

Supervision  
Reports  
Annual Planting 1956

**1956**  
(July 1, 1955 — June 30, 1956)  
**REPORT OF**  
**FOREST AND WINDBARRIER PLANTING**  
**UNDERTAKEN**  
**IN THE UNITED STATES**

THE SITUATION IN GENERAL  
STATISTICS BY STATES AND AGENCIES DOING PLANTING  
QUANTITIES OF STOCK PRODUCED



Compiled from information furnished by the State Foresters and other appropriate public officials of each state and federal agency concerned.

U. S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

FOREST AND WINDBARRIER PLANTINGS IN THE UNITED STATES  
DURING FISCAL YEAR 1956

(July 1, 1955 - June 30, 1956)

Acres planted--fiscal 1956 and before

Tree planting during the fiscal year 1956 (July 1, 1955 to June 30, 1956) as reported by various public agencies, principally the State Foresters, was as follows:

	Acres
Forest plantings	887, 653
Windbarrier plantings	27,775
Total	915,428

This is anew record--higher by nearly 103,000 acres than the previous record set in 1955.

Figures for several of the past years are as follows:

Year	Acres
1956	915,428
1955	812,588
1954	811,066
1953	715,548
1952	522,935
1951	456,368
1950	497,507
1940	519,051
1930	138,970

Because of the increased supply of planting stock available, it is forecast that more than 1 million acres will be planted in 1957\*

Planting types and ownerships

The Federal government planted 83,641 acres of forest and 2,319 acres of windbarriers in 1956 on lands administered by its various agencies\* This is approximately 5,500 acres or 7 percent more than in 1955.

The States and other non-Federal public agencies planted 62,268 acres of forest and 195 acres of windbarriers. This is approximately 11,000 acres or 21 percent more than in 1955.

Private landowners planted 741,744 acres of forest and 25,261 acres of windbarriers, a total of 767,005 acres. This is about 86,000 acres or 13 percent more than in 1955 but the increase did not occur in all States, i. e.,

in 25 States private planting increased by 121,000 acres;  
in 12 States private planting was approximately the same; and  
in 13 States private planting decreased by 35,000 acres.

### Forest planting

Eighty-four percent of the planting is being done on privately owned lands. Data for States in which private owners planted more than 20,000 acres are;

	Acres		Acres
Georgia	117,888	Michigan	37,130
Mississippi	81,844	North Carolina	30,764
Florida	77,847	South Carolina	30,561
Louisiana	58,236	Tennessee	27,901
Pennsylvania	50,847	New York	23,857
Alabama	49,519	Wisconsin	21,191

Reforestation by industrial organizations of their own lands amounted to 41 percent of the private land planting. In 1956 forest industries planted 256,938 acres, 17,910 acres more than in 1955; and other industries planted 46,139 acres, 6,510 acres less than in 1955. Data for States in which industry was especially active in reforesting its lands during 1956 are:

	Acres		Acres
Georgia	55,971	North Carolina	20,388
Florida	38,068	South Carolina	14,714
Louisiana	36,308	Tennessee	11,447
Alabama	24,391	Virginia	9,922
Pennsylvania	21,730	Oregon	9,884
Mississippi	20,681	Washington	9,380

In many States the planting of industry-owned land would increase greatly if planting stock were more abundant. The number of forest-industry-owned nurseries has been increased each year in an effort to obtain more stock. Several additional ones will come into production in 1957.

## Windbarrier planting

Windbarrier planting was reported from 34 States and amounted to 27,775 acres, classed as follows:

	Acres
Federal land	2,319
Other public land	195
Private land	25,261
 Total	 27,775

This is 3,974 acres less than was reported in 1955.

The need for windbarriers exists mostly on private lands and most of this type of planting is done there. Data for the States in which farmers and ranchers are most active in this form of tree planting are:

	Acres		Acres
South Dakota	7,326	Colorado	819
North Dakota	7,140	Kansas	800
Nebraska	4,413	Washington	733
Indiana	831		

Total for private land in the above 7 States      22,062 acres (80 percent)

All other windbarrier planting                              5,713 acres (20 percent)

Only South Dakota and Puerto Rico reported an increase in windbarrier planting. The overall decrease of 3,974 acres was due to drought in the Midwest, and to stock shortages in a few States.

It is estimated that nearly 3 million acres of new windbarrier plantings are needed, in addition to replantings in old, failing barriers. A sizable increase probably will occur during the next few years because of the following recent developments: (1) the Agricultural Conservation Program Service increase in the rate of cost sharing for tree planting in many States, (2) creation of a State forestry organization in two States, and strengthening of it in a third, (3) operation of the Conservation Reserve portion of the Soil Bank program, (4) activity under the Great Plains program authorized by Public Law 1021, and (5) increases in the supply of stock as a result of newly increased nursery capacities.

Nurseries—number, operators, and use of production

Forest tree nursery activities for 1956 are summarized as follows:

<u>Agency or owner</u>	<u>Active nurseries</u>	<u>Output of trees</u>	
Federal			
Forest Service	12	119,517,000	
Tennessee Valley Authority	1	22,333,000	
	13		141,850,000
State			
State foresters or equivalent	90	580,884,000	
			580,884,000
Other public			
Soil Conservation Districts	6	8,343,000	
County and municipal	5	661,000	
	11		9,004,000
Industry			
Paper companies	13	63,570,000	
Lumber and land companies	7	13,737,000	
	20		77,307,000
Commercial			
Private companies	53	76,923,000	
	53		76,923,000
Total 1956	187		885,968,000
( Total 1955)	(167)		(742,273,000)

( For additional details, see table 6 of this report.)

The only Federal nurseries operated in 1956 were 12 by the Forest Service and 1 by the Tennessee Valley Authority. Together they produced 141,850,000 trees, in comparison with 110,330,000 in 1955. Forest Service nursery trees went into a variety of programs--to National forests, lands of the Atomic Energy Commission, flood-control projects, and in a few States to private lands through the cooperative tree distribution programs (C-M4) of various States. Nursery stock from the TVA went to private lands through the established programs of that Agency.

