

Copy #2

Summary of Planting Projects
Fall 1940

MUNUSCONG PUBLIC HUNTING GROUND PLANTING

This was a dual purpose project designed to increase the amount of deer feed in the vicinity of the Kelden Deeryard and also to increase the amount of up-land game bird food around the edge of a rather extensive open area:

Description and Acreage Planted

SE $\frac{1}{4}$ - SE $\frac{1}{4}$ Section 9 T 44 N R 1 W 35 Acres

Species and Quantity of Stock Planted

Box Elder	14,181
Black Cherry	10,000
Juneberry	3,275
Sumac	900
Norway Maple	10,000
Red Maple	<u>10,000</u>
Total	48,356

Planting Costs (all from Game Division Funds).

(Not including cost of nursery stock or time and travel of Lansing personnel.)

Labor:

Common Labor	\$428.40
(1071 Man Hours @ \$.40 per hour)	
Foreman	47.50
(95 hours @ \$.50 per hour)	
Game Area Manager	12.00
(2 days @ \$6.00 per day)	
Total Labor Cost - - - - -	<u>\$487.90</u>

Transportation:

Hauling stock from nursery	\$ 15.00
Game Area Manager's Mileage	6.00
(150 miles @ \$.04 per mile)	
	<u>\$ 21.00</u>

Equipment:

Equipment cost (grape hoes, shovels, planting bars, nails) -	\$51.89
Pro rated over 10 planting seasons	\$ 5.19

Total Cost including Labor, Transportation and Equipment

\$514.09

Munuscong Public Hunting Ground Planting
Fall 1940

Cost per acre planted	\$14.69
Cost per thousand trees and shrubs	\$10.63

For details see Game Division Report No. 671.

HANSON GAME REFUGE PLANTING

Camp Kalkaska Project

This project was designed primarily to increase the amount of deer browse in the vicinity of the Bear Creek Swamp and Deeryard on the Hanson State Game Refuge. However, other species such as upland game birds and rabbits also should benefit from the plantings. About five acres were planted in the vicinity of the refuge headquarters, to increase the amount of game cover, provide protection from wind and improve the appearance of the Area.

Descriptions and Acreage Planted on Each

SE	SW	Sec. 6	T 26 N	R 4 W	3 Acres
SW	SE	Sec. 6	T 26 N	R 4 W	3 Acres
NW	NE	Sec. 7	T 26 N	R 4 W	1 Acre
SW	NE	Sec. 7	T 26 N	R 4 W	2 Acres
SE	NE	Sec. 7	T 26 N	R 4 W	1 Acre
NE	NW	Sec. 7	T 26 N	R 4 W	2 Acres
NW	NW	Sec. 7	T 26 N	R 4 W	22 Acres
SE	NW	Sec. 7	T 26 N	R 4 W	3 Acres
NE	SW	Sec. 7	T 26 N	R 4 W	2 Acres
NW	SW	Sec. 7	T 26 N	R 4 W	3 Acres
NE	SE	Sec. 7	T 26 N	R 4 W	1 Acre
NW	SE	Sec. 7	T 26 N	R 4 W	2 Acres
SW	SE	Sec. 21	T 26 N	R 4 W	5 Acres
Total Acreage Planted					56 Acres

Species And Quantity Of Stock Planted

Nannyberry	8,500
Red Maple	6,050
Box Elder	39,100
Ninebark	5,100
Mountain Ash	5,000
Red Osier Dogwood	300
Juneberry	1,400
Common Elderberry	19,300
White Ash	11,950
Total	96,700

Planting Costs

Not including cost of nursery stock or time and travel of Lansing office personnel.

From C.C.C. Funds

Supervision	\$124.66
Transportation	121.52
Labor (334 Man Days @ \$1.50 per day)	501.00
Total C.C.C. Cost- - -	\$747.18

Hanson Game Refuge Planting
Fall 1940

Camp Kalkaska Project (continued)

From Game Division Funds

Game Area Manager's time	\$ 24.00
(4 days @ \$6.00 per day)	

Game Area Manager's travel	\$ 5.94
(198 miles @ \$.03 per mile)	

Total Game Division Cost- - -	\$ 29.94
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Total Cost of Project- - - -	\$777.12
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Cost per Acre Planted- - - -	\$ 13.88
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Cost per thousand trees and shrubs planted - - - -	\$ 8.04
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Camp Higgins Project

This planting was made for the purpose of establishing hardwood browse plants in the plots cleared in the Bear Swamp through release cutting operations.

