



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7360**

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on February 8, 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:

Lower Dam Mix (12-059-23) / T41N, R31W, SEC. 15, NWNW,S1/2NW,S1/2NE.

T41N, R31W, SEC. 16, N1/2NE,SENE.

T41N, R31W, SEC. 9 , SESE.

Iron County, Advertised Price \$63,213.55, 116.9 Acres, Aspen, Hardwood.

TIMBER SALE INFORMATION

Lower Dam Mix (12-059-23)

T41N, R31W, SEC. 15; T41N, R31W, SEC. 16; T41N, R31W, SEC. 9.
Iron County (Advertised Price \$63,213.55)

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		
Basswood	1.4 MBF	\$ 101.00 / MBF
Sugar Maple	14.2 MBF	\$ 164.00 / MBF
Pulpwood		
Balsam Fir	22 Cords	\$ 7.50 / Cord
Basswood	24 Cords	\$ 6.55 / Cord
Mixed Aspen	2,871 Cords	\$ 19.70 / Cord
Mixed Hardwood	337 Cords	\$ 9.85 / Cord
Paper Birch	44 Cords	\$ 3.75 / Cord
White Spruce	30 Cords	\$ 12.60 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 25.11 percent. There are an estimated 3,363 cords on this timber sale, plus or minus 845 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 \$4,424.95 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	13.7%
02	18.0%
03	32.2%
04	16.1%
05	20.0%
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
265,697	3,363	25.11%	2,519	4,208

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	29,369	372	42.67%	213	530
2	35,508	449	43.27%	255	644
11	200,819	2,542	22.81%	1,962	3,122
TOTAL:	265,697	3,363		2,430	4,296

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	12.1	2	12.1
2	17.8	1	17.8
11	87.0	2	7.8
		3	37.4
		4	18.6
		5	23.2
TOTAL:	116.9		116.9

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Basswood	Sawtimber	1.4	MBF	17.8	\$8,637.70
	Sugar Maple		4.5	MBF		
	Basswood	Pulpwood	13	Cords		
	Mixed Aspen		356	Cords		
	<i>B. T. Aspen</i>		243	Cords		
	<i>Quaking Aspen</i>		113	Cords		
	Mixed Hardwood		67	Cords		
	<i>Black Ash</i>		6	Cords		
	<i>Red Maple</i>		9	Cords		
	<i>Sugar Maple</i>		52	Cords		
2	Sugar Maple	Sawtimber	0.9	MBF	19.9	\$11,402.15
	Balsam Fir	Pulpwood	6	Cords		
	Basswood		1	Cords		
	Mixed Aspen		546	Cords		
	<i>B. T. Aspen</i>		121	Cords		
	<i>Balsam Poplar</i>		45	Cords		
	<i>Quaking Aspen</i>		380	Cords		
	Mixed Hardwood		40	Cords		
	<i>Black Ash</i>		6	Cords		
	<i>Red Maple</i>		9	Cords		
	<i>Sugar Maple</i>		24	Cords		
	<i>White Ash</i>		1	Cords		
	Paper Birch		4	Cords		
	White Spruce		3	Cords		
3	Sugar Maple	Sawtimber	4.1	MBF	37.4	\$20,357.80
	Balsam Fir	Pulpwood	7	Cords		
	Basswood		5	Cords		
	Mixed Aspen		929	Cords		
	<i>B. T. Aspen</i>		199	Cords		
	<i>Balsam Poplar</i>		52	Cords		
	<i>Quaking Aspen</i>		678	Cords		
	Mixed Hardwood		108	Cords		
	<i>Black Ash</i>		5	Cords		
	<i>Red Maple</i>		27	Cords		
	<i>Sugar Maple</i>		71	Cords		
	<i>White Ash</i>		5	Cords		
	Paper Birch		19	Cords		
	White Spruce		13	Cords		
4	Sugar Maple	Sawtimber	2.1	MBF	18.6	\$10,149.85
	Balsam Fir	Pulpwood	4	Cords		
	Basswood		2	Cords		
	Mixed Aspen		463	Cords		
	<i>B. T. Aspen</i>		99	Cords		
	<i>Balsam Poplar</i>		26	Cords		
	<i>Quaking Aspen</i>		338	Cords		
	Mixed Hardwood		54	Cords		
	<i>Black Ash</i>		2	Cords		
	<i>Red Maple</i>		13	Cords		
	<i>Sugar Maple</i>		36	Cords		
	<i>White Ash</i>		3	Cords		
	Paper Birch		9	Cords		
	White Spruce		6	Cords		
5	Sugar Maple	Sawtimber	2.6	MBF	23.2	\$12,666.05
	Balsam Fir	Pulpwood	5	Cords		
	Basswood		3	Cords		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	Mixed Aspen	Pulpwood	577	Cords		
	<i>B. T. Aspen</i>		124	<i>Cords</i>		
	<i>Balsam Poplar</i>		32	<i>Cords</i>		
	<i>Quaking Aspen</i>		421	<i>Cords</i>		
	Mixed Hardwood		68	Cords		
	<i>Black Ash</i>		3	<i>Cords</i>		
	<i>Red Maple</i>		17	<i>Cords</i>		
	<i>Sugar Maple</i>		45	<i>Cords</i>		
	<i>White Ash</i>		3	<i>Cords</i>		
	Paper Birch		12	Cords		
	White Spruce		8	Cords		
TOTAL:			15.6	MBF		
TOTAL:			3,328	Cords		