The 1956 production of State nurseries was 580,884,000 plants in contrast to

the 1955 production of 519,462,000. The principal producers among the States were:

Georgia	112,833,000
Florida	54,720,000
Louisiana	42,654,000
North Carolina	35,031,000
Alabama	33,929,000
South Carolina	33,024,000
Mississippi	30,657,000
New York	29,153,000
Tennessee	22,891,000
Wisconsin	22,129,000

Ten States produced 72 percent of the stock; 31 States, Puerto Rico and Hawaii produced 28 percent, and 7 States did not operate nurseries but procured their stock from commercial growers, other States, or from Federal nurseries under special cooperative agreements.

Most of the state nursery production went to privately owned lands, largely through the C-M4 program. Texas and Minnesota each opened a new nursery, The Kentucky Department of Fish and Wildlife Resources and the Connecticut State Park and Forestry Commission are each closing a nursery and building a new one. Two nurseries formerly classed as State in Michigan are now carried as county nurseries. Thus the number of State nurseries remains unchanged at 90. Florida, Washington, and Kentucky each seeded new nurseries from which the first output will be in 1957.

Most of the production from forest industry nurseries goes to Company lands, although some is distributed through a variety of Company programs to private landowners, often free or nearly free, for planting on their own lands. Five new forest industry nurseries began producing trees in 1956--2 in Washington, 1 in Florida, 1 in Louisiana, and 1 in Texas. Additional industry nurseries that will make their first shipments in 1957 are shown on the 1956 list of Forest Tree Nurseries in Minnesota, Michigan, and Florida. Not shown, but expected to produce their first stock in 1957, are nurseries of 2 land companies in Texas, and a land company and a paper company in Georgia. The production of the 20 forest industry nurseries was 77,307,000 trees in 1956 in contrast to 15 that produced 46,516,000 in 1955. The expected 27 nurseries might produce 110,000,000 or 120,000,000 trees in 1957.

The stock from the Soil Conservation District nurseries all goes to District cooperators. The 6 previously reported nurseries all continued in operation and produced 95 percent of their 1955 output.

The 53 commercial growers reported an output of 76,923,000 plants. The output of the 40 listed in 1955 was 57,000,000 plants. Between 3,000,000 and 4,000,000 of these were bought by the States for the C-M4 program. A great proportion of the remainder, possibly as much as 60 percent, is going into Christmas tree plantations.

#### Availability of stock

The State nurseries' production of 580 million plants in 1956 was far short of demand. Eleven States reported that their known unfilled orders amounted to 106 million trees, and 11 other States reported shortages but did not estimate the amount. There has been a shortage of stock since the close of World War II, despite a 900 percent increase in output in 12 years. Only 3 States reported production greater than needed for their own program, and they sold nearly all of this excess to adjacent States. With the interest in tree planting that existed during 1956, it is likely that State nursery production of at least 710 million plants would have been utilized. An even greater quantity will be needed for 1957 for these programs. New construction and additional sowings at existing nurseries are reported as under way to supply this increased demand.

In addition to the trees needed under the tree planting programs of 1956, there is now the new program of planting trees on some of the lands withdrawn from agricultural crop production. This planting will be done under the Conservation Reserve portion of the Soil Bank Program. It is anticipated that this program will require about 5 billion trees and shrubs. The peak annual output of trees for this program alone probably will be 1,000,000,000. Nursery development, including a few new nurseries, to produce Soil Bank stock is now under way in 34 States, and most of it will be completed before the fall of 1957. This is in addition to the development mentioned previously.

There will also be additional planting of commercial forest lands under Title IV of the Agricultural Act of 1956. The demand for stock for this program cannot yet be forecast.

The States' policies of giving priority to filling small orders have resulted in the large companies being unable to reforest their holdings at the rates they desire with trees from the State nurseries. Forest industry's demand is short of supply and more industry nurseries are being built each year. In 1949 there were 9 such nurseries, with a combined output of 8,400,000 trees. In 1956 there were 20 with an output of 77,307,000 trees, but this was inadequate to meet demand. At the present time 7 more industry-owned nurseries are under construction.

The commercial growers also reported a substantial increase in output. Fifty-three reported their production for 1956. Thirty-two of these are in Pennsylvania, Michigan, and Minnesota, and the balance are distributed over 12 other States. No commercial production was reported from 33 States.

### Seed

The great expansion of nursery output now under way is, of course, requiring record quantities of seed and seed-collection facilities of private seed dealers and the States have been expanding rapidly. Although desirable seed is far from being abundant and cheap, the situation in general is not on such a hand-to-mouth basis as it was a few years ago. The nurseries have next year's seed in sight. Most of the States, and especially those with larger programs, have well-organized seed-procurement programs. Public agencies and private dealers have made considerable investments in equipment and seed stockpiles.

Programs to improve the genetic quality of seed are being vigorously pushed in several States by Federal, State, educational, and industrial agencies. Committees representing various agencies have been formed during the past few years in each principal forest region to coordinate this work and facilitate the exchange of current knowledge among the workers. Work is under way to develop trees with rapid growth, superior form, resistance to drought or to disease, or increased yield of specialized products such as maple syrup or naval stores. The variety and scope of all of the work in progress is too extensive to be outlined here; mention of it is made merely to point out that a great deal of splendid work is now under way.

