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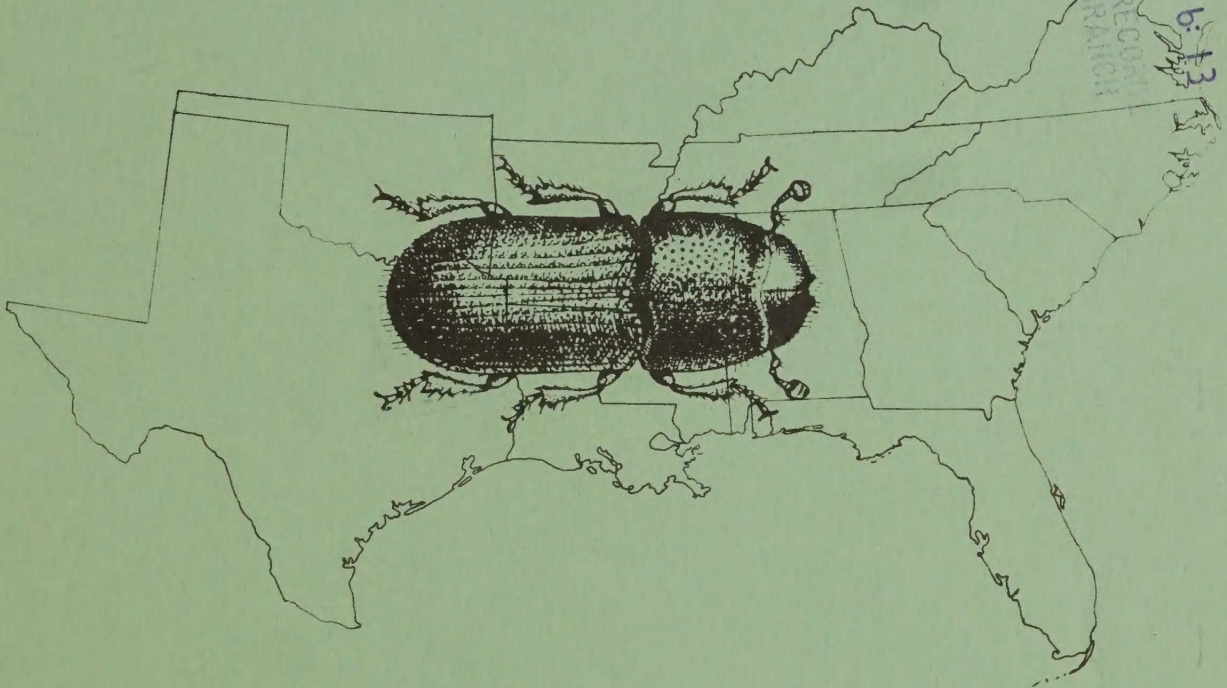
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# SOUTHEASTERN AREA

## SOUTHERN PINE BEETLE OUTBREAK STATUS

July 1975

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SOUTHEASTERN AREA  
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SOUTHERN PINE BEETLE  
FY 1975 Status Summary

Ownership	Infested Volume Salvaged		Federal Funds Expended	Acreage Treated <sup>1/</sup> <sup>2/</sup>
	MBF	MCF	\$	acres
State & Private	241,783	60,537	868,488	100,900
Federal	31,739	3,859	446,693	8,100
SA Total	273,522	64,396	1,315,181	109,000

<sup>1/</sup> Estimated combined total acreage of salvaged infested, piled and burned, and chemically treated trees.

<sup>2/</sup> Salvage treatment acreage calculated from salvage volumes at 800 cubic feet per acre; pile and burn and chemical treatment acreages are not available for all State and Private lands.

Outlook for FY 1976

Ownership	Total Acreage of Susceptible Host Type in SA <sup>3/</sup>	Net Acreage of Host Type in Outbreak	Federal Funds Requested as of July 30, 1975 for Control Projects
State & Private	89,442,800	44,065,619	\$ 967,445
Federal	9,578,100	2,669,785	\$ 692,313
SA Total	99,020,900	46,735,404	\$1,659,758

<sup>3/</sup> Includes longleaf, slash, sand, and spruce pine acreages not previously included for some States.

