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FORESTRY FACTS - 1961 - GEORGIA FOREST SURVEY

		%
1. STATE TOTAL LAND AREA	37,382.7 M acres	
2. COMMERCIAL FOREST LAND	25,772.2 M acres	69
3. OWNERSHIP -		
Farmer	15,053.0 M acres	58
Misc. Private	4,931.9 M acres	19
Forest Industry	3,946.4 M acres	16
Other Public (Military, State, County, City)	1,067.5 M acres	4
National Forest	773.4 M acres	3

4. The Forest Resource Picture can Best be Summed up as Follows:
- a. Two-thirds of the total area is now commercial forest land and is increasing.
 - b. Four out of five acres of commercial forest land are in small private ownerships.
 - c. About half the area is rated as potentially capable of producing slightly more than a cord per acre per year.

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UTILIZATION FACTS OF GEORGIA WOOD-PRODUCING INDUSTRIES - 1961

- 1. TOTAL OF LUMBER AND TIMBER PRODUCED IN 1961 1,418,000 MBF
(Sawtimber, Veneer & Plywood, Poles, Posts, Cross-ties)
- 2. PULPWOOD 4,949 M Cords

3. EMPLOYMENT FACTS FOR WOOD-USING INDUSTRIES, 1961^{1/}

a. Pulp and Paper	19,200	employed ^{2/}
b. Sawmills	9,800	"
c. Naval Stores	9,500	" ^{3/}
d. Wood Preservation Plants	600	
e. All Others (furniture, veneer & plywood, specialty industries, flooring plants, lumber box manufacturers, cabinet shops)	11,950	
 Total Employment	 51,050	

4. In 1960, forest-based industries ranked third in the State in dollar out-put value, contributing 956 million dollars, outranked only by textiles and food manufacturing.

^{1/} Excludes woodyards and wholesalers and retailers of lumber products.
^{2/} From Blue Book of Southern Progress (1961).
^{3/} Estimated Wood and Gum Naval Stores

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GEORGIA FORESTRY COMMISSION

FIRE CONTROL FACT SHEET

February 4, 1963

FOREST PROTECTION STATUS

NO. FOREST ACRES PROTECTED	23,563,000
NO. COUNTIES PROTECTED	153
NO. COUNTY FORESTRY UNITS	126
NO. COMBINED UNITS (2 OR MORE COUNTIES COMBINED)	27
NO. UNPROTECTED COUNTIES--TOWNS, UNION, GLASCOCK, JOHNSON, QUITMAN, BAKER	6

PERSONNEL & EQUIPMENT STATUS

- 1 FIRE FIGHTER PER 40,907 FOREST ACRES
- 1 TOWERMAN PER 104,724 FOREST ACRES
- 1 DISTRICT SUPERVISOR PER 24 COUNTY PERSONNEL
- 1.8 MEN PER FIRE SUPPRESSION UNIT (CRAWLER TRACTOR, PLOW & TRANSPORT)
- 1 FIRE SUPPRESSION UNIT PER 72,279 FOREST ACRES
- 1 PATROL AIRCRAFT PER 942,520 FOREST ACRES

FIRE STATISTICS

<u>YEAR</u>	<u>FIRES</u>	<u>FOREST ACRES BURNED</u>	<u>AVG. SIZE</u>	<u>PERCENT OF PROTECTED LAND BURNED</u>
1959	6,422	50,929.70	7.93	.237
1960	8,335	62,948.11	7.55	.290
1961	8,855	56,610.03	6.39	.256
1962	<u>8,595</u>	<u>46,786.12</u>	<u>5.44</u>	<u>.199</u>
4 Yr. Avg.	8,052	54,318.49	6.75	.246

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GEORGIA FORESTRY COMMISSION - REFORESTATION ACTIVITIES

1. AREA REFORESTED FROM COMMISSION GROWN TREES 4.5 MILLION ACRES.
TOTAL COMMISSION TREES PLANTED 1929 - 1962 1.6 BILLION TREES.

2. TREE SEEDLING PRODUCTION PAST 4 YEARS:

<u>SEASON</u>	<u>MILLION TREES</u>
1959 - 60	234.0
1960 - 61	114.0
1961 - 62	54.3
1962 - 63	55.0

3. 1962 AREA NEEDING REFORESTATION 1,500,000 ACRES (ESTIMATED).