Description and Acreage Planted

NE $\frac{1}{4}$	SW $\frac{1}{4}$	Sec. 17	T 26 N	R 4 W	12.5 Acres
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Species and Quantity Of Stock Planted

White Ash	14,050
Red Maple	5,000
Mannyberry	11,500
Common Elderberry	10,050
Total	40,600

Planting Costs

Not including cost of nursery stock or time and travel of Lansing Office personnel.

From C.C.C. Funds

Supervision	\$ 38.31
Transportation	19.18
Labor (124 Man Days @ \$1.50 per Man Day)	186.00
Total C.C.C. Cost- - - -	\$243.49

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Hanson Game Refuge Planting
Fall 1940

Camp Higgins Project (continued)

From Game Division Funds

Game Area Manager's time \$ 6.00

(1 Day @ \$6.00 per day)

Game Area Manager's travel .63

(21 miles @ \$.03 per mile)

Total Game Division Cost- - - - \$ 6.63

Total Cost of Project- - - - \$250.12

Cost per Acre Planted- - - - \$ 20.01

Cost per thousand trees and shrubs planted- - - - \$ 6.16

For detailed report see Game Division Report No. 673.

OGEAN AREA PLANTING

Plantings Made In Molasses River State Game Area

Descriptions and Acreage Planted on Each

NE	NW	Sec. 11	T 19 N	R 2 E	29 Acres
NW	NW	Sec. 19	T 19 N	R 2 E	2 Acres
NE	SE	Sec. 28	T 20 N	R 2 E	19 Acres
SE	SW	Sec. 33	T 20 N	R 2 E	18 Acres
SE	SE	Sec. 33	T 20 N	R 2 E	18 Acres
Total Acreage Planted - - - -					86 Acres

Species and Quantity of Stock Planted

Black Spruce	101,610	
White Cedar	2,335	(Heeled in during spring project & planted in fall)
Total - - - - -	103,945	

Planting Costs

(All from Game Division Funds) Not including cost of nursery stock or time and travel of Lansing personnel.

Supervision - Hired Foreman	\$85.25
170.5 hours @ \$.50 per hour	
Game Area Manager's time	66.00
11 days @ \$6.00 per day	
Total Supervision- - - - -	\$ 151.25

Labor:

Soil Preparation	\$ 506.40
1266 hours @ \$.40 per hour	
Planting	284.80
712 hours @ \$.40 per hour	
Total Labor	\$ 791.20

Transportation:

Hauling trees from nursery	\$ 25.00
Game Area Manager's travel	
660 miles @ \$.03 per mile	\$ 19.80
Total Transportation - - -	\$ 44.80

Equipment:

Pails, shovels, grape hoes and planting bars - \$54.00	
Pro-rated over 10 planting seasons	\$ 5.40

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Ogemaw Area Planting
Fall 1940

Molasses River State Game Area (continued)

Total Cost of Project- - - - - \$992.65

Cost per Acre Planted- - - - - \$ 11.54

Cost per thousand trees and shrubs planted- - - - - \$ 9.54

For detailed report see Game Division Report No. 670.

CUSINO AREA PLANTING

The Cusino planting was made for the purpose of establishing game food and cover on an area in the Kingston plains. The planting was designed primarily to benefit upland game birds such as ruffed grouse, sharptail grouse and prairie chickens, but will also provide benefits to deer, rabbits and other wildlife species.

The plantings were made in strips approximately three chains wide with unplanted areas about one chain wide between the planted strips. The planted strips ran east and west across the planted area and varied from three-quarters of a mile to approximately a mile and a quarter long. The plants were spaced 10' apart in the strips.

Description and Acreage Planted on Each

S-3/4	Sec. 10	T 48 N	R 15 W	344.8 Acres
SE $\frac{1}{4}$	Sec. 7	T 48 N	R 15 W	<u>5.1 Acres</u>
Total				349.9 Acres

Species and Quantity of Stock Planted

Box Elder	40,000
Black Cherry	51,755
Juneberry	5,000
Mountain Ash	10,000
Hannyberry	40,000
Red Oak	<u>5,000</u>
Total	151,755 (order over-ran approximately 445 - making a total of 152,200 plants)

Planting Costs

Not including cost of nursery stock, C.C.C. supervision or time and travel of Lansing office personnel.

