



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6935

SCHEDULED SALE DATE AND TIME: 8:30 a.m. (local time) on December 15, 2021.

LOCATION: CRYSTAL FALLS MGMT UNIT, 1420 US 2 WEST, CRYSTAL FALLS, MI 49920.

CONTACT NAME: Dan McNamee

PHONE NUMBER: (906) 875-6622

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:

Deer Lake Road Mix (12-051-21) / T44N, R32W, SEC. 6 , SENW,SWNE,SW,W1/2SE.

T44N, R32W, SEC. 7 , N1/2NW,SENW,NWNE,S1/2NE.

Iron County, Advertised Price \$67,532.35, 229.3 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.

Geo Referenced pdf map is available upon request

TIMBER SALE INFORMATION

Deer Lake Road Mix (12-051-21)

T44N, R32W, SEC. 6; T44N, R32W, SEC. 7.

Iron County (Advertised Price \$67,532.35)

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

Geo Referenced pdf map is available upon request

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	51.8 MBF	\$ 43.00 / MBF
Black Cherry	3.5 MBF	\$ 33.00 / MBF
Paper Birch	40.3 MBF	\$ 80.00 / MBF
Red Maple	97.8 MBF	\$ 89.00 / MBF
Sugar Maple	38.6 MBF	\$ 152.00 / MBF
Pulpwood		
Balsam Fir	81 Cords	\$ 6.45 / Cord
Mixed Aspen	1,738 Cords	\$ 20.75 / Cord
Mixed Hardwood	840 Cords	\$ 12.60 / Cord
Mixed Spruce	27 Cords	\$ 8.30 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 5.17 percent. There are an estimated 3,111 cords on this timber sale, plus or minus 161 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 \$4,727.26 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	28.1%
02	29.7%
03	13.8%
04	14.8%
05	13.6%

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

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.

<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>
245,798	3,111	5.17%	2,950	3,272

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
10	78,983	1,000	8.04%	919	1,080
12	72,392	916	8.13%	842	991
20	76,338	966	12.08%	850	1,083
30	6,233	79	43.17%	45	113
53	14,855	188	15.83%	158	218
TOTAL:	248,802	3,149		2,814	3,485

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
10	135.5	3	48.7
		4	39.1
		5	47.7
12	37.8	2	37.8
20	31.6	1	31.6
30	4.5	2	4.5
53	19.9	3	2.7
		4	14.3
		5	2.9
TOTAL:	229.3		229.3

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Balsam Fir	Pulpwood	59	Cords	31.6	\$18,955.55
	Mixed Aspen		878	Cords		
	<i>B. T. Aspen</i>		7	Cords		
	<i>Quaking Aspen</i>		871	Cords		
	Mixed Hardwood		25	Cords		
	<i>Red Maple</i>		25	Cords		
	Mixed Spruce		5	Cords		
	<i>White Spruce</i>		5	Cords		
2	Paper Birch	Sawtimber	1.4	MBF	42.3	\$20,061.10
	Red Maple	Pulpwood	30.5	MBF		
	Balsam Fir		22	Cords		
	Mixed Aspen		702	Cords		
	<i>Quaking Aspen</i>		702	Cords		
	Mixed Hardwood		186	Cords		
	<i>Black Cherry</i>		17	Cords		
	<i>Paper Birch</i>		32	Cords		
	<i>Red Maple</i>		137	Cords		
	Mixed Spruce		22	Cords		
	<i>Black Spruce</i>		5	Cords		
	<i>White Spruce</i>		17	Cords		
3	Basswood	Pulpwood	18.7	MBF	51.4	\$9,342.70
	Black Cherry		1.3	MBF		
	Paper Birch		10.3	MBF		
	Red Maple		23.7	MBF		
	Sugar Maple		13.0	MBF		
	Mixed Aspen		52	Cords		
	<i>B. T. Aspen</i>		3	Cords		
	<i>Quaking Aspen</i>		49	Cords		
	Mixed Hardwood		199	Cords		
	<i>Basswood</i>		18	Cords		
	<i>Black Cherry</i>		1	Cords		
	<i>Ironwood</i>		12	Cords		
	<i>Paper Birch</i>		17	Cords		
	<i>Red Maple</i>		95	Cords		
	<i>Sugar Maple</i>		56	Cords		
4	Basswood	Pulpwood	14.9	MBF	53.4	\$9,979.65
	Black Cherry		1.0	MBF		
	Paper Birch		18.3	MBF		
	Red Maple		20.3	MBF		
	Sugar Maple		12.8	MBF		
	Mixed Aspen		55	Cords		
	<i>B. T. Aspen</i>		8	Cords		
	<i>Quaking Aspen</i>		47	Cords		
	Mixed Hardwood		234	Cords		
	<i>Basswood</i>		14	Cords		
	<i>Black Cherry</i>		1	Cords		
	<i>Ironwood</i>		14	Cords		
	<i>Paper Birch</i>		62	Cords		
	<i>Red Maple</i>		88	Cords		
	<i>Sugar Maple</i>		55	Cords		
5	Basswood	Sawtimber	18.2	MBF	50.6	\$9,193.35
	Black Cherry		1.2	MBF		
	Paper Birch		10.3	MBF		
	Red Maple		23.3	MBF		
	Sugar Maple		12.8	MBF		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	Mixed Aspen	Pulpwood	51	Cords		
	<i>B. T. Aspen</i>		3	<i>Cords</i>		
	<i>Quaking Aspen</i>		48	<i>Cords</i>		
	Mixed Hardwood		196	Cords		
	<i>Basswood</i>		18	<i>Cords</i>		
	<i>Black Cherry</i>		1	<i>Cords</i>		
	<i>Ironwood</i>		11	<i>Cords</i>		
	<i>Paper Birch</i>		17	<i>Cords</i>		
	<i>Red Maple</i>		93	<i>Cords</i>		
	<i>Sugar Maple</i>		56	<i>Cords</i>		
TOTAL:			232.0	MBF		
TOTAL:			2,686	Cords		

