



Records of Leslie R. Beatty

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THREE YEARS
OF
EMERGENCY CONSERVATION WORK
ON
MINNESOTA STATE FORESTS

1933-36
April 1, 1933 -
July 1 1936

REPORT OF ACCOMPLISHMENTS

FOR

33 MINNESOTA STATE FORESTS

EMERGENCY CONSERVATION WORK

CAMPS

JUNE 12, 1933 to JULY 1, 1936

BY

LESLIE R. BEATTY

JR. ADMINISTRATIVE OFFICER

MINNESOTA E.C.W.

NATIONAL
EMERGENCY CONSERVATION WORK

Emergency Conservation Work became a law April 1, 1933.

The first camp on Minnesota State Forests was established June 1933 and twenty-four others followed during the next month, the last being established on July 26. In the three years since April 1933, 39 camps have operated on 22 State Forests. There have been a total of 635 months of camp operation, with 1,865,000 man-days of forestry conservation work in the field.

The work has been divided into six months periods:

1st Per.	April	to Sept. 1933	--25 camps	4th Per.	Oct. '34	to Mar. 1935	--22 camps
2nd "	Oct. '33	to Mar. 1934	--16 "	5th "	April	to Sept. 1935	--19 "
3rd "	April	to Sept. 1934	--17 "	6th "	Oct. '35	to Mar. 1936	--15 "
7th Period April (present)--14 camps							

The gross area of the 22 State Forests in which E.C.W. has worked is 4,700,000 acres. The work, however, has not been confined to lands within the boundaries, and it is estimated that the total area directly benefited is between $6\frac{1}{2}$ and 7 millions of acres.

The State Forests are located within the forest protection area, which is about 22,000,000 in size. The entire area is indirectly benefited by the intensive work on the State Forests. The increased system of fire protection, the administrative structures and lookout towers and telephone system, fire hazard reduction and roadside clean-up; the water conservation dams and other projects tend to influence and aid in protection and restoration of forests in the entire forest protection area.

In addition to the physical accomplishments listed on the pages which follow, there are the human and social results from the operation of the Conservation Camps. 43,000 Minnesota boys have been given an opportunity to find a work which is physically beneficial. They have received an allotment, \$25 of which has gone to aid the family, thereby lifting the relief burdens of the state, county and community.

The recreational and educational life of the young men has not been overlooked, for in each camp an educational advisor directs these activities. Educational classes in almost any subject mentioned have been offered and very few boys do not attend one or more of the classes which meet regularly each week.

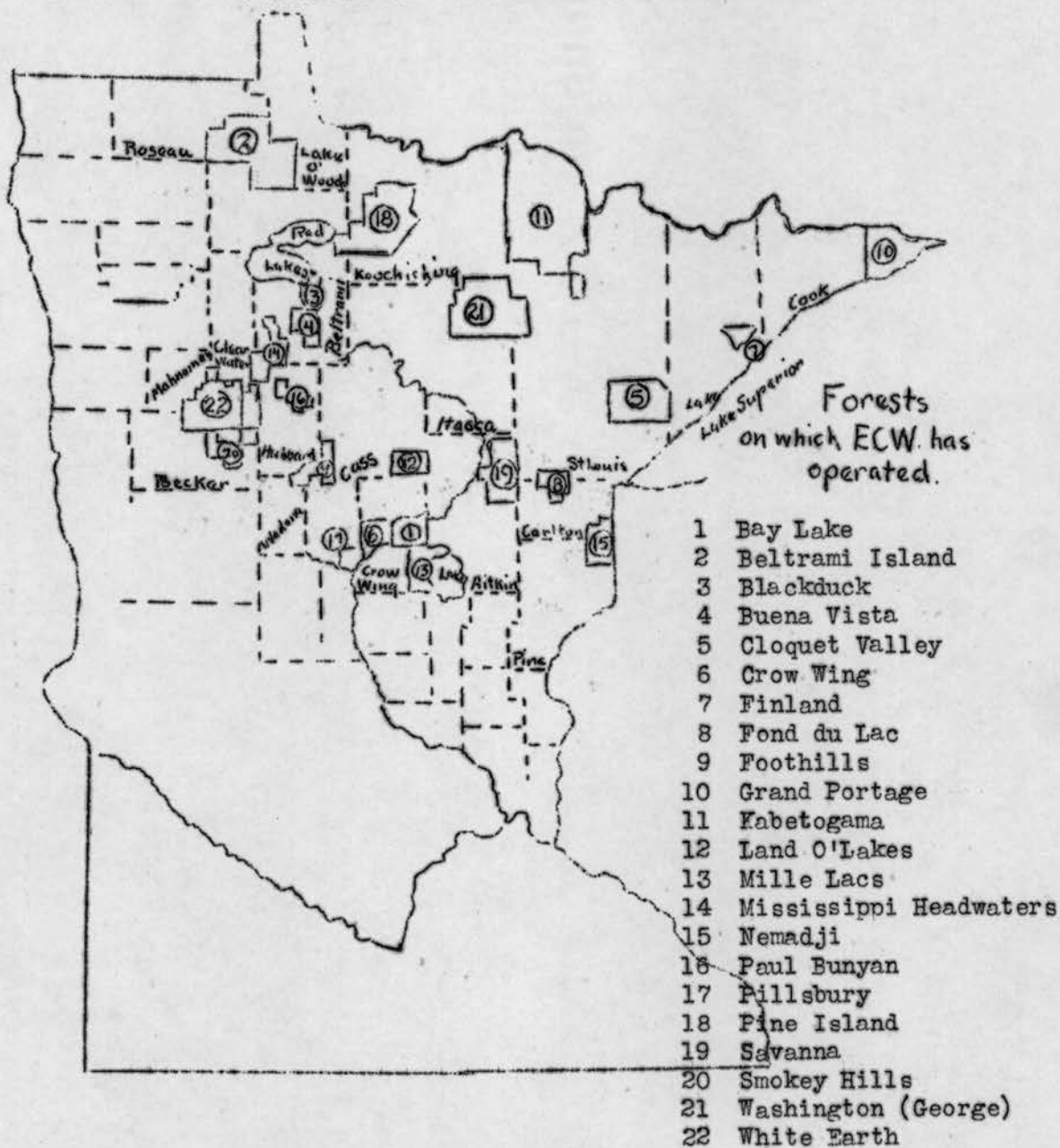
The record of field accomplishments is listed according to State Forests, and the figures are in round numbers. Some of the smaller projects involving few man-days have been left out, but the major accomplishments, either from the standpoint of man-days or Emergency Conservation fund expenditures, are listed.

The values of these accomplishments are twofold; first immediate protection and a reduction in the further dissipation of the state's natural resources, and second, the long-time program of restoration of forest productivity. Forest products are not only wood, but also the production of game, the conservation of water supplies and the opportunities for recreational use. The accomplishments of E.C.W. will return these forest products and uses to the people of the State and the nation for years to come.