### The job done and to be done

The size of the job to be done, and our rate of progress towards restoring the final ultimate acre are impossible to measure definitely. Not all of the acres planted develop into satisfactory stands. Neither does the area in need of planting remain constant, because logging, fire, epidemics, natural seeding, and changing land values all add to or subtract from the plantable areas. Thus, a year-to-year balance with "debits," "credits," and "amounts forwarded," all neatly arranged as in a bookkeeper's ledger, is not possible with planting statistics. The best that can be done in this regard is to make periodic appraisals of the situation. An appraisal made in 1953 as a part of the study of the nation's timber resource shows the tree planting job to be done in continental United States at the beginning of fiscal year 1953 in the following tabulation:



	Commercial forest land	Non-commercial forest land	Windbarrier	Total
	<u>Thousands of acres</u>			
New England States	1,228	18	0	1,246
Middle Atlantic States	3,725	2	0	3,727
Lake States	7,651	636	200	8,487
Central States	7,869	402	124	8,395
Plains States	975	448	2,337	3,760
<b>Total, North</b>	<b>21,448</b>	<b>1,506</b>	<b>2,661</b>	<b>25,615</b>
S. Atlantic States	4,081	0	0	4,081
Southeastern States	14,214	0	0	14,214
West Gulf States	3,652	0	0	3,652
<b>Total, South</b>	<b>21,947</b>	<b>0</b>	<b>0</b>	<b>21,947</b>
Pacific Northwest States	2,468	354	10	2,832
California	4,104	3,107	0	7,211
N. Rocky Mountain States	1,169	105	190	1,464
S. Rocky Mountain States	812	375	83	1,270
<b>Total, West</b>	<b>8,553</b>	<b>3,941</b>	<b>283</b>	<b>12,777</b>
<b>Total, Continental U.S.</b>	<b>51,948</b>	<b>5,447</b>	<b>2,944</b>	<b>60, 339*</b>

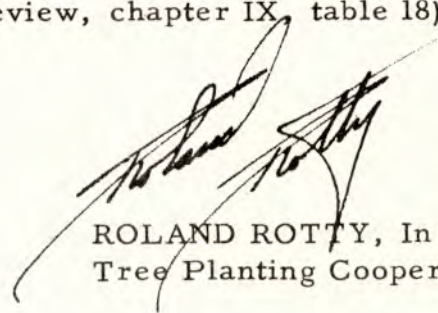
(From Timber Resource Review, chapter IX, table 19)

\* Does not include significant amounts of farmland that should be diverted from surplus crops.

An appraisal of the acceptable plantations in continental United States at the beginning of the fiscal year 1953 is given in the following:

	Commercial forest land	Non-Commercial forest land	Windbarrier land	Total
	<u>Thousands of acres</u>			
New England States	159.5	0	0	159.5
Middle Atlantic States	779.9	43.0	0	822.9
Lake States	1,391.3	9.8	22.5	1,423.6
Central States	282.6	22.1	37.0	341.7
Plains States	55.8	12.9	482.4	551.1
<b>Total, North</b>	<b>2,669.1</b>	<b>87.8</b>	<b>541.9</b>	<b>3,298.8</b>
S. Atlantic States	300.4	0	0	300.4
Southeastern States	1,181.5	0	0	1,181.5
West Gulf States	494.8	0	0	494.8
<b>Total, South</b>	<b>1,976.7</b>	<b>0</b>	<b>0</b>	<b>1,976.7</b>
Pacific Northwest States	376.4	0	.7	377.1
California	26.0	5.0	5.0	36.0
N. Rocky Mountain States	114.7	negligible	28.0	142.7
S. Rocky Mountain States	47.2	2.6	13.8	63.6
<b>Total, West</b>	<b>564.3</b>	<b>7.6</b>	<b>47.5</b>	<b>619.4</b>
<b>Total, Continental U.S.</b>	<b>5,210.1</b>	<b>95.4</b>	<b>589.4</b>	<b>5,894.9</b>

(From Timber Resource Review, chapter IX, table 18)



ROLAND ROTTY, In Charge  
Tree Planting Cooperation



Table 2  
**FOREST PLANTING UNDERTAKEN ON NON-FEDERAL PUBLIC LAND**  
 (EXCLUSIVE OF WINDBARRIER PLANTING)

