



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7288**

SCHEDULED SALE DATE AND TIME: 3:00 p.m. (local time) on September 26, 2023.

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:

Patches O'Spruceihan (45-104-23) / T43N, R06W, SEC. 11, S1/2SW,SWSE.

T43N, R06W, SEC. 14, N1/2NW,SENW,W1/2NE,NESW,NWSE.

Mackinac County, Advertised Price \$40,102.95, 66.7 Acres, Red Pine, Spruce/Fir/Tamarack.

SALE NOTE: 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

Patches O'Spruceihan (45-104-23)

T43N, R06W, SEC. 11; T43N, R06W, SEC. 14.

Mackinac County (Advertised Price \$40,102.95)

SALE NOTE: 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	11.0 MBF	\$ 53.00 / MBF
Red Maple	1.2 MBF	\$ 174.00 / MBF
Yellow Birch	1.1 MBF	\$ 94.00 / MBF
Pulpwood		
Balsam Fir	61 Cords	\$ 14.40 / Cord
Hemlock	3 Cords	\$ 10.25 / Cord
Jack Pine	8 Cords	\$ 38.85 / Cord
Mixed Aspen	14 Cords	\$ 33.95 / Cord
Mixed Hardwood	69 Cords	\$ 16.55 / Cord
Mixed Spruce	701 Cords	\$ 13.20 / Cord
N. White Cedar	23 Cords	\$ 3.75 / Cord
Paper Birch	73 Cords	\$ 9.15 / Cord
Red Pine	239 Cords	\$ 108.35 / Cord
Tamarack	103 Cords	\$ 1.90 / Cord
White Pine	12 Cords	\$ 22.65 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 17.96 percent. There are an estimated 1,368 cords on this timber sale, plus or minus 246 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 \$4,010.30 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	9.9%
02	14.1%
03	11.1%
04	7.0%
05	57.9%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2028.

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
108,071	1,368	17.96%	1,122	1,614

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
20	21,702	275	36.61%	174	375
27	28,641	363	29.99%	254	471
29	21,966	278	26.01%	206	350
32	17,280	219	39.69%	132	306
36	18,484	234	77.27%	53	415
TOTAL:	108,071	1,368		819	1,917

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
20	14.4	1	14.4
27	17.0	3	17.0
29	23.0	2	23.0
32	8.0	4	8.0
36	4.3	5	4.3
TOTAL:	66.7		66.7

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Paper Birch	Sawtimber	7.2	MBF	14.4	\$3,968.40
	Red Maple		1.2	MBF		
	Yellow Birch		1.1	MBF		
	Balsam Fir	Pulpwood	40	Cords		
	Hemlock		3	Cords		
	Mixed Aspen		11	Cords		
	Quaking Aspen		11	Cords		
	Mixed Hardwood		51	Cords		
	Red Maple		47	Cords		
	Yellow Birch		4	Cords		
	Mixed Spruce		77	Cords		
	Black Spruce		45	Cords		
	White Spruce		32	Cords		
	N. White Cedar		23	Cords		
	Paper Birch		38	Cords		
2	Balsam Fir	Pulpwood	7	Cords	23.0	\$5,642.40
	Jack Pine		8	Cords		
	Mixed Aspen		3	Cords		
	Balsam Poplar		1	Cords		
	Quaking Aspen		2	Cords		
	Mixed Spruce		175	Cords		
	Black Spruce		170	Cords		
	White Spruce		5	Cords		
	Red Pine		25	Cords		
	Red Pine		25	Cords		
	Tamarack		58	Cords		
	3		Mixed Hardwood	Pulpwood		
Red Maple		15	Cords			
Mixed Spruce		289	Cords			
Black Spruce		281	Cords			
White Spruce		8	Cords			
Paper Birch		2	Cords			
Tamarack		45	Cords			
White Pine		12	Cords			
4	Paper Birch	Sawtimber	3.8	MBF	8.0	\$2,816.95
	Balsam Fir	Pulpwood	14	Cords		
	Mixed Spruce		160	Cords		
	Black Spruce		160	Cords		
	Paper Birch		33	Cords		
5	Mixed Hardwood	Pulpwood	3	Cords	4.3	\$23,236.55
	Red Maple		3	Cords		
	Red Pine		214	Cords		
	Red Pine	Sawtimber	79.7	MBF		
	Red Pine	Pulpwood	55	Cords		
TOTAL:			13.3	MBF		
TOTAL:			1,306	Cords		

