	-		-		*	5	1
170	115	41	120	77	861	2	46	150	41	322	369		8	6035	23
-	-		198	2000			77			-	-		-	206	4
89	246	98	347	299	447	83	42	237	265	198	477	30	43	5397	26
	,														
ī	1	-		10	-	2	*	770	.5	7	***		1	2	2
4	4	6	8	10	5	5	*	-	-	4	10	*	4	71	16
-	2		2	-	-	1		-	-	-	-	-	-	1	1
2	2	-	6	1	1	- 7		7	17	6	6	1	4	49	17
2		1		1	1	1	1	-		-	-		•	28	15
	-		373	100	Ţ.		17.	*:			*			9	2
· ·	-		1		3			127	4	-	+			4	2
~	0				14		2	2	-	-	2			2	1
17	7	6	15	45	38	1	4	7	15	19	9	3	7	284	25
1	2			6	3	-	2	3	1	12	1	4.5		73	15

Species	Fayt Cty	Memp	Ree Lak		Sav	Buff Riv	Colum	Clarks	Nash	Hick Priest	Murf	Leb
Red-bellied Woodpecker	54	77	28	20	65	58	33	31	62	8	7	3
Yellow-bellied Sapsucker	7	27	10	3	8	6	8	3	10	11	-	1.4
Downy Woodpecker	33	44	40	19	41	36	30	25	68	22	8	8
Hairy Woodpecker	6	5	2	2	12	6	6	3	9	3	1	
Northern Flicker	56	73	94	20	80	51	24	19	38	15	î	16
Dilant I late a hard	~		_		-		***			-		
Pileated Woodpecker	7	9	5	2	5	15	12	6	21	4	-	(14
Woodpecker sp.	-	(<u>a</u>		_	-	-		140	-		-	
Eastern Phoebe	16	6	6	3	20	17	4	2	4	2	-	-
Tree Swallow	*	-	CW	-		*	•		-		-	-
Barn Swallow	-	3	cw	-	~	2	-	-	-		9	-
Horned Lark	124	1335	1354	343	681	360	4		367	283	-	
Blue Jay	108	185	40	63	147	240	45	85	196	30	29	10
American Crow	245	212	11	20000	840	622	144	169	1960	115	70	12
Fish Crow	*	125	-	2		-	*	100		- 9	-	-
Common Raven		12		-	1 (4.1	-	-	-	-	22	2	-
Black-capped Chickadee	*			_	+		~	-	-			2
Carolina Chickadee	80	138	45	40	121	103	53	84	269	251	30	10
Chickadee sp.	-		1/372			-	055	20.5	-	200	-	- 00
Tufted Titmouse	73	76	25	18	127	134	45	71	160	217	24	12
Red-breasted Nuthatch	_	-	1	1	1	-	1		-	-	-	-
White-breasted Nuthatch	8	ź.	12	-	1.	45	15					
		6	13	5	14	45	15	13	51	6	2	-
Brown-headed Nuthatch	-	-	-	-	6	-	-		-	1	-	-
Brown Creeper	8	11	7	5	4	1	3	1	3	7		- 2
Carolina Wren	62	108	57	26	95	56	38	54	124	45	13	3
House Wren	-	-	-	Ĭ.	1	-	•	*		3	3	
Winter Wren	9	6	23	9	9	7	3	3	3	2	2	2
Sedge Wren	+	-		-		-	-	17.0		-		
Marsh Wren	.51		2			-			. (+)	-	*	-
Golden-crowned Kinglet	13	26	46	49	80	23	12	6	22	14	6	2
Ruby-crowned Kinglet	12	45	18	.5	52	3	4	4	7	5		-
Eastern Bluebird	201	37	56	31	252	306	76	69	149	14	21	11
Hermit Thrush	28	31	13	3	27	14	4	2	18	11		-
American Robin	35	689	105	165	38	129	27	48	366	170	12	1
Northern Mockingbird	49	138	39	27	62	98	42	63	114	60	10	2
Brown Thrasher	12	43	9	5	9	8	3	6	10	2	-	-
American Pipit	4	27	84	52	677	250	24	141	2	- 2		
Cedar Waxwing	20	166		3	1	17	16	368	46	1	20	-
	20	3	20		1	15	2	200			20	-
Loggerhead Shrike	- 2			cw 500000	6702	2729		925	1707	5200	1000	100
European Starling Blue-headed Vireo	-	1	. 6669	-	0/93	2/29	5050	925	1707	5380	1000	120
0 1111												
Orange-crowned Warbler	1	3	1		-	2	1	20	120	2		
Yellow-rumped Warbler Yellow-throated Warbler	59	79	97	18	271	4	83	139	124	19	6	2
Pine Warbler	32	5	2	1	20	1				-	2	- 1
Palm Warbler	-		1	*	1	-		:3		- 5		-
* ***** - THE STEEL			140				-	-		-	-	-

Nick Lake	Cook	Clay e Cty	Chatt	Hiwas	Knox	Cades Cove	GSM NP	Norris	Green	Eliz	Bris	Roan Mtn	Shady Valley		# of Cts.
47	50	38	31	82	131	10	12	52	23	14	38	-	5	979	25
31	5	13	9	29	43	13	8	30	4	13	13		2	306	23
43	28	37	43	53	75	15	33	41	24	41	47	8	8	870	26
4	4	5	6	12	6	2	13	10	1	10	16	3	1	148	25
25	43	34	43	59	63	6	4	48	23	29	22	2	1	873	25
8	11	19	3	14	15	12	23	18	8	15	20	1	4	257	24
-	-		-	-	72	2	3	-	-			-	-	3	1
31	9	16	7	25	15	4	12	11	8	15	14	-	8	255	23
-	*		-		-	-		-		+		-	1	100	CW
-	-		-	:20	*	-			5	7.	-	77.5	1.7	:5	cw
426		2150			-	2	(4)	-	1.0	-	-	-	3	7427	11
129	158	59	114	226	403	25	53	193	102	130	269	30	32	3101	26
723	1505	671	596	808	1070	209	107	410	298	620	1307	93	655	33472 2	26 1
2	2		-				8	-	-	3	3	10	3	27	5
	-	-	-	-	14	5	22	12	2	1		-		27	2
119	106	70	170	148	388	42	143	178	78	158	158	28	33	3043	26
109	103	42	105	101	242	7	-	120	-	-	-	-	-	7	1
			105	104	242	31	70	128	83	64	66	15	22	2166	26
*	CW	2	•			8	5		Ž.	5		4	2	25	9
24	18	42	16	26	24	18	30	37	10	21	23	11	7	485	25
-	-	-	24	8	7	. 2		1	5	7		5	3	39	4
4	2	1	-	2	4	2	8	7	4	*	2	3	1	90	22
79	88	61	102	75	192	32	25	96	54	120	64	9	13	1691	26
2	3/72	3	2	1		ň	-		*	*	*		:=	4	3
17	cw	6	6	10	6	6	8	3	2	11	4	3	2	158	23
1	7.	-30	2	27	5.00	-		500	7.	+	-	-	-	3	2
		*	1	-	-	-			-	-		-	-	3	2
101	28	46	55	81	69	67	82	24	28	41	45	11	8	983	25
59	4	12	65	40	22	18	3	14	8	8	4	-		412	22
111	326	174	119	220	342	56	60	165	187	165	112	9	50	3319	26
46	2	19	13	36	30	21	6	4		2	14	-	3	347	22
166		2300	247	157	612	15	301	103	142	445	186	15	23	6769	26
57	59	37	92	152	304	15	14	61	42	40	102	6	14	1699	26
15	10	4	17	22	11	-		7	5	-0	3	-	×	201	19
165	80	-	-	481	46	-		-	50		2		.5	1920	13
13	310	722	136	26	440	168	42	428	376	125	2830	34	43	6351	24
-	6	-	-	2		2			2	1		12	-	51	8
792	8374	460	4511	1019	3073	130	47	858	15418	1011	1456	79	202	572317	25
	·*?		19	7			+	-	-1		•	*	¥	1	1
-	-	-	2	5	1	. (51						8	200	8	5
83	89	234	209	267	413	35	58	191	59	174	145	-	-	2858	24
-		-	-	-	1	-	-	-	20	-	*	-	-	1	1
5	4	25	19	6	2	1.5	**	1	1	1.5	*	17	1	100	14
		100	3	-	*	cw	-	-	-	1	-		-	6	4

Species	Fayt Cty	Memp	Reel Lake	Jack	Sav	Buff Riv	Colum	Clarks	Nash	Hick Priest	Murf	Let
Northern Cardinal	274	503	326	131	402	331	280	311	452	217	63	27
Eastern Towhee	44	67	2	12	35	92	28	38	54	21	7	4
American Tree Sparrow	-		7	2	7			3	19	52	-	
Chipping Sparrow	37	52	4	1	6	10	2	1	4	1	-	
Field Sparrow	135	142	46	184	252	293	153	18	68	36	30	1
Vesper Sparrow	-	7	2	cw	6	- 5			-		-	
Savannah Sparrow	3	140	294	18	432	35	28	2	35	26		
LeConte's Sparrow	3	140	12	10	452	33	20	-	55	20		
Fox Sparrow	3	58	71	4	33	14	7	2	56	15		5
Song Sparrow	107	151	482	117	498	210	148	58	143	97	15	1
Lincoln's Sparrow		2	1		1		1	-		_		
29 25 2	32	42	397	34	320	41	58	8	12	48	10	
Swamp Sparrow		931			568	458	99	277	651		64	
White-throated Sparrow	312		357	129			1707			264		17 21
White-crowned Sparrow	6	71	48	16	6	96	91	25	100	7	20	
Dark-eyed Junco (slate co	ior)301	687	643	182	565	314	97	102	199	77	20	25
Lapland Longspur		243	449	17	1672	605	-	1+	2	8	-	
Smith's Longspur	830	4767	7077	1000000	92946	696	4231	35	1539	870	212	17
Red-winged Blackbird			7877									
Eastern Meadowlark	145	331	143	70	301	509	52	31	75	25	2	
Rusty Blackbird	19	289	25	3000	96	-	45	10	3	1	2	
Brewer's Blackbird	1000000	25	5	3500	7	300	2	12	12	2	72	
Common Grackle	4500	2342	1423	500000	17006	9517	2400	-	413	3817		2
Brown-headed Cowbird	12	219	321	150000	12045	107	2800	8	41	2046	300	527
Blackbird sp.	-		-	-	-	2125	21	1000	- 2	-	-	
Purple Finch	27	1	5		3	5	2	1	1	1		12
House Finch	17	120	84	31	34	83	115	120	276	82	80	44
Red Crossbill	25			-	1		1+0	+0	08	-		-
Pine Siskin	-	72	-	-	-	cw	8	3	cw	-	12	
American Goldfinch	46	142	32	59	58	207	91	113	145	62	81	15
House Sparrow	10	229	145	6	35	164	25	67	40	45		1
Count Day Species	70	97	110	83	106	80	99	72	82	89	58	34
Count Week Species	-	-	6	8	-	5	-	1	2	-		1
Total species 2000-2001	70	97	116	91	106	85	99	73	84	89	58	35
Total indiv.	8655	22950	49811	2181645	143328	22878	19293	5400	12796	18667	7414	992
Total species 1999-2000	68	101	123	84	101	78	89	78	80	91	61	57
EFFORT			192	2	125	199		742		į.		5,2
Number of participants	9	25	11	5	11	16	8	13	23	8	1	2
Number of parties	4	6-10	5	2-3	7	6	4	5	8	4	1	1
Party hours	36	68	49	25	71.75	61	26	41		35.75	8	<
Hours on foot	19	38	19	6	39	17.5	7.5	18.5	29.25	15.25	+	(
Hours in car	17	30	30	19	32.75	43.5	18.5	22.5	35.5	20.5	_	<
Hours in boat		245			484.5	-		-			-	172
Party miles	311.5	245	407.5	225	431.2	507.5		276.5	356.8	212	93	<
Miles on foot	13	33	9.5	5	21.8	14.5	9	15.5	20.75		2	0
Miles by car	298.5	212	398	220	409.4	493	257	261	336	200	93	<
Miles by boat	-	2		-	-	-	-	-	2	-	- 1	
Feeder participants		3		3	1		5	10	5		5	
Feeder parties	54	- 5		3	-					~	3	3
Feeder hours	-	7	-		1		25	42	15		2	26
Hours Owling	1,7	1	0.5	0.5	7	2.5	2	0.5	1	2.5	-	
Miles Owling		2	10	5	71	16	2	2	4	17	-	

CW = species was seen during count week (3 days before or after the count but not on count day).

Nick Lake	Cooke	Clay Cty	Chatt	Hiwas	Knox	Cades Cove	GSM NP	Norris	Green	Eliz	Bris	Roan Mtn	Shady Valley	Total Ind.	# of Cts.
333	255	227	279	424	583	63	76	207	110	122	188	9	52	6245	26
49	33	23	78	76	102	4	3	35	11	12	57	5	16	908	26
	-	8	-	-	-	-			243	-	940	4.2	-	98	7
1	2	2	17	114	30	12	4	61		2	100	72	2	348	17
40	56	95	129	136	151	13	25	108	52	31	17	4	11	2226	
- 2	CW	5	- 5	2	1	-	27/2	- 5		-			. 5	18	5
56	-	4	8	112	58	3		60	2	19		(*)	15	1350	
-	-	-	-	-	-		9	-	-	-	12	-	2	22	
2	4	6	11	13	2	3	4	4			4			321	21
230	137	184	180	468	371	97	63	160	63	400	207	84	197	4868	26
	=			-	-						: : e	-	-	5	4
18	24	4	55	157	68	32	10	6	7	6		2	36	1427	24
439	207	276	427	450	745	41	83	309	155	104	281	39	68	7751	26
	4	15	19	12	23		1	8	22	38	233	-	68	836	
138	131	243	32	131	58	66	57	186	2	59	157	95	53	4620	
-	- 2	5	-	ž.	-		(1)		-			20	•	3001	8
90	30	5	99	58	13	1	21	-	5	2		-	40	1114384	
15	86	101			85	8	1	21			76	*			
13			30 49	247 6				21	38	44		-	48	2484	
13	*	-	49	0	5	*	**	-			17	5	89	3652	15
19				7			*					-	1	3863	
53	5025	2	24	10	**	25	(*)	100	-		-	*	4	547538	17
12	2	-	262		-	(*)	*	-			-		-	168702	15
-					-		+	-	- 3	1.7		5.0		3125	2
	cw	1	3	*	4		170	2	5	-		*	*	46	14
166	115	135	186	76	163	4	15	77	102	181	152	8	25	2491	26
	-	-		-	-	-	140	1.0		-	2			1	- 1
2	CW	-	1		~		4	-	-		50	÷	-	68	6
137	81	90	193	536	317	30	61	206	119	267	292	11	81	3472	26
8	99	11	25	77	55		2	20	16	49	63	31	45	1268	24
93	78	85	100	100	94	59	58	70	70	70	83	40	65	-	26
102	10	1	+	-		1	1	2	1		2				0.00
93	88	86	100	100	94	60	59	72	71	70	84	40	65	146	
5532	19828	10273		27377	17084	1640	1897		18751		12188	709	2328	2660880	
94	85	89	101	96	95	67	53	78	83	77	82	46	66	156	
	200		10/2/2	2/5	8.53	102.5	3.50	:to=	1550	1075	U.S.A.		(77.77)		
14	20	8	23	28	29	7	16	11	14	12	15	2	6		
6	7-8	5	12	8	20-24	3	9	7	8	4	6	2	3		
52	56.75		74.75	64	103.3	19.5	57	40.3	41	35	55	14	17.5		
26	8.5	7.5	38.5	33	59	14	48.5	18.3	16.5	18.5	16	9	9		
	48.25		35.75	30	43.5	5.5	8.5	22	23.5	16.5	39	5	8.5		
				1							-				
				330											
	6.5	4.6		22			42.5	18	8.5	9		6			
304	439	306	477		498.5		150	211			397		130.5		
-	-	16	0.5	2	1	-	1	1,2	1		2	2	-		
	4	-	1	7	6		973		2			*			
	-	-	1	\simeq	-	-	-	1,2	2	-		2	1.0		
-	8	-		2	9		12	-	21	-		-	2		
3.5	1.75	2.5	8.25	4 53	2.5	2.75	1	0.5	-	4	5	0.75	1.5		
Par entry								2							

1500'; wind NW 10-15 mph; temp. 12-25 °F; still water frozen in Cades Cove. Seven observers in three parties put in 19.5 party hours and covered 71.5 party miles. In addition, 2.75 hours and 16.2 miles effort went into owling. 59 species plus one count week; 1,640 individuals. Participants: Susan Hoyle (compiler: P.O. Box 8421, Knoxville, TN 37996; hoyle@cs.utk.edu), Kristine Johnson, Charlie Muise, Barb Polilli, Martha Rudolph, and Allan and David Trently. This was the second year for the Cades Cove count. No winter finches were observed. Highlights were Northern Saw-whet Owl, Black-capped Chickadee, and Fox Sparrow.

CHATTANOOGA (35°06' N, 85°14'W): 16 Dec. 2000; 0730-1730. Weather: wind N 0-15 mph; temp. 47-53 °F; open water; cloudy with light to heavy rain. Twenty-three observers in 12 parties put in 74.75 party hours and covered 508.5 party miles. In addition 8.25 hours and 69.5 miles effort went into owling, and one observer spent two hours feeder watching. 100 species; 15,416 individuals. Participants: David Aborn, Matthew Arnsdorf, Harold Birch, Mary Lynn Buttram, Kevin Calhoon, Janice Chadwell, Danny Gaddy, Bill Haley, John Henderson (compiler: 7323 Fairington Circle, Hixson, TN 37343; rjhshrike@aol.com), Dan Jacobson, Bonnie Johnson, Jonnie Sue Lyons, Judy Newsome, Tom Patton, Debbie and Roi Shannon, Dave Vogt, Rick Waldrop, Ellen Whitaker, Cynthia and Jimmy Wilkerson, Dan Williams, and Libby Wolfe. Highlights included Surf Scoter, Long-tailed Duck, Merlin, Rufous Hummingbird, five species of wrens, Orange-crowned and Palm Warbler, Purple Finch, and Pine Siskin. Eurasian Collared-Doves were again reported in record high numbers.

CLARKSVILLE (36°30' N, 87°22'W): 16 Dec. 2000; 0700-1630. Weather: wind W 0-10 mph; temp. 42-54 °F; open water; cloudy skies with heavy rain. Thirteen observers hit the field in five parties tallying 41 party hours and 276.5 party miles. Ten observers logged 42 feeder hours, and half an hour and two miles were expended owling. 72 species plus one count week; 5,400 individuals. Participants: Joe Amans-Hamill, Joe Allen, Suva Bastin, Alan Bottomlee, Ken Davenport, Ryan Dwiggins, Randy Ellis, Danielle Evans, Mike Filson, Debbie (compiler: 290 Ardmoor Dr., Clarksville, TN 37043; hamiltonsw@apsu.edu) and Steve Hamilton, Greg Harris, Annie Heilman, Thurston Lee, Gloria and William Milliken, Hallena Minniehan, Diann Nance, Evelyn Nixon, Walter O'Hara, Joe and Sallie Schiller, and Scott Williamson. Highlights included a count week Snow Goose, American Tree and Chipping Sparrow, and Rusty Blackbird. Common Grackles were notable by their absence.

CLAY COUNTY (36°30' N, 85°22'W): 19 Dec. 2000; 0500-1700. Weather: wind calm; temp. 20-25 °F; moving water open, still water frozen; cloudy with light snow. Eight observers in five parties put in 50.5 party hours and covered 326.6 party miles. In addition 2.5 hours and 12 miles effort went into owling. 85 species plus one count week; 10,273 individuals. Participants: Terry Campbell (compiler: 101 Resource Dr., Celina, TN 38551; Terry_Campbell@FWS.gov), Gary Casey, Roseanna Denton, Kayle Kite, Arlene Morton, Barbara and Stephen Stedman, and Winston Walden. Highlights included Common Goldeneye, American Tree Sparrow, Lapland Longspur, and high numbers of Horned Larks. This was the second year for the Clay County count.

COLUMBIA [MAYFIELD-GRAY] (35°36'N, 87°10'W): 27 Dec. 2000. Weather: wind NE 4-6 mph; temp. 28-38 °F; still water partly frozen; partly cloudy with light rain in the morning, partly cloudy in the afternoon. Eight observers in four parties totaled 26 party hours and 266 party miles. An additional two hours and two miles were spent owling, and five feederwatchers logged 25 hours. 99 species; 19,293 individuals. Participants: Tommy Edwards (compiler: 896 Iron Bridge Rd, Columbia, TN 38401; tedwar24@bellsouth.net), William Jernigan, Anne and Bedford Lochridge; George, Mark, and Rad Mayfield; and Brinkley Steven. Notable sightings on this year's count included Greater White-fronted Goose, Snow Goose, Ross's Goose, Tundra Swan, Common Merganser, Virginia Rail, Loggerhead Shrike, LeConte's Sparrow, and Lincoln's Sparrow.