TABULATION OF WORK AREAS

STATE FORESTS	GROSS AREA	ABANDONED CAMPS	OPERATING 6th PERIOD	AREA FOREST LANDS PER OPERATING CAMP
AREA #1	White Earth Paul Bunyan Smokey Hills Blackduck Miss. Headwaters Buena Vista <u>695,400</u>	S-69, S-58 S-70 S-142 S-99	S-57, S-141 S-134 S-92 S-98 S-4	123,250 A. 123,300 A. 101,600 A. 159,100 A. 132,000 A. 173,300
AREA #2	Geo. Washington <u>341,400</u>	S-71	S-53, S-54, S-95	113,800 A.
AREA #3	Kabetogama <u>918,600</u>	S-94	S-52, S-81	459,300 A.
AREA #4	Fond du Lac Forest Ex. Station Savanna Nemadji (St. Croix) <u>474,800</u>	S-61 S-140	S-79 1	99,700 A. 474,800 A.
AREA #5	Cloquet Finland Grand Portage <u>481,400</u>	S-63 S-67, S-68	S-51 S-62 2	230,400 A. 151,800 A. 240,700 A.
AREA #6	Washkish Pine Island Beltrami Island <u>1,119,400</u>	S-82, S-83, S-84 S-55, S-56, S-60		
AREA #7	Bay Lake Mille Lacs Crow Wing Pillsbury Badoura Foothills Land O'Lakes <u>666,600</u>	S-135 S-136, S-66	S-76 S-97 2	174,600 A. 137,300 A. 333,300 A.
	Third River <u>46,000</u>	S-59		
TOTALS	4,743,600 Acres	21 Abandoned	15 Operating 6th Period	316,200 Acres

MAP OF Minnesota State Forests



SUMMARY WORK AND COSTSJUNE 1933 - JULY 1936.

	<u>No.</u> <u>Camps</u>	<u>Total</u> <u>Months</u>	<u>Total</u> <u>Mandays</u>	<u>Permanent Improves-</u> <u>ment cost</u>
Beltrami Island	3	17	43,700	\$13,389.45
Blackduck	1	7.7	19,700	1,332.10
Cloquet Valley	1	34.5	109,560	10,739.93
Crow Wing	1	9.5	26,630	935.20
Finland	1	30.9	99,960	10,479.30
Fon du Lac Exp.Stn.	1	37	99,570	7,637.16
Foot Hills	1	4	9,500	4,563.48
Grand Portage	3	50	130,100	8,576.06
George Washington	4	100	317,799	19,236.79
Kabetogama	3	92	271,033	15,742.20
Land O Lakes	1	9.5	26,277	5,600.00
Mississippi Headwaters	1	12.3	32,137	2,392.56
Mille Lac	1	14	46,500	5,136.98
Paul Bunyan	1	20	60,549	11,723.04
Pine Island	3	33	85,200	11,669.73
St. Croix	1	14	44,500	2,334.84
Savanna	1	4.5	10,700	684.34
Snokey Hills	1	12	35,300	3,747.75
Third River	1	26	74,000	2,939.77
White Earth	4	83.5	245,567	15,557.97

AREAS OUTSIDE STATE FORESTS

Camp Ripley	1	13	40,760	910.00
Miller Trunk	1	3	6,145	—
Itasca Annex	1	22	61,423	—
Anoka Refuge	1	3	10,790	—
Nimrod	1	14	46,122	718.29
Burntside				763.58
Vaskiah				690.00
Whitewater Park				815.95
Miscellaneous materials for nurseries				1,605.96
Materials for 32 buildings				26,949.44
Materials for 10 towers				9,000.00
TOTALS:	39	658.4	1,953,179	\$196,067.89

SUMMARY WORK AND COSTS

JUNE 1933 - JULY 1936.

	<u>No.</u>	<u>Total</u>	<u>Total</u>	<u>Permanent Improve-</u>
	<u>Camps</u>	<u>Months</u>	<u>Mandays</u>	<u>ment cost</u>
Beltrami Island	3	17	43,700	\$13,389.45
Blackduck	1	7 7.7	19,459	1,332.10
Cloquet Valley	1	36.5	109,560	10,739.93
Crow Wing	1	9.5	26,630	936.20
Finland	1	30.9	99,950	10,478.30
Fon du Lac Exp. Sta.	1	37	99,570	7,637.16
Foot Hills	1	4	9,500	4,563.48
Grand Portage	3	50	130,100	8,576.06
George Washington	4	100	317,799	19,236.79
Kabetogama	3	92	271,033	15,748.20
Land O Lakes	1	9.5	26,277	5,800.00
Mississippi Hdwaters	1	12.3	32,137	2,392.58
Mille Lac	1	14	46,500	8,136.98
Paul Bunyan	1	20	60,549	11,723.04
Pine Island	3	33	85,200	11,669.73
St. Croix	1	14	44,500	2,334.84
Savanna	1	4.5	10,700	684.34
Smokey Hills	1	12	35,200	3,747.73
Third River	1	26	74,000	2,939.77
White Earth	4	83.5	245,567	15,557.97

AREAS OUTSIDE STATE FORESTS

Camp Ripley	1	13	40,760	910.00
Miller Trunk	1	3	6,145	--
Itasca Annex	1	22	61,423	--
Anoka Refuge	1	3	10,790	--
Nimrod	1	14	46,122	718.29
Burntside				762.58
Washish				690.00
Whitewater Park				815.95
Miscellaneous materials for nurseries				1,605.98
Materials for 32 buildings				26,949.44
Materials for 8 towers				9,000.00

TOTALS: 39 ~~1,953,179~~ 1,953,179 \$196,067.89
658.4

SUMMARY

PERMANENT IMPROVEMENT COSTS

32 cabins	37,389.16	
3 cabins (reconstructed)	1,913.47	
13 cabins (materials purchased)	<u>11,853.30</u>	51,155.93
19 warehouses	14,693.27	
3 warehouses (reconstructed)	905.01	
13 warehouses (materials purchased)	<u>5,676.78</u>	21,275.06
2 seed extraction plants	1,524.71	
1 garage	300.81	
3 station buildings	518.56	
4 station buildings (materials purchased)	762.46	
2 garages (materials purchased)	<u>1,026.60</u>	4,133.14
Miscellaneous nursery improvements		1,605.98
630 miles of New Telephone Line	49,105.47	
157 miles of rebuilt telephone line	<u>6,358.21</u>	55,463.68
37 Towers	34,009.43	
2 Towers (reconstructed)	307.18	
108 Towers (new purchase)	<u>9,000.00</u>	43,316.61
12 Dams	11,487.19	
15 Dams (materials purchased)	<u>7,630.30</u>	19,117.49
TOTAL - E.C.F. Expenditures		\$196,067.89

