



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7093**

**SCHEDULED SALE DATE AND TIME: 9:00 a.m. (local time) on August 25, 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:

Moose Mountain (11-022-21) / T48N, R31W, SEC. 10, W1/2SW.

T48N, R31W, SEC. 15, W1/2NW,NWSW.

Baraga County, Advertised Price \$8,528.25, 80.3 Acres, Aspen, Hardwood.

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

This sale originally received zero bids on it's initial offering.

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

Moose Mountain (11-022-21)

T48N, R31W, SEC. 10; T48N, R31W, SEC. 15.

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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 &amp; SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Black Ash	8.6 MBF	\$ 5.00 / MBF
Paper Birch	8.6 MBF	\$ 17.00 / MBF
Red Maple	28.9 MBF	\$ 28.00 / MBF
Sugar Maple	41.5 MBF	\$ 55.00 / MBF
Yellow Birch	12.8 MBF	\$ 9.00 / MBF
Pulpwood		
Balsam Fir	51 Cords	\$ 1.50 / Cord
Basswood	10 Cords	\$ 1.20 / Cord
Mixed Aspen	289 Cords	\$ 5.80 / Cord
Mixed Hardwood	1,501 Cords	\$ 2.05 / Cord
Mixed Spruce	42 Cords	\$ 2.20 / Cord
Paper Birch	165 Cords	\$ 1.20 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 5.35 percent. There are an estimated 2,331 cords on this timber sale, plus or minus 125 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 \$600.00 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	57.5%
02	42.5%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2025.

### **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
184,153	2,331	5.35%	2,206	2,456

## 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	169,420	2,145	5.49%	2,027	2,262
2	14,732	186	22.02%	145	228
<b>TOTAL:</b>	<b>184,153</b>	<b>2,331</b>		<b>2,172</b>	<b>2,490</b>

## 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	74.2	1	45.0
		2	29.2
2	6.1	2	6.1
<b>TOTAL:</b>	<b>80.3</b>		<b>80.3</b>

**DESCRIPTION OF TIMBER BY PU (PU)**

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Black Ash	Sawtimber	5.2	MBF	45.0	\$4,905.15
	Paper Birch		5.2	MBF		
	Red Maple		16.2	MBF		
	Sugar Maple		25.2	MBF		
	Yellow Birch		6.8	MBF		
	Balsam Fir		27	Cords		
	Basswood		6	Cords		
	Mixed Aspen		171	Cords		
	<i>B. T. Aspen</i>		75	<i>Cords</i>		
	<i>Quaking Aspen</i>		96	<i>Cords</i>		
	Mixed Hardwood		825	Cords		
	<i>Black Ash</i>		49	<i>Cords</i>		
	<i>Red Maple</i>		280	<i>Cords</i>		
	<i>Sugar Maple</i>		358	<i>Cords</i>		
	<i>Yellow Birch</i>		138	<i>Cords</i>		
	Mixed Spruce		20	Cords		
	<i>Black Spruce</i>		10	<i>Cords</i>		
	<i>White Spruce</i>		10	<i>Cords</i>		
	Paper Birch		96	Cords		
	2		Black Ash	Sawtimber		
Paper Birch		3.4	MBF			
Red Maple		12.7	MBF			
Sugar Maple		16.3	MBF			
Yellow Birch		6.0	MBF			
Balsam Fir		24	Cords			
Basswood		4	Cords			
Mixed Aspen		118	Cords			
<i>B. T. Aspen</i>		49	<i>Cords</i>			
<i>Quaking Aspen</i>		69	<i>Cords</i>			
Mixed Hardwood		676	Cords			
<i>Black Ash</i>		31	<i>Cords</i>			
<i>Red Maple</i>		269	<i>Cords</i>			
<i>Sugar Maple</i>		271	<i>Cords</i>			
<i>Yellow Birch</i>		105	<i>Cords</i>			
Mixed Spruce		22	Cords			
<i>Black Spruce</i>		7	<i>Cords</i>			
<i>White Spruce</i>		15	<i>Cords</i>			
Paper Birch		69	Cords			
TOTAL:			100.4		MBF	
TOTAL:			2,058	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: Moose Mountain**

**Sale Number: 11-022-21 Seq#: 3**

### **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. 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) 1 and 2, cut all trees which meet minimum piece specifications in 2.2 Utilization, except red maple, sugar maple, and yellow birch that are 22" or larger at DBH. Also retain all hemlock, oak, cedar, and white pine.