COOKEVILLE (36°09′ N, 85°28′W): 16 Dec. 2000; 0400-1645. Weather: wind 10-20, gusting to 50 mph; temp. 48-57 °F; sky overcast with intermittent heavy rain. Twenty observers in 7-8 parties put in 56.75 hours and 445.5 party miles. The count also included 1.75 hours and 15 miles owling, and eight hours at feeders. 78 species plus 10 count week; 19,828 individuals. Participants: Sharon and Wally Brines, Terry Campbell, Daniel Combs, Ivan Cordrey, Neal Dziepak, Ginger Ensor, Susan Ford, Joyce Fry, Louann Gum, Michael Hodge, Elmer Ingle, Jeff Johnson, Graham Kash, Janet North-Liu, Kenneth Morgan, John Owens, Lynda Perry, Tom Riddle, Richard Simmers, Barbara and Stephen Stedman (compiler: 2675 Lakeland Dr., Cookeville, TN 38506; sstedman@tntech.edu), Winston Walden, and Joyce Wright. Notes: This marked the 38th annual Cookeville count. Long-tailed Duck was new to the count. Other highlights were Red-breasted Merganser, Barn Owl, and count week Vesper Sparrow. Eleven species were found in record high numbers for the count.

CROSS CREEKS N.W.R. (36°28' N, 87°45'W): No count this year.

ELIZABETHTON (36°20' N, 82°08'W): 16 Dec. 2000; 0530-1730. Weather: wind S 10-20 mph; temp. 37-59 °F; sky cloudy with light rain in the afternoon. Twelve observers in four parties put in 35 party hours and 239 party miles plus four hours and ten miles of owling. 70 species; 5,818 individuals. Participants: Wallace Coffey, John Hackett, Don Holt, Reece Jamerson, Rick Knight (compiler: 804 N. Hills Dr., Johnson City, TN 37604; RKnight@preferred.com), John Labig, Howard Langridge, Charles Moore, Bryan Stevens, Allan Trently, Gary Wallace, and Anthony Whitted. This was the 58th Elizabethton CBC. Highlights included Bald Eagle, Peregrine Falcon (first for the count), Ruffed Grouse, Loggerhead Shrike, Palm Warbler, Chipping Sparrow, and record high numbers of Eastern Phoebe, Eastern Bluebird, and Song Sparrow. Misses included Common Snipe and Brown Creeper. Northern Bobwhite have not been observed the last six years. Lesser Scaup and Purple Finch, previously seen annually, have been missed most of the last eight years. Loggerhead Shrike has only been reported twice in the last 10 years.

FAYETTE COUNTY (35°06' N, 90°35' W): 30 Dec. 2000; 0600-1830. Weather: temp. 15-26 °F; wind calm; sky clear; still and moving water partly frozen. Nine observers in four parties were in the field for 36 party hours and 311.5 party miles. 70 species; 8,655 individuals. Participants: Charles Askew, Bob Browne, Carolyn Bullock, Van Harris, Dick Preston, Martha Waldron, Richard Whittington (compiler: 338 Williamsburg Ln, Memphis, TN 38117; RichWhit@RWAssociates.com) and John

and Linda Zempel. One of the highlights was an Orange-crowned Warbler. This was the fourth year for the Fayette County count.

GREENEVILLE: 16 Dec. 2000; 0730-1800. Weather: wind SE with gusts to 25 mph; temp. 40-68 °F; sky partly cloudy with an afternoon thunderstorm; water open. Fourteen observers in eight parties covered 248 party miles in 41 party hours by car, foot, and boat; an additional 21 hours were spent feederwatching. 70 species plus one count week; 18,751 individuals. Participants: Orland and Phine Britton, King and Margaret Gaut, Juanita and Lenart Heckert, Henrietta Holt, Alice Loftin, Don Miller, Velda Ruth Moore, Linda Northrup, JoAnne and Larry Routledge, Lu Simmons, and Helen Spees. Compiler: Jim Holt, 311 Colonial Circle, Greeneville, TN 37745; jholt@greene.xtn.net. Highlights included Blue-winged Teal, Osprey, Merlin, and American Pipit.

GREAT SMOKY MOUNTAINS N.P. (35°43' N, 83°29'W): 23 Dec. 2000; 0615-1700. Weather: temp. 12-34 °F; wind 0-5 mph; clear skies; water partly frozen; snow cover 0-2". Sixteen birders in nine parties covered 192.5 party miles in 57 party hours. 58 species plus one count week; 1,897 individuals. Participants: Marcia Davis, Jerry Hadder, Paul Hartigan; Tony Headrick, Susan Hoyle, Kristine Johnson, John Kennerly, Karol Koella, Dan and Laurie Mooney, Marie Oakes, Boyd Sharp, Glenn Taylor, Allan Trently, David Trently (compiler: 1029 Morrow Dr., Knoxville, TN, 37923; dtrently@utk.edu), and Keith Watson. Highlights included Wild Turkey (good number), Barred Owl, Black-capped Chickadee (good number); Chipping, Fox, and White-crowned Sparrows; Pine Siskin, and a count week Merlin. Twelve species were found in unusually high numbers. The spruce and fir cone crop at high elevation was poor, and no Red Crossbills were observed.

HICKORY-PRIEST (36°12' N, 86°40'W): 1 Jan. 2001; 0500-1700. Weather: temp. 15-28 °F; cloudy with snow; snow cover 0-1"; wind 0-5 mph; moving water open, still water frozen. Eight observers split into four parties and logged 35.75 party hours and 212 party miles. Observers also covered 17 miles in 2.5 hours of owling. 89 species; 18,667 individuals. Participants: Phillip Casteel, Jerry Drewry, Richard and Tarcila Fox, Mark Hackney, Chris Sloan (compiler: 512 Old Hickory Blvd, Apt. 1203, Nashville, TN 37209; chris.sloan@home.com), Joe Stone, and Sabin Thompson. Highlights included Black-crowned Night-Heron, blue phase Snow Goose, Common Goldeneye, Common Merganser, American Tree Sparrow, LeConte's Sparrow, Lapland Longspur, and high numbers for Horned Lark and White-breasted Nuthatch.

HIWASSEE (35°22' N, 84°54'W): 1 Jan. 2001; 0530-1800. Weather: temp. cold 17-25 °F; cloudy with light snow in the morning, partly cloudy in afternoon; wind NE 0-10 mph; still water partly frozen, moving water open. Twenty-eight observers in eight parties combined for 64 party hours (plus five hours owling) and 330 party miles (plus 53 owling) by foot, car, and boat. 100 species; 27,377 individuals. Participants: David Aborn, Nelson Bennett, Terry Billings, Harold Birch, Kevin Calhoon (compiler: 1185 Mountain Creek Rd., Apt. 715, Chattanooga, TN 37405; kac@tennis.org), Janice Chadwell, Danny Gaddy, Reid Gerhardt, Bill Haley, John Henderson, Bonnie Johnson, Judy Newsome, Marty Paige, Johnny Parks, David Patterson, Rebecca and Robin Rudd, Debbie and Roi Shannon, Allan and David Trently, Craig Walker, Chris Welsh, Jim Wilkerson, Hayden Wilson, and Libby Wolfe.

Highlights included Redhead, Common Merganser, Broad-winged Hawk, Roughlegged Hawk, Golden Eagle, Loggerhead Shrike, House Wren, Vesper Sparrow, and Brewer's Blackbird. High numbers were reported for Sandhill Crane, Snow Goose, American Black Duck, Mallard, and 14 other species. Big misses were Brown-headed Cowbird, Bonaparte's Gull, and scaup.

JACKSON (35°37′ N, 88°49′W): 30 Dec. 2000; 0630-1730. Weather: wind N 15-25 mph; temp. 14-25 °F; cloudy with light snow; moving water open, still water frozen. Five observers took the field in 2-3 parties putting in 25 party hours and covering 225 party miles on a cold, blackbird-filled day. Three observers stayed warm and watched for birds at feeders. 83 species (plus 8 count week); 2,181,645 individuals. Participants: Bob Ford, Clay and Janet Gascoigne, Mark Greene (compiler: 2881 Central Ave., Humboldt, TN 38343; magreene@usit.net), Harriet and Christopher Hurdle, Don Manning, and Michael Todd. Eight count week species suggests Jackson observers have plenty of room to improve on 83 count day species. Highlights included Horned Grebe (new for the count), Canvasback, Rough-legged Hawk, Sandhill Crane, Fish Crow, Red-breasted Nuthatch, Pine Warbler, American Tree Sparrow, Lapland Longspur, Brewer's Blackbird, and count week Eurasian Collared-Dove and Vesper Sparrow. Blackbirds were the real story at Jackson this year with amazing numbers of Red-winged, Rusty, and Brewer's Blackbirds, Common Grackles, and Brown-headed Cowbirds reported.

KNOXVILLE (35°55' N, 84°05'W): 31 Dec. 2000; 0500-1730. Weather: Cloudy with light snow; wind NW 0-5 mph; temp. chilly 17-25°F; moving water open, still water frozen. Twenty-nine observers in 20-24 parties birded 103.25 hours and covered 544.75 miles. Six feederwatchers kept vigil for nine hours. 94 species; 17,084 individuals. Participants: Pat Barnwell, Jane Beintema, Meredith Clebsch, Joseph Cline, Dean Edwards (compiler: 8537 Carl Valentine Circle, Knoxville, TN 37931; kde@utk.edu), Chris Foell, Reid Gerhardt, Paul Hartigan, Tony Headrick, Amber Hensley, Tom Howe, David Howell, Susan Hoyle, Kevin James, Wesley James, Dan and Laurie Mooney, Daniel Moss, Chuck Nicholson, Holly Overton, Karen Petrey, Martha Rudolph, Michael Ryon, Beth and Daniel Schilling, Boyd Sharp, Jean Stierberger, Susie Stout, Charles Susano, Christine and Roger Tankersley, Allan and David Trently, Chris Welsh, and Corwin Witt. Wild Turkey, Rough-legged Hawk, and Yellow-throated Warbler were new for the count. Two species, Rufous Hummingbird (3!) and Orange-crowned Warbler were found for only the second time. Other highlights included Great Egret, Redhead, Common Merganser, Vesper Sparrow, and Rusty Blackbird. Fifteen species were recorded in record numbers. Big misses included Common Grackle and Brown-headed Cowbird.

LEBANON (John Sellars Chapter): 30 Dec. 2000; 0800-1700. Weather: windy; cloudy with light snow and snow flurries; temperatures in the 20's and low 30's; icy roads. Weather conditions greatly hampered coverage of the Lebanon Christmas count. One potential observer spent some time in a ditch the eve of the count, and the icy roads prevented others from covering usual areas. One group of observers attempted to traverse the roads for about an hour, but the bulk of sightings for the count come from three parties watching feeders. 34 species plus one count week; 992 individuals. Participants: Earline and Vernon Berry, Kay Norris, and Jeri and Dean Walker. Compiler: Melissa Turrentine, 339 Rippy Ridge Rd, Normandy, TN 37360.

MEMPHIS (35°09' N, 89°56'W): 17 Dec. 2000; 0600-1700. Weather: temp. 12-27 °F; wind NW 10-25 mph; sky clear; still water partly frozen, moving water partly open. Twenty-five observers took to the field in 6-10 parties covering 245 miles in 68 party hours. An additional two miles were covered owling in one hour, and three observers watched at feeders for seven hours. 97 species; 22,950 individuals. Participants: David Blaylock, Carolyn Bullock, Helen Dinkenspiel, Iim and Sue Ferguson, Van Harris, Martha Heinemann, Anne Hooper, Bob and Ginger Ilardi, Margaret Jefferson, Prudence Katze, Keith Kunkel, Jo Levy, Mac and Susan McWhirter, George and Jeanne Payne, Rob Peeples (compiler: 8205 Meadow Glen Dr., Germantown, TN 38138; wpeeples@midsouth.rr.com), Dick Preston, Forrest Priddy, Ernest Restivo, Virginia Reynolds, Stephan Schoech, and Martha Waldron. This was the 73rd continuous count conducted by members of the Memphis Chapter of the Tennessee Ornithological Society. Eurasian Collared-Dove and Greater White-fronted Goose were new species for the count. New for count day but previously reported during a count week were two Selasphorus hummingbirds. Other highlights included American White Pelican, Mute Swan, Common Goldeneye (first in ten years), Blueheaded Vireo, Orange-crowned Warbler (3), Vesper and Lincoln's Sparrow, Brewer's Blackbird (25), and Purple Finch. Record high numbers were reported for Great Blue Heron, Ring-billed Gull, and Horned Lark.

MURFREESBORO: 16 Dec. 2000. Weather: Windy with up to 3" of rain. One observer ventured into the field for eight hours and 93 wet miles while five feederwatchers stayed dry and tallied birds at three locations. 58 species; 7,414 individuals. Participants: Bertha Chrietzberg, Richard Hunter and Wilma Hunter (compiler: 3659 Wilson Overall Rd, Murfreesboro, TN 37127-7598), Pat and Robert Sanders, and Terry Witt. Species of note: Redhead, Eurasian Collared-Dove and Rusty Blackbird.

NASHVILLE (36°03' N, 86°56'W): 23 Dec. 2000; 0715-1715. Weather: temp. 14-40 °F; sky partly cloudy; wind NE 3-5 mph; still water partly open, moving water open. Twenty-three observers in eight parties spent 64.75 party hours in the field, covering 356.75 party miles. In addition five people counted for 15 hours at feeders. 82 species plus two count week; 12,796 individuals. Participants: Sandy Bivins, Ed Byrne, Gary Casey, Phillip Casteel, Richard Connors, Camille Crenshaw, Carrie and David Dortch, Frank and Bonnie Fekel, Tarcila Fox, Dawn Gilber Kaatrude, Cass Kennedy, Margie Koehler, Janeth McKendrick, Diana McLusky, Gail Miller, John Noel, Polly Rooker, Jennifer Serrano, Kathy and Jan Shaw (compiler: 5019 Timberhill Dr., Nashville, TN 37211; JanKShaw@aol.com), Chris Sloan, Dee Thompson, Rita Venable, Melinda Welton, and Helen Wright. Highlights were Blackcrowned Night-Heron (2nd count record), American Green-winged Teal, Northern Pintail (2nd count record), American Pipit (only five previous records), American Tree Sparrow (4th record), Lapland Longspur (2nd record), and Purple Finch. Canada Goose, Mallard, Wild Turkey (new high), Rock Dove, Horned Lark (new high), and Savannah, Fox (new high), and White-throated Sparrows were found in above average numbers. Both kinglets were observed in unusually low numbers.

NICKAJACK LAKE (35°04' N, 85°31'W): 30 Dec 2000; 0500-1700. Weather: temp. 16-26 °F; wind NE 10-25 mph; mostly cloudy with snow; snow cover 1"; still water mostly frozen, running water open. Fourteen observers in six parties spent 52 party

hours traversing 322.5 party miles. In addition 3.5 hours and 35 miles were spent owling. 93 species; 26,532 individuals. Participants: Bill Haley, John Henderson, Daniel and Bonnie Jacobson, Barbara and Mike McMahan, Johnny Parks (compiler: 164 McDonald Dr., Ringgold, GA 30736; ringgold_birdchaser@juno.com), Rebecca and Robin Rudd, Lem Scolovic, Debbie and Roi Shannon, Chris Sloan, and Jim Wilkerson. This was the 16th annual count for Nickajack Lake, and the first time the weather remained below freezing the entire day. Sedge Wren and Brewer's Blackbird were new for the count. Other highlights were Merlin, Peregrine Falcon, and record high counts for American Coot (17,094!), Horned Lark, and American Pipit. This was the first year Wood Duck was missed, and only the second time Chipping Sparrow was missed. Low counts were reported for Ruddy Duck, Cedar Waxwing, Field Sparrow, Eastern Meadowlark, and House Sparrow.

NORRIS (36°13′ N, 84°05′W): 16 Dec. 2000; 0715-1630. Weather: temp. 39-50 °F; wind NW 0-10 mph; sky cloudy in morning with some clearing and light rain in the afternoon; open water. Eleven observers in seven parties birded 40.25 party hours covering 229 party miles plus half an hour and two miles of owling. One observer watched for birds at feeders for two hours. 70 species plus two count week; 7,210 individuals. Participants: Tony Headrick, Susan Hoyle, Dan Mooney, Nell Moore, Charlie Muise, Charles Nicholson (compiler: Box 402, Norris, TN 37828; cpnichol@BELLSOUTH.NET), Laurie Pearl, Karen Petrey, Boyd Sharp, Christine Tankersley, and David Trently. Highlights included Northern Shoveler, Lesser Scaup, Common Goldeneye, and Brown-headed Nuthatch. Brown-headed Nuthatch was a first for the Norris count. High numbers were reported for Ring-billed Gull, Northern Flicker, Chipping Sparrow, and Savannah Sparrow.

REELFOOT LAKE (36°25' N, 89°23'W): 16 Dec. 2000; 0600-1800. Weather: temp. 24-45 °F; wind W 10-20 mph; cloudy with light to heavy rain followed by snow; moving water open, still water partly frozen. Eleven observers took the field in five parties, covering 407.5 party miles in 49 party hours. Half an hour and 10 miles were spent owling. 110 species plus 6 count week; 49,811 individuals. Participants: Jerry Drewry, Bob Foehring, Mark Greene (compiler: 2881 Central Ave., Humboldt, TN 38343; magreene@usit.net), Ken Leggett, Don Manning, Nancy Moore, Joe Stone, Sabin Thompson, Michael Todd, Melinda Welton, and Jeff Wilson. The highlight of the winter for the Reelfoot area had to be the Smith's Longspurs that hung around for several weeks before and after the count. Other notables included 22 species of waterfowl (Ross's Goose, Greater Scaup), Least Sandpiper, Eurasian Collared-Dove (2nd straight year), seven raptor species, Short-eared Owl, Red-breasted Nuthatch, Marsh Wren; Orange-crowned, Pine, and Palm Warblers; American Tree, Vesper, LeConte's, and Lincoln's Sparrows (13 sparrow species total!); Brewer's Blackbird, and count week Golden Eagle, Tree Swallow, and Barn Swallow. Weather on count day was not conducive to vulture sightings, and both Black and Turkey Vultures were missed.

ROAN MOUNTAIN (36°06' N, 82°07'W): 5 Jan. 2001; 0630-1545. Weather: wind SW, gusty, 5-25 mph; temp. cold, 7-35 °F; sky partly cloudy; 2-6" snow cover; still water frozen, moving water mostly frozen. Two observers in two parties covered 89 party miles in 14 party hours and put in 0.75 hours owling from a stationary position. 40 species; 709 individuals. Participants: Fred Alsop and Rick Knight (compiler: 804 N. Hills Dr., Johnson City, TN 37604; RKnight@preferred.com). This was

the 48th Roan Mountain CBC. No boreal finches reported. This count was originally scheduled for 17 December, but dangerous weather conditions forced it to be postponed.

SAVANNAH (35°08' N, 88°09'W): 28 Dec. 2000; 0300-1745. Weather: temp. 28-36 °F; wind N 0-15 mph; sky partly cloudy to clear. Eleven observers in seven parties put in 71.75 party hours and 431.2 party miles plus 7 hours and 71 miles owling. Feeder effort was supplied by one observer for one hour. 106 species; 143,328 individuals. Participants: Ralph Brinkhurst, Dwight Cooley, Bill Darnell, Jeff Garner, Mark Greene, Francis and Gary Markine, Steve McConnell, John Ross, Floyd Sherrod, Damien Simbeck (compiler: 4905 County Rd. 33, Killen, AL 35645; djsimbeck@tva.gov), and Michael Todd. American Tree Sparrow and Red Crossbill were new for the count. Other highlights included Osprey, Merlin, Short-eared Owl, House Wren, LeConte's and Lincoln's Sparrow, and good numbers of Snow Goose, Brown-headed Nuthatch (record high), and Lapland Longspur (1675!). Marsh and Sedge Wren were missed for the second consecutive year.

SHADY VALLEY (36°30' N, 81°51'W): 23 Dec. 2000; 0600-1600. Weather: temp. cold -4 to 42 °F; wind variable 5-8 mph; sky clear; still water frozen, moving water partly frozen; 2-4" of snow on the ground. Six observers in three parties birded 17.5 party hours covering 134.5 party miles with an additional three miles and 1.5 hours spent owling. 65 species; 2,328 individuals. Participants: Rob Biller (co-compiler: 1500 Bell Ridge Rd Apt. 5, Johnson City, TN 37601, rbiller@aol.com with John Shumate 156 Meadowlark Ln, Shady Valley, TN 37688), Ron Carrico, Wallace Coffey, Bert Hale, Rick Knight, and Howard Langridge. Highlights included Northern Harrier, Barn Owl, Pine Warbler, and LeConte's Sparrow.

WARREN COUNTY (35°40' N, 85°46'W): No count this year.

THE SEASON

Richard L. Knight, Editor



SUMMER: 1 JUNE - 31 JULY 2000

Near-normal temperatures prevailed across most of the state, and the western half endured near-drought conditions. The highlight of this summer had to be the number of nesting Scissor-tailed Flycatchers, found in all but the mountain region. Other notable breeding records included Black-billed Cuckoos in opposite ends of the state, Lark Sparrow in the northwest corner and two new Double-crested Cormorant colonies in the east. Yellow-rumped Warblers in the high mountains were potential breeders, while one in West Tennessee was likely just a late migrant. An unusual number of June sightings of White Ibis occurred, especially a flock of nine in the Mountain Region.

An outbreak of Southern Pine Beetles killed a significant number of pines across the eastern half of the state. Some pine-dwelling birds may be adversely affected, such as local populations of Brown-headed Nuthatches. Others, such as woodpeckers and some other cavity-nesters, may reap short-term benefits from the standing dead timber that remains.

This report marks the retirement of Martha Waldron as the regional compiler for the Western Coastal Plain. Beginning with the Summer 1974 season, her tenure has spanned 26+ years. By my count, that's 105 seasonal reports! We offer our thanks for a job well done. The new compiler for this region is Rob Peeples. Welcome aboard, Rob.

