



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6960

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on December 9, 2021.**

LOCATION: **BARAGA MGMT UNIT, 427 US 41 NORTH, BARAGA, MI 49908.**

CONTACT NAME: Brad Carlson

PHONE NUMBER: (906) 353-6651

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, BARAGA MANAGEMENT UNIT, for certain timber on the following described lands:

Maverick 21 (11-021-21) / T52N, R36W, SEC. 35, E1/2NE, SESW, SE.

T52N, R36W, SEC. 36, W1/2NW, NWSW.

Houghton County, Advertised Price \$8,240.30, 125.0 Acres, Hardwood, 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.

Note that this sale was prepared in 2017 some of the paint marks may be faded. If remarking is needed for operational purposes it will be the responsibility of the Purchaser. Also, this is a short term contract and no extensions will be granted.

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. Access may be through private land.

TIMBER SALE INFORMATION

Maverick 21 (11-021-21)

T52N, R36W, SEC. 35; T52N, R36W, SEC. 36.
Houghton County (Advertised Price \$8,240.30)

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

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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. Access may be through private land.

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		
Red Maple	35.1 MBF	\$ 65.00 / MBF
Sugar Maple	18.9 MBF	\$ 154.00 / MBF
Yellow Birch	1.2 MBF	\$ 29.00 / MBF
Pulpwood		
Balsam Fir	87 Cords	\$ 2.85 / Cord
Hemlock	4 Cords	\$ 2.75 / Cord
Mixed Hardwood	567 Cords	\$ 4.30 / Cord
Quaking Aspen	17 Cords	\$ 9.95 / Cord
White Spruce	46 Cords	\$ 3.20 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 10.85 percent. There are an estimated 857 cords on this timber sale, plus or minus 93 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 \$700.00 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	26.7%
02	14.5%
03	20.6%
04	25.7%
05	12.5%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2023.

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
67,728	857	10.85%	764	950

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
1	51,115	647	13.37%	561	734
2	14,565	184	14.48%	158	211
TOTAL:	65,681	831		718	945

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
1	109.0	2	21.8
		3	30.7
		4	37.8
		5	18.7
2	16.0	1	16.0
TOTAL:	125.0		125.0

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE		
1	Red Maple	Sawtimber	11.2	MBF	16.0	\$2,205.65		
	Sugar Maple		4.7	MBF				
	Mixed Hardwood	Pulpwood	133	Cords				
	Red Maple		75	Cords				
	Sugar Maple		58	Cords				
	Quaking Aspen		17	Cords				
	White Spruce		4	Cords				
2	Red Maple	Sawtimber	4.8	MBF	21.8	\$1,195.60		
	Sugar Maple		2.8	MBF				
	Yellow Birch		0.2	MBF				
	Balsam Fir	Pulpwood	17	Cords				
	Hemlock		1	Cords				
	Mixed Hardwood		86	Cords				
	Red Maple		57	Cords				
	Sugar Maple		24	Cords				
	Yellow Birch		5	Cords				
	White Spruce		8	Cords				
3	Red Maple	Sawtimber	6.7	MBF	30.7	\$1,697.20		
	Sugar Maple		4.0	MBF				
	Yellow Birch		0.3	MBF				
	Balsam Fir	Pulpwood	25	Cords				
	Hemlock		1	Cords				
	Mixed Hardwood		122	Cords				
	Red Maple		81	Cords				
	Sugar Maple		34	Cords				
	Yellow Birch		7	Cords				
	White Spruce		12	Cords				
4	Red Maple	Sawtimber	8.3	MBF	37.8	\$2,113.85		
	Sugar Maple		5.0	MBF				
	Yellow Birch		0.5	MBF				
	Balsam Fir	Pulpwood	30	Cords				
	Hemlock		1	Cords				
	Mixed Hardwood		152	Cords				
	Red Maple		100	Cords				
	Sugar Maple		42	Cords				
	Yellow Birch		10	Cords				
	White Spruce		15	Cords				
5	Red Maple	Sawtimber	4.1	MBF	18.7	\$1,028.00		
	Sugar Maple		2.4	MBF				
	Yellow Birch		0.2	MBF				
	Balsam Fir	Pulpwood	15	Cords				
	Hemlock		1	Cords				
	Mixed Hardwood		74	Cords				
	Red Maple		49	Cords				
	Sugar Maple		21	Cords				
	Yellow Birch		4	Cords				
	White Spruce		7	Cords				
TOTAL:			55.2	MBF				
TOTAL:			721	Cords				

Sale Specific Conditions & Requirements

Sale Name: Maverick 21

Sale Number: 11-021-21 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 blue and red paint. Exterior sale boundary lines against private property are marked with blue paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with red paint. The painted boundary line trees are not Included Timber and are to be protected unless marked with orange paint. Red 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

2.1.3 - Cut tree marked unit(s) (12/08)

Within Payment Unit(s) 1-5, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability.