From C.C.C. Funds

Labor:

Soil Preparation	\$448.50
Planting	<u>514.00</u>
Total Labor- - -	\$962.50

Transportation	<u>154.47</u>
Total from C.C.C. Funds- -	\$1116.97

From Game Division Funds

Game Area Manager's time	\$ 18.00
3 days @ \$6.00 per day	
Game Area Manager's travel	4.86
162 miles @ \$.03 per mile	
Total from Game Div. Funds- \$	<u>22.86</u>

Total Cost of Project - - \$1139.83

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Cuzino Area Planting (continued)
Fall 1940

Cost per Acre Planted
Cost per M trees and shrubs planted

\$3.26*
\$ 7.49*

For details see Game Division Report No. 672.

*These costs are not comparable to others given in this report because they do not include C.C.C. supervision.

ESCANABA RIVER TRACT PLANTING

The Escanaba River Tract Planting, during the fall of 1940, was made for the primary purpose of increasing the amount of deer browse. However, the planting should also improve conditions for other game species such as ruffed grouse and rabbits.

Description and Acreage Planted on Each

NE 1/4	NE 1/4	Sec. 19	T 44 N	R 25 W	12 Acres
NW 1/4	NE 1/4	Sec. 19	T 44 N	R 25 W	35 Acres
NE 1/4	NW 1/4	Sec. 19	T 44 N	R 25 W	30 Acres
NW 1/4	NW 1/4	Sec. 19	T 44 N	R 25 W	9 Acres
SE 1/4	NW 1/4	Sec. 19	T 44 N	R 25 W	28 Acres
Total Acreage Planted - - - - -					114 Acres

Species and Quantity of Stock Planted

Basswood	358
Box Elder	160,000
Red-berried Elderberry	29,711
American Elm	10,038
Moose Maple	430
Norway Maple	20,984
Mountain Ash	16,794
Hanny berry	39,700
Winebark	30,000
Total - - - - -	308,515

Planting Costs

Not including cost of nursery stock or time and travel of Lansing Office personnel.

From C.C.C. Funds

Soil Preparation

Labor - 543 Man Days @ \$1.50	\$ 814.50
Supervision	\$ 156.29
Transportation	\$ 26.55
Total- - - - -	\$ 997.34

Planting

Labor - 704 Man Days @ \$1.50	\$1056.00
Supervision	250.64
Transportation	94.03
Total- - - - -	\$1400.67
Total from C.C.C. Funds- - - - -	\$2398.01

Essex River Tract Planting (continued)
Fall 1940

From Game Division Funds

Game Area Manager's time	\$ 30.00
5 days @ \$6.00 per day	
Game Area Manager's travel	7.20
240 miles (approximately) @ \$.03 per mile	
	<u>\$ 37.20</u>
Total Cost of Project - - - - -	\$ 2435.21
Cost per Acre Planted - - - - -	\$ 21.36
Cost per M trees and shrubs planted - - - - -	\$ 7.89

For detailed report see Game Division Report No. 675.

BARRY COUNTY PROJECT

The Barry County planting was made with Federal Aid in Wildlife Restoration funds. The planting was made for the purpose of increasing the amount of desirable wildlife habitat on abandoned farm lands by breaking up large openings with strips and patches of cover. Cottontail rabbits will probably benefit most from the additional cover, but pheasants, quail, grouse and squirrels should also benefit. Another purpose of the plantings was to prevent and stabilize sand blows.