July 1, 1955 - June 30, 1956

Areas in acres

State	State Agencies						Other Public Agencies			Total - Table 2			State
	State Forest Land			Other State Lands			Town, Boroughs, Counties and Public Schools			Current Year	Previous Years	Total	
	Current Year	Previous Years	Total	Current Year	Previous Years	Total	Current Year	Previous Years	Total				
Alabama	80	915	995	54	2,669	2,723	87	611	698	221	4,195	4,416	Alabama
Arizona	-	-	-	-	-	-	-	-	-	-	-	-	Arizona
Arkansas	-	-	-	-	114	114	-	529	529	-	643	643	Arkansas
California	54	191	245	527	115	642	30	98	128	611	404	1,015	California
Colorado	-	-	-	-	5	5	-	155	155	-	160	160	Colorado
Connecticut	3	10,255	10,258	5	643	648	47	3,546	3,593	55	14,444	14,499	Connecticut
Delaware	15	335	350	-	74	74	1	204	205	16	613	629	Delaware
Florida	1,131	10,461	11,592	423	2,152	2,575	122	1,463	1,585	1,676	14,076	15,752	Florida
Georgia	1,800	1,323	3,123	-	4,192	4,192	2,221	2,670	4,891	4,021	8,185	12,206	Georgia
Idaho	13	60	73	-	695	695	1	99	100	14	854	868	Idaho
Illinois	194	4,494	4,688	982	4,568	5,550	216	3,355	3,571	1,392	12,417	13,809	Illinois
Indiana	826	20,642	21,468	39	3,331	3,370	18	646	664	883	24,619	25,502	Indiana
Iowa	200	1,975	2,175	40	5,406	5,446	10	361	371	250	7,742	7,992	Iowa
Kansas	-	-	-	-	4,000	4,000	-	-	-	-	4,000	4,000	Kansas
Kentucky	40	1,322	1,362	17	394	411	79	314	393	136	2,030	2,166	Kentucky
Louisiana	-	5,353	5,353	-	445	445	1,199	4,908	6,107	1,199	10,706	11,905	Louisiana
Maine	-	322	322	14	119	133	59	850	909	73	1,305	1,378	Maine
Maryland	335	2,470	2,805	76	518	594	449	2,240	2,689	860	5,228	6,088	Maryland
Massachusetts	17	32,161	32,178	26	12,812	12,838	107	16,858	16,965	150	61,831	61,981	Massachusetts
Michigan	10,206	282,544	292,750	173	20,274	20,447	537	17,246	17,783	10,916	320,064	330,980	Michigan
Minnesota	3,972	40,921	44,893	139	21,474	21,613	2,297	10,728	13,025	6,408	73,123	79,531	Minnesota
Mississippi	38	2,625	2,663	398	847	1,245	-	523	523	436	3,995	4,431	Mississippi
Missouri	340	4,312	4,652	393	987	1,380	-	65	65	733	5,364	6,097	Missouri
Montana	40	25	65	3	6	9	-	-	-	43	31	74	Montana
Nebraska	-	200	200	-	576	576	-	870	870	-	1,646	1,646	Nebraska
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	Nevada
New Hampshire	24	8,003	8,027	14	192	206	20	4,472	4,492	58	12,667	12,725	New Hampshire
New Jersey	-	11,284	11,284	22	861	883	12	1,539	1,551	34	13,684	13,718	New Jersey
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-	New Mexico
New York	2,825	397,965	400,790	729	25,194	25,923	926	94,896	95,822	4,480	518,055	522,535	New York
North Carolina	47	1,946	1,993	475	2,679	3,154	879	1,385	2,264	1,401	6,010	7,411	North Carolina
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-	North Dakota
Ohio	491	13,100	13,591	687	5,938	6,625	589	16,141	16,730	1,767	35,179	36,946	Ohio
Oklahoma	-	-	-	23	678	701	9	100	109	32	778	810	Oklahoma
Oregon	7,561*	71,388	78,949	298	825	1,123	167	825	992	8,026	73,038	81,064	Oregon
Pennsylvania	603	60,739	61,342	287	13,275	13,562	200	13,475	13,675	1,090	87,489	88,579	Pennsylvania
Rhode Island	40	3,597	3,637	-	513	513	14	6,830	6,844	54	10,940	10,994	Rhode Island
South Carolina	684	11,345	12,029	1,246	7,074	8,320	49	1,568	1,617	1,979	19,987	21,966	South Carolina
South Dakota	24	367	391	184	1,508	1,692	-	-	-	208	1,875	2,083	South Dakota
Tennessee	1,074	24,434	25,508	61	1,034	1,095	69	697	766	1,204	26,165	27,369	Tennessee
Texas	8	567	575	10	468	478	22	1,994	2,016	40	3,029	3,069	Texas
Utah	-	-	-	10	30	40	-	-	-	10	30	40	Utah
Vermont	1	3,368	3,369	30	314	344	74	3,915	3,989	105	7,597	7,702	Vermont
Virginia	153	2,061	2,214	13	657	670	129	825	954	295	3,543	3,838	Virginia
Washington	3,278	43,314	46,592	38	252	290	380	6,144	6,524	3,696	49,710	53,406	Washington
West Virginia	-	1,835	1,835	70	791	861	51	478	529	121	3,104	3,225	West Virginia
Wisconsin	756	51,661	52,417	214	3,539	3,753	5,589	144,798	150,387	6,559	199,998	206,557	Wisconsin
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	Wyoming
Total Continental U. S.	36,873	1,129,880	1,166,753	7,720	152,238	159,958	16,659	368,362	385,021	61,252	1,650,480	1,711,732	Total Continental U. S.
Hawaii	283	36,186	36,469	15	136	151	1	152	153	299	36,474	36,773	Hawaii
Puerto Rico	712	20,619	21,331	-	3,574	3,574	5	463	468	717	24,656	25,373	Puerto Rico
Grand Total	37,868	1,186,685	1,224,553	7,735	155,948	163,683	16,665	368,977	385,642	62,268	1,711,610	1,773,878	Grand Total

Table 3  
**FOREST PLANTING UNDERTAKEN ON PRIVATELY-OWNED LAND**

(EXCLUSIVE OF WINDBARRIER PLANTING)