2.1.11 - Description of timber note (2/04)

Note that this sale was prepared in 2017 some of the paint marks may be faded. If remarking is needed for operational purposes it will be the responsibility of the Purchaser.

2.2 - Utilization

2.2.1 - Utilization (2/04)

All listed board foot volumes of sawlog size products in this contract have been determined using a top diameter inside bark of 10 inches.

2.2.3 - Stump heights (4/07)

Stump heights within the Sale Area shall not exceed 12 inches for trees greater than 10 inches at DBH and 4 inches for trees smaller than 10 inches at DBH. A written waiver of this requirement may be obtained if wet summer weather makes winter logging necessary.

2.2.4 - Skidding length (2/14)

Skidding of unlimbed tops or lengths over 17 feet is not permissible unless approved by the Unit Manager or his/her representative. Skidding of lengths over 17 feet is permissible if the timber sale administrator approves the method and machinery used. If at any point damage exceeds specification 3.4.1, all the remaining wood must be skid in lengths less than 17 feet.

2.2.7 - Uncut designated trees (2/04)

Liquidated damages of \$10.00 per tree will be assessed for every marked tree not cut.

2.2.8 - Utilization and removal (5/14)

All products meeting standards set forth in General Condition and Requirement 2.2 - Utilization must be removed from the Sale Area. This is because excessive woody debris inhibits regeneration.

2.2.10 - No chipping tops and limbs (8/16)

Within Payment Unit(s) 1-5, chipping of the bole, 2-inches in diameter or greater, is allowed. Limbs and the remaining top must be left on site and scattered.

2.3 - Log Rule

2.3.1 - Log rule (12/08)

All board foot volumes of sawlog size products in this contract have been determined by the Scribner Decimal C Log Rule.

3 - Payments

3.4 - Damaged Timber

3.4.1 - Damaged timber (7/16)

General Condition and Requirement 3.4 Damaged Timber, defines liquidated damages for undesignated live merchantable trees which are cut or injured. In addition, extreme care should be taken to avoid damage to tree seedlings and saplings.

4 - Transportation

4.1 - Construction

4.1.1 - Stream crossings, general (3/11)

All stream crossing structures will be temporary and therefore, shall be provided by the Purchaser, and must be removed upon completion of the sale. All permits for stream crossings will be provided by the DNR for crossing located on state land.

4.1.5 - Culverts (5/14)

Roads may require the installation of culverts for cross drainage or at natural drainage-ways. If culverts are needed in these locations, their placement will be specified by the sale administrator and they shall be installed prior to hauling. The culverts shall be new, corrugated metal or plastic gauge. Culverts will be a minimum of 12 inches in diameter and 24 feet in length. If culverts are removed, fill shall be removed from wetland soils as specified. Soils shall be maintained and left in a non-erodible condition, with water bars, seed, fertilizer, mulch, and slash installed as directed by the sale administrator, and as specified in the BMP manual. Stream crossing permits, if needed, will be obtained by the DNR for crossings located on state land.

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, be chipped, utilized, or otherwise removed from the sale. 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. Contact the sale administrator for specific details of design and placement.

4.2 - Maintenance

4.2.2 - Fill material (4/07)

To maintain roads, fill material may be needed in areas where "holes" exist or may be expected to develop. This fill material should be placed before trucking begins. Contact the sale administrator regarding the availability of onsite sand or gravel from adjacent State-owned lands.

4.2.4 - Grading (10/16)

For completion of the sale, state forest roads must be graded. In general, this will require a road grader or bulldozer to shape up the roads after forest products have been hauled off site. This includes cleaning of drainage areas, grading, crowning, and filling with gravel, if necessary. The grading equipment to be used must be approved by the Unit Manager or his/her representative.

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.

