

DEPARTMENT OF NATURAL RESOURCES STATE OF MICHIGAN

TIMBER SALE PROSPECTUS #6933

SCHEDULED SALE DATE AND TIME: 8:30 a.m. (local time) on October 20, 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:

Doan's Lakes Mix (12-008-21) / T44N, R30W, SEC. 10, SWSW.

T44N, R30W, SEC. 13, N1/2NW.

T44N, R30W, SEC. 14, S1/2NW, NE, SW, SWSE.

T44N, R30W, SEC. 15, N1/2NW, SENW, NWNE, N1/2SW, SESW.

T44N, R30W, SEC. 15, SE.

Dickinson County, Advertised Price \$90,184.65, 207.4 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.

Access may be through private land.

TIMBER SALE INFORMATION

Doan's Lakes Mix (12-008-21)

T44N, R30W, SEC. 10; T44N, R30W, SEC. 13; T44N, R30W, SEC. 14; T44N, R30W, SEC. 15.

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Access may be through private land.

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:

PRODUCTS & SPECIES	ESTIMATED UNITS*		ADVERTISED PRICE	
Sawtimber				
Basswood	2.1	MBF	\$	43.00 / MBF
Paper Birch	72.5	MBF	\$	31.00 / MBF
Red Maple	73.9	MBF	\$	73.00 / MBF
Red Pine	49.7	MBF	\$	73.00 / MBF
Sugar Maple	1.5	MBF	\$	129.00 / MBF
Pulpwood				
Balsam Fir	156	Cords	\$	7.20 / Cord
Jack Pine	61	Cords	\$	13.75 / Cord
Mixed Aspen	3,177	Cords	\$	17.40 / Cord
Mixed Hardwood	1,324	Cords	\$	10.95 / Cord
Mixed Spruce	367	Cords	\$	7.50 / Cord
Red Pine	186	Cords	\$	22.25 / Cord

^{*} The total volume is statistically estimated within plus (+) or minus (-) 3.62 percent. There are an estimated 5,497 cords on this timber sale, plus or minus 199 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 \$6,312.93 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	24.2%
02	13.3%
03	17.4%
04	23.5%
05	10.7%
06	10.9%

- 4. If no cutting takes place, the 10% down payment will not be refunded.
- 5. Operations on the contract issued will terminate on 06/30/2024.

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	
434,287	5,497	3.62%	5,298	5,697	

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
4	178,725	2,262	5.84%	2,130	2,394
9	12,158	154	14.98%	131	177
15	9,008	114	28.01%	82	146
28	40,576	514	12.03%	452	575
36	75,763	959	9.56%	867	1,051
47	17,046	216	27.46%	157	275
52	3,820	48	4.44%	46	51
54	101,580	1,286	6.61%	1,201	1,371
72	6,006	76	6.60%	71	81
74	3,307	42	40.77%	25	59
TOTAL:	447,990	5,671		5,162	6,180

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
4	83.3	1	53.8
		2	29.5
9	11.5	5	11.5
15	7.7	6	7.7
28	13.0	5	6.2
		6	6.8
36	32.3	3	32.3
47	7.9	6	7.9
52	4.0	4	4.0
54	37.8	4	37.8
72	3.6	4	3.6
74	6.3	5	6.3
TOTAL:	207.4		207.4

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Paper Birch	Sawtimber	22.8	MBF	53.8	\$21,832.20
	Red Maple		26.1	MBF		
	Balsam Fir	Pulpwood	46	Cords		
	Mixed Aspen		782	Cords		
	Quaking Aspen		782	Cords		
	Mixed Hardwood		368	Cords		
	Paper Birch		141	Cords		
	Red Maple		219	Cords		
	Sugar Maple		8	Cords		
	Mixed Spruce		167	Cords		
	Black Spruce		135	Cords		
	White Spruce		32	Cords		
2	Paper Birch	Sawtimber	12.5	MBF	29.5	\$11,977.90
_	Red Maple		14.3	MBF		ψ,σσ.
	Balsam Fir	Pulpwood	25	Cords		
	Mixed Aspen	i dipwood	429	Cords		
	Quaking Aspen		429	Cords		
	Mixed Hardwood		202	Cords		
	Paper Birch		77	Cords		
	1			1		
	Red Maple		120 5	Cords		
	Sugar Maple		_	Cords		
	Mixed Spruce		92	Cords		
	Black Spruce		74	Cords		
	White Spruce		18	Cords		
3	Paper Birch	Sawtimber	3.0	MBF	32.3	\$15,733.60
	Red Maple		7.3	MBF		
	Balsam Fir	Pulpwood	37	Cords		
	Mixed Aspen		781	Cords		
	B. T. Aspen		8	Cords		
	Balsam Poplar		9	Cords		
	Quaking Aspen		764	Cords		
	Mixed Hardwood		102	Cords		
	Black Cherry		21	Cords		
	Paper Birch		49	Cords		
	Red Maple		32	Cords		
	Mixed Spruce		18	Cords		
	Black Spruce		9	Cords		
	White Spruce		9	Cords		
4	Paper Birch	Sawtimber	21.0	MBF	45.4	\$21,180.90
	Red Maple		26.2	MBF		
	Sugar Maple		1.5	MBF		
	Balsam Fir	Pulpwood	48	Cords		
	Jack Pine		8	Cords		
	Mixed Aspen		692	Cords		
	B. T. Aspen		306	Cords		
	Quaking Aspen		386	Cords		
	Mixed Hardwood		492	Cords		
	Black Cherry		6	Cords		
	Paper Birch		135	Cords		
	1			1		
	Red Maple		311	Cords		
	Sugar Maple		40 70	Cords		
	Mixed Spruce		72	Cords		
	White Spruce		72	Cords		
5	Red Pine	Sawtimber	38.8	MBF	24.0	\$9,642.65
	Jack Pine	Pulpwood	25	Cords	I	