4. ESTIMATED TREES NEEDED 1963-64 80 MILLION

ESTIMATED TREES NEEDED 1964-65 100 MILLION

5. TREE IMPROVEMENT PROGRAM.

THREE SEED ORCHARDS FOR SUPERIOR TREES.

GLENWOOD - COCHRAN - DAWSONVILLE

TOTAL SUPERIOR TREES TO BE ESTABLISHED IN ORCHARDS ... 64,500

PRESENT STATUS - 50 PERCENT COMPLETED.

ANNUAL RATE OF INCREASE ... 10,000 TREES.

AVERAGE ANNUAL COST OF ESTABLISHING SEED ORCHARD APPROXIMATELY \$60,000.

6. REFORESTATION FACTS 1962 - 63

NUMBER OF TREE NURSERIES	-	6
NUMBER OF SEED ORCHARDS	-	3
STATE OFFICE	-	<u>1</u>
TOTAL		10

NUMBER OF SALARIED EMPLOYEES PER UNIT 3.1 PEOPLE

NUMBER OF TECHNICAL SUPERVISORS 2

TREE SEEDLINGS SOLD TO GEORGIA LANDOWNERS AT APPROXIMATE COST.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5700 SOUTH CAMPUS DRIVE
CHICAGO, ILLINOIS 60637

DATA TABLE

RESULTS

0.001	0.0000
0.002	0.0000
0.005	0.0000
0.010	0.0000
0.020	0.0000

1. The first part of the experiment was to determine the rate of reaction between hydrogen peroxide and potassium iodide in the presence of a catalyst. The reaction was carried out at a constant temperature of 25°C. The rate of reaction was measured by the volume of iodine produced over a period of 10 minutes. The results are shown in the table above.

2. The second part of the experiment was to determine the effect of temperature on the rate of reaction. The reaction was carried out at three different temperatures: 15°C, 25°C, and 35°C. The rate of reaction was measured by the volume of iodine produced over a period of 10 minutes. The results are shown in the table below.

3. The third part of the experiment was to determine the effect of the concentration of the reactants on the rate of reaction. The reaction was carried out at a constant temperature of 25°C. The rate of reaction was measured by the volume of iodine produced over a period of 10 minutes. The results are shown in the table below.

4. The fourth part of the experiment was to determine the effect of the concentration of the catalyst on the rate of reaction. The reaction was carried out at a constant temperature of 25°C. The rate of reaction was measured by the volume of iodine produced over a period of 10 minutes. The results are shown in the table below.

FOREST FACTS OF WOODLAND MANAGEMENT

Job Ahead

1. Provide management services on the State's 23,931,300 acres of privately owned forest land.
2. Provide technical assistance to restock 1,599,600 acres of understocked forest land.
3. Provide assistance and service to prevent the annual conversion of 174,000 acres of pine land into low quality, undesirable weed trees.
4. Provide technical assistance to and critical area tree planting on 18 small watersheds now in operation, and 15 new watersheds annually to come into this program.
5. To provide technical assistance and information on manufacturing and utilization to Georgia's 900 wood-using industries.
6. To assist in finding markets and new uses for Georgia's most abundant raw material--wood.
7. To provide growth and yield studies to potential forest owners to enable them to qualify for F.H.A. loans.
8. Technical assistance on a million and a half acres in need of planting to trees.
9. As the authorized agency to expend federal funds on forestry programs in the State, most of which is on a matching bases, the Commission services the following agencies' forestry programs: ASC, Conservation Reserve, Farmers Home Administration, Small Watershed, Rural Area Development, Georgia Crop Improvement Association's certified pine seed program, also approving the practice and sale of all timber on all State Agency lands.

Personnel Providing Services

Forty-one technical foresters at present are providing management services on the State's 23,931,300 forest acres to its 196,665 private forest owners; thus averaging 583,690 acres and 4,796 forest owners per forester.

Services Available to Forest Owners:

1. In-the-woods forest land examination and recommendations by a technical forester on all forestry needs and practices.
2. Forest Management Plan - A plan providing the forest owner with a systematic procedure and method to insure a sustained income from his forest land. The plan is based on a forester's examination, analysis and recommendations set forth in a report which includes an aerial photograph of the owner's property (sample attached).
3. Mark trees for selective cutting and cupping and give number, size, and volume of trees marked.
4. Marketing - Provide sample forest products sales contract, provide list of possible timber buyers, and furnish interested buyers with list of owners having timber for sale.
5. Control undesirable weed trees by chemical spraying.
6. Furnish technically trained utilization specialists to industry for assistance in manufacturing and utilization problems.
7. Provide forest resources information to prospective wood-using industries in Georgia.
8. Complete State-wide coverage of aerial photographs made available to landowners. Individual photographs on a loan basis.