July 1, 1955 - June 30, 1956

Areas in acres

State	Persons, Clubs, Associations, and Private School Land			Forest Industry Land			Other Industry Land (Mining, RR., Water, Power Cos.)			Total - Table 3			State
	Current Year	Previous Years	Total	Current Year	Previous Years	Total	Current Year	Previous Years	Total	Current Year	Previous Years	Total	
Alabama	25,128	120,636	145,764	23,651	86,412	110,063	740	14,004	14,744	49,519	221,052	270,571	Alabama
Arizona	-	1,444	1,444	-	-	-	-	-	-	-	1,444	1,444	Arizona
Arkansas	7,569	41,396	48,965	7,653	70,407	78,060	132	3,662	3,794	15,354	115,465	130,819	Arkansas
California	482	11,154	11,636	549	27,942	28,491	12	209	221	1,043	39,305	40,348	California
Colorado	7	3,258	3,255	-	-	-	-	-	-	7	3,248	3,255	Colorado
Connecticut	731	18,179	18,910	-	-	-	10	8,607	8,617	741	26,786	27,527	Connecticut
Delaware	272	2,190	2,462	-	15	15	1	52	53	273	2,257	2,530	Delaware
Florida	39,779	242,684	282,463	29,979	226,754	256,733	8,089	36,344	44,433	77,847	505,782	583,629	Florida
Georgia	61,917	353,987	415,904	53,576	236,448	290,024	2,395	8,214	10,609	117,888	598,649	716,537	Georgia
Idaho	279	2,281	2,560	30	87	117	9	27	36	318	2,395	2,713	Idaho
Illinois	4,718	44,159	48,877	-	-	-	512	19,511	20,023	5,230	63,670	68,900	Illinois
Indiana	2,105	32,106	34,211	23	631	654	2,096	28,120	30,216	4,224	60,857	65,081	Indiana
Iowa	800	261,241	262,041	-	145	145	10	386	396	810	261,772	262,582	Iowa
Kansas	25	25,035	25,060	-	-	-	-	-	-	25	25,035	25,060	Kansas
Kentucky	6,155	22,723	28,878	-	401	401	385	6,226	6,611	6,540	29,350	35,890	Kentucky
Louisiana	21,928	104,689	126,617	36,308	306,125	342,433	-	33,196	33,196	58,236	444,010	502,246	Louisiana
Maine	940	10,172	11,112	102	10,377	10,479	15	1,118	1,133	1,057	21,667	22,724	Maine
Maryland	2,064	31,203	33,267	700	2,050	2,750	60	1,178	1,238	2,824	34,431	37,255	Maryland
Massachusetts	421	32,160	32,581	9	3,238	3,247	-	713	713	430	36,111	36,541	Massachusetts
Michigan	35,219	203,119	238,338	506	2,078	2,584	1,405	15,672	17,077	37,130	220,869	257,999	Michigan
Minnesota	6,991	104,360	111,351	525	9,609	10,134	241	-	241	7,777	113,969	121,746	Minnesota
Mississippi	61,163	218,016	279,179	20,681	86,870	107,551	-	5,360	5,360	81,844	310,246	392,090	Mississippi
Missouri	1,474	21,606	23,100	-	238	238	54	434	488	1,548	22,278	23,826	Missouri
Montana	2	518	520	135	684	819	-	-	-	137	1,202	1,339	Montana
Nebraska	700	12,008	12,708	-	1,400	1,400	-	1,543	1,543	700	14,951	15,651	Nebraska
Nevada	-	-	-	-	-	-	-	-	-	-	-	-	Nevada
New Hampshire	1,191	23,976	25,167	22	2,812	2,834	5	1,112	1,117	1,218	27,900	29,118	New Hampshire
New Jersey	1,170	24,286	25,456	-	112	112	30	7,100	7,130	1,200	31,498	32,698	New Jersey
New Mexico	-	2,093	2,093	-	-	-	-	-	-	-	2,093	2,093	New Mexico
New York	23,445	403,221	431,666	167	7,131	7,298	245	22,703	22,948	23,857	438,055	461,912	New York
North Carolina	10,376	77,705	88,081	18,494	33,502	51,996	1,894	12,330	14,224	30,764	123,537	154,301	North Carolina
North Dakota	-	2,000	2,000	-	-	-	-	-	-	-	2,000	2,000	North Dakota
Ohio	5,615	106,963	112,578	157	1,379	1,536	5,315	31,553	36,868	11,087	199,895	150,982	Ohio
Oklahoma	920	30,010	30,930	300	6,902	7,202	7	123	130	1,227	37,035	38,262	Oklahoma
Oregon	5,050	15,940	20,990	9,282*	68,350	77,632	602	40	642	14,934	84,330	99,264	Oregon
Pennsylvania	29,117	237,423	266,540	2,757	22,688	25,445	18,973	88,997	107,970	50,847	349,108	399,955	Pennsylvania
Rhode Island	244	21,514	21,758	-	-	-	-	-	-	244	21,514	21,758	Rhode Island
South Carolina	15,847	174,490	190,337	13,376	80,368	93,744	1,338	15,938	17,276	30,561	270,796	301,357	South Carolina
South Dakota	1	15,801	15,802	-	-	-	-	-	-	1	15,801	15,802	South Dakota
Tennessee	16,454	194,947	211,401	11,006	7,986	18,992	441	2,049	2,490	27,901	204,982	232,883	Tennessee
Texas	13,260	67,664	80,924	5,859	79,360	85,219	416	701	1,117	19,535	147,725	167,260	Texas
Utah	8	492	500	-	-	-	5	8	13	13	500	513	Utah
Vermont	1,980	23,532	25,512	130	3,268	3,398	16	2,011	2,027	1,126	28,811	30,937	Vermont
Virginia	9,713	33,197	42,910	9,769	39,244	49,013	153	1,207	1,360	19,635	73,648	93,283	Virginia
Washington	963	11,015	11,978	9,380	103,807	113,187	-	-	-	10,343	114,822	125,165	Washington
West Virginia	2,508	26,869	29,377	65	89	154	400	1,369	1,769	2,973	28,327	31,300	West Virginia
Wisconsin	19,357	177,600	196,957	1,747	38,856	40,603	87	947	1,034	21,191	217,403	238,594	Wisconsin
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	Wyoming
Total Continental U. S.	438,108	3,596,052	4,034,160	256,938	1,567,765	1,824,703	46,113	372,764	418,877	741,159	5,536,581	6,277,740	Total Continental U. S.
Hawaii	49	1,150	7,199	-	-	-	-	26	53,859	53,885	61,009	61,084	Hawaii
Puerto Rico	510	61,489	61,999	-	-	-	-	-	616	510	62,105	62,615	Puerto Rico
Grand Total	438,667	3,664,691	4,103,358	256,938	1,567,765	1,824,703	46,139	427,239	473,378	741,744	5,659,695	6,401,439	Grand Total

\* Includes 3,717 acres of direct seeding.

Table 4  
**WINDBARRIER PLANTING UNDERTAKEN ON ALL OWNERSHIP OF LAND**  
 (EXCLUSIVE OF FOREST PLANTING)  
 July 1, 1955 - June 30, 1956  
 Areas in acres

