



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7259**

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on August 3, 2023.**

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:

Panola Mix (12-051-23) / T42N, R32W, SEC. 3 , SWSW.

T42N, R32W, SEC. 4 , NWNW,S1/2NW,NWNE,NESW,S1/2SW.

T42N, R32W, SEC. 4 , NWSE,S1/2SE.

T42N, R32W, SEC. 5 , S1/2NE,SE.

T42N, R32W, SEC. 8 , NE,NESE.

T42N, R32W, SEC. 9 , N1/2NW,NWNE.

Iron County, Advertised Price \$178,681.40, 245.8 Acres, Aspen, Red Pine.

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

Panola Mix (12-051-23)

T42N, R32W, SEC. 3; T42N, R32W, SEC. 4; T42N, R32W, SEC. 5; T42N, R32W, SEC. 8; T42N, R32W, SEC. 9.

Iron County (Advertised Price \$178,681.40)

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			
Red Pine	215.8	MBF	\$ 118.00 / MBF
Pulpwood			
Jack Pine	800	Cords	\$ 42.65 / Cord
Mixed Aspen	1,013	Cords	\$ 34.65 / Cord
Paper Birch	30	Cords	\$ 5.65 / Cord
Red Maple	111	Cords	\$ 18.05 / Cord
Red Pine	1,881	Cords	\$ 43.50 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 11.64 percent. There are an estimated 4,318 cords on this timber sale, plus or minus 503 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 \$12,507.70 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	3.9%
02	13.9%
03	14.0%
04	10.9%
05	19.4%
06	6.5%
07	18.6%
08	6.9%
09	5.9%
4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2026.

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.

VOLUME		STATISTICAL RANGE IN CORDS		
TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
341,122	4,318	11.64%	3,815	4,821

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
18	11,778	149	43.16%	85	213
23	15,338	194	27.50%	141	248
24	78,743	997	23.97%	758	1,236
31	10,099	128	30.57%	89	167
32	23,153	293	33.87%	194	392
36	24,297	308	32.23%	208	407
37	20,880	264	27.23%	192	336
44	17,048	216	58.29%	90	342
45	2,916	37	183.74%	31	105
49	62,137	787	16.81%	654	919
51	12,759	162	66.11%	55	268
54	13,944	177	28.41%	126	227
57	8,276	105	27.30%	76	133
70	20,555	260	43.90%	146	374
71	19,199	243	36.08%	155	331
TOTAL:	341,122	4,318		2,939	5,697

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
18	9.9	1	9.9
23	11.7	2	11.7
24	20.2	7	20.2
31	10.4	2	10.4
32	27.4	8	27.4
36	19.6	3	19.6
37	17.8	2	17.8
44	14.2	3	14.2
45	6.7	3	6.7
49	44.1	5	44.1
51	10.8	4	10.8
54	12.3	4	12.3
57	11.1	4	11.1
70	18.7	6	18.7
71	10.9	9	10.9
TOTAL:	245.8		245.8

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Pine Mixed Aspen <i>Quaking Aspen</i> Red Pine	Sawtimber Pulpwood	18.6 6 6 104	MBF Cords Cords Cords	9.9	\$6,926.70
2	Red Pine Jack Pine Mixed Aspen <i>Quaking Aspen</i> Red Pine	Sawtimber Pulpwood	34.2 26 57 57 406	MBF Cords Cords Cords Cords	39.9	\$24,780.55
3	Red Pine Jack Pine Red Pine	Sawtimber Pulpwood	48.3 12 433	MBF Cords Cords	40.5	\$25,046.70
4	Red Pine Jack Pine Red Pine	Sawtimber Pulpwood	20.8 97 296	MBF Cords Cords	34.2	\$19,467.45
5	Red Pine Jack Pine Red Pine	Sawtimber Pulpwood	63.0 143 489	MBF Cords Cords	44.1	\$34,804.45
6	Red Pine Jack Pine Red Pine	Sawtimber Pulpwood	30.9 29 153	MBF Cords Cords	18.7	\$11,538.55
7	Mixed Aspen <i>B. T. Aspen</i> <i>Quaking Aspen</i> Paper Birch Red Maple	Pulpwood	895 876 19 30 111	Cords Cords Cords Cords Cords	20.2	\$33,184.80
8	Jack Pine Mixed Aspen <i>B. T. Aspen</i> <i>Quaking Aspen</i>	Pulpwood	247 52 3 49	Cords Cords Cords Cords	27.4	\$12,336.35
9	Jack Pine Mixed Aspen <i>Quaking Aspen</i>	Pulpwood	246 3 3	Cords Cords Cords	10.9	\$10,595.85
TOTAL:			215.8	MBF		
TOTAL:			3,835	Cords		

Sale Specific Conditions & Requirements

Sale Name: Panola Mix

Sale Number: 12-051-23 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 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 slashes. The painted boundary line trees are not Included Timber and are to be protected unless marked with orange paint. Trees marked with red slashes, 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) 7-9, cut all aspen, maple, and jack pine trees which meet minimum piece specifications in 2.2 Utilization. In addition, cut all spruce and balsam with two or more pulpwood sticks. Also, cut all paper birch and cherry with three or more pulpwood sticks. Furthermore, do not cut any oak, red pine, or white pine.