9. Provide critical area tree planting and technical assistance on all of the State's small watersheds.
10. Provide aerial detection for insect and disease occurrences and control when outbreak occurs. Entire State is flown annually for this purpose.
11. Wood-using industry and utilization directory available. Gives description and facts concerning the various forest products industries in the State. Also, a list and addresses of all of the wood-using industries in the State.

Activities

	<u>Fiscal Year 1962</u>
Woodland owners given forest management assistance ... No.	4,260
Area involved Acres	273,589
Industrial operators given assistance and advice No.	185
Sawtimber marked for selective cutting MBF	16,732
Pulpwood marked for selective cutting Cords	20,608
Area of timber marked Acres	18,598
Total timber stand improvement Acres	22,910
Woodlands of undesirable species controlled by county forestry personnel No.	282
Area involved Acres	5,250
Timber saved from premature harvest Acres	11,108
Cases referred to private foresters No.	39
Surveys and research projects No.	4
Insect Control: 522,329 insect infested trees treated on 4,490	
landowners' property in 30 counties - March 1962 - February 1963	

Forest Management Budget

Fiscal Year 1964

Macon Office	\$ 91,569
Cooperative Forest Management	239,353
Watershed Technical Assistance	21,595
Coosa River Watershed	19,826
Critical Area Planting	6,508
State Forest	<u>55,673</u>
Total	\$434,524

<u>Title</u>	<u>No. of Employees</u>	<u>Average Monthly Salary</u>	<u>Starting Salary</u>
Director	1	999.00	999.00
Asst. Director	1	875.00	727.00
Division Chief	6	761.33	627.00
Regional Forester	2	700.00	585.00
Asst. Division Chief	4	601.75	545.00
Administrative Asst.	1	565.00	466.00
I & E Assistant II	4	510.25	466.00
District Forester	10	600.90	505.00
Watershed Forester	1	545.00	505.00
Asst. District Forester	43	457.59	431.00
Forest Mgt. Field Assistant	3	545.00	466.00
Forest Engineer	2	545.00	466.00
Senior Pilot	1	565.00	505.00
District Pilot-Part Time	16	374.56	371.00
District Pilot-Full Time	9	383.89	371.00
Investigator	5	421.84	371.00
Radio Technician III	10	439.00	400.00
Radio Technician II	1	344.00	319.00
Forest Technician	7	410.38	400.00
District Ranger	9	450.67	371.00
General Services Asst.	1	505.00	466.00
Aircraft Mechanic II	1	565.00	505.00
Aircraft Mechanic I	1	448.00	431.00
Nursery Superintendent	6	448.66	431.00
Nurseryman	6	285.17	275.00
Asst. Nurseryman	6	258.33	255.00
Seed Processing Asst.	1	357.00	319.00
Naval Stores Supervisor	1	265.00	228.00

Year	Area	Value	Year	Area	Value
1950	1950
1951	1951
1952	1952
1953	1953
1954	1954
1955	1955
1956	1956
1957	1957
1958	1958
1959	1959
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1989	1989
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1991	1991
1992	1992
1993	1993
1994	1994
1995	1995
1996	1996
1997	1997
1998	1998
1999	1999
2000	2000

Have forest review plan

1980 All areas

Have forest review plan

1980 All areas

<u>Title</u>	<u>No. of Employees</u>	<u>Average Monthly Salary</u>	<u>Starting Salary</u>
Carpenter Foreman	1	400.00	344.00
Welder	2	378.00	296.00
Mechanic	4	316.25	296.00
Heavy Equipment Operator	2	301.50	296.00
Asst. Warehouseman II	2	275.00	275.00
Trailer Truck Operator	1	331.00	255.00
Night Watchman	2	331.00	255.00
Tabulating Equip. Sup.	1	466.00	400.00
Payroll Control Auditor	1	448.00	371.00
Payroll Clerk	1	285.00	285.00
Principal Secretary	2	303.00	296.00
Clerk Typist, Senior	2	320.00	275.00
Secretary	8	295.12	275.00
Clerk Typist, Intermediate	8	271.37	255.00
Key Punch Operator	4	257.50	255.00
Radio Telephone Operator	1	265.00	255.00
Intermediate Sec.	4	268.50	228.00
District Secretary	5	256.00	219.00
Secretary-Part time	1	150.00	150.00
Printer	1	344.00	344.00
Porter & Laborer	10	196.44	187.00

