



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6991

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on February 10, 2022.**

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:

Road Block Mix (11-008-22) / T49N, R32W, SEC. 10, SENW,NWNE,S1/2NE.

T49N, R32W, SEC. 11, S1/2NE,E1/2SW,N1/2SE,SWSE.

Baraga County, Advertised Price \$15,575.55, 133.2 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.

Access may be through private land.

TIMBER SALE INFORMATION

Road Block Mix (11-008-22)

T49N, R32W, SEC. 10; T49N, R32W, SEC. 11.

Baraga County (Advertised Price \$15,575.55)

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

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		
Black Cherry	11.3 MBF	\$ 31.00 / MBF
Paper Birch	8.0 MBF	\$ 23.00 / MBF
Red Maple	3.7 MBF	\$ 77.00 / MBF
Sugar Maple	47.8 MBF	\$ 165.00 / MBF
Yellow Birch	2.2 MBF	\$ 30.00 / MBF
Pulpwood		
Balsam Fir	93 Cords	\$ 2.95 / Cord
Mixed Hardwood	1,232 Cords	\$ 4.50 / Cord
Mixed Spruce	286 Cords	\$ 3.25 / Cord
Paper Birch	15 Cords	\$ 3.70 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 4.88 percent. There are an estimated 1,837 cords on this timber sale, plus or minus 90 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 \$1,400.00 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	16.9%
02	14.4%
03	10.1%
04	20.0%
05	38.6%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2026.

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.

<u>VOLUME</u>		<u>STATISTICAL RANGE IN CORDS</u>		
<u>TOTAL CUBIC FEET</u>	<u>TOTAL CORDS</u>	<u>PERCENT ERROR</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>
145,158	1,837	4.88%	1,748	1,927

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	38,897	492	8.43%	451	534
2	38,343	485	8.63%	443	527
3	27,734	351	12.80%	306	396
4	13,095	166	15.48%	140	191
5	21,892	277	13.23%	240	314
TOTAL:	139,961	1,772		1,581	1,962

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	32.3	1	32.3
2	35.5	2	35.5
3	11.1	3	11.1
4	17.9	4	17.9
5	36.4	5	36.4
TOTAL:	133.2		133.2

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Black Cherry	Sawtimber	1.4	MBF	32.3	\$2,632.50
	Paper Birch		3.7	MBF		
	Sugar Maple		3.2	MBF		
	Balsam Fir	Pulpwood	65	Cords		
	Mixed Hardwood		357	Cords		
	<i>Black Cherry</i>		32	<i>Cords</i>		
	<i>Red Maple</i>		144	<i>Cords</i>		
	<i>Sugar Maple</i>		129	<i>Cords</i>		
	<i>Yellow Birch</i>		52	<i>Cords</i>		
	Mixed Spruce		49	Cords		
	<i>White Spruce</i>		49	<i>Cords</i>		
	Paper Birch		5	Cords		
2	Paper Birch	Sawtimber	1.3	MBF	35.5	\$2,247.95
	Red Maple		2.4	MBF		
	Balsam Fir	Pulpwood	4	Cords		
	Mixed Hardwood		387	Cords		
	<i>Black Cherry</i>		109	<i>Cords</i>		
	<i>Red Maple</i>		129	<i>Cords</i>		
	<i>Sugar Maple</i>		136	<i>Cords</i>		
	<i>Yellow Birch</i>		13	<i>Cords</i>		
	Mixed Spruce		85	Cords		
	<i>Black Spruce</i>		18	<i>Cords</i>		
	<i>White Spruce</i>		67	<i>Cords</i>		
	Paper Birch		1	Cords		
3	Black Cherry	Sawtimber	5.5	MBF	11.1	\$1,575.10
	Balsam Fir	Pulpwood	17	Cords		
	Mixed Hardwood		239	Cords		
	<i>Black Cherry</i>		29	<i>Cords</i>		
	<i>Red Maple</i>		166	<i>Cords</i>		
	<i>Sugar Maple</i>		41	<i>Cords</i>		
	<i>Yellow Birch</i>		3	<i>Cords</i>		
	Mixed Spruce		79	Cords		
	<i>Black Spruce</i>		60	<i>Cords</i>		
	<i>White Spruce</i>		19	<i>Cords</i>		
	Paper Birch		6	Cords		
4	Black Cherry	Sawtimber	0.7	MBF	17.9	\$3,109.55
	Paper Birch		1.4	MBF		
	Red Maple		1.3	MBF		
	Sugar Maple		14.5	MBF		
	Yellow Birch		2.2	MBF		
	Balsam Fir	Pulpwood	7	Cords		
	Mixed Hardwood		71	Cords		
	<i>Black Cherry</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		21	<i>Cords</i>		
	<i>Sugar Maple</i>		37	<i>Cords</i>		
	<i>Yellow Birch</i>		12	<i>Cords</i>		
	Mixed Spruce		46	Cords		
	<i>Black Spruce</i>		17	<i>Cords</i>		
	<i>White Spruce</i>		29	<i>Cords</i>		
	Paper Birch		2	Cords		
5	Black Cherry	Sawtimber	3.7	MBF	36.4	\$6,010.45
	Paper Birch		1.6	MBF		
	Sugar Maple		30.1	MBF		
	Mixed Hardwood	Pulpwood	178	Cords		
	<i>Black Cherry</i>		31	<i>Cords</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	Red Maple	Pulpwood	30	Cords		
	Sugar Maple		112	Cords		
	Yellow Birch		5	Cords		
	Mixed Spruce		27	Cords		
	White Spruce		27	Cords		
	Paper Birch		1	Cords		
TOTAL:			73.0	MBF		
TOTAL:			1,626	Cords		