Sale Specific Conditions & Requirements

Sale Name: Lower Dam Mix

Sale Number: 12-059-23 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.

2 - Timber Specifications

2.1 - Included Timber

2.1.1 - Clearcut unit(s) with unmerchantable trees (6/14)

Within Payment Unit(s) 2, 3, 4 & 5, cut all trees that are two (2) inches or more at DBH, except spruce, balsam, tamarack, red pine, white pine, cedar, hemlock and oak. Additionally, cut all spruce, balsam and tamarack with two or more pulpwood sticks.

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

Within Payment Unit(s) 1, 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 Unit 1 shall not exceed stump diameter.

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.

3.4.3 - Special Protection Areas (8/11)

The Purchaser shall protect special protection areas from damage by the Purchaser's operations. Special protection areas are those areas within Payment Unit 1 that contain advanced sugar maple regeneration. Sugar maple saplings and small poles must be protected from damage. If the Purchaser's operations have cut or damaged special protection areas through carelessness, the Purchaser shall pay \$500 as fixed, agreed and liquidated damages for each acre or part thereof cut or damaged. Such payment does not constitute ownership of the undesignated timber.

4 - Transportation

4.1 - Construction

4.1.2 - Stream crossings, specific (3/11)

There is an intermittent stream between the two blocks in Payments Unit 4 as shown on the Timber Sale Map. This stream will need to be crossed using brush & snow or crane mats. If brush is used, it must be removed after wood has been hauled across stream. This installation will be performed in accordance with the specifications on the appropriate permits which shall be provided by the DNR.

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.

4.1.8 - Road work (1) (8/07)

The following road work is required: The existing road that exits Lower Dam Road, through an easement on WE Energies Land, must be improved by ditching and crowning and adding any gravel that may be needed. A short segment of new road, approximately 100 feet, will need to be constructed in the NWNE of section 16 to keep it on State Land. Another segment of new road, approximately 700 feet, will need to be constructed in the NWNW of section 15. This segment of road will need a cross drain culvert and several loads of gravel.

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

5.2 - 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

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 1, 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.

5.2.22 - Operating Caution

5.2.22.1 - Operating caution (6/11)

It is recommended, but not required, that within Payment Unit(s) 2 through 5, cutting and skidding occur during very dry summer or frozen winter conditions. The reason for the recommendation is because areas of wet ground may be present. Only a portion of these Payment Units are wet and the remainder could be cut at any time.

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.

**TIMBER SALE MAP***This information provided by authority of Part 525, 1994 PA 451, as amended.*Sale Number
12 - 059Year
2023Forest Management Unit
Crystal FallsCounty
Iron

Mapped By Scott Sebero

Date
09/22/2023Page
1 of 1Township
41NRange
31W

Section(s) and Subdivision(s)

9 SESE, 16 N1/2NE, SENE
15 NWNW, S1/2NW, S1/2NE

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