COUNTY PERSONNEL

<u>Title</u>	<u>No. of Employees</u>	<u>Average Monthly Salary</u>	<u>Starting Salary</u>
Unit Forester	6	448.33	431.00
Asst. Ranger	45	247.93	228.00
County Ranger I	26	310.00	275.00
County Ranger II	97	387.06	344.00
Tractor Operator	77	247.56	219.00
Asst. Patrolman	114	163.31	159.00
Patrolman I	187	204.33	187.00
Patrolman II	24	218.75	203.00
Dispatcher	45	195.53	173.00
Towerman I	97	142.01	135.00
Towerman II	83	163.17	147.00

GEORGIA FORESTRY COMMISSION
 Equipment by Type and Age
 August 29, 1962

FIRE CONTROL

Percent Surplus	No. Items	Nomenclature	Replacement		Average Age
			Value		
0	14	Delivery Vehicles, Civ.	14 @ \$1,900 = \$26,600		3 yrs. - 8 months
62	18	Jeeps, Surplus	29 @ \$1,600 = \$46,400		13 yrs. - 0 months
	11	Jeeps, Civ.			8 yrs. - 2 months
11	24	1/2 - 3/4 ton pickups, Surplus	219 @ \$1,350 = \$295,650		12 yrs - 0 months
	195	" " " Civ.			3 yrs - 4 months
55	12	Tanker, Truck, Surplus	1 @ \$4,500 =		12 yrs. - 0 months
	10	" " " "	21 @ \$2,600 = \$59,100		11 yrs. - 1 month
8	10	Stake Truck, 1 1/2 - 2 Ton, Surplus	13 @ \$2,600 = \$33,800		12 yrs. - 0 months
	3	" " " Civ.			10 yrs. - 0 months
23	55	1 1/2 - 3 Ton Transport Truck, Surplus	239 @ \$2,600 = \$621,400		10 yrs. - 0 months
	184	" " " Civ.			6 yrs. - 2 months
44	4	5 Ton Transport Trucks, Surplus	9 @ \$5,800 = \$52,200		12 yrs. - 0 months
	5	" " " Civ.			6 yrs. - 10 months
1	1	Trailer Equipment, Surplus	89 @ \$1,600 = \$142,400		8 yrs. - 8 months
	88	" " " Civ.			
17	1	2 Ton Tractor Truck, Surplus	6 @ \$3,850 = \$23,100		12 yrs. - 0 months
	5	" " " "			7 yrs. - 10 months
16	11	3 Ton Tractor Truck, Surplus	69 @ \$3,850 = \$265,650		11 yrs. - 0 months
	58	" " " Civ.			6 yrs. - 7 months
76	16	5 Ton Tractor Truck, Surplus	2 @ \$12,000 =		11 yrs. - 0 months
	5	" " " Civ.	19 @ \$8,000 = \$176,000		6 yrs. - 6 months
1	2	Tractor, Crawler, Light w/plow, Surplus	226 @ \$3,475 = \$785,350		6 yrs. - 0 months
	224	" " " Civ.			6 yrs. - 4 months

FIRE CONTROL (Cont.)