State	Federal Lands			Other Public (Non-Federal) Lands			Privately-Owned Lands			Total - Table 4			Acres in a Mile*	State
	Current Year	Previous Years	Total	Current Year	Previous Years	Total	Current Year	Previous Years	Total	Current Year	Previous Years	Total		
Alabama	-	78	78	-	-	-	-	-	-	-	78	78	4	Alabama
Arizona	867	3,556	4,423	-	-	-	-	1,032	1,032	867	4,588	5,455	4	Arizona
Arkansas	-	-	-	-	-	-	-	-	-	-	-	-	-	Arkansas
California	19	214	233	-	-	-	-	55	5,115	74	5,274	5,348	1	California
Colorado	5	42	47	-	-	-	-	819	20,855	824	20,897	21,721	10	Colorado
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-	-	Connecticut
Delaware	-	-	-	-	-	-	-	-	-	-	-	-	-	Delaware
Florida	250	-	250	-	-	-	-	-	-	250	-	250	4	Florida
Georgia	5	-	5	-	-	-	-	-	-	5	-	5	4	Georgia
Idaho	-	52	52	-	-	-	-	250	6,847	250	6,899	7,149	4	Idaho
Illinois	1	-	1	-	-	-	-	100	2,300	101	2,300	2,401	4	Illinois
Indiana	-	-	-	-	-	-	-	831	11,428	831	11,428	12,259	2.4	Indiana
Iowa	-	8	8	-	-	-	-	-	28,059	-	28,067	28,067	4	Iowa
Kansas	-	17	17	-	-	-	-	800	204,860	800	204,877	205,677	10	Kansas
Kentucky	-	-	-	-	-	-	-	30	25	30	25	55	4	Kentucky
Louisiana	-	-	-	-	-	-	-	-	-	-	-	-	-	Louisiana
Maine	-	-	-	-	-	-	-	-	-	-	-	-	-	Maine
Maryland	-	-	-	-	-	-	-	24	-	24	-	24	3	Maryland
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-	-	Massachusetts
Michigan	1	-	1	-	-	-	-	153	6,650	154	6,650	6,804	4	Michigan
Minnesota	10	34	44	-	-	-	-	30	15,850	40	15,884	15,924	2.4	Minnesota
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-	-	Mississippi
Missouri	-	180	180	-	-	-	-	48	1,900	48	2,080	2,128	3	Missouri
Montana	29	364	393	-	-	-	-	422	12,583	451	12,947	13,398	6.4	Montana
Nebraska	7	585	592	-	-	-	-	4,413	298,122	4,420	298,707	303,127	8	Nebraska
Nevada	10	-	10	-	-	-	-	-	449	10	449	459	4	Nevada
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-	-	New Hampshire
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	New Jersey
New Mexico	797	1,799	2,596	-	-	-	-	29	3,259	826	5,058	5,884	4	New Mexico
New York	7	1	8	-	-	-	-	-	-	7	1	8	4	New York
North Carolina	20	32	52	-	-	-	-	-	-	20	32	52	-	North Carolina
North Dakota	41	2,327	2,368	-	311	311	7,140	91,998	99,138	7,181	94,696	101,817	8	North Dakota
Ohio	-	9	9	-	-	-	-	94	2,040	94	2,049	2,143	4	Ohio
Oklahoma	41	55	96	13	141	154	4,66	57,181	57,647	520	57,377	57,897	4	Oklahoma
Oregon	-	82	82	-	-	-	-	6	-	6	82	88	2	Oregon
Pennsylvania	6	4	10	-	-	-	-	-	-	6	4	10	4	Pennsylvania
Rhode Island	-	1	1	-	-	-	-	-	-	-	1	1	4	Rhode Island
South Carolina	-	-	-	-	-	-	-	-	-	-	-	-	-	South Carolina
South Dakota	87	1,564	1,651	122	3,953	4,075	7,326	87,367	94,693	7,535	92,884	100,419	11.6	South Dakota
Tennessee	10	44	54	-	-	-	-	-	-	10	44	54	4	Tennessee
Texas	-	147	147	-	-	-	-	261	27,875	261	28,022	28,283	5	Texas
Utah	103	250	353	7	33	40	103	2,109	2,212	213	2,392	2,605	4	Utah
Vermont	-	-	-	-	-	-	-	-	-	-	-	-	-	Vermont
Virginia	-	-	-	-	-	-	-	29	77	29	77	106	4	Virginia
Washington	-	1	1	-	-	-	-	733	5,848	733	5,849	6,582	4	Washington
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	West Virginia
Wisconsin	-	10	10	-	-	-	-	590	7,600	-	7,610	7,610	4	Wisconsin
Wyoming	3	307	310	53	255	308	-	8,148	8,738	646	8,710	9,356	1	Wyoming
Total Continental U. S.	2,319	11,763	14,082	195	4,693	4,888	24,752	909,522	934,274	27,266	925,978	953,244	-	Total Continental U. S.
Hawaii	-	-	-	-	-	-	-	101	754	101	754	855	3	Hawaii
Puerto Rico	-	-	-	-	-	-	-	408	408	408	-	408	5	Puerto Rico
Grand Total	2,319	11,763	14,082	195	4,693	4,888	25,261	910,276	935,537	27,775	926,732	954,507	-	Grand Total

\* Actually there is no standard width for a windbarrier because each windbarrier must be designed to the site and purpose and they vary from a single row of trees to 12 or more rows of trees and shrubs. The figures given in this column therefore is for a commonly used 10 ft. row spacing in the state codes.