Descriptions and Acreage Planted On Each

NW $\frac{1}{4}$		Sec. 1	T 2 N	R 10 W	14.75 Acres
NE $\frac{1}{4}$		NE $\frac{1}{4}$ Sec. 18	T 3 N	R 9 W	6.25 "
W $\frac{1}{2}$	E $\frac{1}{2}$	SE $\frac{1}{4}$ Sec. 18	T 3 N	R 9 W	8.25 "
E $\frac{1}{2}$		SW $\frac{1}{4}$ Sec. 31	T 3 N	R 9 W	11.75 "
SW $\frac{1}{4}$		Sec. 32	T 3 N	R 9 W	10.25 "
SE $\frac{1}{4}$	SE $\frac{1}{4}$ and strip along S edge of NE $\frac{1}{4}$	SE $\frac{1}{4}$ Sec. 10)			
S $\frac{1}{2}$	SW $\frac{1}{4}$ and strip along S edge of N $\frac{1}{2}$	SW $\frac{1}{4}$ Sec. 11)	T 3 N	R 10 W	6.00 "
SE $\frac{1}{4}$		SE $\frac{1}{4}$ Sec. 12)			
E $\frac{1}{2}$		NE $\frac{1}{4}$ Sec. 13)	T 3 N	R 10 W	16.00 "
W $\frac{1}{2}$		SE $\frac{1}{4}$ Sec. 13	T 3 N	R 10 W	9.50 "
SW $\frac{1}{4}$	N $\frac{1}{2}$	NE $\frac{1}{4}$)			
N $\frac{1}{2}$	S $\frac{1}{2}$	NE $\frac{1}{4}$) Sec. 14	T 3 N	R 10 W	26.00 "
NW $\frac{1}{4}$					
W $\frac{1}{2}$		SW $\frac{1}{4}$ Sec. 14	T 3 N	R 10 W	8.50 "
N-3/4		NE $\frac{1}{4}$ Sec. 23	T 3 N	R 10 W	15.00 "
NW $\frac{1}{4}$		NW $\frac{1}{4}$ Sec. 23	T 3 N	R 10 W	1.75 "
E $\frac{1}{2}$	NE $\frac{1}{4}$ & SW $\frac{1}{4}$	NE $\frac{1}{4}$ Sec. 24	T 3 N	R 10 W	14.50 "
E $\frac{1}{2}$		NW $\frac{1}{4}$ Sec. 24	T 3 N	R 10 W	11.75 "
W $\frac{1}{2}$		NW $\frac{1}{4}$ Sec. 24	T 3 N	R 10 W	9.75 "
NE $\frac{1}{4}$		Sec. 25	T 3 N	R 10 W	14.00 "
SW $\frac{1}{4}$ & W $\frac{1}{2}$		SE $\frac{1}{4}$ Sec. 25	T 3 N	R 10 W	13.75 "
E $\frac{1}{2}$		SE $\frac{1}{4}$ Sec. 26	T 3 N	R 10 W	13.25 "
S-3/4	W $\frac{1}{2}$	NW $\frac{1}{4}$ Sec. 36	T 3 N	R 10 W	6.25 "
SE $\frac{1}{4}$ & W $\frac{1}{2}$		SE $\frac{1}{4}$ Sec. 36	T 3 N	R 10 W	32.00 "
Total Acreage					249.25

Species and Quantity of Stock Planted

Species	Size	Age	Quantity
Norway Pine	6-12" Trans.	1-1	100,000
" "	seedlings	1-0	32,500
Jack Pine	seedlings	1-0	59,500
Scotch Pine	seedlings	2-0	50,000
Black Locust	seedlings	2-0	25,000
Honey Locust	seedlings	1-0	5,000
Total - - - - -			272,000

The Norway and Jack Pine was obtained from the Higgins Lake State Forest Nursery while the Scotch Pine and Locust were obtained from the Michigan State College Forest Nursery in an exchange arranged by the Forestry Division.

Barry County Project (Continued)

Planting Costs

Not including cost of nursery stock, cost of planting or time and travel of Game Area Manager, or Lansing office personnel.

Labor	\$1,043.01
Supervision	109.50
Transportation	<u>87.60</u>
Total- - - - -	\$1,240.11

Cost per acre planted	\$ 4.97
Cost per M trees planted	\$ 4.56

For detailed report see Barry County Planting file.

SUMMARY OF PLANTING PROJECTS
Fall 1940
(continued)

In addition to the projects discussed above, 1,000 Black Cherry and 100 Black Walnut were planted on the Rose Lake Experiment Station.

During the Fall Planting Season of 1940, the Game Division planted a total of 1,023,416 trees and shrubs on 902.9 acres at a cost of \$7,349.13. The average cost per acre planted was \$8.14 and the average cost per thousand trees and shrubs planted was \$7.18. The cost figures given here do not include the time and travel of Lansing Office personnel assigned to the project or the cost of producing the nursery stock, and a few other items for which cost data were not complete would increase the total slightly. The Rose Lake Experiment Station Planting was not considered in the acreage or the cost, but the plants used are included in the total.

L. A. Davenport

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6-22-42