Standard Abbreviations

ad- adult
BBS - Breeding Bird Survey
Co - County
Cr- Creek
ers - earliest reported sighting
et al. - and others

f - female fide - reported by

Hwy - Highway im- immature

L - Lake

lrs- latest reported sighting

m - male

max - maximum count m.ob. - many observers

Mtn - Mountain

NWR - National Wildlife Refuge

R - River SP - State Park

WMA - Wildlife Management Area

yg - young

WESTERN COASTAL PLAIN REGION — Drought and accompanying heat affected both bird activity and human investigations. However, the dry conditions did not stop Cooper's and Sharp-shinned Hawks in Shelby County from producing young for rare West Tennessee breeding records. Hatchie National Wildlife Refuge was a stop-over site for an Anhinga, a Western Kingbird, and a Yellow-rumped Warbler. Lake County was host to breeding Scissor-tailed Flycatchers, Black-billed Cuckoos, and Lark Sparrows. Also, Eurasian Collared-Doves and Cedar Waxwings found Haywood County to their liking to raise their young, and a pair of Bald Eagles successfully produced young in Shelby County. Well established colonies of Black-necked Stilts continue to raise young at the EARTH Complex, and male Painted Buntings lofted their voices as they have over the years in southwest Shelby County.

Fifteen species of shorebirds were reported at sites from Lake County to Shelby County. The EARTH Complex continues to attract the greatest number and variety. However, with the future development of the Pidgeon Industrial Park at this site, the area may not continue to be the feeding and resting spot for these birds. Additional field work should be conducted in the river counties north of Memphis.

Grebe - Teal: Pied-billed Grebe: 19 Jun (1) Hatchie NWR (WRP, RWP). American White Pelican: 10 / 17 Jun (54) Everett L., Dyer Co (WGC, MAG, KL, JRW). Double-crested Cormorant: 28 Jun (1) Reelfoot L (WGC, NaM). Anhinga: 16 Jul (1 f) Hatchie NWR (Alex Wyss), first for refuge & Co. Least Bittern: 10 / 17 Jun (2 / 3) Black Bayou WMA (MAG, JRW); 10 Jun (1) Hooper Marsh, Dyer Co (MAG); 28 Jun (3) Brewer's Bar, Lake Co (WGC, NaM). Tri-colored Heron: 8-9 Jul (1) Black Bayou WMA (NaM); 14 Jul (1) near Union City, Union Co (MCT). Yellow-crowned Night-Heron: 25 Jun thru Jul (15 max) sw Shelby Co (CHB, WRP, VBR, MGW). White Ibis: 15 Jun (1 ad, 3 im) Mississippi R., Lauderdale Co (JRW); 18 Jun (2 im) Hatchie NWR (CHB, JAF, SCF); 29 Jun / 11 Jul (1 im) Hwy 103, Dyer Co / Whites Lake WMA (WGC, KL). Blue-winged Teal: 13 / 17 Jun (4) Whites Lake WMA (WGC, KL).

Hawks: Osprey: 28 Jun - 21 Jul (2 ad, 1 yg) Samburg, Obion Co (WGC, KL); 28 Jun (4) Airpark & Brewer's Bar, Lake Co (NaM). Mississippi Kite: 16 Jun (pair) Hwy 76 & Hatchie R., Haywood Co (RPF, Alex Wyss); 18 Jun (3) Hatchie NWR (CHB, DDP, JAF, SCF). Bald Eagle: 4 Jun - 10 Jul (1 yg on nest) sw Shelby Co (Knox Martin, MGW); 13 Jun (nest with yg) Heloise, Dyer Co (WGC). Northern Harrier: 1 Jul (1 f) Great River Rd., Dyer Co (WGC); 25 Jun - 11 Jul (2 f) Black Bayou WMA, Phillipy Unit (WGC, KL); 11 Jul (1 f) Willow Pond, Lake Co (WGC, KL). Sharp-shinned Hawk: 23 Jun (egg fragment) midtown Memphis (Martha Heinemann), first confirmed breeding in West Tenn., 29 Jun (1) Silerton BBS, Hardeman Co (CHB, VBR). Cooper's Hawk: 2 Jun (1) Germantown, Shelby Co (WRP); 12 Jun (2 ad with yg) east Memphis (SNM). Red-shouldered Hawk: 3 Jun (1 ad feeding yg in nest) LaGrange, Fayette Co (Richard Whittington), first nest in Co. Peregrine Falcon: 4 Jul (1) Dyer Co (WGC); 12 Jul (1) Shelby Co (Van Harris).

Plover - Cuckoo: Piping Plover: 5 Jul (1) Shelby Farms (Don Manning, MCT), early state record. Semipalmated Plover: 16 Jul (2) EARTH Complex (CHB, VBR, LVZ), early West Tenn. Black-necked Stilt: 13 Jun / 16 Jul (max 6 pair) Dyer Co (WGC, KL); 17 / 25 Jun (60+, including yg / 47+) EARTH Complex (CHB, WRP, VBR, MGW, JRW); 17 / 29 Jun (3 pair) Whites Lake WMA (WGC); 11 / 15 Jul (3) Hwy

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103, Dyer Co (WGC); 15 Jul (2) Black Bayou WMA (WGC). Greater Yellowlegs: 1 Jun (2) Phillipy Pits, Lake Co (WRP). Western Sandpiper: 4 Jul (1) Mud L., Lake Co; 8 Jul (1) EARTH Complex; 9-15 Jul (1-9) Dyer Co (WGC, KL, JRW). Least Sandpiper: 7 Jul thru season (942 max) EARTH Complex (CHB, WRP, VBR, MGW, LVZ). Pectoral Sandpiper: 16 Jul (191 max) EARTH Complex (CHB, WRP, VBR, MGW, LVZ). Short-billed Dowitcher: 11 Jul (1) Hwy 79, Lake Co; 15 Jul (1) Whites Lake WMA (WGC, KL, IRW). Long-billed Dowitcher: 9 Jul (1) Hwy 103 Loop, Dyer Co; 15 Jul (2) Hwy 79W & Gr. River Rd., Lake Co (WGC, KL, JRW). Common Snipe: 29 Jun / 28 Jul (1) Black Bayou WMA (WGC). Ring-billed Gull: 11 Jul (1) Reelfoot L., Obion Co (WGC, KL, JRW). Caspian Tern: 11 Jul (1) Is. 13, Lake Co (WGC, KL, [RW]; 15 Jul (1) Reelfoot L., Obion Co ([RW]). Eurasian Collared-Dove: 5 Jun (probable nest) Brownsville, Haywood Co (RPF), first possible nesting in Co.; 29 Jun (1) Shelby Co (Van Harris); 1 Jul (1) Memphis (CHB, WRP, VBR). Black-billed Cuckoo: 3-17 Jun (2 ad, 3 yg) Hwy 79W, Lake Co (MAG, KL, JRW), first confirmed nest for Co.; 12 Jun (1 heard) McNairy Co (MCT).

Flycatcher - Warbler: Western Kingbird: 18 Jun (1) Hatchie NWR (MGW, James Waldron), first Co record. Scissor-tailed Flycatcher: 1 Jun - 15 Jul (pair with nest, appearance of second male, finally 1 f with 2 yg) Phillipy, Lake Co (CHB, WGC, MAG, KL, WRP, VBR, JRW), first Co breeding record. Fish Crow: 18 Jun (4) Hatchie NWR (MTOS). Tree Swallow: 1 Jun (1) Tiptonville BBS, Lake Co (WRP); 18-19 Jun (3) Hatchie NWR (CHB, JAF, SCF, RWP, WRP). Gray Catbird: 1 Jun - 31 Jul (pair) Memphis (MGW, James Waldron). Cedar Waxwing: 5 - 30 Jun (nest) Brownsville, Haywood Co (RPF), first Co nest record. Yellow-rumped Warbler: 18 Jun (1) Hatchie NWR (LVZ, John Zempel), first summer record for West Tenn. Prairie Warbler: 1 Jun (1) Shelby Farms (WRP); 29 Jun (1+1) Silerton BBS, Hardeman Co (CHB, VBR), at two different stops. Cerulean Warbler: 18 Jun (6) Hatchie NWR (DDP, LVZ, John Zempel). Black-and-white Warbler: 12 Jun (1) Big Hill Pond, McNairy Co (MCT). Worm-eating Warbler: 21 Jul (1) Shelby Forest SP (WRP). Swainson's Warbler: 14 Jun (1) Wolf River WMA, Fayette Co (SNM, MGW, Larry Smith). Ovenbird: 12 Jun (1) Big Hill Pond SP, McNairy Co (MCT). Louisiana Waterthrush: 18 Jun (5) Hatchie NWR (DDP).

Tanager - Bunting: Scarlet Tanager: 1 Jun (1) Tiptonville BBS, Lake Co (WRP); 10 Jun (1) Whiteville BBS, Hardeman Co (DDP); 14 Jun (pair) Wolf River WMA, Fayette Co (SNM, MGW); 18 Jun (1) Hatchie NWR (DDP); 23 Jun / 21 Jul (1 / 3) Shelby Forest SP (CHB, WRP). Bachman's Sparrow: 12 Jun (2) McNairy Co (MCT). Lark Sparrow: 25 Jun / 4 Jul (1 ad, 1 yg / 2 ad) Hwy 79W, Lake Co (WGC, KL, JRW), first confirmed breeding in Co. Grasshopper Sparrow: 2 Jun (8) PawPaw BBS (WRP); 9 Jul (1) President's Is., Shelby Co (MGW). Henslow's Sparrow: 6 Jun (1) east of Freeland, Henry Co (MCT, Brainard Palmer-Ball). Song Sparrow: 3 Jun - 11 Jul (2) Black Bayou WMA (WGC, MAG, KL, JRW); 25 Jun thru Jul (2) EARTH Complex (CHB, RWP, VBR, MGW). Painted Bunting: 25 Jun / 1 Jul (2 singing males / 1) sw Shelby Co (CAS, MAG, MGW, JRW).

Locations: Black Bayou WMA - in Lake Co; EARTH Complex - in Shelby Co; Hatchie NWR - in Haywood Co; Shelby Farms & Shelby Forest SP - in Shelby Co; Whites Lake WMA - in Dyer Co.

Martha G. Waldron, 1626 Yorkshire Drive, Memphis, TN 38119.

HIGHLAND RIM AND BASIN REGION — In Nashville, the two month summer period was characterized by normal temperatures. However, rainfall was about 2 inches per month, significantly below average. In fact, if 1.6 inches of rain had not fallen during two days at the end of July, that month would have been the driest July on record. Highlights of this period include the continued invasion of Scissortailed Flycatchers into Tennessee, with two pairs successfully fledging at least nine young. Also of note were several late spring migrants, including Connecticut Warbler and Yellow-bellied Flycatcher.

Egret - Dove: Cattle Egret: 12 Jul (5) Pennington Bend (MLM). Yellow-crowned Night-Heron: 21 Jun (pair nesting) Murfreesboro, Rutherford Co (Terry Witt), second Co. nest record. Red-tailed Hawk: 4 Jul (1 albino) Davidson Co (Mark Hackney). Northern Bobwhite: 2 Jul (17) Warren Co (SNM). Solitary Sandpiper: 30 Jul (2) Shelby Bottoms (PDC), ers. Spotted Sandpiper: 3 Jul (1) Pennington Bend (MLM), ers. Semipalmated Sandpiper: 30 Jul (1) Shelby Bottoms (PDC), ers. Least Sandpiper: 30 Jul (8) Shelby Bottoms (PDC), ers. Pectoral Sandpiper: 24 Jul (1) Shelby Bottoms (PDC), ers. Eurasian Collared-Dove: 11 Jun (1) Sumner Co (RHC), continuing to increase & expand in Tennessee.

Flycatcher - Waxwing: Yellow-bellied Flycatcher: 3 Jun (1) Pennington Bend (MLM), new late date in Nashville area. Willow Flycatcher: 19 Jun (1) Shelby Bottoms (PDC). Scissor-tailed Flycatcher: 14 Jun - 28 Jul (4 yg fledged from second nest built this year) Williamson Co (Jan Shaw, Hazel Cassel et al.), second year nesting at this site; 17 / 18 Jun (pair, plus 3 nestlings / 5 nestlings) Smyrna airport, Rutherford Co (Hazel Cassel, Jan Shaw / GBC). Tree Swallow: 18 Jun (8+) Williamson Co (CAS). Bewick's Wren: 30 Jun (pair) Rutherford Co (Terry Witt). Cedar Waxwing: 14 Jun (nesting pair) Sumner Co (RHC), few nesting records for Middle Tenn.; 14 Jul (3) Humphreys Co (SNM).

Warbler - Dickcissel: Blue-winged Warbler: 29 Jul (1) Williamson Co (PDC, GBC, Cass Kennedy). Yellow Warbler: 15 Jul (1) Pennington Bend (MLM). Black-throated Green Warbler: 6 Jun (1) Cheatham Co (MLM), Irs. Blackburnian Warbler: 5 Jun (1) Pennington Bend (MLM), Irs. Palm Warbler: 1 Jun (1) Radnor L (MLM), Irs. Black-and-white Warbler: 8 Jun (1) Radnor L (PDC); 25 Jul (1) Pennington Bend (MLM). American Redstart: 6 Jun (1 m) Radnor L (Frank Fekel, PDC). Connecticut Warbler: 5 Jun (1 banded) Warner Park, Davidson Co (Janeth McKendry), new late date for Nashville area. Scarlet Tanager: 8 Jun (1) Radnor L (PDC, Frank Fekel). Grasshopper Sparrow: 2 Jul (13) Warren Co (SNM). Song Sparrow: 26 Jun (2) Shelby Bottoms (PDC, GBC). Rose-breasted Grosbeak: 2-3 Jul (1) Pennington Bend (MLM), early migrant? Dickcissel: 14 Jun (3) Davidson Co (RHC).

Locations: Pennington Bend - in Davidson Co; Radnor L. - in Davidson Co; Shelby Bottoms - in Davidson Co.

PHILLIP D. CASTEEL, 2722 Bobby Avenue, Nashville, TN 37216.

CUMBERLAND PLATEAU / RIDGE AND VALLEY REGION — Temperatures and rainfall were near normal this summer. Cormorants and Black-crowned Night-Herons were found nesting at two new sites. Scissor-tailed Flycatchers nested at

two sites, but only one attempt was successful; a single bird was seen at a third location. Three species each of non-breeding ducks and raptors were reported, most notably two Swallow-tailed Kites in the Sequatchie Valley. Three reports of White Ibis was above average. A Sora present in Greene County during mid-June was intriguing.

Sadly, I note the passing of former regional co-compiler Lil Dubke this July. Her warmth and wit will be missed.

Loon - Ibis: Common Loon: 25 Jun (1) Nickajack L., Marion Co (Chris Manis). Pied-billed Grebe: 5 Jun (1) Austin Springs (RLK, LCM); 16 Jul (1) Rankin Bottoms (KDE, DJT, CJW). Double-crested Cormorant: 5 Jun / 3 Jul (1) Austin Springs (RLK); 18 Jun (5) Kingsport (RLK); 30 Jun (3 nests with yg) Watts Bar L., Loudon Co portion (Hill Henry); 10 Jul (20+ birds, 6 nests) Rankin Bottoms (MBS, LJG, RLK). Great Egret: thru Jun (1) Brainerd Levee, Hamilton Co (KAC); 22 Jun thru Jul (1-2) Austin Springs (RLK); 30 Jun thru Jul (1-15) Rankin Bottoms (KDE, RLK, MBS, LJG); 2/10 Jul (1 / 1) separate Washington Co sites (BKS / RLK); 3 Jul (1) Jefferson Co (KDE); 4-29 Jul (4-9) Greene Co (DHM, ACL, LN); 22 Jul (2) Chickamauga L (David Vogt). Snowy Egret: 16 Jul (1) Rankin Bottoms (MBS, LJG). Little Blue Heron: 16 Jul (1) Rankin Bottoms (MBS, LJG). Cattle Egret: 2 Jul (15) Watts Bar L., Roane Co portion (Wes James); 10 Jul (25+ birds, 5 nests) Rankin Bottoms (MBS, LJG, RLK). Blackcrowned Night-Heron: 30 Jun (25+ nests) Watts Bar L., Loudon Co portion (Hill Henry); 10 July (25 nests) Rankin Bottoms (MBS, LJG, RLK); 16 July (5) Kingsport (Andy Jones); 3 Jul (2) Greene Co (DHM). Yellow-crowned Night-Heron: 10 Jun (1 ad) New Market, Jefferson Co (KDE); 13 Jun (2 ad) Hamilton Co (KAC). White Ibis: 9-11 Jun (1 im) Hamilton Co (Libby Wolfe); 10 Jul (2 im) Mossy Cr., Jefferson Co (Howard Chitwood, KDE); 16 Jul (5 im) Rankin Bottoms (MBS, LJG).

Duck - Falcon: American Wigeon: 16 Jul (1 m) Kingsport (Andy Jones). Redhead: 7 Jul into Aug (1) Cove Lake SP (NeM). Scaup sp.: 17 Jun (1) Scott Co (NeM). Osprey: Jun - Jul (2 nests with yg) Rankin Bottoms (KDE, MBS, LJG, RLK). Swallow-tailed Kite: 28 - 30 Jul (1 im, 1 ad) Sequatchie Co (BJ, Hayden Wilson et al.), second Co record. Mississippi Kite: 12 Jun (1) Bradley Co (KAC, BJ). Bald Eagle: 19 Jun (1 im) Melton Hill L., Anderson Co (Wes James); 16 Jul (1 ad) Chickamauga L (KAC, CAS, Harold Sharp). Northern Harrier: 11 Jul (1 f) Washington Co (BKS), first Jul report in NE Tenn. Sharp-shinned Hawk: 21 Jun (1) Chattanooga (Ken Dubke). Cooper's Hawk: 8 reports in Greene / Washington Cos (DHM, RLK). Buteo sp.: 1 Jun (1 albino) Windrock Mtn., Anderson Co (Charles Nicholson), probable Red-tailed Hawk. Peregrine Falcon: 2 ad & 2-3 yg were seen at the new Falling Waters Falls nest site in Hamilton Co (Dale Liner) & apparently the same birds visited the recent Chickamauga Dam nest area (m.ob.); 21 Jul (1) Greene Co (DHM, ACL).

Rail - Owl: Sora: 18 Jun (1) near Tusculum, Greene Co (DHM). American Coot: 18 Jun (2) Kingsport (RLK); 7 / 26 Jul (1) Cove Lake SP (NeM); 16 Jul (3) Rankin Bottoms (KDE, DJT, CJW). Semipalmated Plover: 4 Jul (1) Greene Co (DHM, ACL, LN), quite early. Solitary Sandpiper: 2 Jun (1) Greene Co (DHM), Irs; 30 Jun (1) Bledsoe Co (BJ), ers. Spotted Sandpiper: 10 Jul (1) Rankin Bottoms (RLK), ers. Least Sandpiper: 14 Jul (1) Greene Co (DHM), ers. Pectoral Sandpiper: 21 Jul (1) Greene Co (DHM), ers. Common Snipe: 30 Jul (1) Bledsoe Co (BJ), quite early. Ring-billed Gull: 13 Jun (1) Chickamauga L (KAC). Barn Owl: 17 Jun (2 ad, 4 yg) Johnson City (LCM et al.); mid Jun - Aug (2 ad, 3 yg) near Jefferson City (KDE).

Flycatcher - Lark: Willow Flycatcher: 6 / 15 Jun (1 / 1) separate Washington Co sites (RLK); 18 Jun (1) Phipps Bend, Hawkins Co (RLK); 29 Jul (ad feeding 1 yg) Kingston Steam Plant, Roane Co (DJT, Ron Hoff, Dollyann Myers). Least Flycatcher: 4 Jun (1) Hinch Mtn, Cumberland Co (Roi & Debbie Shannon). Scissor-tailed Flycatcher: 31 May - 11 Jun (1 / pair, failed nesting attempt) Hwy 411 at Hiwassee R., Polk Co (Dave Etnier fide Charles Nicholson / Jimmy & Cynthia Wilkerson, m.ob.); 4 Jun - 13 Jul (2 ad, nest with 1-2 yg which fledged) north of Pikeville, Bledsoe Co (Roi & Debbie Shannon, m.ob.); 11 Jun (1) Clinton, Anderson Co (Ross Blevins). Loggerhead Shrike: 5 Jun (1 ad, 2 yg) Washington Co (RLK, LCM); 4 Jul (1 ad, 2 yg) Greene Co (DHM, ACL, LN); 5 Jul (4 yg) Jefferson Co (KDE). Warbling Vireo: 2-13 Jun (3 at 3 sites) Greene Co (DHM, ACL); 5-15 Jun (9 at 5 sites) Washington Co (RLK); 16 Jul (2) Rankin Bottoms (KDE, DJT, CJW). Horned Lark: 1-5 Jun (2) Washington Co (RLK).

Swallow - Siskin: Tree & Cliff Swallows: both continue to increase in East Tenn. Bank Swallow: 23 Jul (500) Greene Co (LN, Lu Simmons), migrants. Cerulean Warbler: 1 Jun (1) Oak Ridge Reservation, Roane Co (Dev Joslin); 20 / 23 Jul (1) Hamilton Co (Mary Lynn Buttram / KAC), migrants. Prothonotary Warbler: 5 Jun (2) Austin Springs (RLK, LCM); 10 Jun (1) Greeneville (DHM); 30 Jun (4+) Rankin Bottoms (KDE). Swainson's Warbler: 1-17 Jun (1) Cove Lake SP (NeM); 1-15 Jun (1) Norris, Anderson Co (Roger Tankersley, Dev Joslin); 6 May - 30 Jun (17+) in or near Big South Fork, about half in Kentucky (Stephen Stedman, Robert Emmott, Daniel Combs). Canada Warbler: 16 Jul (1) Cross Mtn, Campbell Co (NeM). Savannah Sparrow: thru Jun (8+ at 4 sites) Washington Co (RLK); 2 Jun - 15 Jul (2) Greene Co (DHM). Dickcissel: 1 Jun - 18 Jul (1 m) Limestone, Washington Co (RLK et al.), 5th consecutive year at site; 4 / 8 Jul (3 at 2 sites) Greene Co (DHM); 8 Jul (2) Grainger Co (DJT). Pine Siskin: 22-24 Jun (1) Campbell Co (NeM), at feeder.

