



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7388**

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on May 16, 2024.**

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

Horse Pond Pine (12-053-24) / T42N, R32W, SEC. 21, SESW.

T42N, R32W, SEC. 28, NENW,NWNE,S1/2NE.

T42N, R32W, SEC. 33, NENE,S1/2NE,NWSE.

T42N, R32W, SEC. 34, NW,SWNE,NESW,NWSE.

Iron County, Advertised Price \$95,531.50, 144.6 Acres, Aspen, Red Pine.

# TIMBER SALE INFORMATION

## Horse Pond Pine (12-053-24)

T42N, R32W, SEC. 21; T42N, R32W, SEC. 28; T42N, R32W, SEC. 33; T42N, R32W, SEC. 34.

Iron County (Advertised Price \$95,531.50)

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		
Northern Pin Oak	1.7 MBF	\$ 119.00 / MBF
Paper Birch	1.2 MBF	\$ 167.00 / MBF
Red Maple	5.0 MBF	\$ 112.00 / MBF
Pulpwood		
Balsam Fir	35 Cords	\$ 6.15 / Cord
Jack Pine	6 Cords	\$ 35.60 / Cord
Mixed Aspen	994 Cords	\$ 21.80 / Cord
Mixed Spruce	4 Cords	\$ 14.00 / Cord
Northern Pin Oak	301 Cords	\$ 16.35 / Cord
Paper Birch	34 Cords	\$ 3.15 / Cord
Red Maple	254 Cords	\$ 11.25 / Cord
Red Pine	1,169 Cords	\$ 55.20 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 34.70 percent. There are an estimated 2,815 cords on this timber sale, plus or minus 977 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 \$9,000.00 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:

PAYMENT UNIT NUMBER	PERCENT OF TOTAL SALE VALUE
01	11.5%
02	13.0%
03	10.3%
04	8.7%
05	11.6%
06	12.5%
07	5.7%
08	1.7%
09	14.2%
10	8.3%
11	2.5%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2027.

### **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
222,405	2,815	34.70%	1,838	3,792

**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	25,673	325	47.70%	170	480
2	15,728	199	30.95%	137	261
3	17,771	225	38.75%	138	312
4	53,788	681	37.51%	425	936
5	7,638	97	46.02%	52	141
6	32,526	412	38.41%	254	570
7	10,400	132	60.03%	53	211
8	58,880	745	22.62%	577	914
<b>TOTAL:</b>	<b>222,405</b>	<b>2,815</b>		<b>1,806</b>	<b>3,825</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	24.1	7	24.1
2	8.8	1	8.8
3	14.5	2	14.5
4	15.6	9	15.6
5	4.7	8	4.7
6	15.4	10	15.4
7	6.7	11	6.7
8	54.8	3	13.1
		4	11.0
		5	14.8
		6	15.9
<b>TOTAL:</b>	<b>144.6</b>		<b>144.6</b>

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Pine	Pulpwood	199	Cords	8.8	\$10,984.80
2	Red Pine	Pulpwood	225	Cords	14.5	\$12,420.00
3	Red Pine	Pulpwood	178	Cords	13.1	\$9,825.60
4	Red Pine	Pulpwood	150	Cords	11.0	\$8,280.00
5	Red Pine	Pulpwood	201	Cords	14.8	\$11,095.20
6	Red Pine	Pulpwood	216	Cords	15.9	\$11,923.20
7	Red Maple	Sawtimber	0.6	MBF	24.1	\$5,436.45
	Mixed Aspen	Pulpwood	45	Cords		
	<i>B. T. Aspen</i>		28	<i>Cords</i>		
	<i>Quaking Aspen</i>		17	<i>Cords</i>		
	Northern Pin Oak		245	Cords		
	Red Maple		34	Cords		
8	Northern Pin Oak	Sawtimber	1.7	MBF	4.7	\$1,596.00
	Mixed Aspen	Pulpwood	10	Cords		
	<i>B. T. Aspen</i>		10	<i>Cords</i>		
	Northern Pin Oak		56	Cords		
	Paper Birch		4	Cords		
	Red Maple		22	Cords		
9	Paper Birch	Sawtimber	1.2	MBF	15.6	\$13,693.00
	Red Maple		2.9	MBF		
	Balsam Fir	Pulpwood	8	Cords		
	Mixed Aspen		550	Cords		
	<i>B. T. Aspen</i>		363	<i>Cords</i>		
	<i>Quaking Aspen</i>		187	<i>Cords</i>		
	Paper Birch		19	Cords		
	Red Maple		95	Cords		
10	Red Maple	Sawtimber	1.5	MBF	15.4	\$7,931.40
	Balsam Fir	Pulpwood	27	Cords		
	Jack Pine		6	Cords		
	Mixed Aspen		300	Cords		
	<i>B. T. Aspen</i>		97	<i>Cords</i>		
	<i>Quaking Aspen</i>		203	<i>Cords</i>		
	Red Maple		75	Cords		
11	Mixed Aspen	Pulpwood	89	Cords	6.7	\$2,345.85
	<i>B. T. Aspen</i>		62	<i>Cords</i>		
	<i>Quaking Aspen</i>		27	<i>Cords</i>		
	Mixed Spruce		4	Cords		
	<i>White Spruce</i>		4	<i>Cords</i>		
	Paper Birch		11	Cords		
	Red Maple		28	Cords		
TOTAL:			7.9	MBF		
TOTAL:			2,797	Cords		

## Sale Specific Conditions & Requirements

Sale Name: Horse Pond Pine

Sale Number: 12-053-24 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, red, and yellow paint. Exterior sale boundary lines against private are marked with blue paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. 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) 9 & 10, cut all aspen and maple trees that are two (2) inches or more at DBH. In addition, cut all merchantable spruce/fir, jack pine, and paper birch.

