



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7010**

SCHEDULED SALE DATE AND TIME: 3:00 p.m. (local time) on August 23, 2022.

LOCATION: NAUBINWAY DNR FIELD OFFICE, PO BOX 287, US 2 W11569, NAUBINWAY, MI 49762.

CONTACT NAME: Karen Rodock

PHONE NUMBER: (906) 477-6048

PROSPECTUS NOTE: The bidder is advised to inspect the sale area and review the location, estimated volumes, operating costs and contract terms of proposed sales. Please be aware that some landowners may request 60 days or more notice for access across their land.

Notice is hereby given that bids will be received by the Unit Manager, SAULT STE MARIE MANAGEMENT UNIT, for certain timber on the following described lands:

North Miller Mix (45-109-21) / T42N, R06W, SEC. 7 , NENE,S1/2NE.

T42N, R06W, SEC. 8 , S1/2NW,NE.

T42N, R06W, SEC. 9 , NW,S1/2NE,N1/2SW,SWSW,N1/2SE.

Mackinac County, Advertised Price \$41,423.45, 151.5 Acres, Jack Pine, Spruce/Fir/Tamarack.

SALE NOTE: All units of volume listed for this sale were estimated using the Inventory Manager computer program and the new Michigan taper model.

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity.
Certain restrictions/specifications may be applicable including time restrictions.

TIMBER SALE INFORMATION

North Miller Mix (45-109-21)

T42N, R06W, SEC. 7; T42N, R06W, SEC. 8; T42N, R06W, SEC. 9.
Mackinac County (Advertised Price \$41,423.45)

SALE NOTE: All units of volume listed for this sale were estimated using the Inventory Manager computer program and the new Michigan taper model.

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions.

A timber sale contract for this lump sum, sealed bid timber sale will be awarded to the responsible bidder offering the highest sealed bid price. All units of volume listed below were estimated using the Inventory Manager computer program and the new Michigan taper model. Bids must be at or above the following advertised price for each product and species:

<u>PRODUCTS & SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Paper Birch	2.1 MBF	\$ 47.00 / MBF
Red Maple	3.8 MBF	\$ 158.00 / MBF
Pulpwood		
Balsam Fir	42 Cords	\$ 8.10 / Cord
Jack Pine	787 Cords	\$ 20.90 / Cord
Misc. Species 1	26.1 Acres	\$ 11.00 / Acre
Mixed Aspen	384 Cords	\$ 16.60 / Cord
Mixed Hardwood	283 Cords	\$ 10.25 / Cord
Mixed Spruce	367 Cords	\$ 8.40 / Cord
Red Pine	142 Cords	\$ 60.10 / Cord
White Pine	358 Cords	\$ 7.70 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 5.79 percent. There are an estimated 2,392 cords on this timber sale, plus or minus 139 cords at the 95% confidence level. The estimated units are final and not subject to adjustment. Prospective bidders are urged to examine this timber and to make their own estimates of quantity and quality.

BOND AND PAYMENT SCHEDULE:

1. A bond in the amount of \$2,071.17 to insure faithful performance of the conditions of the contract will be deposited by the successful bidder within 21 days of the sale award.
2. Cutting in any sale or unit without the required advance payment would be considered a trespass.
3. Total payment must be paid in advance or according to the following schedule:
 - (a) Ten percent (10%) of the sale value must be paid within 21 days of the sale award.
 - (b) The 10% down payment will be credited towards the first unit cut.
 - (c) Payment for each of the following units must be made before cutting begins in that unit:

<u>PAYMENT UNIT NUMBER</u>	<u>PERCENT OF TOTAL SALE VALUE</u>
01	12.6%
02	8.1%
03	37.4%
04	0.7%
05	10.9%
06	19.7%
07	10.6%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 12/31/2025.