RECAPITULATION OF THIRTY-NINE (30) STATE FOREST CONSERVATION CAMPS

658 Months Operation - 1,953,200 - Total Mandays

June 14, 1933 - July 1, 1936

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	7,245 acres
Cultural Work	-	34,206 "
Nursery	-	9,120 mandays
Seed Collection	-	5,070 bushels
Public Camp Grounds	-	30
(completed or started)		
Other Recreational Developments	-	7,700 mandays
Water Surveys and Investigations	-	5,200 "
Stream Improvement	-	43 miles
Upland Game Surveys and Censuses	-	8,500 mandays
Timber type surveys	-	671,300 acres
Ground Water surveys	-	57,000 "
Timber estimating	-	475,300 "
Lineal surveys	-	3,640 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods		
Road Reconstruction	-	1,086 miles
Foot-Paths and Portages	-	150 "
Fire-Fighting	-	61,300 mandays
Fire Prevention	-	4,500 "
Fire Break Construction	-	401 miles
Roadside Clean-up	-	2,575 "
Hazard Reduction	-	47,100 acres
Redent Control	-	12,800 "
Blister Rust Eradication	-	33,800 "
Maintenance and Fuel Wood Production	-	67,700 mandays
Logging	-	250 M.Logs

BELTRAMI ISLAND STATE FOREST

Camp S-55,	Faunce	-	4.2	months operation
S-56,	Clear River	-	10.3	" "
S-60,	Norris	-	3	" "
			17	months operation - 43,700 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Cultural Work	-	50 acres
Public Camp Grounds	-	5
Upland Game Investigation and Census	-	200 man-days
Timber Type Survey	-	9,600 acres
Lineal Survey	-	179 miles
Timber Estimating	-	9,600 acres

PROTECTIVE ACCOMPLISHMENTS:

Fire-Fighting	-	8,976 man-days
Fire Break Construction	-	60 miles
Roadside Clean-up	-	168 miles
Hazard Reduction	-	1,453 acres
Truck-Trail Construction and Woods Road Reconstruction	-	116 miles
Cabin	-	1
Telephone Line	-	56 miles
Towers	-	3
Bridges	-	5
Ditch Dams	-	4

PERMANENT IMPROVEMENT COST:

Camp	Improvement	Location	Size	Cost
				2,470.47
S-56	Headquarters Cabin	Faunce	24x38	2,470.47
	Telephone Lines	Norris	56 miles	8,400.00
	Lookout Tower	Faunce	100 Ft.	998.52
	" "	Norris	100 Ft.	721.99
	" "	Clear River	100 Ft.	798.47
				13,389.45
				\$13,389.45

RECAPITULATION

Cabins	- 1	- 2,470.47
Telephone Lines	- 56 miles	- 8,400.00
Lookout Towers	- 3	- 2,518.98
		13,389.45
		\$13,389.45

BLACKHICK STATE FOREST

Camp 3-99, Medicine Lake - 7.7 months operation - 19,469 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	124 acres
Seed Collection	-	153 bushels
Timber Stand Improvement	-	130 acres
Timber Type Survey	-	1,160 acres
Timber Estimating	-	21,900 "
Lake Survey	-	140 man-days

PROTECTIVE ACCOMPLISHMENTS:

Fire Fighting	-	75 man-days
Roadside Cleanup	-	39 miles
Hazard Reduction	-	230 acres
Truck Trail Construction	-	2 miles
Telephone Lines	-	36 "

PERMANENT IMPROVEMENT COST:

Camp	Improvement	Location	Size	Cost
3-59	Telephone Lines	Kelliher	11 miles	\$ 410.29
3-59	" "	Northome	17 "	600.49
3-59	" "	Moose Lake	7 1/2 "	237.18
3-99	" "	3-99	1-1/8 "	84.14
				<u>\$1,332.10</u>

RECAPITULATION

Telephone Lines - 36 miles - \$1,332.10

CLOQUET VALLEY STATE FOREST

Camp S-51, Sullivan - ^{36.5}~~33 1/2~~ months operation - ^{109,560}~~101,500~~ man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	343 acres ✓
Cultural Work	-	450 " ✓
Seed Collection	-	630 bushels 720
Public Camp Grounds	-	3 4
Stream Improvement	-	3 miles ✓
Upland Game Investigation and Census	-	530 man-days 615
Timber Type Survey	-	48,000 acres 56,050
Lineal Survey	-	230 miles ✓

PROTECTIVE ACCOMPLISHMENTS:

Fire-Fighting	-	4,950 man-days 5000
Fire Break Construction	-	11 miles ✓
Roadside Clean-up	-	98 " 100
Hazard Reduction	-	4,650 acres ✓
Fire Prevention	-	280 man-days 335
Rodent Control	-	1,650 acres ✓
Blister Rust Eradication	-	4,500 " ✓
Truck-Trail Construction and Woods Road Reconstruction	-	65 miles 74
Foot-Trail and Portage Construction	-	21 " 29
Fuel Wood and Maintenance	-	8,350 man-days 3540
Cabins	-	2
Warehouses	-	2
Lookout Towers	-	2
Telephone Lines	-	65 miles
Telephone Pole Production	-	2,000
Bridges	-	12
Fence	-	4,200 rods

PERMANENT IMPROVEMENT COST:

Camp	Improvement	Location	Size	Cost
S-51	Headquarters Cabin	Cloquet Valley	24x38	\$1,507.80 2302.01 ✓
	Warehouse	" "	24x36	810.64 ✓
	Tower Cabin	Pequoywan	14x18	124.00 ✓
	Warehouse	" "	18x26	210.21 ✓
	Lookout Tower	Cloquet Valley	100 Ft.	653.38 ✓
	" "	Pequoywan	100 Ft.	842.11 ✓
	Telephone Lines	Rossini	3 1/2 miles	168.14
	" "	Cotton	20 "	1,034.65
	" "	Rossini	6 "	458.83
	" "	Alarm Road	9 1/2 "	755.78
	" "	Brimson	8 "	73.16
	" "	Rossini	4 "	459.43
	" "	Pequoywan	21 "	1,872.59
				\$8,970.12

10,739.93

(Recap from next Page)

CLOQUET VALLEY STATE FOREST - (continued)

RECAPITULATION

Cabins	-	2	-	2926.01 \$1,631.20
Warehouses	-	2	-	1,495.85 1,020.86
Lookout Towers	-	2	-	1,495.49
Telephone Lines	-	65 miles	-	<u>4,822.58</u>

~~\$8,970.12~~

10,739.93

CHOW WING STATE FOREST

Camp S-76, Nisawa - 9.5 month operation - 26,620 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Cultural Work	-	300 acres
Stream Improvement	-	100 man-days
Lineal Survey	-	113 miles
Timber Type Survey	-	32,000 acres

PROTECTIVE ACCOMPLISHMENTS:

Fire Fighting	-	120 days
Blister Rust Control	-	1,700 acres
Truck Trail Construction	-	5 miles
Lookout Tower	-	1 "
Telephone Lines	-	23 "
Roadside Cleanup	-	72 "
Hazard Reduction	-	80 acres

PERMANENT IMPROVEMENT COST:

Camp	Improvement	Location	Size	Cost
S-76	Telephone Lines	Camp S-76	1 mile	\$ 88.49
M.F.S.	Lookout Tower	Pequot	100 Ft.	<u>847.71</u>
				\$ 936.20

RECAPITULATION

Lookout Tower	-	1	-	\$847.71
Telephone Lines	-	1 mile-		<u>88.49</u>
				\$936.20

FINLAND STATE FOREST

Camp S-63, Finland - 30.9 months operation - 99,950 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	533 acres
Cultural Work	-	62 "
Nursery Work	-	80 man-days
Seed Collection	-	410 bushels
Public Camp Grounds	-	4
Temperance River Scenic Development	-	3,500 man-days
Water and Stream Improvement	-	300 man-days)
		7.3 miles)
Upland Game Investigation and Census	-	360 man-days
Timber Type Survey	-	9,800 acres
Timber Estimating	-	5,120 miles
Lineal Survey	-	121 miles

PROTECTIVE ACCOMPLISHMENTS:

Tract Trail Construction & Reconstruction	-	12 miles
Fire Fighting	-	1,380 man-days
Roadside Cleanup	-	145 miles
Hazard Reduction	-	13,500 acres
Rodent Control	-	600 "
Blister Rust Eradication	-	160 "
Fuel Wood and Maintenance	-	3,200 man-days
Cabin	-	1
Towers	-	3
Telephone Lines	-	11 miles
Telephone Line Construction	-	29 "
Dams	-	2
Bridges	-	2

PERMANENT IMPROVEMENT COST:

Camp	Improvement	Location	Size	Cost
S-63	Tower Cabin	Finland	14x18	\$ 822.76
S-63	Lockout Tower	Budd's Hill	80 Ft.	1,066.88
S-63	" "	Finland	100 Ft.	1,323.33
S-63	Telephone Lines	Finland	40 miles	4,548.82
S-63	" "	Budd's Hill	1/2 mile	34.52
M.F.S.	Tower	Gooseberry	100 Ft.	966.27
S-63	Dam	Lappomena	5 Ft.	156.57
S-63	" "	Edge Lake	5 Ft.	152.07
S-62	(Game & Fish Hdqtrs. Bldg.	Finland		<u>1,396.32</u>
				\$10,478.30

RECAPITULATION

Cabin & Hdqtrs	-	2	-	\$ 2,229.14
Towers	-	3	-	3,357.48
Telephone Lines	-	11 miles	-	958.04
" "	-	29 " rebuilt-	-	3,625.00
Dams	-	2	-	<u>308.64</u>
				\$10,478.30

FOND DU LAC STATE FOREST AND UNIVERSITY EXPERIMENTAL STATION

Camp S-79, Big Lake - 37 months operation - 99,570 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	707 acres
Cultural Work	-	1,470 "
Nursery Work	-	1,870 man-days
Seed Collection	-	1,060 bushels
Stream Improvement	-	1 mile
Upland Game Investigation and Census	-	490 man-days
Timber Type Survey	-	96,880 acres
Timber Estimating	-	61,000 "
Aerial Survey	-	220 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods	-	41 miles
Road Reconstruction	-	4 "
Foot-Trail Construction	-	1,300 man-days
Fire Fighting	-	8 miles
Fire Break Construction	-	136 "
Roadside Clean-up	-	2,500 acres
Hazard Reduction	-	720 man-days
Fire Prevention	-	1,000 acres
Rodent Control	-	820 "
Blister Rust Eradication	-	

PERMANENT IMPROVEMENT COST:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-79	Cabin	Spirit Lake	14x18	\$ 563.09
	"	Exper. Station	14x18	374.71
	Warehouse	Spirit Lake	18x26	429.43
	Lookout Tower	Arrowhead	100 Ft.	1,001.89
	" "	Spirit Lake	80 Ft.	995.85
	Telephone Line	" "	12 1/2 miles	897.44
	" "	Exper. Station	5 "	452.57
	" "	Arrowhead	11 "	1,321.55
	" "	Big Lake	9 "	1,343.26
	" "	Vibert	8 "	347.37
				<u>\$7,627.16</u>

RECAPITULATION

Cabins	-	3	-	\$ 937.80
Warehouse	-	1	-	429.43
Towers	-	2	-	1,997.74
Telephone Lines	-	44 miles	-	<u>4,262.19</u>
				<u>\$7,627.16</u>

FOOT HILLS STATE FOREST

Camp S-66, Pine River - 4 months operation - 9,500 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Cultural Work	-	130 acres
Badoura Nursery	-	1,050 man-days
Seed Collection	-	1,066 bushels
Lineal Survey	-	51 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction	-	2 miles
Roadside Clean-up	-	21 "
Warehouse	-	1
Tower	-	1
Seed Extraction Plant	-	1
Telephone Lines	-	33 miles

PERMANENT IMPROVEMENT COST:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
M.F.S.	Lookout Tower	Birch Lake	86 Ft.	\$ 780.70
S-136	Warehouse	Nimrod	24x36	718.29
S-136	Seed Extraction Plant	Badoura	20x28	611.79
S-136	Telephone Line	Spider Lake	32 miles	<u>2,452.70</u>
				\$4,563.48

RECAPITULATION

Warehouse	- 1	- \$ 718.29
Tower	- 1	- 780.70
Seed Extraction Plant	- 1	- 611.79
Telephone Lines	- 32 miles	- <u>2,452.70</u>
		\$4,563.48

GRAND PORTAGE STATE FOREST

Camp S-62, Hovland	- 36.5 months operation	- 111,500 man-days
S-67, Gunflint Lake	- 9 " "	- 10,400 " "
S-68, Grand Portage	- 4 1/2 " "	- 8,200 " "
TOTAL - 50 months operation		- 130,100 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	283 acres
Cultural Work	-	425 "
Nursery Work	-	100 man-days
Public Camp Grounds	-	3
Stream Improvement	-	3 miles
Upland Game Survey Census	-	550 man-days
Lineal Survey	-	62 miles
Timber Estimating	-	30,700 acres

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods		
Road Reconstruction	-	56 miles
Fire Fighting	-	1,200 man-days
Fire Break Construction	-	8 miles
Roadside Clean-up	-	80 "
Fire Prevention	-	100 man-days
Maintenance and Fuel Wood Production	-	3,180 " "

PERMANENT IMPROVEMENT COSTS:

Camp	Improvement	Location	Size	Cost
S-62	Cabin	Mt. Maude	20x24	\$ 1,248.62
	Warehouse	McFarland Lake	24x36	738.00
	Cabin	" "	22x26	837.44
	Warehouse	Mt. Maude	18x26	420.72
	Lookout Tower	" "	86 Ft.	917.22
	Telephone Lines	Mt. Maude Annex	1 mile	318.95
	" "	" (Main Line)	12 1/2 miles	2,244.25
	" "	McFarland Lake	18 "	1,834.32
	" "	Hovland	2 "	21.44
				<u>\$8576 .06</u>

RECAPITULATION

Cabins	- 2	- \$2,086.06
Warehouses	- 2	- 1,153.72
Tower	- 1	- 917.22
Telephone Lines	- 31 1/2 miles	- 4,419.06
		<u>\$8,576.06</u>

GEORGE WASHINGTON STATE FOREST

Camps S-53.	Side Lake	37.5 months operation	119,493 man-days
S-54.	Owen Lake	36.5 " "	109,876 " "
S-71.	Little Bear Lake	3.5 " "	7,804 " "
S-95.	Deer Lake	31.5 " "	80,626 " "
TOTAL -		109 " "	317,799 " "

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	2,275 acres
Cultural Work	-	6,290 "
Nursery Work	-	1,040 man-days
Seed collection	-	970 bushels
Public Camp Grounds	-	6
Scenic Developments	-	625 man-days
Stream improvements and Lake Survey	-	925 " "
Upland Game Survey and census	-	600 " "
Timber type survey	-	182,540 acres
Timber estimating	-	44,800 "
Lineal Survey	-	304 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods		
Road Reconstruction	-	161 miles
Foot-Trails	-	17 "
Fire-Fighting	-	8,550 man-days
Fire Break Construction	-	6 miles
Roadside clean-up	-	268 "
Hazard Reduction	-	4,420 acres
Fire Prevention	-	1,250 man-days
Rodent control	-	4,000 " "
Blister Rust Eradication	-	19,200 acres
Fuel Wood and Maintenance	-	7,685 man-days

GEORGE WASHINGTON STATE FOREST - Continued

PERMANENT IMPROVEMENT COST:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-53	Cabin addition	Sturgeon Lake	8x12	\$145.04
S-53	Patrol Cabin	Stoney Ridge	18x26	1,018.20
S-53	Warehouse	" "	18x26	429.62
S-95	Patrol Cabin	Thistledew	18x26	1,047.55
S-54	Headquarters Cabin	Link Lake	24x39	1,871.72
S-54	Warehouse	" "	24x36	1,121.40
S-53	Warehouse Addition	Sturgeon Lake	10x12	198.74
S-53	Warehouse	" "	24x26	939.93
S-95	Warehouse	Thistledew	24x26	665.52
S-53	Gas & Oil House	Side Lake Station		247.69
S-53	Ice House	" " "		20.77
S-54	Telephone Line	Link Lake	22 miles	601.51
S-54	" "	Manners	25 "	1,863.69
S-54	" "	Link Lake-Smith	10 "	792.40
SP-2	Tower	Scenic	86 ft.	710.81
S-53, 54 and 95	Telephone Lines	Branch Line Re-construction	50 miles	2,500.00
S-53	" "	Beauty Lake	4.5 "	1,215.00
S-53	Dam	Bear Lake	Log 12ft	207.13
S-53	"	South Plantation	" 10 "	101.50
S-53	"	Sturgeon River	55 ft	3,538.47

RECAPITULATION

Cabins, new	- 3	\$3,937.47
Cabins, additions	- 1	145.04
Warehouse, new	- 4	3,156.47
Warehouse, repaired	- 1	198.74
Station Buildings	- 2	268.56
Tower	- 1	710.81
Telephone Lines	- 111.5 mi.	6,972.60
Dams	- 2	<u>3,847.10</u>
		\$19,236.79

KABETOGAMA STATE FOREST

Camp S-52, Gussion	36.5 months operation	= 116,071 man-days
S-81, Kabetogama Lake	36.5 " "	= 108,403 " "
S-94, Vermillion River	19 " "	= 46,559 " "

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	720 acres
Cultural Work	-	2,925 "
Nursery work	-	1,550 man-days
Seed Collection	-	540 bushels
Public Camp Grounds	-	8
Upland Game Investigation and Census	-	1,950 man-days
Timber Type Survey	-	36,300 acres
Timber estimating	-	113,900 "
Lineal Survey	-	572 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods	-	
Road Reconstruction	-	47 miles
Foot-Tracks and Portages	-	86 "
Fire-Fighting	-	3,160 man-days
Fire Break Construction	-	50 miles
Roadside cleanup	-	180 "
Hazard reduction	-	8,250 acres
Fire Prevention	-	485 man-days
Rodent Control	-	1,200 acres
Blister Rust Eradication	-	570 acres
Maintenance and Fuel Wood Production	-	8,160 man-days

PERMANENT IMPROVEMENT COST:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-81	Cabin	Arbutus	14x30	\$979.51
S-81	Headquarters Cabin	Kabetogama Lake	27x30	1,867.72
S-52	Warehouse Reconstruc'n	Orr	24x32	556.27
S-81	Warehouse	Kabetogama Lake	24x36	918.24
S-52	Seed Extraction Bldg.	Gheen	18x26	912.92

KABETOGAMA STATE FOREST - continued

PERMANENT IMPROVEMENT COST - continued:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-94	Cabin	Vermillion Lake	18x26	\$940.00
S-94	Warehouse	" "	18x26	764.56
S-81	Garage-Game & Fish	Kabetogama	20x22	300.81
S-81	Hdqs. Bldg-Game&Fish	"	26x32	1,514.84
S-81	Lookout Tower	Arbutus	80 ft.	623.94
S-81	" "	Ash River	80 "	37.18
	Reconstruction.			
S-52	Lookout Tower	Vermillion Dam	80 "	837.03
S-52	" "	Gheen	100"	1,097.38
S-52	Telephone Lines	Vermillion Dam	15 miles	1,120.68
S-52	" "	Gheen	4 "	154.96
S-52	" "	Farmer John Landing	3 "	60.95
S-52	" "	Orr-Crane Lake-Re-		
		construction.	34 "	1,148.23
S-52	" "	Orr-Kabetogama, Re-		
		construction.	11 "	293.49
S-81	Cabin	Ash River	18x26	804.00
S-81	Telephone Lines	Gappa Landing -		
		reconstruction.	5 miles	139.05
S-81	" "	Ash River - recon-	12 "	200.80
		struction.		
S-81	" "	Orr-Kabetogama, re-		
		construction	15 "	311.55
S-81	" "	Arbutus - reconstr.	3 "	164.09
				<u>\$15,748.20</u>