Sale Specific Conditions & Requirements

Sale Name: Road Block Mix

Sale Number: 11-008-22 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

2.1.2 - Clearcut unit(s) w/o unmerchantable trees (8/11)

Within Payment Unit(s) 3, cut all trees which meet minimum piece specifications in 2.2 Utilization, except red oak, hemlock, cedar, and white pine. Also, all yellow birch and maple trees that are 22" at DBH and larger shall not be harvested.

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

Within Payment Unit(s) 1, 2, 4 and 5, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability.

2.2 - Utilization

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.

2.2.4 - Skidding length (2/14)

Skidding of unlimbed tops or lengths over 17 feet is not permissible in Payment Units 1, 2, 4 and 5 unless approved by the Unit Manager or his/her representative.

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.

2.3 - 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 crossings 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.

4.4 - 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 work must be completed by June 15 for harvest areas completed during previous operating 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, 2, 4 and 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.

5.2.32 - 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.

5.4 - 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 Celotex 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.



TIMBER SALE MAP

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

Sale Number	Year
11-008	2022

Forest Management Unit Baraga	County Baraga	Mapped By Carlson	Date 10/25/21	Page 1	of 1
Township 49N	Range 32W	Section(s) and Subdivision(s) Sec 10 - SENW, NWNE, S1/2NE; Sec 11 - S1/2NE, E1/2SW, N1/2SE, SWSE	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

Road Block Mix

Baraga County, Compartment 15

UNIT	1	2	3	4	5	TOTALS
ACRES	32.3	35.5	11.1	17.9	36.4	133.2

Sawlogs MBF

Black Cherry	1.4	0.0	5.5	0.7	3.7	11.3
Paper Birch	3.7	1.3	0.0	1.4	1.6	8.0
Red Maple	0.0	2.4	0.0	1.3	0.0	3.7
Sugar Maple	3.2	0.0	0.0	14.5	30.1	47.8
Yellow Birch	0.0	0.0	0.0	2.2	0.0	2.2
TOTAL	8.3	3.7	5.5	20.1	35.4	73.0

Pulpwood CORDS

Balsam Fir	65	4	17	7	0	93
Mixed Hardwood	357	387	239	71	178	1232
Mixed Spruce	49	85	79	46	27	286
Paper Birch	5	1	6	2	1	15
TOTAL	476	477	341	126	206	1626

Legend

- ◆ Survey Corners
- = = Forest Access Route
- - Primary Forest Road
- - County Road - Seasonal
- ▨ Nearby Timber Sales
- Lakes and Rivers
- Against State (Red)
- Payment Unit (Red)
- Private Line (Blue)