Locations: Austin Springs - in Washington Co; Chickamauga L. - in Hamilton Co; Cove Lake SP - in Campbell Co; Kingsport - in Sullivan Co; Rankin Bottoms - in Cocke Co.

RICHARD L. KNIGHT, 804 North Hills Drive, Johnson City, TN 37604.

EASTERN MOUNTAIN REGION — Temperatures were mild and precipitation was normal. A female Hooded Merganser summered in Shady Valley. A small flock of White Ibises visited Carter County. There was good coverage of Hampton Creek Cove in Carter County, a preserve owned by the state and managed by the Southern Appalachian Highlands Conservancy. Hermit Thrushes were reported from four different possible breeding areas and Yellow-rumped Warblers from three. Red Crossbills occurred in good numbers.

Grebe - Woodpecker: Pied-billed Grebe: 5 Jun (1) Sycamore Shoals SP (RLK, LCM). Great Egret: 23 Jun (3) Roan Cr. arm of Watauga L., Johnson Co (RLK). WHITE IBIS: 21 Jun - 3 Jul (9 im) Siam Valley, Carter Co (fide Frank Ward, HPL), 1st Jun record in NE Tenn. Yellow-crowned Night-Heron: 24 Jun (3) Sycamore Shoals SP (BKS). Hooded Merganser: thru period (1 f) Shady Valley (John Shumate), 1st Jul record in NE Tenn. Sharp-shinned Hawk: 24 Jul (1) Roan Mtn (AJT). Semipalmated Plover: 27 Jul (1) S. Holston L (JWC). Western Sandpiper: 25 Jul (2) S. Holston

L (JWC). Black Tern: 29 - 30 Jul (2) S. Holston L (HPL, BKS, JWC). Mourning Dove: 30 Jun (2) Carver's Gap, Roan Mtn (RLK). Black-billed Cuckoo: 17 / 21 Jun (1) Hampton Cr. Cove (RLK et al. / RLK, AJT), carrying food repeatedly on the former date. Northern Saw-whet Owl: 8 Jul (2) Roan Mtn (LCM et al.). Red-headed Woodpecker: 29 Jun (1) Holston Valley, Sullivan Co (Richard Lewis).

Flycatcher - Thrasher: Alder Flycatcher: thru Jun (2) Hampton Cr. Cove, at low elevation, plus (6+) Roan Mtn, & (2) Little Hump Mtn. (AJT), all in Roan Mtn vicinity. Willow Flycatcher: 8 Jun (8) Shady Valley (RLK); 21 Jun (7) Roan Mtn. village & Hampton Cr. Cove area (RLK); 23 Jun (4) Mountain City & Laurel Bloomery area, Johnson Co (RLK). Least Flycatcher: 7 Jun (1 nest building) Roan Mtn (RLK). Eastern Phoebe: 16/30 Jun (1) Carver's Gap, Roan Mtn (RLK); thru Jun (2) Mt. LeConte, at 6400 ft. (AW); unusually high elevation. Tree Swallow: 30 Jun (pair feeding yg in nest box) Round Bald, Roan Mtn (RLK), 5725 ft. elevation, 2nd consecutive year. Bank Swallow: 24 Jun (1) Watauga R., Carter Co (BKS, HPL). Common Raven: 17 Jun (12) Roan Mtn (DHM), max. Brown Creeper: 10 Jun (1) Walnut Mtn, Carter Co (RLK); 14 Jun (1 ad, 1 im) Elkmont Campground, GSMNP (Richard Lewis); 20 Jul (nest) Roan Mtn (AJT). Carolina Wren: thru Jun (2) Mt. LeConte, at 5300 & 5500 ft (AW). Veery: 12 Jun (25) Unaka Mtn (RLK), max. Hermit Thrush: thru summer (10+, 1 carrying food on 27 Jul) Roan Mtn (AJT, RLK); early Jun (1) Unaka Mtn (AJT); thru Jun (11+) Mt. LeConte (AW); 8 Jul (1-2) Clingman's Dome, GSMNP (DJT et al.). Brown Thrasher: 7 Jun (1) Carver's Gap, Roan Mtn (RLK).

Warbler - Siskin: Blue-winged Warbler: 23 Jun (1) Roan Cr, Johnson Co (RLK). Golden-winged Warbler: thru Jun (14 territories) Hampton Cr. Cove (AJT), see cowbird note below. "Brewster's" Warbler: 17 Jun / 31 Jul (1) Hampton Cr. Cove (Jim Holt / AJT), this hybrid has occurred in the Roan Mtn vicinity annually since 1996. Magnolia Warbler: 27 Jun (ad with 2 fledglings) Unaka Mtn (AJT), 1st confirmation of breeding in state; 28 Jun (1) Roan Mtn (AJT). Yellow-rumped Warbler: 23 Jun (1 m) Roan Mtn (AJT); 8 - 27 Jun (1 m on territory) Unaka Mtn (AJT); 14 Jun - 11 Jul (1 m on territory) Mt LeConte (AW); all possible breeders. Blackburnian Warbler: 24 Jun (2) Walnut Mtn, Carter Co (Joe McGuiness). Swainson's Warbler: 8 Jun (1) Shady Valley (RLK); 24 Jun (1) Watauga L, Carter Co (RLK); 11 Jul (1) Rock Cr. Park, Unicoi Co (HPL, BKS). Canada Warbler: 12 Jun (20) Unaka Mtn (RLK), max. Indigo Bunting: thru Jun (1-2 m) Roan Mtn (RLK), above 5500 ft elevation. Savannah Sparrow: 8 Jun (1) Orchard Bog, Shady Valley (RLK); 23 Jun (5) Doe Valley & Laurel Bloomery, Johnson Co (RLK). Song Sparrow: thru Jun (4) Mt. LeConte, at 6400 ft. (AW). Common Grackle: 7 Jun (1, flying thru) Carver's Gap, Roan Mtn (RLK). Brown-headed Cowbird: thru Jun (1-3 m, 1-2 f) Hampton Cr. Cove (AJT), 1 egg in Golden-winged Warbler nest on 11 Jun. Red Crossbill: thru period on Roan Mtn (AJT, RLK), max 80+ in single flock on 16 Jun (RLK); 12 Jun (9) Unaka Mtn (RLK); thru Jun (up to 20) Mt LeConte (AW); 8 Jul (2) Newfound Gap, GSMNP (DJT et al.). Pine Siskin: thru season (max 16+) Roan Mtn (RLK, AJT).

Locations: GSMNP - Great Smoky Mountains National Park; Hampton Cr. Cove - near Roan Mtn., in Carter Co; Mt. LeConte - in Great Smoky Mountains National Park; Sycamore Shoals SP - in Carter Co; Shady Valley - in Johnson Co; S. Holston L - in Sullivan Co; Unaka Mtn - in Unicoi Co.

RICHARD P. LEWIS, 407 V.I. Ranch Road, Bristol, TN 37620; mountainbirds@email.com.

OBSERVERS

DHM - Don H. Miller CHB - Carolyn H. Bullock KAC - Kevin A. Calhoon NaM - Nancy Moore GBC - Gary B. Casey NeM - Nell Moore PDC - Phillip D. Casteel - Linda Northrop LN RHC - Richard H. Connors RWP - Robert W. Peeples WGC - W. Glen Criswell WRP - William R. Peeples KDE - K. Dean Edwards DDP - Dick D. Preston VBR - Virginia B. Reynolds JAF - James A. Ferguson - Sue C. Ferguson SCF MBS - Michael B. Sledjeski RPF - Robert P. Ford CAS - Chris A. Sloan LJG - Leslie J. Gibbens BKS - Bryan K. Stevens MAG - Mark A. Greene MCT - Michael C. Todd - Bonnie Johnson AIT - Allan J. Trently RLK - Richard L. Knight DIT - David J. Trently HPL - Howard P. Langridge MGW - Martha G. Waldron KL - Ken Leggett AW Anthony Whitted CJW - Chris J. Welsh ACL - Alice C. Loftin MLM - Margaret L. Mann LVZ - Linda V. Zempel LCM - Larry C. McDaniel

MTOS - Memphis chapter, TOS

The new compiler for the Western Coastal Plain Region is Rob Peeples. Submit data to him at:

SNM - Susan N. McWhirter

W. Robert Peeples 8205 Meadow Glen Dr. Germantown, TN 38138



LILLIAN H. DUBKE (1917-2000)

J. Wallace Coffey 100 Bellebrook Dr. Bristol, TN 37620

Lillian Ashby Hill Richards Dubke was her full name, but everyone called her Lil. She died in a Chattanooga hospital on 20 July 2000 after suffering for two years with Alzheimer's disease.

From the time they first met in 1970, Lil and her husband Ken were an inseparable team. According to Ken's records, the milestone date was 12 February 1970. Ken and Lil were a very close knit couple during nearly 30 years of married life.

Lil left a legacy of devotion to the birds, other wildlife, and conservation through her activities with the Tennessee Ornithological Society (TOS), both with the local Chattanooga Chapter and with the state organization. She was also active in other kindred groups, such as the Chattanooga Audubon Society and Cherokee Group of the Sierra Club.

Lil and Ken were active field ornithologists. A great number of their observations were reported in the Eastern Ridge and Valley Region part of "The Season" report in *The Migrant*. From June 1978 to December 1986 they compiled a total of 35 regional season reports.

Lil was an active hawkwatcher and spent many hours scanning the sky and recording her sightings. These observations were then forwarded to the Hawk Migration Association of North America as well as being published in *The Migrant*.

For more than 20 years Lil actively participated in the U.S. Fish and Wildlife Service's Breeding Bird Surveys. In addition, when the TOS committed to the Breeding Bird Atlas project, she was an active participant and worked many priority blocks with Ken and Bob Pierce. When the atlas regional coordinator was called to active duty during the Gulf War, she assumed these additional duties until the end of the project.

Lil and Ken spent many hours wading and recording their observations at the Amnicola Marsh in Chattanooga. When the area was scheduled for destruction by industrial development, Lil was a leading figure in preserving this special wetland habitat. In 1986, after several years of effort, the 55-acre site was donated to the Tennessee Wildlife Resources Agency (TWRA) by the Norfolk Southern Corporation. It became one of the agency's first urban refuges. Today, the area has been greatly degraded, but with the planned expansion of the nearby Riverwalk, its prospects are much brighter and ready to be exploited for their tremendous educational value.

For many years Lil wrote, edited, sorted, and mailed the Chattanooga chapter's monthly newsletter, "Chattanooga Chat." Her first issue was July 1970 and the last was August 1991. Except for a couple of issues, she did them all in her own light, whimsical fashion.

Lil helped organize the Tennessee River Gorge Trust and served as its first secretary and treasurer. She and Ken compiled more than 20 years of their bird records into an ecological report on the area for The Nature Conservancy.

In the early 1970s, Lil and Ken moved to a new house at Savannah Bay on Chickamauga Lake. This decision was based on the wide diversity of habitats on the nearby Tennessee Valley Authority (TVA) public land. The area was especially productive during the fall and winter when low lake levels exposed mudflats. The welcome mat was always out and many novices and veteran birders had their first looks at rare and common birds with the Dubkes as hosts.

This desire to share the joys of birdwatching with others led to the idea of designating Savannah Bay as some type of acknowledged public viewing site. The idea was promoted to the TVA and the TWRA. They liked the suggestion, but there were some misconceptions about the idea from other Savannah Bay residents. Lil knew the concept was sound and, with her tenacious persistence, overcame the objections. In 1981, with everything finally in place at Savannah Bay, the Tennessee Wildlife Resources Commission (TWRA) approved the concept statewide, calling them Wildlife Observation Areas.

According to TWRA's former Nongame and Endangered Species Coordinator Bob Hatcher, to the best of his knowledge, Tennessee's Wildlife Observation Areas were the first established in the country and have now evolved into the nationwide Wildlife Viewing Areas program.

In the summer of 1979 Lil and Ken participated in the first hacking of Osprey at their Savannah Bay home. They did this for two years and, because of their successful efforts, the process was duplicated across the state. In the 1970s, nesting Ospreys were a rare sight in the state. Today, more than 100 pairs nest in the state with most of them concentrated in east Tennessee.

Lil was a positive influence while attending most TOS spring, fall, mid-winter meetings, counts, surveys and forays. She was active in the TOS bluebird project during the Bicentennial Homecoming '86. Lil could always be counted on to enthusiastically lead field trips and to present programs on birds to the chapter and other interested groups. Because of her extensive activities, the National Society Daughters of the American Revolution awarded her their Conservation Medal in 1988. In 1990, Lil and Ken were among the first recipients of the TOS Distinguished Service Awards. On 14 February 1998, the Chattanooga Chapter honored the Dubkes with a book of memories and a recognition dinner.

From the above account it can readily be observed that Ken has been mentioned about as often as Lil. They were a true team in every endeavor, including Ken's full-time role as Lil's caregiver during her last few years. She loved her birds and immensely loved people. She particularly loved sharing her passion of nature with others. However, there was a serious side to her as she realized what was happening to our natural world. This motivated her to act on her own and through others, so that future generations could enjoy these same pleasures.

Lil's first husband, Edward Richards, died from a car accident; they had two daughters, Sarah LaMarche and Hannah Detoma. She is survived by five grand-children.

Memorial contributions have been made to the Chattanooga Audubon Society and a suitable memorial is being planned at the Society's Audubon Acres Sanctuary in Chattanooga.

Ken Dubke contributed many details to the above account and for that, the author is grateful.

2001 TOS MEMBERSHIP LIST

This is a listing of the membership of the Tennessee Ornithological Society for the year 2001. Please notify the TOS treasurer (David Trently, 1029 Morrow Rd, Knoxville, TN 37923; dtrently@utk.edu) of any address, phone, or e-mail corrections.

BRISTOL CHAPTER

Basil C. Barkley 1202 Bair-Vette Ave. Johnson City, TN 37604 423-926-5882 basilc@worldnet.att.net

Tom Brake 15174 Peaceful Valley Rd. Abingdon, VA 24210

Edward W. Burke, Jr. 1307 Rock Rose Rd. Bristol, TN 37620 423-764-4235 edburkekc@aol.com

Emily Burkey 400 Walling Dr. Piney Flats, TN 37686 423-323-9367

Dana & Sandra Campbell 435 Belmont Dr. Bristol, TN 37620-4927 423-968-9126

Ron & Chris Carrico 113 Ridgewood Rd. Bristol, TN 37620-6311 423-878-2612 aveprsut@tricon.net

Wallace & Carolyn Coffey 100 Bellebrook Dr. Bristol, TN 37620 423-764-3958 jwcoffey@tricon.net

Joann Detta & Marty Huber 19188 Jonesboro Rd. Abingdon, VA 24211 540-623-5285 jomart@naxs.com Mary Jane Erwin 500 Red Oak Ln. Kingsport, TN 37663 423-239-3781 maryerwin@chartertn.net

Michael & Mary Evans 4317 Stagecoach Rd. Kingsport, TN 37664 423-246-7426

Jane Fleenor 309 Corpus Christi Dr. Bristol, TN 37620 423-764-3291

Joseph & Evelyn Goldston 21668 Jade Woods Dr. Bristol, VA 24202 540-669-1771

Bert & Lorraine Hale 223 Sharps Hollow Rd. Bluff City, TN 37618 423-538-7650 blhale@naxs.net

Kenneth Hale 361 Walnut Hill Rd. Bristol, TN 37620-7052 423-764-8592 khale@chartertn.net

Ron Harrington 20435 Carson Ln. Bristol, VA 24202

John R. Hay, III 2909 Cliffside Rd. Kingsport, TN 37664 423-245-8473 Rick Knight 804 N. Hills Dr. Johnson City, TN 37604 423-282-5297 rknight@preferred.com

Ron & Rose Lee Lapp 169 Green Rd. Sneedville, TN 37869 423-272-5904 lappc@planetc.com

Richard P. Lewis 407 V.I. Ranch Rd. Bristol, TN 37620 423-878-2505 mountainbirds@email.com

Janice, Fred & Ricky Martin 701 Euclid Ave. Bristol, VA 24201 540-466-8678 redwing@tricon.net

Sandra L. Martin 14451 Cenfield St. NE Alliance, OH 44601-9489

Larry McDaniel 3305 Pine Timbers Dr. Johnson City, TN 37604-1404 lcmcdani@tricon.net

Tony & Renee Messina 100 Ferry Rd. Kingsport, TN 37663

Mae Musick 465 Painter Creek Rd. Bristol, TN 37620-7917 423-878-3816 Robert H. Quillen 22333 Ivanhoe Rd. Bristol, VA 24202 540-669-8309

Robert & Lisa Rigely 318 Greystone Rd. Marion, VA 24354 540-646-5381

Judith Roach 3919 Skyland Dr. Kingsport, TN 37664 423-247-8212

John & Lorrie Shumate 156 Meadowlark Ln. Shady Valley, TN 37688 423-739-5321 jshumate@preferred.com

Ruth Baker Smith 417 Evergreen St. Church Hill, TN 37642 423-357-5494 mrbaker@mounet.com

Dave & Diana Worley Rt. 2, Box 266-Q Cedar Bluff, VA 24609 540-880-1374 trooper@mounet.com

BUFFALO RIVER CHAPTER

Tom & Mary Benson 133 Marcella Falls Ethridge, TN 38456 931-829-2549

Lanette Cassell 1703 Dexter Ave. Lawrenceburg, TN 38464 931-762-4124

Martha Crawford 108 Buffalo St. Lawenceburg, TN 38464 931-762-5805

Neal & Geneva Frisbie 1600 Ray St. Lawrenceburg, TN 38464 931-762-2543

Daphne Griggs 114 Guard Dr. Lawrenceburg, TN 38464 931-762-4295

Connie Hollman 811 N. Military St. Lawrenceburg, TN 38464 931-762-2227

Dot & Chester McConnell 110 Wildwoods Ln. Lawrenceburg, TN 38464 931-762-7718

William Royce, Carol & Laura Neidert 207 Old Jackson Hwy. Loretto, TN 38469 931-852-4330

Jane Newell & Buford Worn 917 Brookmeade Dr. Pulaski, TN 38478-3133 931-424-6194

Dr. Robert & Carole Owen 103 Oak Forks Rd. Lawrenceburg, TN 38464-7161 931-766-6336 Russell & Barbara Pankey 800 Odd Fellows Hall Rd. Pulaski, TN 38478 615-363-1302

Mrs. Thomas Parrish 215 Lafayette Ave. Lawrenceburg, TN 38464 931-762-9532

Roy & Muriel Ross 2299 Grandview Dr. Lawrenceburg, TN 38464 931-762-0482

Terrell & Donette Sellers 1504 Frances St. Lawrenceburg, TN 38464 931-762-3186

Don & Donna Simbeck 424 Riddle Ln. Loretto, TN 38469 931-855-4944

Levi Townsend P. O. Box 4 Pulaski, TN 38478

Alexander Williams P. O. Box 4 Pulaski, TN 38478

Morris D. Williams 120 Hurricane Creek Rd. Lawrenceburg, TN 38464 931-363-6562

Rita Williams P. O. Box 4 Pulaski, TN 38478

Richard & Geneva Wiser 585 Miller Ln. Lawrenceburg, TN 38464 931-762-2693

Becky Yannayon Box 120 Hurricane Crk Rd. Lawrenceburg, TN 38464 931-363-6562 byannayon@earthlink.net

CHATTANOOGA CHAPTER

Peggy Carmona 3513 Valley Trail Chattanooga, TN 37415 423-877-8518

Katherine Abelson 5621 Crestview Dr. Hixson, TN 37343 423-877-5771

David Aborn UTC - Dept. Bio/Env. Science Chattanooga, TN 37403-2598 423-755-5236 David-Aborn@utc.edu

Joann Alexander 4590 Fire Pink Trail Chattanooga, TN 37415 423-877-0761

Mary Allen 8150 Richland Dr. Hixson, TN 37343 423-842-6777

Lloyd & Betty Anderson 8237 Roy Ln. Ooltewah, TN 37363 423-238-4059

Jackson Andrews Tennessee Aquarium P. O. Box 11048 Chattanooga, TN 37401 423-785-4006

McNair & William Bailey 523 Sterling Ave. Chattanooga, TN 37405 423-267-7653

Benton Basham P. O. Box 8 Viola, TN 37394-0008 423-396-3458

Betty Belcher 4107 Woodland Dr. Ooltewah, TN 37363 423-855-0736 Nelson E. Bennett 8823 Prairie Schooner Cir. Soddy Daisy, TN 37379 423-842-9433

Alice Benton 431 Benton Ln. Soddy Daisy, TN 37379 423-842-6133

Terry & Brenda Billings 570 County Rd. 279 Niota, TN 37826 423-337-7666

Harold Birch 8326 Gann Rd. Soddy Daisy, TN 37379 423-842-4623

Walter Bledsoe 12920 Georgetown Village Ln. Georgetown, TN 37336 423-961-2050

Clyde Del Blum 3223 Swanger Rd. Signal Mountain, TN 37377-9801 423-886-4130

Jeffrey P. Boehm Suite 808, MacClellan Bldg. 721 Broad St. Chattanooga, TN 37402 423-756-5111