#### **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.

#### **2.3 - 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 owned 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 owned 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 and 2, unless changed by written agreement, all clean-up activities must be completed by 6/15 for areas that were harvested during previous operating season. This restriction is to allow the area to revegetate before the dry season.

#### 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.

#### 5.2.41 - Snowmobile trail protection (9/11)

Trail UP 8 is a snowmobile trail that may be used for hauling if the sale is accessed from the north. 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. Hauling may only occur Monday thru Thursday during daylight hours. Western Upper Peninsula Trails Specialist, Jeff Kakuk, should be notified prior to the start of any harvest operations. Also, Baraga County Tourism, 906-524-7444, shall be contacted prior to harvesting to ensure proper signage is placed along the shared portion of the trail. No decking of forest products will be

permitted along the snowmobile trail.

#### 5.2.42 - Snowmobile trail re-route (12/08)

A portion of the North Nestoria road is a snowmobile trail. The Unit Manager or his/her representative must be notified in October preceding the winter in which harvesting is to occur, to allow time for the trail to be re-routed. A reroute of the snowmobile trail is possible if the sale is access from the North. If the sale is accessed from the south then a reroute will not be needed.

### 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 North Nestoria 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.

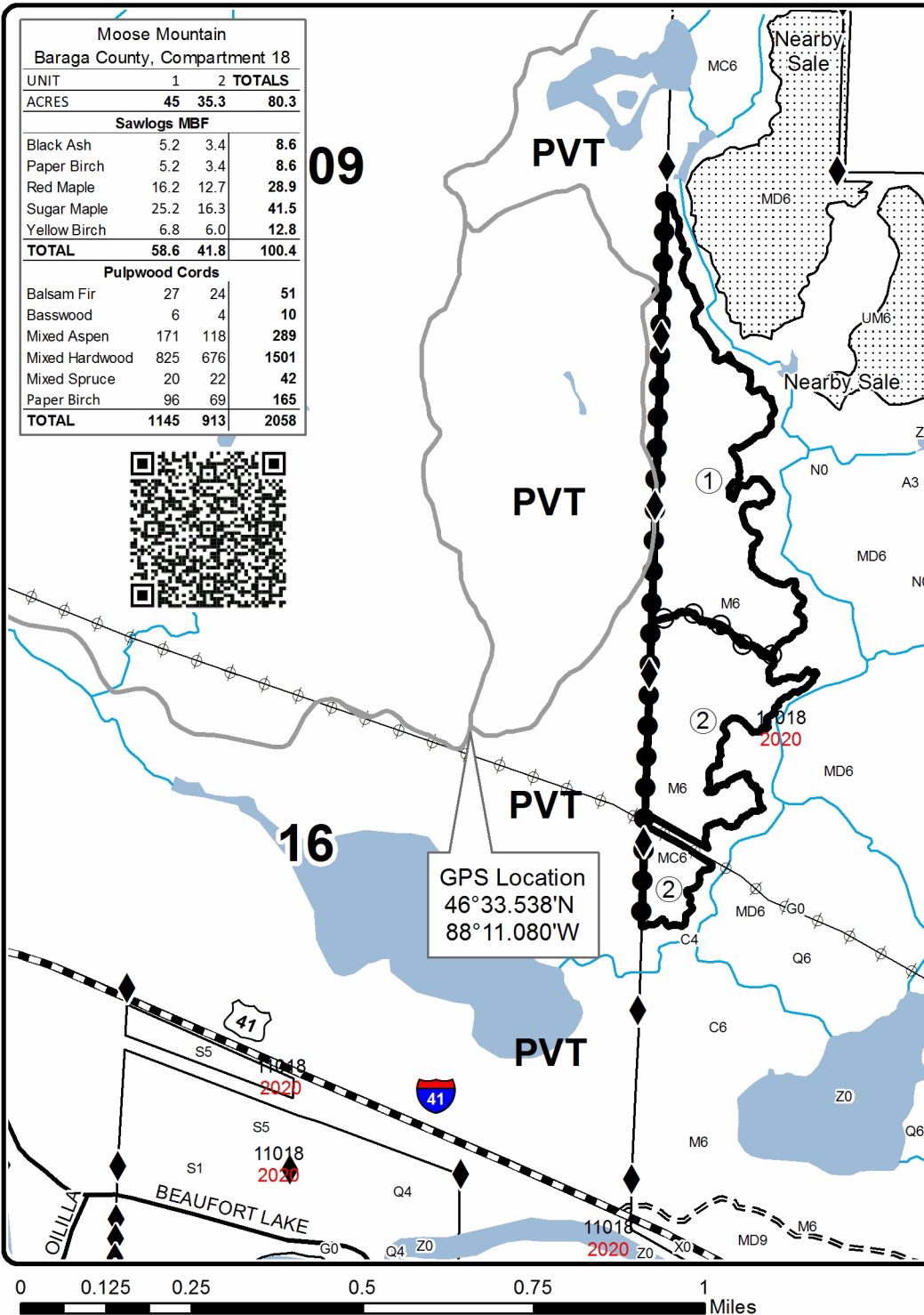