States with Cooperative Suppression Projects - 9:

Alabama	Louisiana	South Carolina
Arkansas	Mississippi	Texas
Georgia	North Carolina	Virginia

Federal Administrative Units with Suppression Projects - 13:

National Forests in Alabama  
Chattahoochee - Oconee National Forests, Georgia  
Kisatchie National Forest, Louisiana  
National Forests in Mississippi  
National Forests in North Carolina  
Francis Marion - Sumter National Forests, South Carolina  
Cherokee National Forest, Tennessee  
National Forests in Texas  
George Washington National Forest, Virginia  
Jefferson National Forest, Virginia  
U.S. Marine Corps, Cherry Point, North Carolina  
U.S. Corps of Engineers, Lake Allatoona, Georgia  
Research & Technical Support Division, Oak Ridge, Tennessee

Summary

Outbreak intensity, expressed as infested counties, remained relatively static this year with a total of 360 counties now included within the outbreak boundary. Most States reported mixed activity with improved conditions in some areas and moderate or increasing beetle populations in other areas.

The best news comes from Alabama, Georgia, South Carolina, and Mississippi where substantial reductions in beetle activity have been reported. Conversely, beetle activity appears to be increasing most in Texas and Tennessee. Florida and Kentucky have reported beetle infestations for the first time during this current outbreak.



## APPENDIX



Appendix Table 1. Area of Susceptible Host Types in the Southeast by Ownership Class.<sup>1/</sup>  
(thousand acres)

State	Ownership	Loblolly	Shortleaf	Pitch	Slash	Longleaf	Oak - Pine	Pond	Longleaf Slash	Shortleaf Loblolly	Virginia	Other Pines <sup>2/</sup>	Total
Alabama	Private	--	--	--	--	--	4,614.5	--	1,854.4	7,132.3	--	--	13,601.2
	Public	--	--	--	--	--	220.4	--	144.3	305.5	--	--	670.2
	Total	--	--	--	--	--	4,834.9	--	1,998.7	7,437.8	--	--	14,271.4
Arkansas	Private	--	--	--	--	--	2,466.6	--	--	2,982.5	--	--	5,449.1
	Public	--	--	--	--	--	573.0	--	--	685.5	--	--	1,258.5
	Total	--	--	--	--	--	3,039.6	--	--	3,668.0	--	--	6,707.6
Florida	Private	339.9	34.5	--	4,896.1	1,132.0	1,365.0	261.8	--	--	--	235	8,264.3
	Public	4.5	--	--	528.8	399.6	303.3	81.8	--	--	--	277.7	1,595.7
	Total	344.4	34.5	--	5,424.9	1,531.6	1,668.3	343.6	--	--	--	512.7	9,860.0