Marlys H. Boyd 7511 Shallowford Rd., Apt. 401 Chattanooga, TN 37421-2696 423-499-5654

Paul C. & Joanne Bradshaw P. O. Box 21592 Chattanooga, TN 37421 423-892-8155

Michael Brewer 1423 Dakota Dr. Murfreesboro, TN 37129 Edith S. Bromley 9300 Messinger Ln. Ooltewah, TN 37363

Ralph Brown 672 E. Crest Rd. Chattanooga, TN 37404 423-752-5273

Jared Bruckner P. O. Box 362 Collegedale, TN 37315 423-396-9144

Stanton Burch 694 Logger Ln. Hixson, TN 37343 423-843-3724

Mary E. Butler 3212 Westonia Dr. Chattanooga, TN 37412-1361 423-624-5628

Mary Lynn Buttram 1409 Winding Way Chattanooga, TN 37405 423-265-3401

James Caldwell 375 County Rd. 801 Etowah, TN 37331 423-263-7902

Ted & Elizabeth Caldwell 610 N. Bragg Lookout Mtn., TN 37350-1138 423-821-0007

William & Sandy Caldwell 6020 Porter Dr. Harrison, TN 37341 423-344-5674

Kevin Calhoon 934 Craven's Terrace Lookout Mtn., TN 37409 423-821-6802 KAC@tennis.org Mary Anne Callahan 3506 Stoney Brook Ln. Chattanooga, TN 37415 423-875-5345

Carl Campbell Rt. 3, Box 178 Armstrong Ferry Rd. Decatur, TN 37322 423-334-3547

Carol Carson & Ches Alper Rt. 3, Box 254-4 Decatur, TN 37322 423-334-3981

Tom & Cindy Carter 8212 Paces Ferry Crossing Chattanooga, TN 37421 423-892-7657

Carl & Janice Chadwell 227 W. Highland Dr. Ringgold, GA 30736 706-891-9573 janchad@vei.net

Dr. David Chaffin 1606 Everhart Dr. NW Cleveland, TN 37311-1523 423-472-0832 Davchaffin@aol.com

Bill & Judy Chandler 2200 Georgetown Rd. Cleveland, TN 37311 423-479-2864

Carla Christensen 1700 Murfin Ave., Apt. 26 Ann Arbor, MI 48105

Dr. Robert & Sally Clark 2924 Ozark Rd. Chattanooga, TN 37415 423-756-3237

Ann Clarke 3252 Old Chattanooga Rd. Tunnel Hill, GA 30755 706-673-2033 Ken & Amber Clay 7501 Wolftever Trail Ooltewah, TN 37363 423-344-3201

Paul Cole P. O. Box 28006 Chattanooga, TN 37424

Bernard & Jane Collins 2116 Ballard Place Chattanooga, TN 37421 423-894-1603

Linda Collins 2907 E. Brow Rd. Signal Mountain, TN 37377 423-886-4522

Brainard & Louise Cooper 176 Ridge Ave. Chattanooga, TN 37404 423-622-6081

Robert Copeland 1312 Alethea Dr. Hixson, TN 37343 423-875-2396

Rose Ann Copeland 7027 White Oak Valley Rd. McDonald, TN 37353 423-238-4299

Ellen Cowgill 3269 Robertson Way Blairsville, GA 30512 706-745-5927

Byron C. & Donna Cox 306 Bass Rd. Chattanooga, TN 37421 423-894-9742

Maj. Robert L. Crawford P. O. Box 613 Hixson, TN 37343 423-842-4402

Harry Dadds 1819 Auburndale Ave. Chattanooga, TN 37405 423-267-6114 Leba Dawkins 3600 Keith St. NW #1206 Cleveland, TN 37312 423-478-0427

Maria Derrick 8601 Glenaire Dr. Chattanooga, TN 37416 423-344-0638

Frank & Brigitte Di Memmo 5400 Village Garden Dr. Ooltewah, TN 37363 423-238-4394

Melissa Dickinson 2406 Charlotte Ave. Chattanooga, TN 37415-6211 423-877-0633

Louis A. & Kathy Dittmar 323 Shadow Ridge Dr. Chattanooga, TN 37421 423-855-8429

Wayne & Phyllis Dixon 293 Pine Hill Dr. Dayton, TN 37321 423-775-2960

Kenneth H. Dubke 2864 Britain Cir. Chattanooga, TN 37421-1121 423-499-3584

Ann E. Eagar 4309 Via Alta Dr. Mobile, AL 36609 334-661-3744

John W. & Marian Eaton 4304 Dalton Pike SE Cleveland, TN 37323 423-472-6751

William & Phyllis Eaton 1808 Colonial Shores Dr. Hixson, TN 37343 423-843-0944 Maurice E. Edwards 3818 Walden Wood Ln. Signal Mountain, TN 37377 423-886-4577

Clare Emery 15 Edwards Terrace Chattanooga, TN 37412 423-785-3356

Jerry Farinash 320 N. Holtzclaw Ave. Chattanooga, TN 37404 423-622-4535

Charles & Carol Fegarido 5108 Silver Ln. Apison, TN 37302-9593 423-236-4437 ATBakpakr@aol.com

Marylu Fowler 100 James Blvd. W-303 Signal Mtn., TN 37377 423-886-0456

Danny & Anita Gaddy P. O. Box 9613 Chattanooga, TN 37412 706-937-3842 Gaddy@catt.com

Jack Gentle 3535 Mountain Creek Rd. #1604 Chattanooga, TN 37415 423-877-8087

Douglas Geren 1840 Harle Ave. Cleveland, TN 37311 423-479-9309

Virginia Goins 402 Dell Trail Dunlap, TN 37327 423-949-2223

Mary Green 733 Gizzard Creek Rd. Sequatchie, TN 37374 423-842-8190 Bettye & Elizabeth Grubbs 8105 Holly Crest Chattanooga, TN 37421 423-894-6655

William G. Haley, Jr. 215 McFarland Ave. Chattanooga, TN 37405 423-756-4106 wgh@tennis-gateway-tennis.org

Dennis & Gwendolyn Harris P. O. Box 21901 Chattanooga, TN 37424-0901 423-855-4306

Shawn Hawkins 3304 Fairway Dr. Knoxville, TN 37917 865-525-2620

Douglas F. & Geraldine Hayes P. O. Box 1294 Hixson, TN 37343 423-877-1824

John Henderson 7323 Fairington Cir. Hixson, TN 37343 423-842-3568 RJHSHRIKE@aol.com

Kenneth M. & Sandra Hereford 2440 Haven Cove Chattanooga, TN 37421 423-892-2123

Kathryn Hicks 413 S. Mission Ridge Dr. Rossville, GA 30741 706-866-1658

Richard Hirsch 103 Sherwood Ave. Chattanooga, TN 37411 423-493-9011

Arthur & Sherry Honaker 6529 Lakeshore Pkwy. Chattanooga, TN 37416 423-344-2616 J N. & Ella Howard 290 Scenic View Cir. Wytheville, VA 24382-1318 birder@tcia.net

James & Shirley Howard 239 County Rd. 252 Athens, TN 37303 423-746-0793

Deborah Huddleston 5660 Willow Point Ln. Harrison, TN 37341-9734 423-344-1060

Angela C. Hughes 1715 Skyline Dr. Chattanooga, TN 37363 423-757-1587

Dr. C. Richard Hughes 703 Paragon Pkwy. NW Cleveland, TN 37312 423-476-8347

Jo Hutto 2807 Ponderosa Cir. Decatur, GA 30033

Herman & Sherry Hydas 2127 Cliff Eldridge Rd. Soddy Daisy, TN 37379 423-877-1278

Tanya Iles 9333 Berkshire Cir. Chattanooga, TN 37421 706-965-6301 Tanya_Iles@SIND.com

Jerry Ingles SPO 1245 Sewanee, TN 37375 931-598-1235 jeingles@sewanee.edu

Jerry Jackson 4715 Bonny Oaks Dr. #505 Chattanooga, TN 37416-3831 423-892-1613 Daniel R. Jacobson 5310 Inlet View Ln. Hixson, TN 37343-4657 423-875-6453

Kathy Jacobson 5310 Inlet View Ln. Hixson, TN 37343 423-875-6453

Bonnie Johnson Rt. 1, Box 500 Dunlap, TN 37327 423-949-4237 BirdLadyBJ@aol.com

S. Dawn Johnson 627 Godsey Ln. Chattanooga, TN 37415-1215 423-842-6507

James & Beverly Joiner 5317 Misty Valley Dr. Ooltewah, TN 37363 423-396-9162

Mrs. Lenny Kafka 2401 Cedar Creek Dr. Chattanooga, TN 37421-2006 423-894-3027

Hyman & Susan Kaplan 120 Council Fire Dr. Chattanooga, TN 37421-5309 423-894-0269

Melvin & Dorothy Kaset 3907 Daleview Terrace Chattanooga, TN 37411 423-624-1063

Starr T. Klein 217 Arrow Dr. Signal Mountain, TN 37377 423-886-5613

Joseph Knott 38 Mimosa Dr. Chattanooga, TN 37415 423-875-2270 Mike & Beth Lancaster 2811 Anderson Ave. Chattanooga, TN 37404 423-629-2348

Carl & Barbara Lansden 305 Lynncrest Dr. Chattanooga, TN 37411 423-622-1849

Jack & Vicky Leather 3829 Mission View Ave. Chattanooga, TN 37411 423-622-4588

Johnnie Sue Lyons 600 Marr Dr. Signal Mountain, TN 37377 423-886-4564 Jonniesuel@aol.com

Owen Maddux 211 Grayson Rd. Signal Mtn, TN 37377 423-266-5691

Mrs. Chris Mahoney Wild Birds Unlimited 7626 E. Brainerd Rd. Chattanooga, TN 37421 423-892-3816

James P. & Susan Malone 536 Tree Top Ln. Chattanooga, TN 37343 423-877-8261

Susie Matthews 400 Garden Rd. Chattanooga, TN 37419 423-821-1160

Allen Lupton McCallie 1643 Berkley Cir. Chattanooga, TN 37405-2134 423-267-9045

Forney W. & Brenda McClellan 1535 Rugby Place East Ridge, TN 37412 423-867-3457 Michael A. & Barbara McMahan 1132 Ridge Top Dr. Chattanooga, TN 37421 423-894-7397 b.mcmahan@att.net

Phillip & Amy Lynn Mendenhall 2126 Old Ringgold Rd. Chattanooga, TN 37404 423-622-1882

John & Mary Millard 1338 Clearpoint Dr. Hixson, TN 37343-4403 423-877-1049

Tom Milligan 515C Ashland Terrace Chattanooga, TN 37415 423-870-5767

Betty Mills 46 Carriage Hill Signal Mtn, TN 37377 423-886-4304

Sharon Mills 1 Union Square, Ste. 604 Chattanooga, TN 37402-2514 423-265-2283

Lilly Mitchell 155 Ruth Ln. Ringgold, GA 30736-6540 706-935-4492

Laura Mitchell 9694 Bowen Trail Ooltewah, TN 37363 423-396-2849

Rev. Craig Morgan 3475 Edgewood Cir. NW Cleveland, TN 37312-4447 423-478-2765

Mary Myers 1413-B John Ross Rd. East Ridge, TN 37412 423-867-2711 Mrs. William F. Neal 5501 Bates Pike SE Cleveland, TN 37323-8031 423-476-8094

Bill Nelson 122 Rolling Ridge Dr. Chattanooga, TN 37421 423-892-8535

Dr. Roger Nelson HCR Box 380 Dunlap, TN 37327 423-949-4603

Judy Newsome 5720 Tennessee Ave. Chattanooga, TN 37409 423-821-3732 snowmom@bellsouth.net

David & Jan O'Neal 680 S. Crest Rd. Chattanooga, TN 37404 423-698-7196

William C. Olson 5404 Woodberry Cir. Marietta, GA 30068-1838 770-992-3829

Marty Paige 476 Bullington Rd. SW Cleveland, TN 37311 423-478-1444

Dee Parker 64 Iriswood Rd. Flintstone, GA 30725 706-820-9622

Lance Parker P. O. Box 1702 Chattanooga, TN 37401 423-265-0022

Johnny T. Parks 164 McDonald Dr. Ringgold, GA 30736-7213 706-937-7163 Ringgold birdchaser@juno.com David & Gloria Patterson 9328 Houston Ln. Ooltewah, TN 37363 423-485-8425 dgpatterson@inet75.com

James T Patton 203 Timberlinks Dr. Signal Mountain, TN 37377 423-886-1583

Steven & Stacey Petarra 7701 Elizabeth Way Ooltewah, TN 37363

Sam & Emilie Powell 506 Brady Point Rd. Signal Mountain, TN 37377 423-886-2689

Charles & Sandy Proctor 2689 Davis Ridge Rd. Ringgold, GA 30736 706-965-9279

Mary B. Randles 3908 S. Mission Oaks Dr. East Ridge, TN 37412 423-867-3240

James Randolph 13125 Eldridge Rd. Harrison, TN 37341 423-344-2905

Don Ritzhaupt 1610 Rockland Ct. NW Cleveland, TN 37311-4163 423-472-2708

JM & Joan Rodriguez 426 Gibson Pond Rd. Chattanooga, TN 37421 423-899-2836

Marilyn Rogers 105 River Point Rd. Signal Mountain, TN 37377 423-866-5986 Mrs. Tommie L. Rogers P. O. Box 54 Rock Port, MO 64482-0054

James D. Rowell 130 Sycamore Dr. Rossville, GA 30741 706-861-5727

Robin & Pamela Rudd 7611 Davidson Rd. Chattanooga, TN 37421 423-894-1729

R M. & Barbara Ruf Box 388 Collegedale, TN 37315 423-396-2720

Tim & Patti Russell 711 Donaldson Rd. East Ridge, TN 37412 423-624-9414

Robert R. Sargent 7570 Mac Hicks Rd. Trussville, AL 35173 205-681-2888

Vivian Schmid 10768 Loop Rd. PO. Box 817 Soddy Daisy, TN 37379 423-332-1189

Charles & Kathie Schnell 2217 Southforke Dr. SE Cleveland, TN 37311-0933 423-339-8123

Susan Schott 697 Traditions Dr. Chattanooga, TN 37415 schott@americainter.net

Linda Seay 446 Larry Dr. Ringgold, GA 30736 706-217-6737 Louis R. & Madeline Seefeld 811 Windy Hill Dr. Chattanooga, TN 37421 423-499-1916

John I. Selman 905 Kennington Hills Dr. Hixson, TN 37343 423-875-5855

Rev. Francis Clay & Idamae Seneker 8316 Gann Rd. Soddy Daisy, TN 37379-4118 423-622-3561

Roi & Deborah Shannon Rt. 3, Box 458, Jones Gap Rd. Soddy Daisy, TN 37379 423-332-5522

Harold Sharp 6710 W. Point Dr. Hixson, TN 37343-2549 423-870-2866

Carl & Cathy Silkett 2506 Basswood Ct. NW Cleveland, TN 37312-2096 423-476-9919

Sandy Smith 4012 Saint Elmo Ave. Chattanooga, TN 37409-1339 423-822-0128

Dr. Janet Snoddy 1880 Partridge Rd. Cleveland, TN 37311 423-479-4165

Cathrine & Jerry Snyder 108 East Geneva Ln. Oak Ridge, TN 37830 865-483-1228

Keith Snyder 4726 White Oak Dr. Ooltewah, TN 37363 423-396-9639 Ginette & Robert Somos 430 Gholdston St. Dayton, TN 37321-5698 423-775-5778

David Spicer 9446 Cheri Beth Cir. Ooltewah, TN 37363 423-894-5310

Harriette Spiegel 1710 Myrick Rd. Tallahassee, FL 32303-4334 850-383-9887 hspiegel@utcvm.utc.edu hspiegel@chattanooga.com

Kathleen Ann Spring 7623 Bonnie Dr. Chattanooga, TN 37416 423-894-1735

Richard M. & Mimi Steinberg 560 N. Crest Rd. Chattanooga, TN 37404 423-622-9060

Stephen Stewart 62 Vernon Rd. Rome, GA 30165 706-802-0686

David Stone P. O. Box 506 Ooltewah, TN 37363 423-238-4234

Rev. Randal C. Stringer 409 Shady Dr. Grove City, PA 16127-1925 412-458-0446

Carl & Beverly Swafford 11808 McGee Rd. Apison, TN 37302 423-238-2864

Vickie Taylor 312 LeConte View Ln. Knoxville, TN 37920 865-609-8442 David Thomforde 1006 Towanda Trail Athens, TN 37303-2350

Vaughn Trentham 4002 Old Freewill Rd. NW Cleveland, TN 37312 423-478-5936

Kimberly Tyler 508 Sharondale Rd. Chattanooga, TN 37412 423-698-3292

Dick Urban 900 N. Sanctuary Rd. Chattanooga, TN 37421 423-892-1499

Walt & Diana Vickers P. O. Box 8416 Chattanooga, TN 37414 423-899-6074

J. Rita Vital P. O. Box 1837 Collegedale, TN 37315 423-505-6605

David F. Vogt 5319 Mountain Creek Rd. Chattanooga, TN 37415 423-877-8129

Richard Waldrop 1135 Ponderosa Dr. Cleveland, TN 37311 423-479-7227

Bill & Betty Wampler 1009 Swallow Ln. Chattanooga, TN 37421 423-553-0745

Alice Watkin 1009 N. Rivermont Place Chattanooga, TN 37415 423-875-5274 Hella Wayman 5125 Silver Ln. Apison, TN 37302 423-236-4028

Jack Wheeler 2000 Clematis Dr. Hixson, TN 37343-3510 423-842-8132

Phil & Ellen Whitaker 4 Ft. Stephenson Place Lookout Mtn, TN 37350 423-821-6798

Diane J. Whitman 117 Shallowford Rd. Chattanooga, TN 37404 423-698-0493

Carla Wiksell 16 South Brooks Ave. Chattanooga, TN 37411 423-855-1560

James & Cynthia Wilkerson 1312 Scout Rd. Hixson, TN 37343-2420 423-843-0110 JimmWilkerson@CS.com

Dan N. Williams, Jr. 108 Wilder Dr. Signal Mountain, TN 37377 423-756-5287

Roy L. & Nancy Williams 1109 Radmoor Ln. Chattanooga, TN 37421 423-885-7926

Hayden Wilson Rt. 1, Box 502-A Dunlap, TN 37327 423-949-3092

John & Rita Wilson 5101 Chestnut Ave. Signal Mtn, TN 37377 423-886-4011 Sandy Wilson 234 Wilholt St. Dunlap, TN 37327 423-949-4561

David & Judy Winters 1252 Quail Valley Trail Apison, TN 37302 423-236-4167

Ron & Elizabeth Wolfe 9008 Finney Point Dr. Ooltewah, TN 37363 423-396-9262

Margaret Zimmerman 199 Zimmerman Ln. Byrdstown, TN 38549 423-842-0120 MAYFIELD-GRAY CHAPTER (formerly COLUMBIA)

Bobby & Janet Brown 2171 Glencoe Rd. Culleoka, TN 38451 931-987-3036

Robert & Jennifer Cardenas 1612 Columbia Ave. Columbia, TN 38401 931-840-9825 columbiajen@webtv.net

Phyllis J. Coble 2043 Union Place Columbia, TN 38401 931-540-8529

Tommy Edwards 896 Iron Bridge Rd. Columbia, TN 38401 931-490-9879

Dr. Joe & Sarah High, Jr. 2512 Antrim Cir. Columbia, TN 38401 931-381-3580

Dr. William & Janice Jernigan 107 Galion Dr. Columbia, TN 38401 931-388-0088

William & Kay Jones P. O. Box 193, Hwy. 412 Hampshire, TN 38461 931-285-2777 natcheztrace@worldnet.att.net

Dr. Allyn & Cynthia Lay 2951 Evans Ln. Columbia, TN 38401 931-381-4477

Bedford & Anne Lochridge 914 Woldridge Dr. Columbia, TN 38401 931-388-7600 Nelson III & Mary Lyles 867 Mooresville Pike Columbia, TN 38401 931-388-0551

Dr. George & Cleo Mayfield 999 Sunnyside Dr. Columbia, TN 38401 931-388-3922

Dr. Mark H. Mayfield 1742 Carl Ave. Baton Rouge, LA 70808-2904 mayfield@utxvms.cc.utexas.edu

Wendell Niel Robinson 1408 Towson Dr. Columbia, TN 38401 931-388-1013

Dr. Harold & Nancy Scott 2235 Knob Creek Rd. Columbia, TN 38401 931-388-0850

Jacob & Ingrid Shapiro, Jr. 864 Tom Osborne Rd. Columbia, TN 38401 931-388-1890

Larry & Lillimae Thomas 1003 Sunnyside Dr. Columbia, TN 38401 931-388-8835

Anna M. Wessels 302 Longstreet Dr. Columbia, TN 38401 931-388-9428

Kathie Wilson P. O. Box 613 Columbia, TN 38402 931-379-3798

GREENEVILLE CHAPTER

Denise Ashworth 6 Sanford Cir. Greeneville, TN 37743 423-639-8202 ashworth@greene.xtn.net

Mary Borden 1021 Tusculum Blvd. Greeneville, TN 37745 423-638-6327

Phine & Orland Britton 1701 Gott Dr. Greeneville, TN 37745 423-638-3863

Betty Ellis 402 Mt. Bethel Rd. Sun Valley Apts. #1 Greeneville, TN 37745 423-638-4979