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. In addition to trees marked with orange paint, cut all maple, paper birch, jack pine and aspen with one or more pulpwood stick. Also, cut all spruce and balsam with two or more pulpwood sticks. Furthermore, do not cut white pine or oak.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within Payment Unit(s) 8 & 9, shall not exceed 6 inches for all trees. This is in order to facilitate scarification operations.

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

Within Payment Unit(s) 8 & 9, chipping of the bole, 2-inches in diameter or greater, is allowed. Chipping of limbs or portions of the tree less than 2-inches in diameter is not permitted. 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.

4 - Transportation

4.1 - Construction

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. As a condition of this sale, a segment of

new road will need to be constructed in Payment Unit 2. This segment of new road will skirt around private property. Road will be stumped, ditched and crowned. Stumps will be hauled and dumped in area designated by sale administrator. Access to private property will not be blocked on west side of existing road. Existing road will be blocked on State land east of private property.

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 bull dozer 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

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.8 - Slash height (12/08)

No slash or tree tops may exceed 36 inches in height.

5.2.3 - Operating Restrictions

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

Operations 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.

5.2.3.6 - Bark beetle restriction (12/08)

In the event drought creates a high risk of pine bark beetle infestation, pine is not to be cut during the period March 1 through July 1, unless all portions of trees greater than two inches in diameter are removed from the sale area, reduced to chips, or treated to the satisfaction of the Unit Manager or his/her representative, within fifteen days of being severed from the stump. Pine log decks, pulpwood piles and treetops that are piled for chipping in the fall or winter within a 1/4 mile of susceptible sites must be removed before March 15. Residual slash must not be placed in piles or rows and must be spread over the site for quick drying. The Department of Natural Resources will exercise this specification if the risk of damage warrants.

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)

The ORV trail is shown on the Timber Sale Map. Do not cut trees or damage posts with yellow ORV markers. All stumps within 5 feet of the trail must be cut flush with the ground. 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)

The snowmobile trail 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. The snowmobile trail may not be used for any timber sale operations from December 1 to March 31. 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.

5.4 - 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 are 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.

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 all roads impacted by sale activities 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 prior to beginning operations during the snowmobile season (approximately December 1 to March 31). The trail must be posted to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed.

6.2.3 - Recreational trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on the Recreation Trail 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.

Sale Number

12 - 051

Year

2023

Forest Management Unit
Crystal FallsCounty
IronMapped By **Scott Sebero**
Cruised By **Scott Sebero**Date
04/05/2023Page
1 of
1Township
42NRange
32W

Section(s) and Subdivision(s)

SEC 4 NWNW,S1/2NW,NWNE,NESW,S1/2SW,NWSE,S1/2SE
SEC 3 SWSW 5 S1/2NE,SE 8 NE,NESE 9 N1/2NW,NWNE

Scale

4 inches = 1 mile

Cover TypeA = Aspen
B = Paper Birch
C = Cedar
D = Treed Bog
E = Swamp Hdwoods
F = Spruce Fir
G = GrassH = Hemlock
J = Jack Pine
L = Lowland Brush
LM = Lowland Mixed
M = Mpl, Bch, Brch
MC = Mixed Conifer
MD = Mixed DeciduousN = Marsh
O = Oak
P = Lowland Poplar
Q = Mixed Swamp Conifer
R = Red Pine
S = Black Spruce
T = TamarackU = Upland Brush
UM = Upland Mixed
V = Bog or Marsh
W = White Pine
X = Non Stocked
Z = Water**Density**0 = Non Stocked
1 = Seedling Sapling Poor
2 = Seedling Sapling Medium
3 = Seedling Sapling Well
4 = Pole Timber Poor5 = Pole Timber Medium
6 = Pole Timber Well
7 = Saw Timber Poor
8 = Saw Timber Medium
9 = Saw Timber Well**Panola Mix**Unit 1 9.9 acres
Unit 2 39.9 acres
Unit 3 40.5 acres
Unit 4 34.2 acres
Unit 5 44.1 acres
Unit 6 18.7 acres
Unit 7 20.2 acres
Unit 8 27.4 acres
Unit 9 10.9 acres

Total 245.8 acres