Georgia	Private	4,818.4	1,637.9	--	3,934.4	1,500.8	3,350.7	285.0	--	--	265.0	3.7	15,795.9
	Public	256.3	97.4	--	165.5	109.2	289.2	19.5	--	--	35.4	14.4	986.9
	Total	5,074.7	1,735.3	--	4,099.9	1,610.0	3,639.9	304.5	--	--	300.4	18.1	16,782.8
Kentucky	Private	--	--	--	--	--	443.5	--	--	--	--	326.2	769.7
	Public	--	--	--	--	--	113.9	--	--	--	--	41.5	155.4
	Total	--	--	--	--	--	557.4	--	--	--	--	367.7	925.1
Louisiana	Private	--	--	--	--	--	2,034.4	--	1,068.6	4,161.4	--	--	7,264.4
	Public	--	--	--	--	--	135.0	--	151.5	277.9	--	--	564.4
	Total	--	--	--	--	--	2,169.4	--	1,220.1	4,439.3	--	--	7,828.8
Mississippi	Private	--	--	--	--	--	2,969.8	--	1,051.6	3,718.8	--	--	7,740.2
	Public	--	--	--	--	--	402.2	--	283.8	523.8	--	--	1,209.8
	Total	--	--	--	--	--	3,372.0	--	1,335.4	4,242.6	--	--	8,950.0
North Carolina	Private	3,009.6	1,037.1	32.9	--	359.6	3,326.4	1,181.0	--	--	780.2	117.6	9,876.9
	Public	111.7	42.6	13.0	--	102.5	230.2	227.6	--	--	8.9	41.5	778.0
	Total	3,121.3	1,079.7	45.9	--	462.1	3,556.6	1,408.6	--	--	789.1	159.1	10,654.9
Oklahoma	Private	--	--	--	--	--	568.2	--	--	675.6	--	--	1,243.8
	Public	--	--	--	--	--	96.1	--	--	119.7	--	--	215.8
	Total	--	--	--	--	--	664.3	--	--	795.3	--	--	1,459.6
South Carolina	Private	2,588.9	772.9	4.6	501.6	388.4	1,970.8	344.7	--	--	151.7	8.7	6,732.3
	Public	327.6	101.2	--	72.6	118.9	154.0	40.7	--	--	10.9	--	825.9
	Total	2,916.5	874.1	4.6	574.2	507.3	2,124.8	385.4	--	--	162.6	8.7	7,558.2
Tennessee	Private	--	--	--	--	--	998.7	--	--	847.8	--	17	1,863.5
	Public	--	--	--	--	--	199.3	--	--	151.0	--	21.9	372.2
	Total	--	--	--	--	--	1,198.0	--	--	998.8	--	38.9	2,235.7
Texas	Private	--	--	--	--	--	2,241.9	--	347.9	4,315.0	--	--	6,564.8
	Public	--	--	--	--	--	64.2	--	10.6	593.7	--	--	668.5
	Total	--	--	--	--	--	2,306.1	--	358.5	4,908.7	--	--	7,233.3
Virginia	Private	1,077.6	323.8	32.4	--	--	2,326.8	2.6	--	--	1,174.4	72.7	5,010.3
	Public	38.3	15.2	31.2	--	--	219.5	--	--	--	71.3	21.4	387.5
	Total	1,115.9	339.0	63.6	--	--	2,537.3	--	--	--	1,245.7	94.1	5,397.8
Total	Private	11,834.4	3,806.2	69.9	9,364.6	3,380.8	28,677.3	2,075.1	4,322.5	23,833.4	2,371.3	780.9	90,516.4
	Public	738.4	256.4	44.2	766.9	730.2	2,991.3	369.6	590.2	2,657.1	126.5	418.4	9,689.2
All													
Ownership		12,572.8	4,062.6	114.1	10,131.5	4,111.0	31,668.6	2,444.7	4,912.7	26,490.5	2,497.8	1,198.3	100,205.6