Joel & Jeri Fleisher 1301 Pisgah Rd. Greeneville, TN 37743 423-638-7987

William & Pat Foland 103 Parkwood Cir. Greeneville, TN 37743-6632 423-638-3854

Margaret & William King Gaut 1440 Erwin Hwy. Greeneville, TN 37745 423-638-3022

Lenard & Juanita Heckert 196 Park Ave. West Greeneville, TN 37745 423-639-8345

B. D. & Henrietta Holt 312 N. Main St. Greeneville, TN 37745 423-638-2401 James & Barbara Holt 311 Colonial Cir. Greeneville, TN 37745 423-639-0525 jholt@xtn.net

Ron & Rose Lee Lapp 169 Green Rd. Sneedville, TN 37869 423-272-5904 lappc@planetc.com

James Lindsey 100 Crestview Dr., Apt. 3 Greeneville, TN 37745 423-639-4333

Don Miller & Alice Loftin 1308 Archcrest Ct Greeneville, TN 37743 423-639-4100 raincrow@xtn.net

Fawn & Velda Moore 4440 Old Stage Rd. Chuckey, TN 37641-4960 423-257-6475 kayak12@hotmail.com

Richard & Willie Nevius 542 Reed Rd. Greeneville, TN 37745 423-422-4426

Roy & Linda Northrop 75 Wintergreen Ave. Greeneville, TN 37745-4442 423-638-0709

Larry & Jo Anne Routledge 1203 Woodhaven Ln. Greeneville, TN 37745-6533 423-638-5194 BirdRout@AOL.com

Lu Simmons 5855 Erwin Hwy. Chuckey, TN 37641-6222 423-798-9986 Helen Spees 704 E. Barton Ridge Rd. Greeneville, TN 37745-6236 423-638-5075 hspees@naxs.net Ellen Thomas 603 Mt. Bethel Rd. #2 Greeneville, TN 37745 423-787-1932 Karen & Robert Zimmerman 400 Lori Cir. Chuckey, TN 37641 423-787-7768

HIGHLAND RIM CHAPTER

Dwain & Joyce Adams 676 Wilkerson Ln. Winchester, TN 37398 931-962-0280 gdadams@infoave.net

John & Lois Bruner 2752 Old Salem Lexie Rd. Belvedere, TN 37306 931-967-3279

Tom & Betty Burleson 265 Owl Hollow Ln. Winchester, TN 37398-3812 931-967-5171

Billy & Maxine Chambers 260 Bains Rd. Hillsboro, TN 37342 931-596-2128

Don Davidson 1703 Second Ave. Manchester, TN 37355 931-728-7364

Jerry Eder 186 Fire Lake Dr. Manchester, TN 37355 931-728-7376

Katherine Gilliam 107 S. Ramsey St. Manchester, TN 37355 931-728-3984

Bill Graeler 300 College St., Apt. 29 Manchester, TN 37355-1746 931-728-7828 Mildred Guy 219 Cat Creek Rd. Manchester, TN 37355 931-728-2865

Marjory B. Harper 4611 Eldridge Rd. Hixson, TN 37343-4223

Edith Hickerson 215 W. Main St. Manchester, TN 37355 931-728-2384

Wanda Holt 88 Kimberly Ln. Manchester, TN 37355 931-728-4582

Albertine J. Jenkins 17372 Mountain Rd. Montpelier, VA 23192-2401

John & Elizabeth Lamb 491 Lakeview Trail Decherd, TN 37324 931-962-9615

Ruth Luckado 937 McKellar Dr. Tullahoma, TN 37388 931-455-4004

H. D. & Agnes Marcrom433 W. Fort St.Manchester, TN 37355931-728-2276

Elaine McKelvey 6615 Stevenson Rd. Hillsboro, TN 37342 931-596-2255 Lee & Nicky Medley 2834 Miller Crossroad Hillsboro, TN 37342 931-596-2702

Philip & Karen Medley 309 Love Lane Rd. Hillsboro, TN 37342 931-596-3414

Alexander & Amy Neubauer 109 Dogwood Dr. Huntland, TN 37345

Anna Mary Parker 4343 Lebanon Rd., Apt. #421 Hermitage, TN 37076 615-899-0689

J. Howell & Chloe Peebles 310 Old Fort St. Tullahoma, TN 37388 931-455-0214

Normand & Carol Prima P. O. Box 39 Monteagle, TN 37356 931-924-3869

Bill & Coletta Rhoads 10625 David Crockett Hwy Belvidere, TN 37306 931-469-7769

Erma L. Rogers 161 Roscoe Lynn Rd. Hillsboro, TN 37342-9619 931-596-2550 Wayne & Elizabeth Shelton Rt. 1, Box 466 Pelham, TN 37366 931-467-3132

Vida R. Sherwood 1326 Harton Blvd. Tullahoma, TN 37388 931-455-9852

Quincy & Helen Styke 1101 Summer St. Manchester, TN 37355 931-728-3951

Jean Sullivan 611 Adams St. Manchester, TN 37355 931-728-7255

John Thomas & Darlyn Folmar 235 Jennings Cir. Tullahoma, TN 37388 931-455-7890

Robbie Jean Travis 412 N. Atlantic St. Tullahoma, TN 37388 931-455-3567

Richard B. & Susan Wakeman 115 W. Cambridge Ln. Manchester, TN 37355-2881 931-728-5597 wakeman@edge.net

John W. Walton III 2701 N. Bluff Dr. Monteagle, TN 37356-0736 931-924-2886 LonePtEnergy@Blomand.net

Linda Ward 1006 Remington Place Manchester, TN 37355 931-728-5748 Ann Wells 791 Asbury Rd. Manchester, TN 37355 931-596-2832

Stewart & Mary White Rt. 3, Box 3056 Tullahoma, TN 37388 931-455-9702

Marian L. Wilkinson 621 Iris Dr. Manchester, TN 37355 931-728-3473

Lillie Willard 100 N. Washington St. Kingsley Apt. 2-D Tullahoma, TN 37388 931-455-4398

Evelyn Wilson P. O. Box 38 Hillsboro, TN 37342 931-596-2388

Dr. Harry C. & Jean Yeatman P. O. Box 356 Sewanee, TN 37375 615-598-5367

Grady L. York Box 100 Manchester, TN 37355 931-728-3206

JOHN W. SELLARS CHAPTER

Vernon C. & Earline C. Berry 1255 Hwy. 109 N. Lebanon, TN 37090 615-444-7047 VCBerry@compuserve.com

Mary Calhoun 125 Castle Heights Ave. Lebanon, TN 37087 615-449-8792

Cecile Counts 519 W. Spring St. Lebanon, TN 37087 615-444-0016

Frank Crawford 1616 Ponderosa Trail Lebanon, TN 37087 615-444-4990

Jane B. Farris 3695 Old Rome Pike Lebanon, TN 37087 615-444-0708

Betsy Sellars & David Foutch 181 Goshen Rd. Lebanon, TN 37087 615-444-2275

Stephen J. & Regina Garr 1500 Cooks Rd. Mt. Juliet, TN 37122 615-444-1059

Mildred B. Gaston 109 Oak Hill Cir. Lebanon, TN 37087 615-444-4077

Melville & Ruth McMillan 743 Patterson Hill Rd. Lascassas, TN 37085 615-896-1298 Kay C. Norris 1616 Ponderosa Trail Lebanon, TN 37087 615-444-4990 franknk@Bellsouth.net

Ramona See 286 Star Blvd. Madison, TN 37115-6326 615-612-4274

Frances H. Sellars 122 Greenlawn Ave. Lebanon, TN 37087 615-444-3188

Grace Speck 1717 Cherokee Dr. Lebanon, TN 37087 615-444-6790

Harry & Norma Stokes 5502 W. Shady Trail Old Hickory, TN 37138-1320 615-754-8741

Sara S. Thompson 303 Castle Heights Ave. Lebanon, TN 37087 615-443-3121

Roy & Melissa T Turrentine 339 Rippy Ridge Rd. Normandy, TN 37360 931-857-9341 roymel@cafes.net

William D. & Jerry Walker 346 Bellwood Rd. Lebanon, TN 37087 615-449-6355

KNOXVILLE CHAPTER

John T. & June Alley 255 W. Hunt Rd. Alcoa, TN 37701 865-983-6605

Clinton Allison The Pimbroke 508 Union Ave. Knoxville, TN 37902 865-546-4048

Marcus W. Armstrong 3501 Kenilworth Ln. Knoxville, TN 37914 865-525-5084 marmstrong@knoxville-zoo.org

Carolyn P. Baker 106 Amanda Dr. Oak Ridge, TN 37830-7812

Stephen Lyn Bales 1801 Kemper Ln. Knoxville, TN 37920-2919 865-577-6978 lbales@ijams.org

Pat Barnwell 963 Poplar St. #1 Alcoa, TN 37701 865-982-0246

Lelia B. Baylor 105 Mariner Point Dr. Clinton, TN 37716 865-463-9982

Jake Beaulieu 713 S. Commercial St. Neenah, WI 54956-3313 Jake_beaulieu@yahoo.com

Jane Beintema 3311 Mount Vernon Dr. Knoxville, TN 37920-3730 865-573-7744 Frank Bills & Sharon Bostick 7720 Sabre Dr. Knoxville, TN 37919-7174 865-531-8096 sabflb@sprynet.com

Diane Blane 1104 Sharon Rd. Knoxville, TN 37920 865-558-0338 himara1@earthlink.net

Sandra E. Borden 155 Mimosa Cir. Maryville, TN 37801-8264 865-368-1202

Ruth Boys 6507 Westland Dr. Knoxville, TN 37919 865-584-9222 raboys@ntown.com

Palmira Brumett & James Fitzgerald 8708 Kingbridge Dr. Knoxville, TN 37923 865-974-5421

David Buehler 1821 El Prado Dr. Knoxville, TN 37922 865-966-3484

Drs. John M. Burkhart & Laura B. Powers 5629 Tazewell Pike Knoxville, TN 37918-9264 865-688-1582

Patrick & Fae Burkhart 118 Whitehall St. Maryville, TN 37803 865-983-1555

John & Nancy Burns 731 Battlefront Trail Knoxville, TN 37922 Jim & Betty Reid Campbell 25 Riverview Dr. Oak Ridge, TN 37830-7282 865-483-6018 jmcbrcwarbler@comcast.net

Dr. Howard Chitwood 1432 Royal Dr. Jefferson City, TN 37760 865-475-3943

Edward & Meredith Clebsch 5737 Fisher Ln. Greenback, TN 37742 865-856-3350 meredith@native-gardens.com eclebsch@utk.edu

Steve & Gail Clendenen 11017 Farragut Hills Blvd. Knoxville, TN 37922 865-966-8964

E. Calvin ClydeP. O. Box 33Effingham, SC 29541803-669-7836

Dr. Robert H. & Louise Collier, Jr. 326 Granville Conner Rd. Powell, TN 37849 865-938-4050

Don & Kathy Collins Wild Birds Unlimited 7240 Kingston Pike Knoxville, TN 37919

Otey & Ines Cottrell 212 Lynnview Ave. Knoxville, TN 37918 865-687-3026

C. Randall Crowe 1758 Hidden Hills Rd. #112 Gatlinburg, TN 37738-5830 865-436-8268 Ken Cutsinger P. O. Box 1422 LaFollette, TN 37766 423-566-5934

Marcia L. Davis 2349 Craig Cove Rd. Knoxville, TN 37919-9312 865-558-1458 antwren@aol.com

Richard E. Davis 520 Wedgewood Dr. Alcoa, TN 37701 865-977-6566

Norm & Cindy Day 11417 N. Couch Mill Rd. Knoxville, TN 37931-2908 865-927-1417 daynwcj@esper.com

Janet & Jeff Dowlen 3022 Moore Hwy. Tifton, GA 31794-7655

Dean Edwards 1615 Meadow Chase Ln. Knoxville, TN 37931 865-560-9701 kde@angst.engr.utk.edu

Barbara Finney 5213 Whitehorse Rd. Knoxville, TN 37919 865-584-9734 imboden@aol.com

Frank L. & Jaqueline G. Fisher P. O. Box 1201 Morristown, TN 37816 423-586-3144

Patricia Ford 5525 Lonas Dr., Apt. D-11 Knoxville, TN 37909-3248

Grace K. Foster P. O. Box 416 Norris, TN 37828 865-494-0951 Elizabeth French 36 Ridgeview Dr. Chickasaw, AL 36611 205-452-1121

Mary Laura French 325 Cunningham St. Maryville, TN 37803 865-983-4956 75142,2654@compuserve.com

Dr. Richard B. Gammage 202 Scenic Dr. Oak Ridge, TN 37830 865-483-4141

Brice & Beverly Gilmer 957 Bluff View Dr. Knoxville, TN 37919 865-524-1993

Claude & Barbara Gray 9832 Tallahassee Dr. Knoxville, TN 37923

Dave Gurd 220 Orchard Knob Rd. Clinton, TN 37716 865-457-4766 gurd@sns.gov

Jerry Hadder & Marie Oakes 18 Rockingham Ln. Oak Ridge, TN 37830 865-483-9287 sxk@ornl.gov

Lovina B. Halco 208 Tanasi Lagoon Dr. Loudon, TN 37774-3172

Edith Hall 4529 Topside Dr., SW Knoxville, TN 37920 865-577-7677

Susan Hargrove 10622 Alysun Nikole Dr. Knoxville, TN 37922 865-671-9616 Paul D. Hartigan 824 Thomas Cir. Seymour, TN 37865 865-573-0280

Dianna L. Haynes 5308 Cain Rd. Knoxville, TN 37921 865-588-0285

Tony, Dawn & Lee Headrick 1512 Hall Acres Dr. Knoxville, TN 37918 865-687-9956 tonyheadrk@aol.com

Kim & Steve Henry 333 S. Union Grove Rd. Friendsville, TN 37737 865-995-2117

Audrey Hoff 4523 McCloud Rd. Knoxville, TN 37938 865-922-4006 ahoff@icx.net

Ron Hoff & Dollyann Myers 282 Hackworth Ln. Clinton, TN 37716-5141 865-435-4547 dollyron@icx.net

David Howell 1730 Winding Ridge Trail Knoxville, TN 37922 865-675-0951

Susan Hoyle P. O. Box 8421 Knoxville, TN 37996 865-909-0792 hoyle@cs.utk.edu

Elizabeth L. Ihle 1046 Chestnut Dr. Harrisonburg, VA 22801 540-433-2415 Wes & Norma James 102 Naples Ln. Oak Ridge, TN 37830 865-483-5213 wkjames@tva.gov

Pennie Jennings P. O. Box 70883 Knoxville, TN 37938-0883 pjennin1@utk.edu

David Johnson & Jean Alexander 3908 Riverview Dr. Maryville, TN 37804 865-977-0052 ijadmj@infi.net

Andrew Jones 100 Ecology Dept. 1987 Upper Buford Cir. St Paul, MN 55108 612-788-8285 jone0597@tc.umn.edu

Dev & Harriet Joslin 112 Newcrest Ln. Oak Ridge, TN 37830 865-482-7591 jdjoslin@espercom

Alice M. Kaserman 701 Chateaugay Rd. Knoxville, TN 37923-2015 865-539-9712

Joel F. Keebler 225 Third St. NW Hickory, NC 28601-4936 828-267-5710

John Kennerly 1711 Vander Ridge Ln. Knoxville, TN 37919 865-588-5594

Tony Koella P. O. Box 58 Rockford, TN 37853 865-970-2336 Alvin & Sandra Kolak 8743 Hollingsfield Dr. Knoxville, TN 37922 865-470-7380 alsandra@mindspring.com

Stephen Krauss, MD P O. Box 399 Seymour, TN 37865 865-428-5447

Beth Lacy 3129 McClure Ln. SE Knoxville, TN 37920 865-577-4724

Gerald & Debra Lambdin 307 Barbara Ln. Maryville, TN 37803-6305 865-984-0925

Carol E. Lammers 8905 Kingston Pike #12-206 Knoxville, TN 37923-5011 865-690-1446 CELAMMERS@PRODIGY.net

Ilona Leki 2023 Island Home Blvd. Knoxville, TN 37920 865-573-8584

Henri & Bettie Levy 116 Meadow Rd. Oak Ridge, TN 37830 865-483-9567

Patricia Long 5649 Hickory Valley Rd. Heiskell, TN 37754 865-494-9370

James & Bettie Mason 2115 Terrace Ave. SW Knoxville, TN 37916 865-523-2577 George W. & Maryrose McGown 130 Whittier Ln. Hartland Estates Oliver Springs, TN 37840-9648 865-435-2523

Janet McKnight 6710 Morgantown Rd. Greenback, TN 37742 865-856-8332 McKnight@kx.net

Donald M. McLean 6812 Sherwood Dr. Knoxville, TN 37919

William P. & Allison McNutt 11478 N. Couch Mill Rd. Knoxville, TN 37931 865-927-0868 WPMcNutt@aol.com

Daniel & Laurie Mooney 3505 Holston Hills Rd. Knoxville, TN 37914 865-525-5681 dmoon@mindspring.com

Daniel Moss 408C Cook Dr. Clarksville, TN 37042 865-212-3636 dmoss5@earthlink.net

Charlie Muise 9068 Tremont Rd. Townsend, TN 37882 865-448-1736 cmmbirds@yahoo.com

H. Bruce & Betty Newman P. O. Box 1132 Louisville, TN 37777-1132 865-983-4853

Charles P. Nicholson P. O. Box 402 Norris, TN 37828-0402 865-494-8688 cpnicholson@tva.gov Frances Owen 2324 Antietam Rd. Knoxville, TN 37917-3507 865-525-2504 Fran2jb@aol.com

Laurie S. Pearl 5801 Briarcliff Rd. Knoxville, TN 37918 865-281-7638

Alfred M. Perry, Jr. 8809 Cove Point Ln. Knoxville, TN 37922 865-690-0088

Sandy Perry & Herbie Wolford 114 Alger Rd. Oak Ridge, TN 37830

Karen Petrey 2511 Legion Dr. Knoxville, TN 37920 865-573-4896

Richard & Jean Priddy 1223 Sawtooth Ridge Way Walland, TN 37886 865-379-8342

Shawn & Bridget Reece 602 Dover Rd. #A Clarksville, TN 37042-6003 865-379-8549

G. D. Robbins 41 Riverview Dr. Oak Ridge, TN 37830-7283 865-483-4920

Robert & Barbara Roundtree 221 Mayview Dr. Powell, TN 37849 865-947-1234

John Rozek 5904 Grove Park Rd. Knoxville, TN 37918 865-687-4229 Martha E. Rudolph 1634 Clinch Ave., Apt. #3 Knoxville, TN 37916 865-522-3711

Stephen & Rebecca Satterfield 1106 Tazewell Pike Luttrell, TN 37779 865-992-3611

Beth Schilling 11931 Couch Mill Rd. Knoxville, TN 37932 865-691-8267

Mr. & Mrs. A. Boyd Sharp 245 Peters Rd., SW Knoxville, TN 37923 865-693-3579 Sharpbirds@AOL.com

Alvin F. & Marianne Shinn 146 Chuniloti Way Loudon, TN 37774-2603 865-458-1437

Sarah Beth Stanford Simms 2404 Sherrod Rd. Knoxville, TN 37920 865-573-5058

Johneta Smith 3809 Riverview Rd. Knoxville, TN 37914 865-522-0631

Tim & Angela Snow 3559 Fountain Park Blvd. Knoxville, TN 37914 865-523-5032

Dee Snyder 6315 Kingston Pike, Apt. 1002 Knoxville, TN 37919 865-584-9578

Susan S. Snyder 3320 Ocoee Trail Knoxville, TN 37917 865-688-1295 Robert & Diane Steffy 7619 Charlton Rd. Knoxville, TN 37920 865-579-3674 robertsteffy@aol.com

William R. & Mary K. Sullivan 1039 Scenic Dr. Knoxville, TN 37919 865-523-2522

Paul & Anna Catherine Super P. O. Box 131 Townsend, TN 37882-0131 865-448-9714

Ann D. Tallent 920 Williams St. Maryville, TN 37803 865-984-0051

Roger & Christine Tankersley 2924 Jenkins St. Knoxville, TN 37921 865-673-0931 Roger: rdtanker@utk.edu Christine: cytanker@yahoo.com

Robert & Frances Thompson 431 Tigitsi Cir. Loudon, TN 37774

Dr. Samuel R. Tipton, Jr. 821 Melrose Place #313 Knoxville, TN 37916-3426 865-573-6945

David & Alice J. Torbett 5305 Whitehorse Rd. Knoxville, TN 37919 865-584-6092

David & Mia Trently 1029 Morrow Rd. Knoxville, TN 37923-1725 865-531-1473 dtrently@utk.edu Mary Trice 817 N. Cedar Bluff Rd. Knoxville, TN 37923 865-693-1986

Mayo & Mary S. Uziel 102 Newton Ln. Oak Ridge, TN 37830 865-483-1043

David & Karen Verhulst 219 Tanasi Lagoon Dr. Loudon, TN 37774 865-458-4658

Rodney & Phyllis Von Gruenigen 615 Woodland Dr. Clinton, TN 37716-3424 865-457-2325

Richard & Marita Vornehm 7008 Regency Rd. Knoxville, TN 37931 865-938-1883

Donald K. Vowell & Mary Alice Tabor 6909 Quail Dr. Knoxville, TN 37919 865-602-7950 don@vowell-law.com

Craig A. Walker 605 Eastern Dr. Knoxville, TN 37919 865-584-0607

June D. Welch 7127 Four Mile Rd. Maryville, TN 37803

Christopher & Deborah Welsh 5337 Hickory Hollow Rd. Knoxville, TN 37919-9318 865-766-0368 cwelsh@utk.edu Eileen P. Wilson 406 Locust Hill Ln. Knoxville, TN 37920 865-573-4557