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

Within Payment Unit(s) 7 & 8, cut all trees which meet minimum piece specifications in 2.2 Utilization, except do not cut any red pine, white pine, or northern red oak.

Within Payment Unit 11, cut all merchantable aspen and mixed hardwood. Cut all spruce/fir and jack pine with two or more merchantable pulp sticks. Do not cut any red pine, white pine, or oak.

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

Within Payment Unit(s) 1-6, 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 Payment Units 1-6 shall not exceed 12 inches for trees greater than 10 inches DBH and 4 inches for trees smaller than 10 inches DBH. This is in order to facilitate future planting operations.

##### 2.2.4 - Skidding length (2/14)

Within Payment Units 1-6, skidding of unlimbed tops or lengths over 17 feet is not permissible, unless approved by the Unit Manager or his/her representative.

### 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. No damage is acceptable to undesignated live merchantable trees. Within the Sale Area, if more than 5% of trees (> 4.5" DBH) within a specified area of the sale are damaged, liquidated damages will be assessed for all trees damaged. Rates will be in accordance with General Condition and Requirement 3.4 Damaged Timber.

### 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.

#### 4.1.4 - Timber removed for construction (3/23)

Trees cut or damaged in the process of pre-approved road, landing or skid trail construction will be decked in an area separate from other Designated Timber and not removed until measured by the sale administrator. Payment will be made at contract prices or average prices, if not on the contract.

#### 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. Contact the Sale Administrator for specific details of design and placement.

### 4.2 - Maintenance

#### 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.

## 5 - Operations

### 5.1 - Notification

#### 5.1.1 - Pre-sale conference (10/16)

A pre-sale conference between the Purchaser and sale administrator is required prior to beginning any operations. The Unit Manager or his/her representative must be contacted at least 3 business days in advance to schedule the conference.

### 5.2 - Conduct of Operations

#### 5.2.1 - Slash

##### 5.2.1.11 - Slash for reforestation (3/21)

To facilitate reforestation, Payment Units 7-11 shall be left with slash evenly distributed. Bunched tops within the cutting area shall be broken up and scattered. Stumps shall be cut low to the ground. Processing sites shall not be left with a compacted layer of slash; tops from these sites shall be hauled back into the cut area and scattered.

#### 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

##### 5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 1-6, 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.

##### 5.2.3.4 - Oak wilt restriction, no exceptions (1/18)

Within Payment Units 7, 8, & 11, cutting, skidding, and hauling are not permitted during the period of April 15 to July 15. Within the Sale Area, brushing, opening, or shaping of any access roads and/or skid trails are not permitted during the period of April 15 to July 15. No exceptions will be granted. This is necessary to reduce the spread of oak wilt.

#### 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 Highway US-2 and any active access roads 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.

## 7 - Other Conditions

### 7.3 - Contract Modifications

#### 7.3.2 - Modification for oak wilt (2/05)

Within the sale area, there may be patches of oak wilt. If oak wilt is identified within the sale area, this contract may be modified. The following modifications could occur: time of cutting, species to cut, volume to harvest, or various others dealing with the treatment of oak wilt. If a species is not specified in this contract, it shall be paid for at the average price received for that species and product.



### TIMBER SALE MAP

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

Sale Number	Date	
<b>12-053-24</b>	04/01/2024	
Scale	Page	Of
1:24,000	1	1

Forest Management Unit	County	Mapped By: Brolin
Crystal Falls Mgt Unit	Iron	Cruised By: Brolin

Township	Range	Section(s) and Subdivision(s)	Sec. 21 SESW; Sec. 28 NENW,NWNE,S1/2NE; Sec. 33 NENE,S1/2NE,NWSE; Sec. 34
42N	32W		NW,SWNE,NESW,NWSE;

Cover Type			
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand
G = Grass	MD = Mixed Deciduous		Z = Water
H = Hemlock	N = Marsh		