<sup>1/</sup> Data extracted from U.S. Forest Service Resource Bulletins published by the Southern and Southeastern Forest Experiment Stations.

<sup>2/</sup> Includes sand, spruce, table mountain, and white pines.

Table 2.

## SITUATION AND ACCOMPLISHMENT 1972 - 1974

State	Ownership	FY 1972			FY 1973			FY 1974								
		Gross Outbreak Area	Federal Funds Expended \$	Infested Volume Salvaged MBF	MCF	Gross Outbreak Area	Federal Funds Expended \$	Infested Volume Salvaged MBF	MCF	Gross Outbreak Area 1/	Federal Funds Expended \$	Infested Volume Salvaged MBF	MCF			
Alabama	Private	---	---	---	---	---	---	---	15,000,000	500,000	66,722	20,377	15,000,000	475,000	28,843	12,670
	Federal	203,000	13,293	804	---	---	---	---	500,000	180,064	6,194	502	1,270,240	74,658	1,815	185
	Total	203,000	13,293	804	---	---	---	---	15,500,000	680,064	72,916	20,839	16,270,240	549,638	30,658	12,855
Arkansas	Private	---	---	---	---	---	---	645,000	22,952	879	188	1,336,000	21,285	341	160	
	Total	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Georgia	Private	2,000,000	988	290	---	---	---	9,200,000	38,000	3,920	2,717	9,018,130	96,000	31,282	13,099	
	Federal	296,690	10,960	4,767	---	---	---	700,000	51,396	6,431	628	1,336,132	50,124	3,937	315	
	Total	2,296,690	11,948	5,057	---	---	---	9,900,000	89,396	10,351	3,345	10,354,262	146,124	35,219	13,414	
Louisiana	Private	4,000,000	26,000	16,000	450	---	---	7,500,000	285,000	17,826	2,668	6,800,000	100,000	1,292	158	
	Federal	561,000	60,630	6,550	---	---	---	600,000	59,894	2,742	411	1,017,287	32,000	820	33	
	Total	4,561,000	86,630	22,550	450	---	---	8,100,000	344,894	20,568	3,079	7,817,287	132,000	2,112	191	
Mississippi	Private	---	---	---	---	---	---	1,600,000	44,960	240	518	1,652,600	56,210	830	451	
	Federal	188,615	17,168	3,000	---	---	---	200,000	50,034	2,513	10	373,497	36,618	3,351	0	
	Total	188,615	17,168	3,000	---	---	---	1,800,000	94,994	2,753	528	2,026,097	92,828	4,181	451	
North Carolina	Private	4,327,717	9,579	21,025	---	---	---	6,700,000	62,841	20,143	2,351	13,500,000	110,471	41,833	6,431	
	Federal	631,220	21,110	900	---	---	---	600,000	41,448	2,012	110	2,752,430	33,000	2,459	705	
	Total	4,958,937	30,689	21,925	---	---	---	7,300,000	104,289	22,155	2,461	16,252,430	143,471	44,292	7,136	
South Carolina	Private	514,000	---	---	113	---	---	3,600,000	---	544	558	3,900,000	47,500	5,101	10,725	
	Federal	481,479	22,070	2,767	---	---	---	1,300,000	55,183	2,902	814	1,474,444	35,250	3,120	377	
	Total	995,479	22,070	2,767	113	---	---	4,900,000	55,183	3,446	1,372	5,249,444	82,750	8,221	11,102	
Tennessee	Private	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Federal	50,000	15,700	579	---	---	---	80,000	22,350	341	69	338,136	27,068	620	121	
	Total	50,000	15,700	579	---	---	---	80,000	22,350	341	69	338,136	27,068	620	121	
Texas	Private	6,200,000	45,000	2,000	---	---	---	8,000,000	165,000	28,000	811	8,000,000	185,000	4,941	381	
	Federal	80,000	4,800	300	---	---	---	700,000	56,924	4,847	185	1,716,967	140,835	17,004	643	
	Total	6,280,000	49,800	2,300	---	---	---	8,700,000	221,924	32,847	996	9,716,967	325,835	21,945	1,024	
Virginia	Private	---	---	---	---	---	---	4,600,000	---	6,000	2,700	6,889,600	9,500	11,326	4,090	
	Federal	---	---	---	---	---	---	71,485	9,460	180	497	3,689	15,910	2,500	729	
	Total	---	---	---	---	---	---	4,671,485	9,460	6,180	3,197	6,963,289	25,410	13,826	4,819	
SA TOTALS	Private	17,041,717	\$ 81,567	39,315	563	---	---	56,845,000	\$1,118,753	144,274	32,848	67,686,314	\$1,100,966	126,990	48,175	
	Federal	2,492,004	\$165,731	19,667	---	---	---	4,751,485	\$ 526,753	28,162	3,226	10,352,822	\$ 445,463	35,626	3,108	
	Total	19,533,721	\$247,298	58,982	563	---	---	61,596,485	\$1,645,506	172,436	36,074	78,039,136	\$1,546,429	162,616	51,283	