Kay Wilson 137 Chahyga Way Loudon, TN 37774

Elizabeth Mei Wong P. O. Box 2092 Albany, NY 12220 eboston@4wmn.com

Pete Wyatt 1219 Sweet Williams Ln. New Market, TN 37820 865-471-0146

D. W. Yambert 1521 Dry Gap Pike Knoxville, TN 37918 865-687-2764

Jerry & Rhea Yares 2924 Big Bend Dr. Maryville, TN 37803-0445 865-981-1795

Alan Zaslow P. O. Box 166 Alcoa, TN 37701-0166 865-681-7924

Mrs. James T. Tanner - LIFE 417 Switzerland Dr. Knoxville, TN 37920 865-577-7614

LEE & LOIS HERNDON CHAPTER

John & Donna Adams 715 Ridgefield Rd. Elizabethton, TN 37643-3941 423-543-2691 jwadams@usit.net

Dr. Fred J. Alsop III 174 Heather Ln. Johnson City, TN 37601 423-929-3733 alsop@worldnet.att.net

Kristy Baker 120 Hurley Hollow Rd. Elizabethton, TN 37643 423-474-2514

Ruth Baker Smith 417 Evergreen St. Church Hill, TN 37642 423-357-5494 mrbaker@mounet.com

Dr. William A. Bridgforth, Jr. 705 E. Holston Ave. Johnson City, TN 37601-4015 423-926-2204 wab705@aol.com

Janet D. Brown 3305 Pine Timbers Dr. Johnson City, TN 37604 423-283-4433 earlandjanetbrown@compuserve.com

Stacey B. Cherwin 624 Glen Oaks Dr. Johnson City, TN 37615 423-477-1180

Joy & Mark Crass 106 Wren Way Johnson City, TN 37601 423-929-1125 joyc.@juno.com Thelma Hughes Cumbie 11494 Hwy. 226 N. Bakersville, NC 28705 828-688-4692 cumbie@cablevision.online.net

Gilbert & Marinel Derouen 905 Carroll Creek Rd. Johnson City, TN 37601 423-283-7767 gedder@attglobal.net

Martha Dillenbeck 137 Woodcrest Ln. Johnson City, TN 37601 423-926-1338

Mark & Marci Dunaway 3100 Blackburn Ave. Kingsport, TN 37660 423-288-9326 mdunaway@chartertn.net

Glen D. Eller 1360 Link Rd. Galax, VA 24333 540-236-9986

John B. Ennis 1132 Grandiflora Dr. Leland, NC 28451-9518 910-371-9729 JBE@Wilmington.net

Dr. David K. Fenner P. O. Box 909 Elizabethton, TN 37643 423-543-8216 fennerd@usit.net

Martha S. Flora 148 Woodland Dr. Johnson City, TN 37601 423-926-8985

Beth Hogan 322 Chimney Rock Dr. #216 Tyler, TX 75703-4186 903-534-1292 bhogan@mail.uttyl.edu Donald A. Holt 914 Smalling Rd. Johnson City, TN 37601

Debbie & Craig Hoyme 508 Mitchell Rd. Kingsport, TN 37663 423-239-7351 jurl56a@prodigy.com

Danny & Angie Huffine 129 Hales Rd. Jonesborough, TN 37659 423-753-6950 ORF@Prodigy.net

Reece Jamerson 3119 W. Walnut St. Johnson City, TN 37604 423-928-4529

Kathryn P. Jones 806 Hillrise Blvd. Johnson City, TN 37601

Ralph & Pat Keffer 800 Pleasant Grove Rd. Limestone, TN 37681-2116 423-257-2662

Rick Knight 804 N. Hills Dr. Johnson City, TN 37604 423-282-5297 rknight@preferred.com

Howard P. Langridge 339 Airport Rd. Elizabethton, TN 37643-6031 423-543-3050

John & Carolyn Martin 641 Ridgefield Rd. Elizabethton, TN 37643 423-543-3752 jcmartin@chartertn.net G. Rad & Kelli B. Mayfield 635 Hatcher Rd. Ellenboro, NC 28040-7733 828-453-9110 rad@blueridge.net

Joe McGuiness 20 Quail Hollow Rd. Erwin, TN 37650 423-743-0065 jmcguiness@ts.fed.us

Charles F. Moore 1315 W. Lynnwood Cir. #1 Johnson City, TN 37604 423-926-6207 moorecf@etsu.edu

Sandra M. Munsey 1220 Seminole Dr. Johnson City, TN 37604 423-232-0342 smmdcbbp@aol.com

Scotty & Mitzi Myers 805 Ridgefield Dr. Johnson City, TN 37601-7511 423-928-3605 sjmyers@FS.Fed.US

Jerry & Sally Nagel 1603 Chickees St. Johnson City, TN 37604 423-928-0853 jerrynagel@prodigy.net

Peter Range 646 Greenwich Dr. Richmond Hill, GA 31324-3803 912-756-7673 range_peter@yahoo.com

Patsy K. Reading 107 Jones Rd. Erwin, TN 37650 423-743-7799

Hazel Rice 1301 Lynnwood Dr. Johnson City, TN 37601 423-926-6381 memomu@aol.com Bryan Stevens 983 Simmerly Creek Rd. Hampton, TN 37658 423-725-2165 tn4u@webtv.net

Allan Trently Poplar Ridge Apt. #88 6319 Kingsport Hwy. Gray, TN 37615 423-477-9556 atrently@hotmail.com

Dr. Gary O. Wallace 188 Sunrise Dr. Elizabethton, TN 37643 423-542-8612 gowallace@milligan.edu

David & Anne Walters 2137 Hickory Springs Rd. Johnson City, TN 37604 423-928-2201 walters2137@aol.com

Frank Ward 605 Holston Ave. Elizabethton, TN 37643 423-543-1976

James & Shirley Wayland 9218 Turtle Point Dr. Killen, AL 35645 205-757-2467 waylands@bellsouth.net

MEMPHIS CHAPTER

Charles W. Alexander 3797 Tutwiler Memphis, TN 38122 901-452-5105

Charles E. Askew 189 Pinehurst Ave. Memphis, TN 38117 901-682-0845

Duane E. Baker 1415 Leafhaven Cove Cordova, TN 38018 901-755-1172

Janet Baker-Carr 5194 Peg Ln. Memphis, TN 38117 901-374-9506

Dianne P. Bean 7060 E. Fox Cir. Prescott Valley, AZ 86314-5436 520-772-6103 diannebean@earthlink.net

Dr. William J. Bean 19 Shirley Rd. Narberth, PA 19072-2015 610-617-3620

Buddy & Ivon Beaver 293 Riley Rd. Hernando, MS 38632 662-429-9364

David & Betty Blaylock 1800 Autumn Memphis, TN 38112 901-725-7640

Audrey & John Bohl & family 476 Griffon Dr. Cordova, TN 38018 901-309-5563

Betsy Boswell 3252 Old Brownsville Rd. Bartlett, TN 38134 901-377-1328 Wayne & Susan Bradley 743 Cairn Creek Dr. Memphis, TN 38108 901-737-8583

Robert Lee Browne 3416 Walnut Grove Rd. Memphis, TN 38111-4621 901-452-1154

Ben & Debbie Bruce 704 S. Mendenhall Memphis, TN 38117 901-681-9837

Carolyn H. Bullock 4746 Cole Rd. Memphis, TN 38117 901-683-3818 carolynbullock@aol.com

Lila Beth Burke 1613 Goodbar Memphis, TN 38104 901-276-8343

Steve Burstein 655 Riverside Dr. #1407 Memphis, TN 38103 901-526-7172

Frederick T. Carney 1914 Overton Park Ave. Memphis, TN 38112 901-726-1394

Edward & Tina Carpenter 9165 Hwy. 104 W. Cedar Grove, TN 38321-7053 901-987-3137

Bob & Sandy Chandler 881 Timber Grove Cove Cordova, TN 38018 901-624-2733

Annie Charbonnet 11590 Pecos St., Apt. C107 Westminster, CO 80234-2821 Mike & Sherry Collins 2920 Bede Memphis, TN 38128 901-388-2729

Charles & Joyce Court 9327 River Bluff Rd. Millington, TN 38053 901-876-6215

Dorothy S. & Charles Cowan 1426 Tree Haven Cove Cordova, TN 38018-6097 901-755-3540

Dr. Clair E. Cox 6011 Sweetbriar Cove Memphis, TN 38120 901-767-2406

Clarice W. Cox 6011 Sweetbriar Cove Memphis, TN 38120 901-767-2406

Gordon & Philomena Cox 831 W. Powell Rd. Collierville, TN 38017 901-853-7042 GCox1000@aol.com

Jane Crane 7155 State Rd. 194 Williston, TN 38076 901-854-6651

Julian & Jeanne Darlington 177 N. Highland St., Apt. 806 Memphis, TN 38111-4755 901-327-1293

Sarah De La Rue 14037 Azalea Park Ave. Baton Rouge, LA 70816-1105 sdelarue@umr.edu

Mary Dillard 3531 Philwood Ave. Memphis, TN 38122 901-454-7029 Mrs. Henry Dinkelspiel 6519 Massey Ln. Memphis, TN 38120 901-767-6433

Judy Dorsey 520 Helene Dr. Hickory Withe, TN 38002 901-465-7651 judydor@aol.com

Frances Dowdy 3630 Sharpe Ave. Memphis, TN 38111 901-744-2559

Kemper & Lillian Durand 805 Harbor Isle Cir. W. Memphis, TN 38103 901-526-1096

Harold R. Elphingstone 2484 Black Fox Trail East Point, GA 30344 404-344-5325

Fred R. & Doris E. Feder 304 Briarbrook Cove Collierville, TN 38017 901-853-7768

Jim & Sue Ferguson 7404 W. Clearwater Rd. Minocqua, WI 54548 JimSueFerg@aol.com

Karen Forbes 3756 Friar Tuck Memphis, TN 38111 901-323-3073

Bob Ford 9028 Lee Hwy. Fairfax, VA 22031 conserve.tcl@nashville.com

Betty Fowler 4564 Willow Rd. Memphis, TN 38117 901-682-1485 Morgan & Betty Fowler 10525 Brunswick Rd. Atoka, TN 38004 901-829-4517

Kate Friedman 350 St. Andrews Fairway Memphis, TN 38111 901-683-1404

Virginia Gates 3583 Norriswood Memphis, TN 38111 901-458-2847

Eric M. Gooch 700 Person Rd. Oakland, TN 38060 901-466-1749

Kate Gooch 2900 Garden Ln. Memphis, TN 38111 901-458-9874

Theresa Graham P. O. Box 366 Oakland, TN 38060 901-465-4263 2graham@bellsouth.net

Jesse Grantham 285 E. Falconer Holly Springs, MS 38635 662-252-4143

Ron & Adam Griffin 4677 Normandy Ave. Memphis, TN 38117-2517 901-681-9964

Joe & Joan Guinn 8382 Davenport Cove Germantown, TN 38138 901-754-5755

Aaron & Jamie Gwin 511 N. Roselawn West Memphis, AR 72301 901-735-2774 Gwin@aol.com Johnny & Dorenda Hanna 2576 Shepherdwood Ln. Germantown, TN 38138 901-754-6331

Barbara Hardin 1633 Shadowmoss Ln. Germantown, TN 38138 901-754-2577 hardinbarb@prodigy.net

Van & Nancy Harris 7790 Deer Lake Dr. Millington, TN 38053-5134 901-876-3337 pyrpyrfect@aol.com

Dot & Jim Harwood 1418 Lefleur Place Memphis, TN 38120-3103 901-763-2187

Jerry & Jo Ann Haughton 2621 Coulter Ln. Memphis, TN 38133 901-372-6070

Martha Heinemann 121 Cortez Rd., Apt. 8 Hot Springs Village, AR 71909

Anne Hooper 5499 Southwood Dr. Memphis, TN 38120 901-682-1629

Bob & Ginger Ilardi 2786 N. Star Dr. Memphis, TN 38134 901-386-5182

Margaret M. Jefferson 349 Hawthorne St. Memphis, TN 38112 901-274-1045

Rusty & Dianna Johnson 726 Island Forty Rd. Memphis, TN 38127 901-358-8332 Sissy Jones 259 E. Cherry Cir. Memphis, TN 38117 901-767-3192

Sara R. Jones 1669 Oak Hill Rd. Germantown, TN 38138 901-757-5269

Charlotte Joshlin 1794 Riverdale Rd. Germantown, TN 38138 901-754-1983

Jon, Kathy, Prudence & Jack Katze 3017 Dumbarton Rd. Memphis, TN 38128 901-353-3533 pru@cstm.net

Jo Kee 511 S. Cox Memphis, TN 38104 901-728-4580

Pat & Glenda Keiran 1690 Alta Vista Dr. Memphis, TN 38127 901-353-4150

Keith & Peggy Kunkel 5369 Pipers Gap Memphis, TN 38134 901-372-2205 k.kunkel@worldnet.att.net

Kay Lait 140 Harbor Isle Cir. S. Memphis, TN 38103 901-527-5555

Richard & Mary Ann Larrimore 3133 St. Regis Cove Memphis, TN 38119-8613 901-754-2774

Carol Larson 9124 Deadfall Rd. Millington, TN 38053 901-829-3132 Kenneth & Betty Leggett P. O. Box 1609 Dyersburg, TN 38025-1609 731-285-0022 Kleggett@ecsis.net

Kim Lett 1492 Eastmoreland Ave. Memphis, TN 38104 901-272-2336

Jo Levy 6125 Green Meadows Memphis, TN 38120 901-685-7595

Bette & Randall Little 8394 Poplar Pike Germantown, TN 38138 901-755-7095

William Little 745 Forest Lake Dr. Memphis, TN 38117 901-761-2931

Mimi Loeb 4716 Mint Dr. Memphis, TN 38117 901-683-6305

Susan Maakestad 5090 Kaye Rd. Memphis, TN 38117-5806 901-388-9507

Frances W. Manley 10317 Long Rd. Arlington, TN 38002 901-867-3943

Ilene Markell 2218 Madison Ave. Memphis, TN 38104-3017 901-725-0800

Knox Martin 1176 Dearing Rd. Memphis, TN 38117 901-685-8827 KnoxMartin2@aol.com Pat Martin 10271 Eagle Creek Cove Collierville, TN 38017 901-854-1750

Patt & Gene Mathes 8946 Meadow Ridge Cove E. Cordova, TN 38018 901-372-4436

Frank McCamey 1111-A N. Jamestown Rd. Decatur, GA 30033-3619

Dr. Charles W. McCrary 1561 Vinton Memphis, TN 38104 901-274-6425

Mac & Susan McWhirter 4962 Gwynne Rd. Memphis, TN 38117-3302 901-682-2355 mcwhirter@rhodes.edu

Dwight Miller 3455 Douglass Ave. Memphis, TN 38111 901-324-5590

Nancy Moore Rt. 1, Box 2300 Tiptonville, TN 38079 731-253-9064 jaybird@bluebasin.com

Nelle Moore 3535 Kirby Rd. K-223 Memphis, TN 38115 901-360-1364 nellem@bellsouth.net

Mary B. Neely 4743 Mint Dr. Memphis, TN 38117 901-685-3134

Paul & Jason Nolte 5404 Forest Hill Irene Rd. Memphis, TN 38125 901-757-4929 Dr. Gerald Papachristou 2858 Shelley Cove Memphis, TN 38115 901-365-6527

George R. Payne, Jr. 5851 Ardwick Dr. #4 Memphis, TN 38119-5715 901-680-9685

Jeanne Payne 5851 Ardwick Dr. #4 Memphis, TN 38119-5715 901-680-9685

Holmes & Carla Peacher-Ryan 1607 North Pkwy. Memphis, TN 38112-4936 901-725-9533

Scott & Katherine Peatross 3350 Highland Park Place Memphis, TN 38111 901-323-3048

Bill & Pat Peeples 8205 Meadow Glen Dr. Germantown, TN 38138-6158 901-755-8671 wpeeples@midsouth.rr.com

W. Robert Peeples 8205 Meadow Glen Dr. Germantown, TN 38138-6158 901-755-8671 wpeeples@midsouth.rr.com

Deedee Perel 6393 Wynfrey Place Memphis, TN 38120 901-747-3080

Ted & Gaynell Perry 3635 Clairice Cove Bartlett, TN 38133-0980 901-373-7411 gcperry@midsouth.rr.com

Robert A. Pinkston 928 Little Dog Cove Hernando, MS 38632 662-429-2412 John & Nancy Pond 5600 Brite Dr. Bethesda, MD 20817 301-654-2296

Dick D. Preston 261 Sassafras Cir. Munford, TN 38058 901-837-3360

Donald Preston

426 Beaver Rd. Munford, TN 38058-6156 901-837-4526 donaldpreston@worldnetatt.net

Forrest & Barbara Priddy 2444 Carrollwood Ln. Cordova, TN 38018 901-384-0197 Booker62@aol.com

Elaine Radin 91 W. Galloway Dr. Memphis, TN 38111-6839 901-452-5454

Ernest & Mary Ellen Restivo 486 Monteigne Blvd. Memphis, TN 38103 901-522-8920

Virginia & Tom Reynolds 4241 Waymar Dr. Memphis, TN 38117 901-767-3547 treynolds@midsouth.rr.com

Tom Richey 2892 Clearbrook Memphis, TN 38118 901-794-4225

Charles & Sue Rollins 6051 Chester St. Arlington, TN 38002-9306 901-867-4964 crollin1@midsouth.rr.com Dr. Anna E. Ross Christian Brothers University 650 East Parkway South Memphis, TN 38104 901-382-6208

Andy Ryan 541 Ellsworth St. Memphis, TN 38111 901-323-4520

Vicki & Steve Sanders 635 Clara Dr. Eads, TN 38028 901-867-0220

Stephen J. Schoech & Sarah E. Kistler 418 Greenfield Rd. Memphis, TN 38117 901-763-1435

Charles W. & Wendy Seahorn 340 Seward Rd. Eads, TN 38028 901-867-3568

H. Clay & Harriett Shelton 4809 Kingsgate Place S. Memphis, TN 38117 901-767-6444

Dr. Ernest & Doris Sigman 1267 Briarwood Dr. Memphis, TN 38111 901-743-4223

Karen Silverstein & Kat Bagley 2052 Nelson Ave. Memphis, TN 38104 901-276-2830

Joseph S. & Vivian Sims 1311 Hayne Rd. Memphis, TN 38119 901-682-2023

Dave & Judy Smith 1411 Poplar Estates Pkwy. Germantown, TN 38138 901-754-2928 Dr. Herbert W. & Elizabeth Smith 6562 Bramble Cove Memphis, TN 38119 901-754-6003

Mary Ann & John W. Spence 1565 Vinton Memphis, TN 38104 901-276-8013

Dick Spore P. O. Box 280745 Memphis, TN 38168-0745 901-357-3256

Agnes Stark 3598 Cowden Ave. Memphis, TN 38111 901-458-2354

Richard G. Taylor 35 Dana Dr. #16 Galveston, TX 77554-7737 409-737-9653

Michael Terry 7901 Old Poplar Pike Germantown, TN 38138 901-755-0443

Jay Tomlinson 99 N. Main #1211 Memphis, TN 38103 901-527-4951

Troy M. & Brenda S. Vincent 5117 Dee Rd. Memphis, TN 38117 901-682-8136

Becky & Phil Waldon 454 N. McNeil Memphis, TN 38112 901-276-5784

Martha Waldron 1626 Yorkshire Dr. Memphis, TN 38119 901-761-0895 Waldronm@ten-nash.ten.k12.tr.us Ken Webster 1807 King Rd. Friendship, TN 38034 901-677-2919

Betty Wetter 74 Pinehurst Memphis, TN 38117 901-682-2073

Richard L. Whittington 338 Williamsburg Ln. Memphis, TN 38117 901-683-3564 richwhit@rwassociates.com

Troy C. Williams 350 Wallace Rd. Memphis, TN 38117 901-761-1743

Barbara Wilson 4718 Gwynne Rd. Memphis, TN 38117 901-683-3921

Ted & Julie Wilson 2084 Kirby Rd. Memphis, TN 38119 901-754-1243

Jamie Wright 263 Bremington Place Memphis, TN 38111 901-324-7821

John & Linda Vidosh Zempel 6682 Stonetrace Dr. Bartlett, TN 38135 901-386-1695 jalvzemp@midsouth.rr.com

MURFREESBORO CHAPTER

Bertha Chrietzberg 1715 Elrod St. Murfreesboro, TN 37130 615-896-1146

Dr. & Mrs. Robert Hornsby 1723 Dover St. Murfreesboro, TN 37130 615-893-4930

Wilma & Richard Hunter 3659 Wilson Overall Rd. Murfreesboro, TN 37127 615-893-9509

Larry & Maryedith McFarlin 2265 Racquet Club Dr. Murfreesboro, TN 37130 615-896-1344 Imcfarli@mony.com

Dr. Robert & Pat Sanders P. O. Box 1275 Murfreesboro, TN 37133 615-896-0255

Ferrell & Jean Wilson 1055 Warrior Dr. Murfreesboro, TN 37128 615-895-0924

Dr. Terry J. & Carol Witt 1419 Hawthorne Place Murfreesboro, TN 37130 615-890-0942 beamerwitt@aol.com

NASHVILLE CHAPTER

Candace Adelson 4402 Colorado Ave. Nashville, TN 37209 615-279-0836

Jan & David Alexander 3317 Love Cir. Nashville, TN 37212 615-298-2993 davejan@home.com