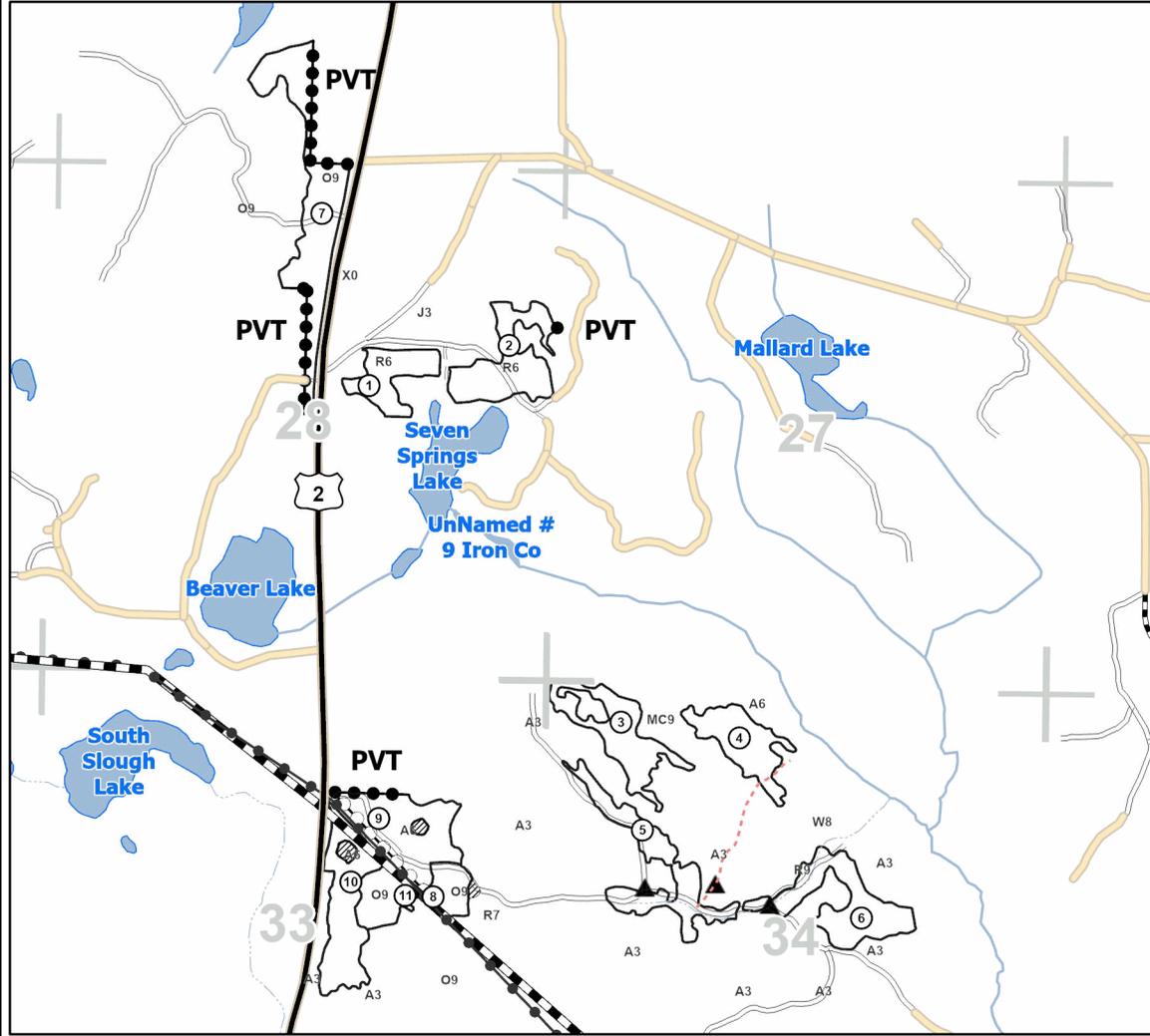
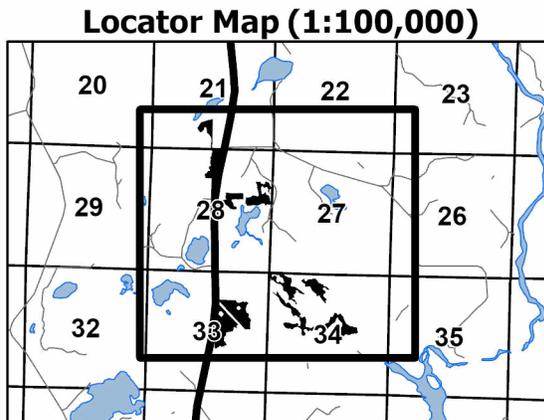
Density	
0 = Non Stocked	5 = Pole Timber Medium
1 = Seedling Sapling Poor	6 = Pole Timber Well
2 = Seedling Sapling Medium	7 = Saw Timber Poor
3 = Seedling Sapling Well	8 = Saw Timber Medium
4 = Pole Timber Poor	9 = Saw Timber Well

PU #	Acres	PU #	Acres	PU #	Acres
1	8.8	5	14.8	9	15.6
2	14.5	6	15.9	10	15.4
3	13.1	7	24.1	11	6.7
4	11.0	8	4.7		

## Horse Pond Pine

### Compartment 161

#### 144.6 Acres



### Legend

- Payment Unit
- Retention Areas
- Against State (Red)
- Payment Unit (Yellow)
- Against Private (Blue)
- Primary Forest Road
- Secondary Forest Road
- Forest Access Route
- Administrative Access Only
- Non-DNR Road
- Highway
- Pipeline
- Powerline
- Intermittent Stream
- Perennial River
- Berm
- MIRIS Section Corner

Use QR Code to open Map in App