SALE STATISTICS

Volumes were calculated in cubic feet using the Michigan taper model. Cubic foot volume includes all wood inside bark for the product indicated. For display purposes, cubic feet were converted to cords and MBF using a simple conversion factor, e.g. 79 cubic feet per cord and 185 cubic feet per MBF. The cubic foot volumes are precise; the cords and MBF volumes are not. Cubic foot volume cannot be directly converted to cords or boards with precision.

SALE VOLUMES

The total estimated sale volume may not equal the sum of the species/products due to the nature of statistical calculations associated with double sampling methodology.

VOLUME			STATISTICAL RANGE IN CORDS	
TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
188,995	2,392	5.79%	2,254	2,531
26.10 acres are being sold by the acre and do not have cubic foot or cord volumes.				

VDU VOLUMES

A VDU is a Volume Determination Unit. Volumes and their associated statistics are calculated at the VDU level and summarized to the sale level. There is often a one to one relationship between a VDU and a Payment Unit, but not always, depending on the cruise design. Refer to the VDU TO PAYMENT UNIT table.

	VOLUME			RANGE IN CORDS	
VDU	TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
5	24,255	307	14.66%	262	352
15 *			N/A		
19	61,687	781	10.65%	698	864
25	21,055	267	17.60%	220	313
31	30,508	386	7.34%	358	415
50	20,402	258	25.20%	193	323
77	25,782	326	16.88%	271	381
TOTAL:	183,689	2,325		2,002	2,649

* This VDU is being sold by the acre. There are no cruise statistics available.

VDU TO PAYMENT UNIT

When a VDU is associated with more than one Payment Unit (PU), the VDU volumes are assigned to the PU based on acres of the VDU within the PU.

VDU	VDU ACRES	PU	PU ACRES
5	16.0	2	16.0
15	26.1	4	26.1
19	50.0	3	50.0
25	14.8	5	14.8
31	18.8	6	18.8
50	14.0	7	14.0
77	11.8	1	11.8
TOTAL:	151.5		151.5

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Jack Pine	Pulpwood	24	Cords	11.8	\$5,206.20
	Mixed Hardwood		4	Cords		
	<i>Red Maple</i>		4	Cords		
	Mixed Spruce		269	Cords		
	<i>Black Spruce</i>		269	Cords		
	Red Pine		40	Cords		
	<i>Red Pine</i>		40	Cords		
2	Red Maple	Sawtimber	3.8	MBF	16.0	\$3,361.15
	Mixed Aspen	Pulpwood	11	Cords		
	<i>B. T. Aspen</i>		11	Cords		
	Mixed Hardwood		179	Cords		
	<i>Beech</i>		7	Cords		
	<i>Paper Birch</i>		54	Cords		
	<i>Red Maple</i>		118	Cords		
	Mixed Spruce		6	Cords		
	<i>White Spruce</i>		6	Cords		
	White Pine		90	Cords		
3	Jack Pine	Pulpwood	487	Cords	50.0	\$15,498.95
	Mixed Aspen		101	Cords		
	<i>B. T. Aspen</i>		63	Cords		
	<i>Quaking Aspen</i>		38	Cords		
	Mixed Hardwood		5	Cords		
	<i>Black Cherry</i>		5	Cords		
	Red Pine		38	Cords		
	<i>Red Pine</i>	Sawtimber	14.3	MBF		
	<i>Red Pine</i>	Pulpwood	9	Cords		
	White Pine		170	Cords		
4	Misc. Species 1	Pulpwood	26.1	Acres	26.1	\$287.10
5	Paper Birch	Sawtimber	1.0	MBF	14.8	\$4,498.45
	Balsam Fir	Pulpwood	11	Cords		
	Jack Pine		37	Cords		
	Mixed Aspen		144	Cords		
	<i>B. T. Aspen</i>		52	Cords		
	<i>Quaking Aspen</i>		92	Cords		
	Mixed Hardwood		37	Cords		
	<i>Paper Birch</i>		19	Cords		
	<i>Red Maple</i>		18	Cords		
	Mixed Spruce		26	Cords		
	<i>White Spruce</i>		26	Cords		
	Red Pine		10	Cords		
	<i>Red Pine</i>	Sawtimber	4.7	MBF		
	<i>Red Pine</i>	Pulpwood	1	Cords		
6	Jack Pine	Pulpwood	236	Cords	18.8	\$8,179.50
	Mixed Spruce		32	Cords		
	<i>Black Spruce</i>		32	Cords		
	Red Pine		37	Cords		
	<i>Red Pine</i>	Sawtimber	13.3	MBF		
	<i>Red Pine</i>	Pulpwood	10	Cords		
	White Pine		98	Cords		
7	Paper Birch	Sawtimber	1.1	MBF	14.0	\$4,392.10
	Balsam Fir	Pulpwood	31	Cords		
	Jack Pine		3	Cords		
	Mixed Aspen		128	Cords		
	<i>B. T. Aspen</i>		115	Cords		
	<i>Quaking Aspen</i>		13	Cords		