Sale Specific Conditions & Requirements

Sale Name: Patches O'Spruceihan

Sale Number: 45-104-23 Seq#: 1

1 - Sale Area

1.2 - Boundaries

1.2.1 - Painted boundaries (9/19)

The sale boundary and Payment Unit boundaries are marked and identified by red and yellow paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. 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. Yellow painted trees designating an interior Payment Unit boundary are only to be cut when all surrounding Payment Units have been paid.

2 - Timber Specifications

2.1 - Included Timber

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

Within Payment Unit(s) 1-4, cut all deciduous trees that are two (2) inches or more at DBH and conifers that are four (4) inches or more at DBH, except do not cut trees marked with green paint.

Within Payment Unit 5, cut all trees that are one (1) inch or more at DBH.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within Payment Unit 5 shall not exceed 6 inches for all trees. This is in order to facilitate planting operations.

4 - Transportation

4.1 - Construction

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. Overgrown roads that are reopened shall be considered new roads. 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.

4.2 - Maintenance

4.2.3 - Road maintenance (8/13)

The following road maintenance is required: within 60 days of completion of hauling, or if no hauling occurs for 60 days, the road must be maintained and graded. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. Damages will be assessed if grading/repair does not occur.

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

5.2.1.11 - Slash for reforestation (3/21)

Within Payment Unit 5, chipping is encouraged as it is the most effective and efficient way to mitigate slash for reforestation. Other tactics to mitigate slash for site preparation would need to be approved by the Unit Manager or his/her representative.

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.

5.2.3 - Operating Restrictions

5.2.3.1 - Operating restrictions (9/11)

Within Payment Unit(s) 1-4, unless changed by written agreement, cutting, skidding, and hauling are limited to the period of December 1 to March 31 or during dry summer conditions. Operations during summer months must be approved by the administering forester or Unit Manager. This restriction is because of wet ground conditions.

5.2.4 - Dead and Down Creation

5.2.4.2 - Dead and down creation, hare and grouse (1/14)

To improve habitat for snowshoe hare, grouse, and other species, the Purchaser is to leave one brush pile on the ground for every two acres within Payment Units 2-4. 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)

M and A routes (Carp River Truck Trail) are ORV trails or routes and are shown on the Timber Sale Map. Do not cut trees or damage posts with yellow ORV markers. Maintain a 20-foot-wide slash, debris, and rut free zone daily using the ORV trail or route as the centerline.

5.2.41 - Snowmobile trail protection (9/11)

Trails 2 and 473 are snowmobile trails and are 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. 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. 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.

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

6.2.1 - Road posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on the Carp River Truck Trail and JT Camp Road prior to beginning operations. The road 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.

6.2.2 - Snowmobile trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on Trail 2 and 473 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 Brevort-Trout Lake Motorcycle Trail (BTM) East 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.*

Forest Management Unit Sault Ste. Marie		County Mackinac	Mapped By Plato	Date 06/01/2023	Page 1	of 1
Township 43N	Range 06W	Section(s) and Subdivision(s) Sec. 11 S1/2SW,SWSE Sec. 14 N1/2NW,SENW,W1/2NE,NESW,NWSE		Cruised By Contractor	Scale 1:15,840	