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	Mixed Aspen	Pulpwood	155	Cords		
	B. T. Aspen		8	Cords		
	Quaking Aspen		147	Cords		
	Mixed Hardwood		15	Cords		
	Black Cherry		5	Cords		
	Red Maple		10	Cords		
	Mixed Spruce		9	Cords		
	Black Spruce		9	Cords		
	Red Pine		159	Cords		
6	Basswood	Sawtimber	2.1	MBF	22.4	\$9,817.40
	Paper Birch		13.2	MBF		
	Red Pine		10.9	MBF		
	Jack Pine	Pulpwood	28	Cords		
	Mixed Aspen		338	Cords		
	B. T. Aspen		113	Cords		
	Quaking Aspen		225	Cords		
	Mixed Hardwood		145	Cords		
	Basswood		4	Cords		
	Black Cherry		2	Cords		
	Paper Birch		56	Cords		
	Red Maple		80	Cords		
	Sugar Maple		3	Cords		
	Mixed Spruce		9	Cords		
	Black Spruce		9	Cords		
	Red Pine		27	Cords		
		TOTAL:	199.7	MBF		
		TOTAL:	5,271	Cords		

Sale Specific Conditions & Requirements

Sale Name: Doan's Lakes Mix Sale Number: 12-008-21 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. 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. Trees painted 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

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

Within Payment Unit(s) 1-4 and the aspen portion of Payment Unit 6, cut all aspen and mixed hardwood trees that are two (2) inches or more at DBH. In addition, cut all spruce, balsam, tamarack, and jack pine with two or more pulpwood sticks. Do not cut aspen and birch marked with green paint, oak, black ash, elm, cedar, hemlock, red pine, or white pine.

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

Within Payment Unit(s) 5 and the hardwood and pine portions of Payment Unit 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 aspen with one or more pulpwood sticks.

2.2 - Utilization

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. In addition, brush or chips may not be stored or stockpiled on-site for more than 60 days past the sale expiration date. Residual chip depth may not exceed 4 inches.

4 - Transportation

4.1 - Construction

4.1.4 - Timber removed for construction (12/09)

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 the specified Purchase Unit Price.

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 18 inches in diameter and 24 feet in length.

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

4.2.3 - Road maintenance (8/13)

The following road maintenance is required: Within 60 days of completion of hauling, or if no hauling occurs for 60 days, the road must be maintained and graded. This includes cleaning of drainage areas, grading, crowning, and filling with gravel, if necessary. Damages will be assessed if grading/repair does not occur. All roads must be brought back to a condition of as good or better than before the timber sale. Roads must be maintained during logging operations to allow for vehicle travel.

4.4 - Access

4.4.2 - Alternate route on private property (2/04)

It is the Purchaser's responsibility to obtain access across private land for any routes other than the route shown on the Timber Sale Map.

5 - Operations

5.1 - Notification

5.1.7 - Railroad R.O.W. (3/16)

Railroad Company owns a 100' wide strip of land adjacent to this timber sale and to their railroad tracks. Permission to cross tracks will be needed to access Payment Unit 6 from the north. Please contact railroad company for permission and other details.

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

5.2.3.5 - Oak wilt restriction (1/18)

Within this timber sale, unless changed by written agreement, cutting, skidding, hauling within the sale and brushing of access roads to the sale are not permitted during the period of April 15 to July 15. Operations may be allowed if specific steps are taken to prevent damaging uncut oak during the high risk period. Those steps may include completing all road brushing before April 15th and clearing a tree-length buffer along uncut oak cover before April 15th. This is necessary to reduce the spread of oak wilt. For more information, contact the Unit Manager or his/her representative.

5.2.22 - Operating Caution

5.2.22.1 - Operating caution (6/11)

It is recommended, but not required, that within Payment Unit(s) 5 and 6, cutting and skidding occur during dry summer or frozen winter conditions. The reason for the recommendation is because of wet soils and possible barking of residual trees.

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.

5.8.8 - Protected species, other (2/12)

Within Payment Unit(s) 5 and 6, the harvesting time period may be altered if loons are found nesting on Floodwood Lake or Silver Lake. Critical nesting period is April 15 through August 15.

Section Name: Sale Specific Current as of 9/17/2021 7:41:23AM