DESCRIPTION OF TIMBER BY PU (PU), CON'T

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE	
7 con't	Mixed Hardwood	Pulpwood	58	Cords			
	Black Cherry		3	Cords			
	Paper Birch		27	Cords			
	Red Maple		28	Cords			
	Mixed Spruce		34	Cords			
	Black Spruce		6	Cords			
	White Spruce		28	Cords			
	Red Pine		17	Cords			
	Red Pine		Sawtimber	7.5			MBF
	Red Pine		Pulpwood	2			Cords
TOTAL:			5.9	MBF			
TOTAL:			2,363	Cords			
TOTAL:			26.1	Acres			

Sale Specific Conditions & Requirements

Sale Name: North Miller Mix

Sale Number: 45-109-21 Seq#: 1

1 - Sale Area

1.2 - Boundaries

1.2.1 - Painted boundaries (9/19)

The sale boundaries are marked and identified by red paint. Exterior sale boundary lines against state are marked with red paint. The interior boundary between Payment Units 3 and 4 is unpainted. See spec 3.6.1 for cutting information.

Retention patches are marked with red paint; no harvesting activities may occur within these areas. The painted boundary line trees are not Included Timber and are to be protected unless marked with orange paint.

2 - Timber Specifications

2.1 - Included Timber

2.1.1 - Clearcut unit(s) with unmerchantable trees (6/14)

Within Payment Unit(s) 1-7, cut all deciduous trees that are 2" or more at DBH and all conifer trees that 4" or more at DBH, except:

- Within Payment Units 1, 5, and 7 do not cut any white pine,
- Within Payment Unit 1 do not cut any red pine,
- Within Payment Unit 3 and 6 do not cut any trees marked with green paint.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within Payment Units 3 and 6 shall not exceed 6 inches for all trees. This is to facilitate planting operations.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) 1-7 may be divided at the request of the Purchaser and upon approval of the Unit Manager. Dividing Payment Units is a contract modification which requires a Timber Sale Contract Amendment. There will be only one division per Payment Unit.

3.6 - Payment Unit Cutting Schedule

3.6.1 - Order of cutting (1/09)

Payment Units 3 and 4 shall be paid for and cut at the same time.

4 - Transportation

4.1 - Construction

4.1.3 - Slash and earthen piles (8/04)

Piles or windrows of earth along roads and landings that have been widened or constructed shall be leveled. Slash from road maintenance or construction, including stumps, shall be dispersed throughout the sale.

4.1.6 - Road construction (1/09)

Construction of new roads or improvements of existing roads shall be done in such a way as to minimize the environmental and visual impacts. Merchantable trees shall be cut and utilized unless otherwise directed. Non-merchantable trees shall be severed and laid flat on the ground. Slash shall be scattered, and not left in windrows and kept a minimum of 10 feet back from the road edge. Stumps shall be set upright, not left on edge, and be moved at least 10 feet away from the road edge. Disturbed soil shall be feathered into the woods and not left in berms or windrows.