Table 5  
SUMMARY OF TREE PLANTING UNDERTAKEN

July 1, 1955 - June 30, 1956

Areas in acres

State	FOREST PLANTING									WINDBARRIER PLANTING			GRAND TOTAL			State
	TABLE 1			TABLE 2			TABLE 3			TABLE 4						
	Federal Acres Planted			Other Public (Non-Federal) Acres Planted			Private Acres Planted			All Owners Windbarrier Acres Planted						
	Current Year	Previous Years	Total	Current Year	Previous Years	Total	Current Year	Previous Years	Total	Current Year	Previous Years	Total	Current Year	Previous Years	Total	
Alabama	857	75,867	73,724	221	4,195	4,416	49,519	221,052	270,573	-	75	75	50,597	298,192	348,789	Alabama
Arizona	411	5,365	6,776	-	-	-	-	1,444	1,444	867	4,588	5,455	1,278	12,337	13,615	Arizona
Arkansas	270	23,808	24,078	-	643	643	15,354	115,465	130,819	-	-	-	15,624	139,916	155,540	Arkansas
California	4,061	54,436	58,497	611	404	1,015	1,043	39,305	40,348	74	5,274	5,348	5,789	99,419	105,308	California
Colorado	267	69,699	69,966	-	160	160	7	3,248	3,255	824	20,897	21,721	1,098	94,004	95,102	Colorado
Connecticut	-	650	650	55	14,444	14,499	741	26,786	27,527	-	-	-	796	41,850	42,646	Connecticut
Delaware	-	100	100	16	613	629	273	2,257	2,530	-	-	-	289	2,970	3,259	Delaware
Florida	3,248	37,713	40,961	1,676	14,076	15,752	77,847	505,782	583,629	250	-	250	83,021	557,571	640,592	Florida
Georgia	5,022	16,320	21,342	4,021	8,185	12,206	117,888	598,449	716,337	5	-	5	126,936	683,154	750,090	Georgia
Idaho	1,128	102,022	103,150	14	854	868	318	2,395	2,713	250	6,899	7,149	1,710	112,170	113,880	Idaho
Illinois	1,966	46,280	48,246	1,392	12,117	13,509	5,230	63,670	68,900	101	2,300	2,401	8,689	124,667	133,356	Illinois
Indiana	1,873	23,080	24,953	883	24,619	25,502	4,224	60,857	65,081	831	11,428	12,259	7,811	119,984	127,795	Indiana
Iowa	10	1,848	1,858	250	7,742	7,992	810	261,772	262,582	-	-	-	28,067	299,429	300,499	Iowa
Kansas	-	100	100	-	4,000	4,000	25	25,035	25,060	800	204,877	205,677	825	234,012	234,837	Kansas
Kentucky	40	10,789	10,829	134	2,090	2,166	6,540	29,350	35,890	30	25	55	6,746	42,194	48,940	Kentucky
Louisiana	2,337	105,265	108,602	1,199	10,706	11,905	58,236	444,010	502,246	-	-	-	61,772	560,981	622,753	Louisiana
Maine	-	401	401	75	1,232	1,307	1,057	21,667	22,724	-	-	-	1,130	23,300	24,430	Maine
Maryland	-	1,436	1,436	860	5,228	6,088	2,824	34,431	37,255	24	-	24	3,708	41,095	44,803	Maryland
Massachusetts	-	500	500	150	61,851	61,981	430	36,111	36,541	-	-	-	580	98,442	99,022	Massachusetts
Michigan	4,161	559,113	563,274	10,916	320,064	330,980	37,130	280,869	287,999	154	6,650	6,804	52,361	1,106,696	1,159,057	Michigan
Minnesota	3,172	144,499	147,671	6,408	73,123	79,531	7,777	113,969	121,746	40	15,884	15,924	17,397	367,475	384,872	Minnesota
Mississippi	2,591	154,105	156,696	434	3,995	4,431	81,844	310,246	392,090	-	-	-	84,871	468,346	553,217	Mississippi
Missouri	327	65,898	66,665	713	5,364	6,097	1,548	22,278	23,826	48	2,080	2,128	3,156	95,560	98,716	Missouri
Montana	1,407	42,280	43,687	43	31	74	137	1,202	1,339	451	12,947	13,398	2,038	56,460	58,498	Montana
Nebraska	-	30,969	30,969	-	1,646	1,646	700	14,951	15,651	4,420	298,707	303,127	5,120	346,273	351,393	Nebraska
Nevada	150	167	317	-	-	-	-	-	-	10	449	459	160	616	776	Nevada
New Hampshire	-	1,153	1,153	58	12,667	12,725	1,218	27,900	29,118	-	-	-	1,276	41,720	42,996	New Hampshire
New Jersey	21	587	608	94	13,684	13,718	1,200	31,438	32,698	-	-	-	1,255	45,769	47,024	New Jersey
New Mexico	212	5,558	5,770	-	-	-	-	2,093	2,093	826	5,058	5,884	1,038	12,709	13,747	New Mexico
New York	25	7,977	7,998	4,480	518,055	522,535	23,857	438,055	461,912	7	1	8	26,369	964,084	992,453	New York
North Carolina	1,951	18,170	20,121	1,401	6,010	7,411	90,764	123,537	154,301	20	32	52	34,136	147,749	181,885	North Carolina
North Dakota	-	967	967	-	-	-	-	2,000	2,000	7,181	94,636	101,817	7,181	97,603	104,784	North Dakota
Ohio	1,481	16,233	17,714	1,767	35,179	36,946	11,087	199,895	210,982	94	2,049	2,143	14,429	193,356	207,785	Ohio
Oklahoma	-	5,757	5,757	32	778	810	1,227	37,035	38,262	520	57,377	57,897	1,779	100,947	102,726	Oklahoma
Oregon	17,353	110,961	128,314	8,026	73,038	81,064	14,934	84,330	99,264	6	82	88	40,319	268,411	308,730	Oregon
Pennsylvania	250	21,341	21,601	1,050	87,489	88,539	50,847	349,108	399,955	6	4	10	52,201	457,947	510,148	Pennsylvania
Rhode Island	-	423	423	54	10,940	10,994	244	21,514	21,758	-	1	1	298	32,878	33,176	Rhode Island
South Carolina	11,034	62,792	73,828	1,979	19,987	21,966	30,561	270,796	301,357	-	-	-	43,576	353,575	397,151	South Carolina
South Dakota	875	31,555	32,431	2,083	1,875	15,802	1	15,801	15,802	7,535	92,884	100,419	8,620	142,115	150,735	South Dakota
Tennessee	2,353	60,452	62,805	1,204	26,165	27,369	27,901	204,982	232,883	10	44	54	31,974	291,643	323,617	Tennessee
Texas	302	58,710	59,012	40	3,029	3,069	19,535	117,725	117,260	261	28,022	28,283	20,638	231,486	252,124	Texas
Utah	7	4,034	4,041	10	30	40	13	500	513	213	2,392	2,605	243	6,936	7,179	Utah
Vermont	2	1,324	1,326	105	7,597	7,702	2,126	28,811	30,937	-	-	-	2,233	37,732	39,965	Vermont
Virginia	423	8,089	8,512	295	3,543	3,838	19,695	73,640	93,283	29	77	106	20,322	85,357	105,739	Virginia
Washington	7,524	123,329	130,853	3,696	49,710	53,406	10,343	114,822	125,165	733	5,849	6,582	24,296	239,710	246,296	Washington
West Virginia	42	16,533	16,575	181	3,104	3,285	2,973	28,327	31,300	-	-	-	3,136	47,964	51,100	West Virginia
Wisconsin	1,240	235,635	236,875	6,559	199,998	206,557	21,191	217,409	238,594	-	7,610	7,610	29,010	660,646	689,656	Wisconsin
Wyoming	1,702	7,581	9,283	-	-	-	-	-	-	646	8,710	9,356	2,348	16,291	18,639	Wyoming
Total Continental U. S.	33,633	2,344,792	2,348,424	61,252	1,056,480	1,117,732	741,159	5,536,581	6,277,740	27,266	925,978	953,244	913,309	10,477,891	11,391,140	Total Continental U. S.
Hawaii	-	-	-	299	36,474	36,773	75	61,005	61,084	-	855	855	475	98,237	98,712	Hawaii
Puerto Rico	9	12,697	12,706	717	24,626	25,373	510	82,105	82,615	408	-	408	1,644	99,458	101,102	Puerto Rico
Grand Total	33,642	2,377,489	2,361,130	62,268	1,111,610	1,173,878	741,744	5,659,695	6,401,439	27,775	926,732	954,507	915,428	10,675,526	11,590,954	Grand Total