Table 3. Southern Pine Beetle Status as of June 30, 1975

State	Ownership	Projected Need for Federal Funds		Infested Volume Saved FY 1975	Total Acreage of Host Type 1/	Net Acreage of Host Type in Current Outbreak 1/	Current Status and Course of Outbreak
		FY 1976	Actually Expended FY 1975				
Alabama	Private	\$ 300,000	\$ 350,000	13,270	13,601,200	4,922,400	Activity has decreased substantially in the southern part of the State and is holding steady in the north. The State has experienced a 600% reduction in the number of spots and a 200% reduction in the number of trees over this time last year
	Federal	79,967	39,624	587	670,200	406,700	
	Total	379,967	389,624	13,857	14,271,400	5,329,100	
Arkansas	Private	50,000	25,190	935	5,449,100	1,311,700	Southern pine beetle activity has been low, but is beginning to increase slightly. Activity has been reported in isolated areas in four new counties.
	Federal	---	11,172	---	1,258,500	---	
	Total	50,000	36,362	935	6,707,600	1,311,700	
Florida	Private	---	---	---	8,265,100	119,900	The infestations on Eglin Air Force Base are spreading both north and south of the original outbreak area. The outbreak has increased from seven or eight spots in December 1974, to approximately 58 spots in June 1975, with spots ranging in size from 0 to 500 trees.
	Federal	---	---	794	1,595,700	39,900	
	Total	---	---	794	9,860,800	159,800	
Georgia	Private	159,000	57,500	3,015	15,795,900	8,650,945	Spring surveys continue to show increasing population levels in the mountain districts while levels in the Central Piedmont have continued to decline. Coastal Plain populations have been greatly reduced but are very erratic.
	Federal	71,320	37,000	7,182	986,900	415,170	
	Total	230,320	94,500	10,197	16,782,800	9,066,115	
Kentucky	Private	---	---	---	665,400	40,000	Infestations were first observed in March 1975 in Bell County. Additional infestations were found in Whitley, Knox, and Harlan Counties. Status and course of the outbreak are not yet known.
	Federal	---	---	---	260,000	---	
	Total	---	---	---	925,400	40,000	
Louisiana	Private	30,000	---	1,147	7,264,400	5,300,300	Most activity is occurring in Allen and Evangeline parishes.
	Federal	46,440	37,801	3,447	564,400	322,400	
	Total	76,440	37,801	4,594	7,828,800	5,622,700	
Mississippi	Private	43,250	32,373	371	7,740,200	2,134,500	Activity had decreased during the spring but is beginning to increase again. Populations have been declining in the southwestern part of the State and continuing to increase in the northeast.
	Federal	56,490	44,264	3,925	1,209,800	241,242	
	Total	99,740	76,637	4,296	8,950,000	2,375,742	
North Carolina	Private	155,695	143,425	79,743	9,876,900	8,947,227	The situation is static or improved in most of North Carolina except for the northcentral and eastern Piedmont areas where early increases in numbers of beetle spots were evident.
	Federal	108,110	43,937	1,595	778,000	159,818	
	Total	263,805	187,362	81,338	10,654,900	9,106,045	
South Carolina	Private	20,000	40,000	17,794	7,006,000	3,330,946	Spots have decreased significantly in both size and number throughout most of the outbreak area. Populations are declining in most counties and, if these conditions continue, a general subsidence of the outbreak is anticipated by late fall.
	Federal	57,080	27,700	2,433	826,000	292,554	
	Total	77,080	67,700	20,227	7,832,000	3,623,500	
Tennessee	Private	---	---	1,533	1,863,500	1,392,000	Populations remain at high levels in mid-eastern Tennessee. Infestations are on the increase in both north and southeastern Tennessee. New county records have been established following the detection of the southern pine beetle in three southcentral counties and one county on the Cumberland Plateau.
	Federal	83,913	10,200	2,056	372,200	135,244	
	Total	83,913	10,200	3,589	2,235,700	1,527,244	
Texas	Private	200,000	200,000	83,412	6,904,800	5,788,463	Activity has increased substantially in southeastern Texas with about one third of the beetle activity in that area. Activity is also beginning to pick up in the southwestern range of the beetle. In the remainder of the outbreak area, activity is moderate.
	Federal	149,943	173,295	10,491	668,500	556,537	
	Total	349,943	373,295	93,903	7,573,300	6,345,000	
Virginia	Private	9,500	20,000	40,563	5,010,300	2,127,238	Populations remain at relatively high levels for this time of year. A substantial number of spots have died out this spring but the potential for further activity later in the year remains.
	Federal	39,050	21,700	23	387,900	101,220	
	Total	48,550	41,700	40,586	5,398,200	2,228,458	
SA Totals	Private	\$ 967,445	\$ 868,488	241,783	89,442,800	44,065,615	
	Federal	\$ 692,313	\$ 446,693	31,739	5,579,100	2,669,785	
	Total	\$ 1,659,758	\$ 1,315,181	273,522	95,021,900	46,735,404	

1/ Figures include longleaf, slash, sand, and spruce pine acreages not previously included. Addition reflects the significant increase of beetle infestations of these pine species previously thought to be of minor importance as hosts.

Table 4. Southern Pine Beetle Outbreak Intensity, July 1973 - July 1975.

State	Total Number of Counties in State	Number of Counties w/Susceptible Host Type in State <sup>1/</sup>	Number of Infested Counties in Current Outbreak				
			Jul 73	Jan 74	Jul 74	Jan 75	Jul 75 <sup>4</sup>
Alabama	67	67	53	53	50	49	29
Arkansas	75	47	4	2	4	4	8
Florida	67	67	0	0	0	1	1
Georgia	159	158	58	56	70	79	86
Kentucky	120	120	0	0	0	0	4
Louisiana	64	38	31	31	21	22	22
Mississippi	82	69	17	18	14	14	14
North Carolina	100	100	60	71	81	89	89
South Carolina	46	46	22	22	26	28	28
Tennessee	95	55	10	13	13	15	30
Texas	254	44 <sup>2/</sup>	22	22	26	26	26
Virginia	98	87	26	27	42	49	23 <sup>3/</sup>
SA Total	1,227	898	303	315	347	376	360

<sup>1/</sup> Susceptible host types include loblolly, shortleaf, pitch, pond, Virginia, table mountain, longleaf, slash, sand, spruce, and white pines.