4.1.7 - Road closure (10/11)

All new roads built into the sale must be blocked to vehicle traffic upon completion of the sale. All new roads built into the sale must be blocked to vehicle traffic within 30 days of completion of hauling. Overgrown roads that are reopened shall be considered new roads. Some existing roads may also need to be closed, see the Timber Sale Map for locations. In general, this will require constructing a four (4') foot high berm of stumps and logs covered with earth. These roads must be rendered impassable to cars and trucks. Temporary berms may be required if no sale activity occurs for 30 or more consecutive days. Contact the sale administrator for specific details of design and placement.

4.2 - Maintenance

4.2.5 - Two wheel drive condition (2/04)

All existing trail roads on and adjacent to the sale area must be passable by two-wheel drive traffic for the duration of the sale.

5 - Operations

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.8 - Slash height (12/08)

No slash or tree tops may exceed 24 inches in height.

5.2.1.12 - Slash for prescribed burning (1/05)

To facilitate prescribed burning, slash shall be moved at least 20 feet inside the sale boundary for Payment Units 3 and 4. Slash cannot be piled or placed near residual trees.

5.2.2 - Hazard Trees/Snags

5.2.2.1 - Den trees (10/16)

Obvious hollow and/or den trees shall be protected and left standing unless they are a safety hazard.

5.2.4 - Dead and Down Creation

5.2.4.6 - Dead and down creation, other (9/09)

To improve habitat for wildlife, the Purchaser is to leave one brush pile on the ground for every two acres within Payment Units 1, 2, and 7. Piles must be at least 4 feet tall and scattered throughout the Sale Area. Note: Piles can be created by encouraging limbing in piles during normal harvesting procedures.

5.2.32 - Decking/landing restoration (9/13)

All decking and landing areas must have the surface area restored to a condition equal to or better than before. This is to ensure the proper regeneration of the stand. Wood debris, chips, and "cookies" from trimmings must be removed or scattered away from landing and loading areas and may not be windrowed on the edge.

5.2.38 - No decking against live trees (2/04)

Cut products may not be decked against unmarked or designated leave trees.

5.2.39 - ORV trail/route protection (4/18)

The ORV trail or route is shown on the Timber Sale Map. Do not cut trees or damage posts with yellow ORV markers. All stumps within 5 feet of the trail must be cut flush with the ground. Maintain a 20-foot-wide slash, debris, and rut free zone daily using the ORV trail or route as the centerline. Do not run equipment down the ORV trail or route. Skidding across the trail or route may only occur in locations approved by the sale administrator.

5.2.41 - Snowmobile trail protection (9/11)

The snowmobile trail is shown on the Timber Sale Map. Do not cut or damage posts with orange trail markers or traffic control signs. If the trail is used, it must be maintained and restored to a condition equal to or better than before the sale. The road maintenance/restoration must be done prior to December 1. If the trail is used for hauling, it must be graded to the satisfaction of the Unit Manager or his/her representative prior to December 1. If the trail road is to be used for hauling during the snowmobile season, then a snow-covered base must be left on the trail. The snowmobile trail may only be crossed at right angles. Maintain a 20-foot-wide slash, debris, and rut free zone daily using the snowmobile trail as the centerline. No decking of forest products will be permitted along the snowmobile trail. All stumps within 20 feet of the snowmobile trail must be cut at ground level.

5.8 - Protection of Endangered Species

5.8.5 - Protection of raptor nests (3/13)

All trees with raptor nests will be protected if found during harvesting operations. Notification will be made to the Unit Manager or his/her representative who will notify the Wildlife Biologist so an on-site evaluation and recommendation can be made, if necessary.

6 - Safety and Fire Prevention

6.2 - Signing

6.2.2 - Snowmobile trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on the snowmobile trail prior to beginning operations during the snowmobile season (approximately December 1 to March 31). The trail must be posted at appropriate distances from the Sale Area to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. The Purchaser will provide these signs.