RECAPITULATION

Cabins	-	5	\$6,106.07
Warehouses	-	2	1,682.80
Warehouse-reconstructed	-	1	556.27
Seed Extraction Building	-	1	912.92
Garage-Game & Fish	-	1	300.81
Towers	-	3	2,558.35
Tower - reconstructed	-	1	37.18
Telephone Lines - new	-	19 miles	1,336.69
Telephone Lines - re-	-		
constructed	-	80 "	<u>2,257.21</u>
			<u>\$15,748.20</u>

LAND O'LAKE STATE FOREST

Camp S-97, Washburn Lake - 9.5 months operation - 26,277 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Stream Improvement	-	2,110 man-days
Upland Game Investigation and Census	-	720 " "
Timber Estimating	-	26,300 acres
Lineal Survey	-	115 miles

PROTECTIVE ACCOMPLISHMENTS:

Fire Fighting	-	115 days
Roadside Clean-up	-	17 miles
Truck-Trail Construction	-	4 miles
Foot Trails	-	2 "
Bridges	-	2

PERMANENT IMPROVEMENT COSTS:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-97,	Dam	Fox Lake	15 Ft. (Concrete)	\$ 900.00 (E)
S-97,	Dam	George Lake	20 Ft. (Concrete)	1,200.00 (E)
S-97,	Dam	Roosevelt	25 Ft. (Concrete)	1,500.00 (E)
S-97,	Dam	Washburn	20 Ft. (Concrete)	1,200.00 (E)
				\$5,800.00 (E)

(E)- Estimated.

MISSISSIPPI HEADWATERS STATE FOREST AND BUENA VISTA STATE FOREST

Camp S-98, Wilton - 12.3 months operation - 32,137 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	761 acres
Cultural Work	-	310 "
Seed Collection	-	50 bushels
Timber Type Survey	-	1,360 acres
Timber Estimating	-	64,520 "
Lineal Survey	-	47 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods		
Road Reconstruction	-	28 miles
Fire Fighting	-	243 man-days
Fire Break Construction	-	1 1/2 miles
Roadside Clean-up	-	67 "
Rodent Control	-	1,900 acres
Blister Rust Eradication	-	1,300 acres

PERMANENT IMPROVEMENT COST:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
M.F.S.	Lookout Tower	Pinewood	80 Ft.	\$ 640.80
S-98	Patrol Cabin	Buena Vista	18x26	874.26
S-98	Lookout Tower	Bemidji	100 Ft.	<u>877.52</u>
				\$2,392.58

RECAPITULATION

Cabins	-	1	-	\$ 874.26
Towers	-	2	-	<u>1,518.32</u>
				\$2,392.58

MILLE LAKE STATE FOREST

Camp S-135, Mille Lake Lake - 14 months operation - 46,500 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	281 acres
Cultural Work	-	500 "
Seed Collection	-	50 Bushels
Public Camp Grounds	-	1
Stream Investigation	-	720 man-days
Upland Game Investigation and Census	-	150 " "
Timber Type Survey	-	2,000 Acres
Timber Estimating	-	1,000 "
Lineal Survey	-	266 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck Trail Construction	-	10 1/2 miles
Fire Fighting	-	2,250 man-days
Fire Break Construction	-	14 miles
Roadside Clean-up	-	135 "
Hazard Reduction	-	250 Acres
Maintenance and Fuel Wood Production	-	3,000 man-days
Cabin	-	1
Warehouse	-	1
Towers	-	3
Ditch Dams	-	2

PERMANENT IMPROVEMENT COSTS:

Camp	Improvement	Location	Size	Cost
S-135	Cabin	Borden Lake	18x26	\$1,107.58
S-135	Warehouse	" "	18x26	466.02
S-135	Lookout Tower	" "	100 Ft.	1,343.73
M.F.S.	" "	Onamia	100 Ft.	822.94
M.F.S.	" "	Aitkin	100 Ft.	847.71
S-76	Dam	Holt Lake	Concrete	550.00
				<u>\$5,136.98</u>

RECAPITULATION

Cabin	-	1	-	\$1,107.58
Warehouse	-	1	-	466.02
Towers	-	3	-	3,013.38
Dam	-	1	-	<u>550.00</u>
				<u>\$5,136.98</u>

PAUL MUNYAN STATE FOREST

Camp S-134, Nevis - 20 months operation - 60,549 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	125 acres
Cultural Work	-	340 "
Nursery Work	-	425 man-days
Seed Collection	-	100 bushels
Upland Game Surveys and Census	-	320 man-days
Timber Type Survey	-	19,200 acres
Timber Estimating	-	48,260 "
Lineal Survey	-	79 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck Trail Construction and Woods		
Road Reconstruction	-	40 miles
Foot Trails	-	3 "
Fire Prevention	-	160 man-days
Fire Break Construction	-	5 miles
Roadside Clean-up	-	86 "
Hazard Reduction	-	2,475 acres

PERMANENT IMPROVEMENT COST:

Camp	Improvement	Location	Size	Cost
S-134	Cabin	Mantrap Valley	18x26	\$1,401.86
S-134	"	Steamboat Hill	18x26	1,163.21
S-134	Warehouse	" "	24x26	792.31
S-134	Lookout Tower	Mantrap Valley	100 Ft.	1,346.02
S-134	" "	Steamboat Hill	100 Ft.	1,342.42
S-134	Telephone Line	Nevis Extension	1 1/2 miles	232.84
S-134	" "	Nevis Main Line	12 1/2 "	1,514.97
S-134	" "	Park Rapids-Badoura	24 miles	2,157.45
S-70	Cabin	Kabekona	18x26	733.09
S-70	Tower	"	100 Ft.	1,038.87
				\$11,723.04

RECAPITULATION

Cabins	-	3	-	\$3,299.16
Warehouse	-	1	-	792.31
Towers	-	3	-	3,727.31
Telephone Lines	48 miles-			3,905.26
				\$11,723.04

PINE ISLAND STATE FOREST

Camp S-82,	Pine Island	-	4 months operation	-	8,600 man-days
S-83,	Big Falls	-	22-3/4 " "	-	67,300 " "
S-84,	Park Avenue	-	6 " "	-	8,500 " "
TOTAL		-	33 months operation		85,200 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	52 acres
Cultural Work	-	3,600 "
Nursery Work	-	90 man-days
Seed Collection	-	140 bushels
Public Camp Grounds	-	4
Timber Type Survey	-	8,700 acres
Timber Estimating	-	13,600 "
Lineal Survey	-	59 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction	-	31 miles
Fire- Fighting	-	11,000 man-days
Fire Prevention	-	260 " "
Fire Break Construction	-	48 1/2 miles
Roadside Clean-up	-	100 "
Maintenance and Fuel Wood Production	-	1,200 man-days
Cabins	-	5
Warehouses	-	2
Towers	-	4
Telephone Lines	-	25 miles
Bridges	-	5
Ditch Dams	-	1

PERMANENT IMPROVEMENT COST:

Camp	Improvement	Location	Size	Cost
S-83	Warehouse	Littlefork	24x40	\$1,214.75
S-83	Cabin Addition	"	22x30	1,288.87
S-83	Station	"	24x24	980.00
S-83	Headquarters Cabin	Big Falls	24x38	1,507.00
S-83	Cabin	Rock Cut	18x26	841.00
S-83	" (Reconstruction)	Loman	14x18	479.56
S-83	Warehouse	Rock Cut	18x26	614.10
S-83	Tower	Littlefork	100 Ft.	1,149.24
S-81	"	Ray	100 Ft.	983.96
S-81	"	Rainy Lake	100 Ft.	861.88
S-81	"	Rock Cut	100 Ft.	861.88
S-81	Telephone Lines	Big Falls-Fine Island	25 miles	887.49
				<u>\$11,669.73</u>

RECAPITULATION

Cabins,	-	3	-	\$3,328.00
Cabins, reconstruction	-	2	-	1,768.43
Warehouses	-	2	-	1,828.85
Towers	-	4	-	3,856.96
Telephone Lines	-	25 miles	-	887.49
				<u>\$11,669.73</u>

ST. CROIX STATE FOREST

Camp S-140, Sandstone - 14 months operation, 44,500 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	"	182 acres
Cultural Work	"	40 "
Stream Improvement	"	10 miles
Upland Game Surveys and Census	"	450 man-days
Timber Type Survey	"	44,900 acres
Lineal Survey	"	519 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction	"	15½ miles
Fire-Fighting and Fire Prevention	"	125 man-days
Fire Break Construction	"	10 miles
Roadside clean-up	"	160 "
Hazard Reduction	"	400 acres
Maintenance and Fuel Wood Production	"	2,250 man-days
Towers	"	2
Telephone Lines	"	8½ miles

PERMANENT IMPROVEMENT COST:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-140	Tower	St. Croix	80 ft.	\$852.84
S-140	Tower - reconstruction	Nickerson	91 "	270.00
S-140	Telephone Line	St. Croix	8½ miles	1,062.00
S-140	Warehouse	Eagle Head		
		(labor only)	16x24	<u>150.00</u>
				\$2,334.84

RECAPITULATION

Towers	- 1	\$852.84
Towers - reconstructed	- 1	270.00
Telephone Lines	- 8½ mi.	1062.00
Warehouse (labor)	- 1	<u>150.00</u>
		\$2,334.84

SAVANNA STATE FOREST

Camp S-61, Big Sandy Lake - 4 $\frac{1}{2}$ months operation - 10,700 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	25 acres
Cultural Work	-	50 "

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction	-	8 miles
Fire-Fighting	-	800 man-days
Roadside Clean-up	-	32 miles
Hazard Reduction	-	42 acres
Tower	-	1
Bridge	-	1

PERMANENT IMPROVEMENT COST:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-61	Tower	Ball Bluff	100 Ft.	\$684.34

SMOKEY HILLS STATE FOREST

Camp S-142, Osage - 12 months operation - 35,200 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Cultural Work	-	1,060 acres
Seed Collection	-	70 bushels
Upland Game Investigation and Census	-	25 man-days
Timber Type Survey	-	19,900 acres
Lineal Survey	-	114 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods	-	
Road Reconstruction	-	32 miles
Fire-Fighting	-	120 man-days
Fire Break Construction	-	4 $\frac{1}{2}$ miles
Roadside Clean-up	-	22 "
Hazard Reduction	-	200 acres
Maintenance and Fuel Wood Production	-	1,600 man-days
Cabin	-	1
Telephone Lines	-	22 miles
Ditch Dam	-	1

PERMANENT IMPROVEMENT COST:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-142	Cabin	Wolf Lake	18x26	\$ 997.73
	Telephone Line	Osage	22 miles	<u>2,750.00</u>
				\$3,747.73

RECAPITULATION

Cabin	-	1	-	\$ 997.73
Telephone Lines	-	22 miles	-	<u>2,750.00</u>
				\$3,747.73

THIRD RIVER STATE FOREST

Camp S-59, Alvwood - 26 months operation - 74,000 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	98 acres
Cultural Work	-	1,300 "
Seed Collection	-	225 bushels
Public Camp Grounds	-	1
Stream Improvement	-	5 $\frac{1}{2}$ miles
Upland Game Survey and Census	-	100 man-days
Timber Type Survey	-	12,800 acres
Timber Estimating	-	600 "
Lineal Survey	-	57 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods	-	22 miles
Road Reconstruction	-	4,960 man-days
Fire-Fighting	-	500 " "
Fire Prevention	-	8 miles
Fire Break Construction	-	97 " "
Roadside Clean-up	-	2,350 acres
Hazard Reduction	-	1,000 man-days
Maintenance and Fuel Wood Production	-	1
Towers	-	49 miles
Telephone Lines	-	2
Bridges	-	1
Ditch Dams	-	500 man-days
Miscellaneous Building Repairs	-	

PERMANENT IMPROVEMENT COST:

<u>Camp</u>	<u>Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-59	Lookout Tower	Third River	100 Ft.	\$ 818.06
	Telephone Lines	Camp S-59	1/8 mile	22.09
	" "	Dixon Lake	10 miles	1,021.10
	" "	Park Avenue	25 "	862.85
	" "	Dixon Lake Annex	5 "	<u>215.67</u>
				\$2,939.77

RECAPITULATION

Towers	- 1	- \$ 818.06
Telephone Lines	- 49 miles -	<u>2,121.71</u>
		\$2,939.77

WHITE EARTH STATE FOREST

Camp S-57, Lovell Lake	-	36.5 months operation	-	102,838 mandays
S-58, Elbow Lake	-	22 "	"	76,508 "
S-69, Long Lake	-	5 "	"	7,969 "
S-141, Big Rice Lake	-	20 "	"	52,254 "
TOTAL	-	63.5 months operation	-	245,567 mandays

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	67 acres
Cultural Work	-	6,700 "
Nursery Work	-	110 mandays
Seed Collection	-	390 bushels
Public Camp Grounds	-	3
Water Investigation	-	760 mandays
Stream Improvement	-	1 mile
Upland Game Investigation and Census	-	955 mandays
Timber Type Survey	-	86,800 acres
Timber estimating	-	9,200 "
Lineal survey	-	470 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods		
Road Reconstruction	-	262 miles
Foot-Paths	-	4 "
Fire-Fighting	-	5,600 man-days
Fire Break Construction	-	48 miles
Roadside clean-up	-	330 "
Hazard reduction	-	3,390 acres
Maintenance and Fuel Wood Production	-	23,300 man-days

WHITE EARTH STATE FOREST - continued

PERMANENT IMPROVEMENT COST:

<u>Camp Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-141 Headquarters Cabin	Roy Lake	24x38	\$2,007.53
S-58 Tower Cabin	Egg Lake	14x18	521.40
S-141 Tower Cabin & Latrine	Bagley Tower	14x18	537.04
S-141 Headquarters Bunk House	Itasca	32x62	1,095.85
S-58 Headquarters Cabin	Elbow Lake	24x38	2,147.70
S-58 Warehouse	" "	24x36	1,561.24
S-58 Cabin	Height of Land	18x26	760.85
S-57 Gas & Oil House	Elbow Lake	10x14	250.00
S-57 Tower	DeSota	86 ft	1,017.65
S-58 Tower	Height of Land	86 "	846.56
S-57 Telephone Line	Itasca Park	5 1/2 miles	512.54
S-57 " "	Itasca-Roy Lake	23 "	214.70
S-57 " "	Lovell's Lake	8 "	116.92
S-57 " "	Anchor Hill	3 1/2 "	110.02
S-57 " "	DeSota	1 "	18.85
S-58 " "	Egg Lake	7 "	453.55
S-58 " "	Tulaby Lake	5 "	302.30
S-70 " "	Lake George	6 "	699.33
S-141 " "	Height of Land	6 1/2 "	612.85
S-141 " "	Rice Lake Trail	3 1/2 "	293.60
S-57, 58, 70, 141 Telephone Line	Branch Lines	48 "	475.00
S-141 Dam	Heart Lake	5 Ft	300.00 (e)
S-141 Dam	Tamarack Lake	10 "	<u>581.45</u>
			\$15,557.97

RECAPITULATION

Cabins	- 6	\$7,090.41
Station Buildings	- 1	250.00
Warehouses	- 1	1,561.24
Towers	- 2	1,864.21
Telephone Lines	- 70 Miles	3,334.66
Telephone Lines - re-	- 48 "	475.00
constructed on branch lines		
Dams	- 2	<u>981.45</u>
		\$15,557.97

(e) estimated

CAMPS NOT IN STATE FOREST AREAS

CAMP RIPLEY

Camp S-64, Camp Ripley - 13 months operation - 40,800 man-days.

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	274 acres
Cultural Work	-	2,500 "
Nursery Work	-	100 man-days
Timber Type Survey	-	7,300 acres
Lineal Survey	-	25 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction	-	28 miles
Fire-Fighting	-	2,750 man-days
Firebreak construction	-	20 miles
Roadside clean-up	-	20 "
Hazard Reduction	-	840 acres
Blister Rust Eradication	-	1,350 "
Maintenance and Fuel Wood Protection	-	500 mandays
Telephone Lines	-	11 1/2 miles
Fence	-	16 "

PERMANENT IMPROVEMENT COST:

S-64, Tower	Camp Ripley	100 ft.	\$910.00
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MILLER TRUNK HIGHWAY

Camp S-60, Culver Post Office - 3 months operation - 6,300 man-days

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction	-	19 miles
Roadside clean-up	-	18 "

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CAMPS NOT IN STATE FOREST AREAS - (Continued)

ITASCA STATE PARK ANNEX

Camp S-70, Annex - 22 months operation - 61,500 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Cultural Work	-	3,000 acres
Seed Collection	-	75 bushels
Upland Game Survey and Census	-	120 man-days
Timber Type Survey	-	7,200 acres
Lineal Survey	-	6 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods		
Road Reconstruction	-	42 miles
Fire-Fighting	-	975 man-days
Fire Break Construction	-	15 miles
Roadside Cleanup	-	50 "
Hazard Reduction	-	300 acres
Blister Rust Eradication	-	575 "
Logging	-	250 M. Logs
Telephone Lines	-	10 miles

ANOKA GAME REFUGE

Camp S-134, Nevis - 3 months operation - 10,800 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	-	171 acres
Timber Type Survey	-	6,400 "
Lineal Survey	-	5 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction	-	13 miles
Fire-Fighting	-	1,150 man-days
Fire Break Construction	-	27 miles
Hazard Reduction	-	550 acres
Bridges	-	15
Telephone Lines	-	15 miles

CAMPS NOT IN STATE FOREST AREAS - continued

NIMROD AREA AND BADOURA NURSERY

Camp S-136, Nimrod - 14 months operation - 46,200 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	=	307 acres
Cultural Work	=	2,500 "
Badoura Nursery work	=	2,500 man-days
Seed Collection	=	110 bushels
Timber Type Survey	=	12,200 acres
Ground Water Survey	=	57,000 "
Timber Estimating	=	2,300 "

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction	=	3 miles
Fire-Fighting	=	700 man-days
Fire Break Construction	=	58 miles
Roadside clean-up	=	160 "
Hazard reduction	=	1,350 acres
Maintenance and Fuel Wood Production	=	4,350 man-days
Ditch Dams	=	30

PERMANENT IMPROVEMENT COSTS:

<u>Camp Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
S-136 Warehouse	Nimrod	24x36	\$718.29

RECAPITULATION OF CAMPS NOT IN STATE FOREST AREAS

55 months operation - 164,200 man-days

IMPROVEMENT AND RESTORATION ACCOMPLISHMENTS:

Planting	=	752 acres
Cultural work	=	7,980 "
Nursery work	=	2,580 man-days
Seed Collection	=	195 bushels
Upland Game Survey and Census	=	120 man-days
Timber Type Survey	=	23,000 acres
Ground Water survey	=	57,000 "
Timber Estimating	=	2,300 acres
Lineal Survey	=	36 miles

PROTECTIVE ACCOMPLISHMENTS:

Truck-Trail Construction and Woods		
Road Reconstruction	=	105 miles
Fire-Fighting	=	5,600 man-days
Fire Break Construction	=	120 miles
Roadside clean-up	=	245 "
Hazard Reduction	=	3,000 acres
Blister Rust Eradication	=	2,500 "
Maintenance and Fuel Wood Production	=	4,800 man-days

BURNSIDE STATE FOREST

PROTECTIVE ACCOMPLISHMENTS:

Tower - 1

PERMANENT IMPROVEMENT COST:

<u>Camp Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
M.F.S. Tower	Jasper	60ft	\$763.58

WASHKISH STATE FOREST

PROTECTIVE ACCOMPLISHMENTS:

Warehouse - 1

PERMANENT IMPROVEMENT COSTS:

<u>Camp Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
8-99 Warehouse	Washkish	24x40	\$590.00

WHITWATER STATE PARK

PROTECTIVE ACCOMPLISHMENTS:

Tower - 1

PERMANENT IMPROVEMENT COSTS:

<u>Camp Improvement</u>	<u>Location</u>	<u>Size</u>	<u>Cost</u>
M.F.S. Tower	Whitewater Pk.	100ft	\$815.95

RECAPITULATION

PERMANENT IMPROVEMENT COSTS

IN AREAS OUTSIDE STATE FORESTS

Towers	- 3 -	\$2,489.53
Warehouses	- 2 -	1,408.29
TOTAL	-	\$3,897.82