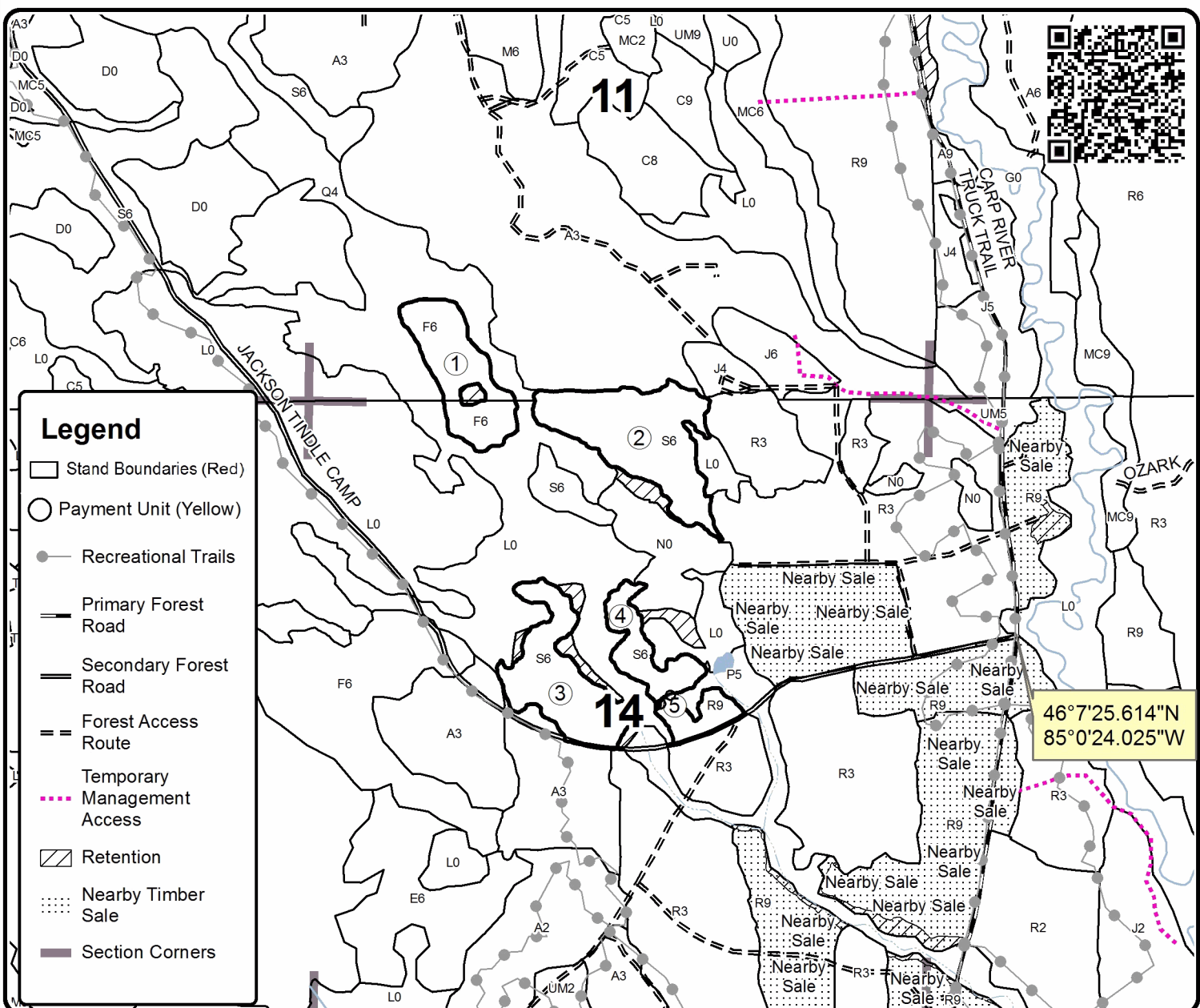
Cover Type

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
1	14.4	4	8.0
2	23.0	5	4.3
3	17.0		

Patches O'Spruceihan**Compartment 106/107****66.7 Acres**

0 0.125 0.25 0.5 0.75 1 Miles