6.2.3 - Recreational trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on Miller Road prior to beginning operations. The trail must be posted at appropriate distances from the Sale Area to warn of logging activity and truck traffic at both ends of the trail. Signs must be removed when harvest operations are suspended or completed. The Purchaser will provide these signs.



TIMBER SALE MAP

This information provided by authority of Part 525, 1994 PA 451, as amended.

Sale Number	Year
45-109	21

Forest Management Unit Sault Ste. Marie-Naubinway Office	County Mackinac	Mapped By Plato	Date 09/20/2021	Page 1	of 2
Township 42N	Range 6W	Section(s) and Subdivision(s) Sec. 7, NENE, S1/2NE, SEC. 8, S1/2NW, NE, SEC. 9, NW, S1/2NE, N1/2SW, SWSW, N1/2SE	Scale 1:15,840		

Cover Type

A = Aspen	H = Hemlock	N = Marsh	U = Upland Brush
B = Paper Birch	J = Jack Pine	O = Oak	UM = Upland Mixed
C = Cedar	L = Lowland Brush	P = Lowland Poplar	V = Bog or Marsh
D = Treed Bog	LM = Lowland Mixed	Q = Mixed Swamp Conifer	W = White Pine
E = Swamp Hdwoods	M = Mpl, Bch, Brch	R = Red Pine	X = Non Stocked
F = Spruce Fir	MC = Mixed Conifer	S = Black Spruce	Z = Water
G = Grass	MD = Mixed Deciduous	T = Tamarack	

Density

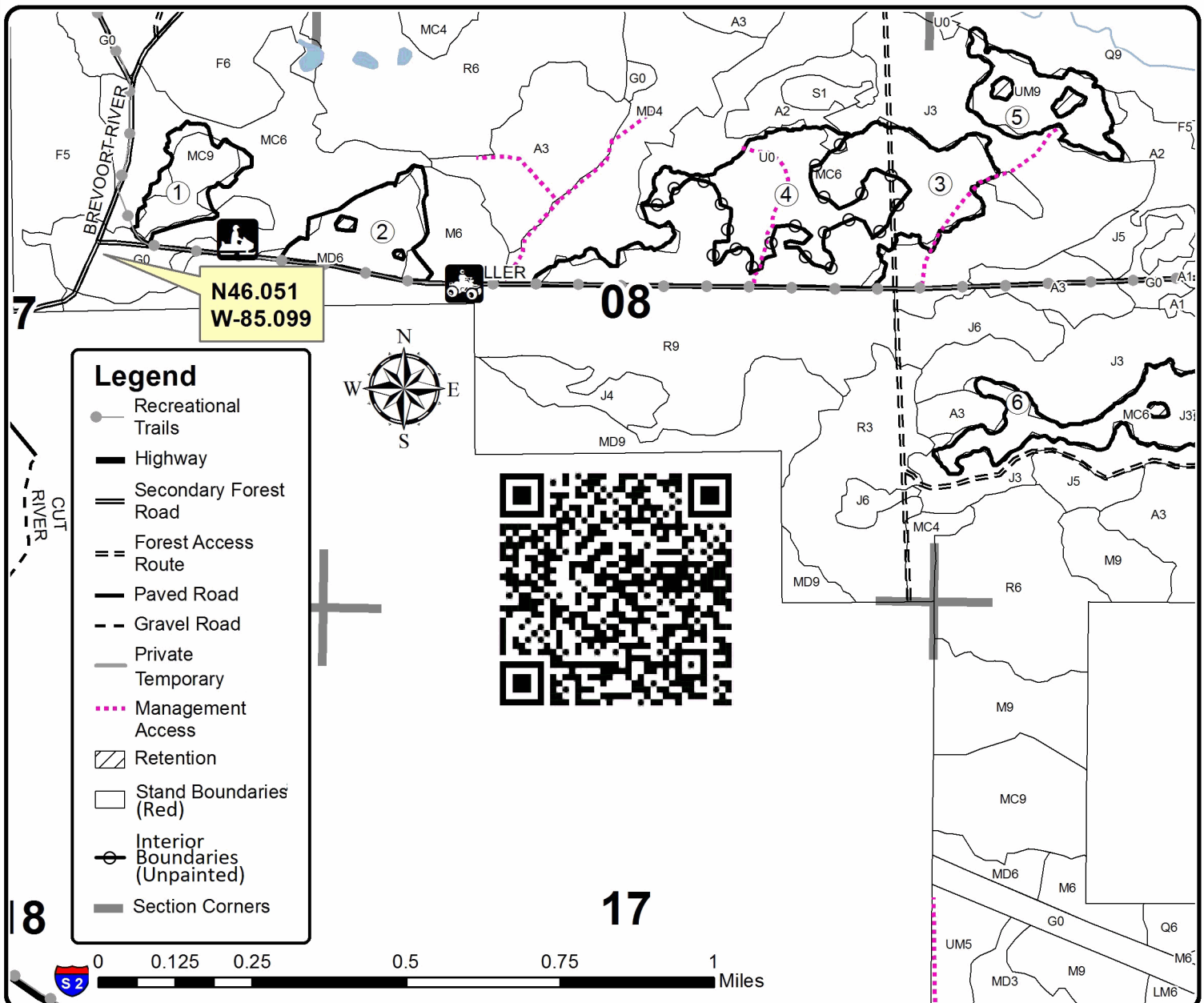
0 = Non Stocked	5 = Pole Timber Medium
1 = Seedling Sapling Poor	6 = Pole Timber Well
2 = Seedling Sapling Medium	7 = Saw Timber Poor
3 = Seedling Sapling Well	8 = Saw Timber Medium
4 = Pole Timber Poor	9 = Saw Timber Well