Sale Specific Conditions & Requirements

Sale Name: Deer Lake Road Mix

Sale Number: 12-051-21 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. The sale boundary lines against private property are marked with blue paint. Sale boundary lines against state land are marked with double red paint dots. Interior Payment Unit boundaries are marked with double red paint slashes. Note, the Payment Unit boundary between Payment Units 2 and 3 is marked with double red paint slashes and double red paint dots. The painted boundary line trees are not Included Timber and are to be protected.

2 - Timber Specifications

2.1 - Included Timber

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

Within Payment Unit(s) 1, cut all aspen and red maple trees which meet minimum piece specifications in 2.2 Utilization (one 100" piece to a top diameter inside bark of 4 inches). In addition, cut all spruce and balsam fir with a stump diameter of 8 inches and larger.

Within Payment Unit 2, cut all aspen, red maple, cherry, white birch, spruce, and balsam fir trees which meet minimum piece specifications in 2.2 Utilization (one 100" piece to a top diameter inside bark of 4 inches). Do not cut trees marked with green paint.

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

Within Payment Unit(s) 3-5, 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.

2.2.11 - Chipping restriction (9/14)

If chipping occurs on this sale, then no woody debris present on the ground at the start of the sale may be chipped. Chip piles must be removed within 60 days of the sale expiration. In addition, after chip pile removal, residual chip depth at the landing may not exceed 4 inches.

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. No damage is acceptable to undesignated live merchantable trees. Within the Sale Area, if more than 10 % of trees (> 4.5" DBH) within a specified area of the sale are damaged, liquidated damages will be assessed for all trees damaged.

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.

4.1.6 - Road construction (1/09)

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. Stumps shall be set upright, not left on edge, and be moved at least 5 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)

Overgrown/closed roads that are reopened into the Sale Area must be blocked to vehicle traffic within 60 days of the sale expiration. In general, this will require constructing a minimum of a 4-foot earthen berm mixed with rocks, slash and/or stumps. These roads must be made impassable to ORVs. Contact the sale administrator for specific design and placement.

4.1.12 - No new roads (1/12)

No new roads will be permitted. All operations are limited to existing roads. Existing overgrown roads may be opened and utilized with approval from the sale administrator.

4.2 - Maintenance

4.2.5 - Two wheel drive condition (2/04)

All existing trail roads on and adjacent to the sale area must be passable by two-wheel drive traffic for the duration of the sale.

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 24 inches in height.

5.2.1.11 - Slash for reforestation (3/21)

The Sale Area 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

5.2.3.1 - Operating restrictions (9/11)

Within Payment Unit(s) 1 and 2 cutting, skidding, and hauling are not permitted from March 1 to May 15. This restriction is to avoid resource damage during spring break up conditions. If prolonged wet weather conditions occur throughout the operating season, the sale administrator may suspend operations until favorable weather and ground conditions are present.

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 3-5, unless changed by written agreement, cutting and skidding are not permitted during the period of March 1 to July 15. This restriction is because of bark slippage.

5.2.37 - No decking areas (12/08)

No decking is allowed within 30 feet of the Deer Lake Road without permission of the Iron County Road Commission and the sale administrator.

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.

5.4.6 - Wet area protection (5/10)

No harvesting operations, including skidding and felling, are to take place within the vernal pond areas or drainages. All vernal pond areas may not be identified on the Timber Sale Map. It is the responsibility of the Purchaser to avoid operating in these areas and leave a minimum 100 foot buffer adjacent to any vernal area found. When harvesting occurs, there should be no disturbance to the vernal pond depression. All equipment, trees and tops should be kept out of this area. Within 100-feet of the pond, equipment should only be used when the soil is in a dry or frozen condition. Care must be taken by the Purchaser to identify and avoid operating in these areas of the timber sale.

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.

**TIMBER SALE MAP**

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

Sale Number

12-051-21

Year

2021

Forest Management Unit
CRYSTAL FALLSCounty
IRON

Mapped By Rice

Date

04/14/2021

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of

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Township
44NRange
32WSection(s) and Subdivision(s)
sec 6: SWNE, SENW, SW1/4, W1/2SE
sec 7: NWNW, E1/2NW, W1/2NE, SENE

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**Deer Lake Road Mix**Unit 1 31.6 acres Unit 4 53.4 acres
Unit 2 42.3 acres Unit 5 50.6 acres
Unit 3 51.4 acres
Total 229.3 acres