1956

Table 6  
**FOREST AND WINDBARRIER STOCK DISTRIBUTED BY THE STATES**  
 July 1, 1955 - June 30, 1956

State	Distribution by State Organization Within State			Production by State Nurseries		State
	Clarke-McNary Program Alone		All Programs Combined	Number of Nurseries Shipping Trees in 1956	1956 Shipments to Field Planting	
	Quantities Shipped	Average Price Charged				
(M)	(\$)	(M)	(M)	(M)		
Alabama	35,998	3.00	36,165	3	33,929	Alabama
Arizona	No Program	-	-	-	-	Arizona
Arkansas	15,354	3.01	15,354	1	15,224	Arkansas
California	891	13.03	1,410	4	1,413	California
Colorado	329*	24.98	331*	-	-	Colorado
Connecticut	497	20.00	661	1	211	Connecticut
Delaware	415	Free	415	1	621	Delaware
Florida	54,077	4.02	54,720	2	54,720	Florida
Georgia	112,833	3.03	112,833	4	112,833	Georgia
Idaho	375	15.54	404	1	369	Idaho
Illinois	6,622	12.08	6,657	2	7,355	Illinois
Indiana	6,409	13.09	12,098	3	12,702	Indiana
Iowa	1,060	19.37	1,060	1	560	Iowa
Kansas	No Program	-	150	1	150	Kansas
Kentucky	6,272	7.09	6,323	2	1,302	Kentucky
Louisiana	42,453	2.93	42,508	2	42,654	Louisiana
Maine	1,130	10.60	1,130	1	75	Maine
Maryland	3,526	Free	3,526	1	3,526	Maryland
Massachusetts	580	23.76	580	3	580	Massachusetts
Michigan	4,604	11.29	25,344	6	18,001	Michigan
Minnesota	13,630	9.96	14,185	3	13,891	Minnesota
Mississippi	30,657	3.50	30,657	2	30,657	Mississippi
Missouri	2,336	6.95	2,761	1	4,327	Missouri
Montana	400	32.36	400	1	365	Montana
Nebraska	1,187	33.52	2,897	-	-	Nebraska
Nevada	(35)**	-	-	-	-	Nevada
New Hampshire	1,072	7.09	1,072	1	1,275	New Hampshire
New Jersey	1,234	8.10	1,262	1	1,262	New Jersey
New Mexico	(21)*	-	-	-	-	New Mexico
New York	29,153	3.02	29,153	2	29,153	New York
North Carolina	32,182	3.56	32,716	3	35,031	North Carolina
North Dakota	615	19.54	615	2	615	North Dakota
Ohio	10,034	10.22	10,935	3	10,796	Ohio
Oklahoma	1,271	6.47	1,315	2	1,395	Oklahoma
Oregon	6,675	8.74	6,675	1	6,679	Oregon
Pennsylvania	12,014	6.13	13,574	4	13,581	Pennsylvania
Rhode Island	146	10.00	146	1	-	Rhode Island
South Carolina	32,614	2.44	33,098	1	33,024	South Carolina
South Dakota	2,210	29.74	2,210	-	-	South Dakota
Tennessee	22,202	3.01	29,870	1	22,891	Tennessee
Texas	17,617	3.57	17,617	2	17,538	Texas
Utah	167**	25.72	176**	1	138	Utah
Vermont	2,131	8.26	2,131	1	2,131	Vermont
Virginia	19,960	4.57	20,403	2	18,094	Virginia
Washington	450	12.12	4,970	2	5,279	Washington
West Virginia	3,126	11.28	3,500	1	3,350	West Virginia
Wisconsin	22,825	12.82	22,825	6	22,129	Wisconsin
Wyoming	239	25.92	239	-	-	Wyoming
Total for Continental U.S.	559,572 M	\$ 4.84 Cont. Av.	607,071 M	83	579,826 M	Total for Continental U.S.
Hawaii	186	Free	186	5	186	Hawaii
Puerto Rico	698	Free	872	2	872	Puerto Rico
Grand Total	560,456 M	\$ 4.81 Nat'l. Av.	608,129 M	90	580,884 M	Grand Total

\* Includes 21 M C-44 for New Mexico handled by Colorado

\*\* Includes 25 M C-44 for Nevada handled by Utah