PU	Acres	PU	Acres	PU	Acres
1	11.8	4	26.1	7	14.0
2	16.0	5	14.8		
3	50.0	6	18.8		

North Miller Mix (West Side)

Compartment 118

151.5 Acres





TIMBER SALE MAP

This information provided by authority of Part 525, 1994 PA 451, as amended.

Sale Number	Year
45-109	21

Forest Management Unit	County	Mapped By	Date	Page	of
Sault Ste. Marie-Naubinway Office	Mackinac	Plato	09/20/2021	2	2
		Cruised By			
		Fanelli			

Township	Range	Section(s) and Subdivision(s)	Scale
42N	6W	Sec. 7, NENE, S1/2NE, SEC. 8, S1/2NW, NE, SEC. 9, NW, S1/2NE, N1/2SW, SWSW, N1/2SE	1:15,840

Cover Type

A = Aspen	H = Hemlock	N = Marsh	U = Upland Brush
B = Paper Birch	J = Jack Pine	O = Oak	UM = Upland Mixed
C = Cedar	L = Lowland Brush	P = Lowland Poplar	V = Bog or Marsh
D = Treed Bog	LM = Lowland Mixed	Q = Mixed Swamp Conifer	W = White Pine
E = Swamp Hdwoods	M = Mpl, Bch, Brch	R = Red Pine	X = Non Stocked
F = Spruce Fir	MC = Mixed Conifer	S = Black Spruce	Z = Water
G = Grass	MD = Mixed Deciduous	T = Tamarack	

Density

0 = Non Stocked	5 = Pole Timber Medium
1 = Seedling Sapling Poor	6 = Pole Timber Well
2 = Seedling Sapling Medium	7 = Saw Timber Poor
3 = Seedling Sapling Well	8 = Saw Timber Medium
4 = Pole Timber Poor	9 = Saw Timber Well

PU	Acres	PU	Acres	PU	Acres
1	11.8	4	26.1	7	14.0
2	16.0	5	14.8		
3	50.0	6	18.8		

North Miller Mix (East Side)

Compartment 118

151.5 Acres