<u>Percent</u>	<u>No.</u>	<u>Items</u>	<u>Itemization</u>	<u>Replacement Value</u>	<u>Average Age</u>
19	21	Tractor, Crawler, Medium w/plow, Surplus	112 @ \$11,500 = \$1,288,000	14 yrs. - 0 months	
	91	" " " " " " " " " " " "	8 yrs. - 4 months		
82	9	Tractor, Crawler, Heavy w/plow, Surplus	11 @ \$16,000 = \$176,000	14 yrs. - 0 months	
	2	" " " " " " " " " " " "	5 yrs. - 6 months		
0	384	Fixed Radios, Civ.	2 @ \$2,000, 4 @ \$800 & 378 @ \$475 = \$186,750	7 yrs. - 10 months	
0	912	Mobile Radios, Civ.	912 @ \$666 = \$607,392	6 yrs - 3 months	
0	31	Pack Radio, Civ.	31 @ \$600 = \$18,600	6 yrs. - 7 months	
0	19	Super Cub Aircraft, Civ.	19 @ \$7,000 = \$133,000	4 yrs. - 4 months	
56	1	Cessna 180 Aircraft, Surplus	2 @ \$7,000 = \$14,000	8 yrs. - 0 months	
	1	Cessna 180 Aircraft, Civ.	8 yrs. - 0 months		
0	1	Piper Commanche Aircraft, Civ.	1 @ \$22,000 = \$22,000	5 yrs. - 0 months	
100	2	TBM Aircraft, Surplus	2 @ \$17,000 = \$34,000	19 yrs. - 0 months	
100	2	T-34 Beechcraft Aircraft, Surplus	2 @ \$7,000 = \$14,000	6 yrs. - 0 months	
100	1	Stearman PT-17 Aircraft, Surplus	1 @ \$7,000 = \$7,000		
0	2	Bell Helicopter, Civ.	1 @ \$35,000 = \$35,000	4 yrs. - 6 months	

Total Replacement Value - \$5,063,392

16.4% of all listed equipment, excluding radios, has been obtained from Government surplus sources.

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ADMINISTRATION

<u>Percent Surplus</u>	<u>No. Items</u>	<u>Nomenclature</u>	<u>Average Age</u>	<u>Estimated Replacement Cost</u>
None	1	Truck, Sedan Delivery	5 years	\$ 1,900
Surplus	4	Radios, Fixed	7 years	4,375
	7	Radios, Mobile	4 years	4,662
		IBM Equipment		<u>71,200</u>
				\$82,137

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ADMINISTRATION

<u>Percent Surplus</u>	<u>No. Items</u>	<u>Nomenclature</u>	<u>Average Age</u>	<u>Estimated Replacement Cost</u>
None	1	Truck, Sedan Delivery	5 years	\$ 1,900
Surplus	4	Radios, Fixed	7 years	4,375
	7	Radios, Mobile	4 years	4,662
		IBM Equipment		<u>21,200</u>
				\$82,137

MEMORANDUM

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MEMORANDUM

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MANAGEMENT

<u>Percent Surplus</u>	<u>No. Items</u>	<u>Nomenclature</u>	<u>Average Age</u>	<u>Estimated Replacement Cost</u>
None	36	Pickup Trucks	2 years	\$48,600
Surplus	5	Tractors, Crawler, Small	8 years	17,375
	36	Radios, Mobile	5 years	<u>23,976</u>
				\$89,951

NURSERY

<u>Percent Surplus</u>	<u>No. Items</u>	<u>Nomenclature</u>	<u>Average Age</u>	<u>Estimated Replacement Cost</u>
None Surplus	8	Trucks, Pickup	4 years	\$10,800
	4	Trucks, Stake, 1 1/2 to 2 ton	5 years	10,400
	5	Trucks, Stake Dump	5 years	15,000
	2	Trucks, Tractor, 3 ton	5 years	7,700
	15	Tractors, Farm, 30 h.p. or less	6 years	36,000
	12	Tractors, Farm, 31 h.p. or more	6 years	40,800
	7	Radios, Fixed	6 years	3,325
	15	Radios, Mobile	6 years	<u>9,990</u>
				\$134,015

WAYCROSS STATE FOREST

<u>Percent Surplus</u>	<u>No. Items</u>	<u>Nomenclature</u>	<u>Average Age</u>	<u>Estimated Replacement Cost</u>
20	1	Truck, Pickup	12 years	\$ 1,350
	2	" "	3 years	2,700
0	0	Truck, Stake 1/2 to 1 ton	5 years	--
	1	" " " "		1,900
100	1	Truck, Stake, 1 1/2 to 2 ton	12 years	2,600
	0	" " " "		--
50	1	Trailer, Equipment	12 years	1,600
	1	" " " "	5 years	1,600
100	1	Truck, Tractor, 5 ton	12 years	8,000
	0	" " " "		--
0	0	Tractor, Crawler, small	6 years	--
	1	" " " "		3,475
0	0	Tractor, Crawler, large	7 years	--
	1	" " " "		24,000
0	0	Radio Fixed	14 years	--
	1	" " " "		475
0	0	Radio, Mobile	4 years	--
	3	" " " "		<u>1,998</u>
				\$49,698



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