4.4 - Access

4.4.1 - Private property access (3/11)

Permission for access across private land is the responsibility of the Purchaser. Should the Purchaser desire to cross private land, a copy of the written permission from the private land-owner may be required by the DNR.

5 - Operations

5.2 - Conduct of Operations

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

5.2.3.2 - Operating restrictions (9/11)

Within Payment Unit(s) 1-5, unless changed by written agreement, all cleanup activities must be completed by July 1 for all the harvest areas that were completed during the last harvest season. This restriction is to allow the cleanup areas to revegetate before the dry season.

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 1-5, unless changed by written agreement, cutting and skidding are not permitted during the period of April 15 to July 15. This restriction is because of bark slippage.

5.2.30 - Landing/road top soil protection (2/15)

Top soil on new landings and new roads must be removed, stockpiled and saved. Upon completion of the timber sale, soil must be evenly distributed back over the area for revegetation. In addition, the area must be seeded and mulched per instructions of the sale administrator.

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

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

5.2.41 - Snowmobile trail protection (9/11)

The Alston Trail is a snowmobile trail and 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. No decking of forest products will be permitted along the snowmobile trail.

5.4 - Soil Protection

5.4.1 - Rutting restriction, general (7/16)

Operations are to cease immediately if equipment and weather conditions result in rutting of roads and/or skid trails which is 12 inches or greater in depth and 50 feet in length. The Unit Manager or his/her representative may restrict hauling and/or skidding if ruts exceed the specified depth. With the Unit Manager or his/her representative's approval, the Purchaser may return to the area when the risk of rutting has decreased.

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 Alston Trail 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 the Alston 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.

7 - Other Conditions

7.2 - Extensions

7.2.2 - No extensions (3/09)

There will be no extensions granted on this contract due to the age of the paint and the rotation ages of other stands in the area.



TIMBER SALE MAP

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

Sale Number

11-021

Year

21

Forest Management Unit
BaragaCounty
HoughtonMapped By Carlson
Cruised By Mattila

Date

8/10/2021

Page

1

of
1Township
52NRange
36WSection(s) and Subdivision(s)
Sec 35 - E1/2NE, SESW, SE; Sec 36 - W1/2NW, NWSW

Scale

1:15,840

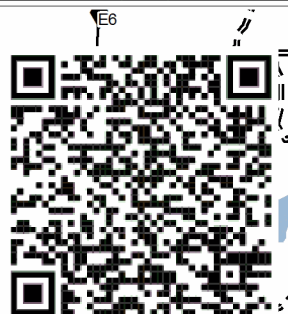
Cover Type

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

Maverick 21						
Houghton County, Compartment 53						
UNIT	1	2	3	4	5	TOTALS
ACRES	16	21.8	30.7	37.8	18.7	125.0
Sawlogs MBF						
Red Maple	11.2	4.8	6.7	8.3	4.1	35.1
Sugar Maple	4.7	2.8	4.0	5.0	2.4	18.9
Yellow Birch	0.0	0.2	0.3	0.5	0.2	1.2
TOTAL	15.9	7.8	11.0	13.8	6.7	55.2
Pulpwood CORDS						
Balsam Fir	0	17	25	30	15	87
Hemlock	0	1	1	1	1	4
Mixed Aspen	17	0	0	0	0	17
Mixed Hardwood	133	86	122	152	74	567
Mixed Spruce	4	8	12	15	7	46
TOTAL	154	112	160	198	97	721



Legend



Snowmobile Trails



Against State (Red)



Payment Unit (Red)



Private Line (Blue)



Survey Corners



Primary Forest Road



Forest Access Route



County Road - Seasonal



Private

Streams

Type



Intermittent Stream



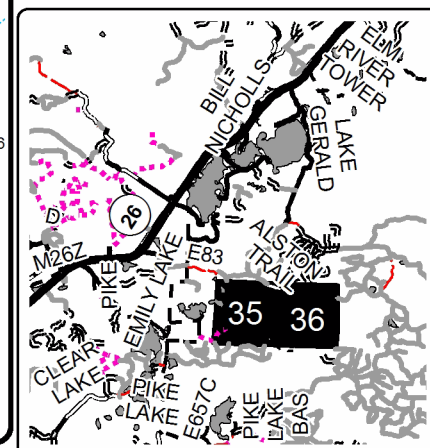
Perennial River



Lakes and Rivers

Locator Map

1:200,000



0 0.125 0.25 0.5 0.75 1 Miles