<sup>2/</sup> East Texas counties only.

<sup>3/</sup> Adjusted to better reflect SPB concentrations.

<sup>4/</sup> See figure 2.

FIGURE 1 CHRONOLOGICAL DEVELOPMENT OF THE SOUTHERN PINE BEETLE OUTBREAK 1971 - 1974







# SOUTHEASTERN AREA

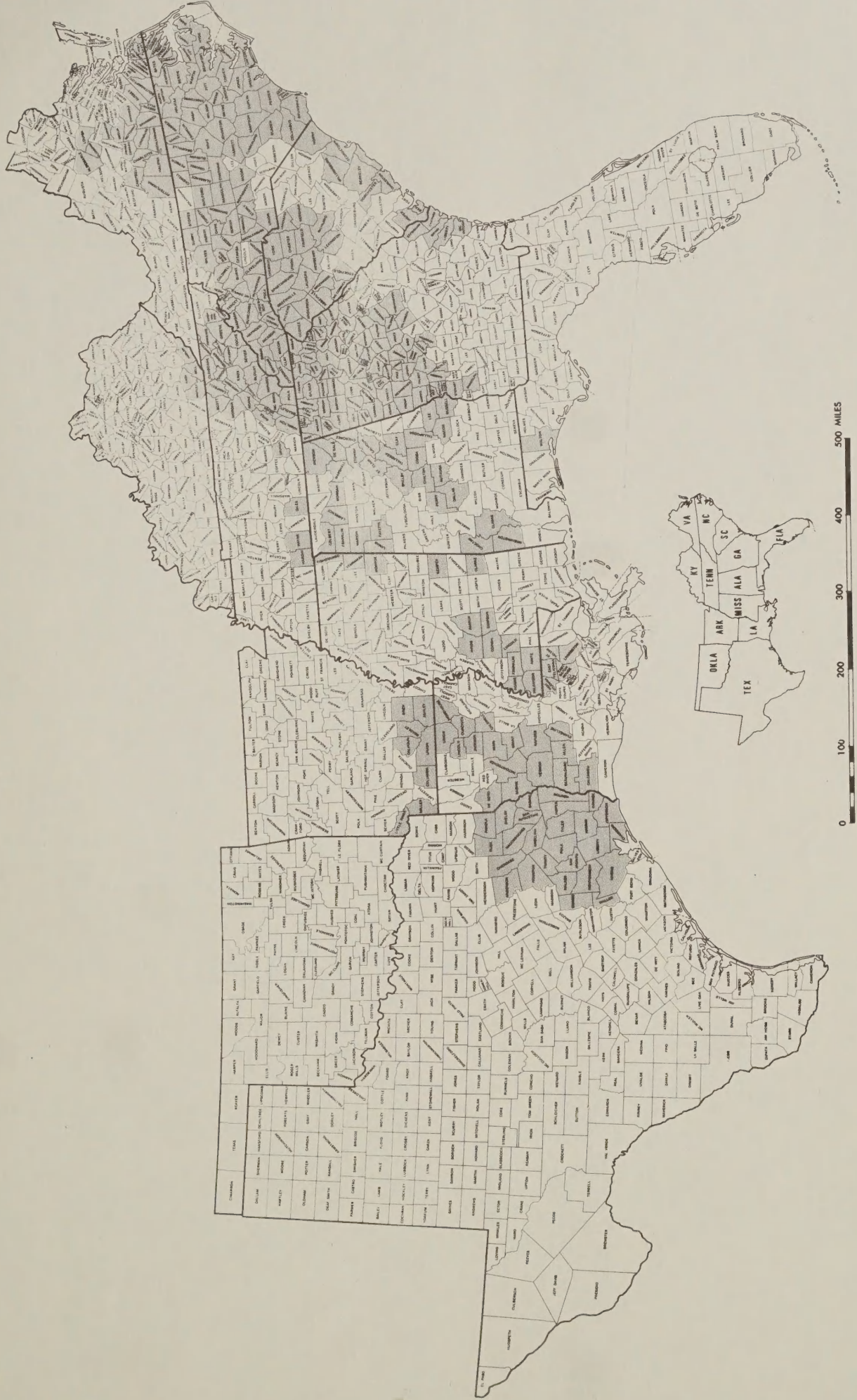


FIGURE 2 LOCATION OF SOUTHERN PINE BEETLE OUTBREAK AS OF JUNE 30, 1975