# TIMBER SALE MAP

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












Forest Management Unit Baraga		County Baraga	Mapped By Carlson	Date 8/11/2021	Page 1	of 1
		Cruised By Baraga Staff				
Township 48N	Range 31W	Section(s) and Subdivision(s) Sec 10 - W1/2SW; Sec 15 - W1/2NW, NWSW		Scale 1:15,840		

Cover Type				Density	
A = Aspen	H = Hemlock	N = Marsh	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
B = Paper Birch	J = Jack Pine	O = Oak	UM = Upland Mixed	1 = Seedling Sapling Poor	6 = Pole Timber Well
C = Cedar	L = Lowland Brush	P = Lowland Poplar	V = Bog or Marsh	2 = Seedling Sapling Medium	7 = Saw Timber Poor
D = Treed Bog	LM = Lowland Mixed	Q = Mixed Swamp Conifer	W = White Pine	3 = Seedling Sapling Well	8 = Saw Timber Medium
E = Swamp Hdwoods	M = Mpl, Bch, Brch	R = Red Pine	X = Non Stocked	4 = Pole Timber Poor	9 = Saw Timber Well
F = Spruce Fir	MC = Mixed Conifer	S = Black Spruce	Z = Water		
G = Grass	MD = Mixed Deciduous	T = Tamarack			

Moose Mountain			
Baraga County, Compartment 18			
UNIT	1	2	TOTALS
ACRES	45	35.3	80.3
Sawlogs MBF			
Black Ash	5.2	3.4	8.6
Paper Birch	5.2	3.4	8.6
Red Maple	16.2	12.7	28.9
Sugar Maple	25.2	16.3	41.5
Yellow Birch	6.8	6.0	12.8
<b>TOTAL</b>	<b>58.6</b>	<b>41.8</b>	<b>100.4</b>
Pulpwood Cords			
Balsam Fir	27	24	51
Basswood	6	4	10
Mixed Aspen	171	118	289
Mixed Hardwood	825	676	1501
Mixed Spruce	20	22	42
Paper Birch	96	69	165
<b>TOTAL</b>	<b>1145</b>	<b>913</b>	<b>2058</b>



### Legend

-  Survey Corners
-  Highway
-  Forest Access Route
-  Paved Road
-  Private
-  Perennial River
-  Lakes and Rivers
-  Against State (Red)
-  Payment Unit (Red)
-  Private Line (Blue)
-  Nearby Timber Sales

Locator Map  
1:200,000