Linda Anderson 626 Debbie Dr. Hermitage, TN 37076 615-874-0435

Mildred Ansley 5052 Lakeview Dr. Nashville, TN 37220 615-373-0142

Jack & Sue Ansley 3308 Lealand Ln. Nashville, TN 37204 615-298-1035

Shan Bacon 1100 Gen. George Patton Rd. Nashville, TN 37221 615-662-7603

David Beasley 1006 Alwood Ct. Kington Springs, TN 37082 dabeasley@mindspring.com

Dorothy Beck 408 Chesterfield Nashville, TN 37212 615-297-7448

Larry Bischof & Claudia Frigeri 2108 18th Ave. South Nashville, TN 37212 615-292-9219 Larry.Bischof@Vanderbilt.edu Kevin Bowden 3408 Amanda Ave. Nashville, TN 37215 615-297-5232

ethden@mindspring.com

Mary K. Breeden 609 Blue Ridge Dr. Columbia, TN 38401 931-490-4865 mary5120@bellsouth.net

Jack & Linda Brown 205 Rolling Mill Rd. Old Hickory, TN 37138 615-847-4695

Robert D. Brown 123 Blackburn Ave. Nashville, TN 37205 615-352-7474

Thomas Edward Byrne 224 Brattlesboro Place Nashville, TN 37204-4249 615-460-7663 ebyrne@stephensongroup.com

Shirley Cameron Arden Place #260 4400 Belmont Park Terrace Nashville, TN 37215 615-269-5262

Thais Carr P. O. Box 175 Thompson's Station, TN 37179 615-790-0419 carrtk@earthlink.net

Eileen Cartwright 8565 Sawyer Brown Rd. Nashville, TN 37221-2404 615-673-1122 eljcnt@webtv.net

Gary Casey 1113 Copperstill Cir. Kingston Springs, TN 37082 615-952-9530 gcasey2@bellsouth.net Hazel K. Cassel 491 Hogan Rd. Nashville, TN 37220 615-832-1653 hagiecas@aol.com

Phillip Casteel 2722 Bobby Ave. Nashville, TN 37216 615-226-6503 tigerwrblr@aol.com

Dr. Ralph J. & Jean E. Cazort 2509 Walker Ln. Nashville, TN 37207 615-227-7226

Happy Chambers 33 Wildwood Dr. Murray, KY 42071 502-753-9636 HapC1@aol.com

Hazel Clayton 222 Hearthstone Manor Ln. Brentwood, TN 37027-4371 615-221-4904

hec11467@worldnet.att.net

Richard H. Connors 7244 Carothers Rd. Nolensville, TN 37135 615-941-1477

C. Kinian Cosner, Jr.3818 West End Ave. #302Nashville, TN 37205-2467615-298-2707

Dorothy Cozart 520 Fairfax Ave. Nashville, TN 37212 615-297-1547

Annella Creech 8 McKendree Cir. Hermitage, TN 37076 615-885-6877

Camille Crenshaw 7760 Poplar Ridge Dr. Nashville, TN 37221 615-673-1078 Marian J. Delaplane 5432 Incline Dr. Nashville, TN 37211 615-332-5432 ByrdBrainBBW@aol.com

Jay S. Desgrosellier 2111 Erin Ln. Nashville, TN 37221 615-353-0954

jay.desgrosellier@mcmail.vanderbilt.edu

Marian R. Dorsey 408 Chesterfield Nashville, TN 37212 615-297-7448

Carrie & David Dortch 1122 Oman Dr. Brentwood, TN 37027-4119 615-309-4956 ddortch@home.com

Larry & Julia Douglass 6048 Robin Hill Rd. Nashville, TN 37205 615-354-0997 cytoforage@home.com

Mrs. Milbrey Dugger 8 McKendree Cir. Hermitage, TN 37076 615-885-6877

Ruth & Hickman Duncan 5406 Hill Road Cir. Nashville, TN 37220 615-833-6694

Sandra Duncan 628 Timber Ln. Nashville, TN 37215 615-297-0467 sandra duncan@metro.nashville.org

Troy Ettel 521 Edmonson Cir. Nashville, TN 37211 615-832-8630 Troy.Ettel@state.tn.us Frank & Bonnie Fekel 8612 Sawyer Brown Rd. Nashville, TN 37221 615-646-8019 fekel@evans.tsuniv.edu

Carrie Ferguson P. O. Box 60 Kingston Springs, TN 37082 615-952-9062 ferginnash@yahoo.com

Bill & Lucy Finch 6024 Sherwood Dr. Nashville, TN 37215 615-373-3378

Dr. Susan Ford & Ivan Cordrey 1451 Hillsdale Dr. Cookeville, TN 38506-4209 931-528-3553 fordcordrey@charter.net

J. P. Foster 5817 Fredericksburg Dr. Nashville, TN 37215-4806 615-665-0322

John Froeschauer 258 Thuss Ave. Nashville, TN 37211 615-333-7986 jdfroesch@Yahoo.com

Ninez Giles 4012 Colorado Ave. Nashville, TN 37209 615-297-2281 ninez@juno.com

Ed & Janey Gleaves 1004 Norfleet Dr. Nashville, TN 37220-1410 615-373-4309 egleaves@aol.com

Virginia & Henry Goodpasture 1710 Belcourt Ave. #14 Nashville, TN 37212-3717 615-297-0703 Martha E. Green 200 E. Webster St. #915-B Madison, TN 37115-4806 615-868-3912

Sarah Greene 3627 Saratoga Dr. Nashville, TN 37205-2539 615-383-3894

Mark S. Hackney 2321 Carter Ave. Nashville, TN 37206 615-228-1455

Bette Halverstadt 500 Elmington Ave. # 503 Nashville, TN 37205 615-383-2245

Barbara Harris 1312 Cardinal Ave. Nashville, TN 37216 615-227-4372 harrbarbara@aol.com

Robert M. Hatcher 614 Copperfield Ct. Brentwood, TN 37027 615-833-1154 bhatcher@infi.net

Tom & Juanita Hawkins 4403 Long Hollow Pike #25 Goodlettsville, TN 37072-8810 615-859-6104

Katrina Hayes 132 Breeden Rd. Portland, TN 37148 931-363-5438

Nita & Annie Heilman 429 Rivermont Dr. Clarksville, TN 37043 931-645-9338

Earl O. Henry, Jr. 4487 Post Place #145 Nashville, TN 37205-1607 615-352-1181 Jim & Sharon Hiett 4601 Dustin Ln. Nashville, TN 37220 615-269-6824 GOBIRD@GATEWAY.net

Cornelia Hollister 316 Battle Ave. Franklin, TN 37064 615-794-1123

Susan Hollyday 211 Wauford Dr. Nashville, TN 37211 615-834-0006 shrdnbrd@mindspring.com

Pamilla Hopkins 378 Normandy Cir. Nashville, TN 37209 615-383-6485

Louise Jackson 500 Elmington Ave. #208 Nashville, TN 37205-2508 615-383-7646

Donald Jenkins 2271 Rockbridge Rd. Portland, TN 37148 615-888-2134

Pam & Moe Johnson 313 Cliffside Dr. Shelbyville, TN 37160-4621 931-684-6744

Dawn Gilbert Kaatrude 1516 Otter Creek Rd. Nashville, TN 37215 615-665-0066

Bill & Sandy Keene 107 Cool Springs Ct. Hendersonville, TN 37075 615-826-8974 STK107@aol.com

Gwynn Kellam 3605 Sycamore Ln. Nashville, TN 37215-1937 615-383-8550 Linda V. Kelly 927 Percy Warner Blvd. Nashville, TN 37205 615-352-0638 likebird@bellsouth.net

Peggy & James Kelly 629 Harpeth Trace Dr. Nashville, TN 37221 615-353-0523

Cass Kennedy 9045 Hwy. 100 Nashville, TN 37221-4412 615-662-7569

Laura Knox 738 Harpeth Trace Dr. Nashville, TN 37221 615-352-6343

George & Marge Koehler 113 Bellebrook Cir. Nashville, TN 37205-4442 615-297-4090

Hazel & Lee Kramer 321 Shepherd Hills Dr. Madison, TN 37115 615-859-1905

Michael & Anne Lambert 524 Bel Air Dr. Nashville, TN 37217 615-366-9582 mlambert@bellsouth.net

Pam & Steve Lasley 5886 Willshire Dr. Nashville, TN 37215 615-665-9959 pam-steve@mindspring.com

Gail & Horace Lavely 5928 Sedberry Rd. Nashville, TN 37205 615-352-0049 htredlav@gateway.net

Steve Lawrence 811 Appomattox Place Franklin, TN 37064 615-591-4987 stemar@mindspring.com Eula & Thurston Lee 1665 Valley Rd. Clarksville, TN 37043 931-552-7672 w4ngk@aol.com

Lynn Lesher 4500 Post Rd. #C-31 Nashville, TN 37205-1500 615-463-2626 pllhbl@home.com

Karen Levesque 865 Bellevue Rd., Apt. #2 Nashville, TN 37221 615-673-2398 karenlev@bellsouth.net

Jim Lorenzini 1202 Perkins Ln. Franklin, TN 37069 615-595-5884 JimLorZ@juno.com

James K. Luce, MD 6317 Kalee Dr. Amarillo, TX 79109 806-353-2525 CAMJKL@aol.com

Charles & Adine Lyon 4002 Wallace Ln. Nashville, TN 37215 615-292-7363

Portia R. MacMillan 3201 Overlook Dr. Nashville, TN 37212 615-292-1656 gmaportia@aol.com

C. Smoot Major 6022 Deal Ave. Nashville, TN 37209 615-353-4597 smoot_major@yahoo.com

William R. Manier III 4400 Belmont Park Terrace #136 Nashville, TN 37215 615-383-8761 Margaret Louise Mann 2189 Riverview Dr. Nashville, TN 37214 615-883-6212

Susan Marden 530 Harding Place, Apt. C42 Nashville, TN 37211-4521 615-315-9128 Susan.Marden@state.tn.us

Gerald & Pat Martin 335 Edd Joyce Rd. Bell Buckle, TN 37020 931-437-2269

Jane Marzoni 4141 Woodlawn Dr., Apr 59 Nashville, TN 37205 615-463-2215 janemz@bellsouth.net

Dr. Jonathan E. May & Yolanda Ricci 2823 Hillside Dr. Nashville, TN 37212 615-297-5650

Patricia McFadden 107 Morton Mill Cir. Nashville, TN 37221 615-646-5955

Janeth & Charles McKendrick, Jr. 1400 Kittrell Rd. Franklin, TN 37064 615-591-9352 janethmck@aol.com

Helen & Joe McLaughlin 5515 Wakefield Dr. Brentwood, TN 37027-4405 615-331-4547 mclaugfj@ctrvax.vanderbilt.edu

Diana McLusky 408 Winchester Dr. Franklin, TN 37069 615-646-4324 Gail A. Miller 4001 Sneed Rd. Nashville, TN 37215 615-385-2845 BirdNDog@NC5.Infi.net

Gloria & William Milliken, Jr. 861 Vaughn Rd. Clarksville, TN 37043 931-358-2998

Gayle Mitchell 103 E. Hills Terrace Dickson, TN 37055 615-446-8291 Gayle1017@home.com

Jamie & Jake Moore 4431 Soper Ave. Nashville, TN 37204 615-383-1674 jmooreteal@aol.com

Michael Moryc 217 Silo Ct. Nashville, TN 37221-3544 615-662-1413 mmatrix@bellsouth.net

James B. Nance, Jr. 497 Elysian Fields Rd., H-9 Nashville, TN 37211 615-834-8551

Grace & Richard Newton 200 Sanders Ferry Rd. #1209 Hendersonville, TN 37075 615-824-5578 GNewton838@aol.com

Anne H. Nixon 500 Elmington Ave., Apt. 505 Nashville, TN 37205-2525 615-385-2494

Sara Nolan 2017 Sweetbriar Ave. Nashville, TN 37212 615-297-1220

Elizabeth O'Connor 201 Cambridge Place Flanklin, TN 37067 615-791-1296 Mike O'Malley 505 Pond Apple Rd. Clarksville, TN 37043 931-647-3729 mandjomalley@aol.com

Diana K. Page 6708 Autumnwood Dr. Nashville, TN 37221 615-646-4948

Vivian C. Parks 404 Minerva Dr. Murfreesboro, TN 37130 615-893-3829

Dr. Manomahan, Rekha & Sabuj Pattanayek 2516 Blair Boulevard Nashville, TN 37212-4808 615-292-8916 mohanpattanayek@yahoo.com

Martha L. Patterson 1540 McClure Creek Rd. Canton, NC 28716

Virginia Price 115 Woodmont Blvd. #215 Nashville, TN 37205 615-292-5664

Mack Prichard 1828 River Dr. Nashville, TN 37218-3225 615-244-6484

Larry D. Raye 4225 Harding Rd. #306 Nashville, TN 37205 615-298-1249

George & Nan Rentschler, Jr. 8060 Poplarwood Rd. Nashville, TN 37221-4684 615-646-6352

1023 Maxwell Ave. Nashville, TN 37206 615-226-9843 rich@library.vanderbilt.edu

Robert Rich

Patricia Ann Ritter 2827 Hillside Dr. Nashville, TN 37212-4101 615-297-7950

Michael Roedel Huntingdon College Massey Hall 1500 E. Fairview Ave. Montgomery, AL 36106-2148 334-263-7174 mroedel@zebra.net

Polly Rooker 108 Pepper Ridge Cir. Antioch, TN 37013 615-834-5728 prooker@hotcom.net

Sarah Scott 812 Brookhollow Rd. Nashville, TN 37205 615-352-6063

Jeanece Seals 1216 Fifth Ave. N. Nashville, TN 37208 615-244-1366 jseals@mail.state.tn.us

Jennifer Serrano 272 Garry Dr. Nashville, TN 37211 615-832-0976 kulpiano@bellsouth.net

Jan Shaw 5019 Timberhill Dr. Nashville, TN 37211 615-331-2231 JanKShaw@aol.com

Chris & Shannon Sloan 512 Old Hickory Blvd. #1203 Nashville, TN 37209 615-353-0811 chris.sloan@home.com

John Spence 4712 Clendenin Rd. Nashville, TN 37220-1004 615-377-3592 Harvey & Catherine Sperling 117 Savoy Cir. Nashville, TN 37205 615-297-0083 usnusm@bellsouth.net

Pat Stallings 406 N.17th St. Nashville, TN 37206 615-227-4145

Barbara Stokes 4657 Tara Dr. Nashville, TN 37215 615-665-2069

Joe Stone 1012 Lakeview Dr. Ashland City, TN 37015-5326 615-792-1021 atonex2@mindspring.com

Steve Stroud 1700 18th Ave. S. #13 Nashville, TN 37212 615-297-4803

Julia Tanner 3300 Trimble Rd. Nashville, TN 37215 615-292-9481

Doris M. Thompson P. O. Box 90944 Nashville, TN 37209-0944 615-356-6842 dthomp2669@aol.com

Robert & Frances Thomson 2705 Abbott Martin Rd. Nashville, TN 37215 615-385-7826

Charles B. & Jo Ann Thorne 2314 Golf Club Ln. Nashville, TN 37215 615-297-5175

John & JoAnn Tomasso 4001 Plantation Dr. Hermitage, TN 37076 615-883-0127 IWATCHLOONS@aol.com Lisa A. Trail 2637 Gnat Hill Rd. Manchester, TN 37355 931-728-6045

Nancy C. Trevor 504 Belair Way Nashville, TN 37215 615-665-9706

Bob & Shannon Van Kirk 111 Springwood Dr. Oxford, OH 45056-2711

John W. Walton III 2701 N. Bluff Dr. Monteagle, TN 37356-0736 931-924-2886 LonePtEnergy@Blomand.net

Margaret L. Warden 1806 E. Belmont Cir. Nashville, TN 37212 615-292-0993

Ruth R. Warner 4415 Harding Place Nashville, TN 37205 615-665-1374 rwarner936@aol.com

Violet Jane Watkins 2845 Kenway Rd. Nashville, TN 37215 615-269-5421

Linn Ann Welch 4428 Hannah Ford Rd. Pegram, TN 37143-2015 615-646-6833 Radnor@edge.net

John Noel & Melinda Welton 5241 Old Harding Rd. Franklin, TN 37064 615-799-8095 weltonmj@earthlink.net

Carol R. Williams 5314 Otter Creek Ct. Brentwood, TN 37027 615-370-3502 rwill5314@aol.com Carol D. Williams 3909 Cookeville Hwy. Smithville, TN 37166 615-597-5253 cdenson@multipro.com

Herbert & Doris Williams 33 Jean Dr. Carthage, TN 37030-2225 615-735-3481

Jeff R. Wilson 6298 Memphis-Arlington Rd. Bartlett, TN 38135 901-388-6482 OLCOOT1@aol.com

Dr. Terry J. & Carol Witt 1419 Hawthorne Place Murfreesboro, TN 37130 615-890-0942 beamerwitt@aol.com

Betty Worden 586 Valleywood Dr. Nashville, TN 37211 615-832-3668

Virginia A. Workman 2209 Abbott Martin Rd. #2-4 Nashville, TN 37215 615-383-9629

Lillian & Leonard Wurzel 8116 Shady Place Brentwood, TN 37027 615-370-3004

Pamela Zelaya 370 Village Green Dr. Nashville, TN 37217 615-366-2468 pamzel@hotmail.com

Mary A. Zimmerman 2806 Huntleigh Dr. Nashville, TN 37206 615-227-7575 tnwarbler@mindspring.com

TENNESSEE-AT-LARGE

Anonymous 7334 Manderley Way Knoxville, TN 37909

Randolph Y. Brown 4731 Gribble Rd. Maryville, TN 37803 865-856-4821 randy@foothillsland.org

Betty Goff Cartwright 948 W. Riverwalk Dr. Memphis, TN 38120 901-747-4708

Brian Carver Ellington Biology Bldg. University of Memphis Memphis, TN 38152

Rep. & Mrs. James H. Cooper 2319 Woodmont Blvd. Nashville, TN 37215-1419

Michael O. Dinsmore 2779 Palmyra Rd. Palmyra, TN 37142 615-326-5418 dinsmorem@ten-nash.ten.k12.tn.us

Mr. & Mrs. John W. Eiklor 577 Liberty Church Rd. Gray, TN 37615-2221 423-477-7421 eiklord@k12tn.net

Marion Finucane 178 E. Ravine Rd. Kingsport, TN 37660-3825

Charles B. Hasbrouck 661 Rock Springs Rd. Kingsport, TN 37664-5264 David Hassler 1455 Hassler Rd. Byrdstown, TN 38549-9552 615-864-3236

Robbie C. Hassler 1455 Hassler Rd. Byrdstown, TN 38549-4659

O. Ray Jordan Dept. of Biology Box 5063 TTU Cookeville, TN 38505

Arthur McDade 922 Kimberly Ln. Sevierville, TN 37862

Joyce North 505 Hickory Dr. Buchanon, TN 38222 901-232-8526

Dr. & Mrs. T David Pitts UT-Martin Dept. of Biol. Sci. 232 Brehm Hall Martin, TN 38238-5014 901-587-7170 dpitts@utm.edu

Heather Riggins 7408 Dunaway Dr. Nashville, TN 37221 615-646-4382

Barbara Stedman 2675 Lakeland Dr. Cookeville, TN 38506 615-528-3820

Bettie W. Sumara 1011 Church St. Tiptonville, TN 38079 Michael Todd 178 Diamond Dr. McKenzie, TN 38201 mikectodd@cs.com

Winston A. Walden 755 W. Oak Dr. Cookeville, TN 38501 931-526-8770 wwalden@tntech.edu

Donna Ward 220 Georgia Ave. McKenzie, TN 38201 731-352-2391

Louise Ward 38 Georgia Ave. McKenzie, TN 38201 731-352-2391

Jason D. Williams 33 Pinal Trace Cherokee Village, AR 72529-3410

Stanley Wayne York, Jr. 1236 Cumberland Heights Rd. Clarksville, TN 37040 931-647-6697

Howard & Anne Young 1909 E. Sevier Ave. Kingsport, TN 37664

CORRESPONDING MEMBERS

C. Dwight Cooley 2700 Refuge HQ Rd. Decatur, AL 35603 sabrewing@earthlink.net

Dr. D. R. Cutten 107 McDermott's Way Madison, AL 35758 256-895-9773

John & Thelma Dalmas 1230 Viewmont Dr. Evington, VA 24550 804-821-1136

Mary Hollifield 190 Glade Rd. Rossville, GA 30741-8413 706-861-2530

Keith Kimmerle 128 N. Chestnut Columbus, MS 39705

Bill Sugg 1100 W. Fourth St. Winston-Salem, NC 27101 336-722-1809 BSugg@aol.com

Mr. & Mrs. James H. Graves - LIFE P. O. Box 1214 Middletown Springs, VT 05757-1214 Dr. Jerome A. Jackson - LIFE Whitaker Center, College of Arts & Sciences Florida Gulf Coast University 10501 FGCU Blvd. S. Ft. Myers, FL 33965-6565 picus@fgcu.edu

John T. McBride, Jr. - LIFE 3525 N. Market St. Shreveport, LA 71107

E. W. Mudge, Jr. - LIFE c/o Mudge Royalty P. O. Box 551149 Dallas, TX 75355-1149

Dr. & Mrs. Richard H. Peake - LIFE Box 3987 Galveston, TX 77552 409-744-4301

Dr. Olin Sewall Pettingill - LIFE Vermont Institute of Nat. Science Woodstock, VT 05091

Chandler S. Robbins - LIFE 7900 Brooklyn Bridge Rd. Laurel, MD 20707

Dr. Charles R. Smith - LIFE Dept. of Nat. Resources Fernow Hall - Cornell Univ. Ithaca, NY 14853-3001

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