



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6952

SCHEDULED SALE DATE AND TIME: 4:00 p.m. (local time) on November 4, 2021.

LOCATION: TRAVERSE CITY MGMT UNIT, 2122 M 37 SOUTH, TRAVERSE CITY, MI 49685.

CONTACT NAME: David Lemmien

PHONE NUMBER: (231) 922-6040

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, TRAVERSE CITY MANAGEMENT UNIT, for certain timber on the following described lands:

Crows Mix (61-048-21) / T28N, R13W, SEC. 35, NESW,S1/2SW,SWSE.

Leelanau County, Advertised Price \$27,451.15, 46.2 Acres, Hardwood, Red Pine.

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

TIMBER SALE INFORMATION

Crows Mix (61-048-21)

T28N, R13W, SEC. 35.

Leelanau County (Advertised Price \$27,451.15)

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

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		
B. T. Aspen	8.2 MBF	\$ 88.00 / MBF
Basswood	12.3 MBF	\$ 76.00 / MBF
Beech	13.7 MBF	\$ 64.00 / MBF
Black Cherry	3.8 MBF	\$ 150.00 / MBF
Jack Pine	3.4 MBF	\$ 18.00 / MBF
Red Maple	27.9 MBF	\$ 116.00 / MBF
Red Pine	84.5 MBF	\$ 79.00 / MBF
Sugar Maple	10.4 MBF	\$ 164.00 / MBF
Pulpwood		
B. T. Aspen	10 Cords	\$ 12.70 / Cord
Jack Pine	104 Cords	\$ 8.95 / Cord
Mixed Hardwood	368 Cords	\$ 12.40 / Cord
Red Pine	233 Cords	\$ 30.25 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 9.29 percent. There are an estimated 1,053 cords on this timber sale, plus or minus 98 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 \$1,372.56 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	6.6%
02	38.4%
03	4.5%
04	50.5%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 12/31/2023.

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>
83,155	1,053	9.29%	955	1,150

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
26	4,546	58	26.08%	43	73
32	33,759	427	9.67%	386	469
40	4,535	57	26.14%	42	72
51	39,739	503	18.03%	412	594
TOTAL:	82,579	1,045		883	1,207

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
26	3.8	3	3.8
32	24.0	2	24.0
40	4.1	1	4.1
51	14.3	4	14.3
TOTAL:	46.2		46.2

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE				
1	B. T. Aspen	Sawtimber	2.8	MBF	4.1	\$1,808.30				
	Basswood		3.0	MBF						
	Black Cherry		0.3	MBF						
	Red Pine		9.5	MBF						
	B. T. Aspen	Pulpwood	6	Cords						
	Mixed Hardwood		8	Cords						
	Basswood		4	Cords						
	Beech		1	Cords						
	Black Cherry		3	Cords						
	Red Pine		12	Cords						
2	Basswood	Sawtimber	9.3	MBF	24.0	\$10,536.60				
	Beech		10.1	MBF						
	Black Cherry		3.5	MBF						
	Red Maple		27.9	MBF						
	Sugar Maple		10.0	MBF						
	Mixed Hardwood	Pulpwood	305	Cords						
	Basswood		15	Cords						
	Beech		37	Cords						
	Black Cherry		26	Cords						
	Red Maple		95	Cords						
	Sugar Maple		132	Cords						
	3		B. T. Aspen	Sawtimber			5.4	MBF	3.8	\$1,243.60
			Beech				3.6	MBF		
Sugar Maple		0.4	MBF							
B. T. Aspen		Pulpwood	4	Cords						
Mixed Hardwood			34	Cords						
Beech			23	Cords						
Ironwood			1	Cords						
Red Maple			5	Cords						
Sugar Maple			5	Cords						
4			Jack Pine	Sawtimber	3.4	MBF	14.3	\$13,862.65		
	Red Pine	75.0	MBF							
	Jack Pine	Pulpwood	104	Cords						
	Mixed Hardwood		21	Cords						
	Black Cherry		13	Cords						
	Sugar Maple		8	Cords						
	Red Pine		221	Cords						
TOTAL:			164.2	MBF						
TOTAL:			715	Cords						

Sale Specific Conditions & Requirements

Sale Name: Crows Mix

Sale Number: 61-048-21 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, red, and yellow paint. Exterior sale boundary lines against private property are marked with blue paint. Exterior sale boundary lines against state property 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.

2 - Timber Specifications

2.1 - Included Timber

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

Within Payment Unit(s) 4, cut all trees that are one (1) inch or more at DBH.

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

Within Payment Unit(s) 1-3, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability. In addition, within Payment Unit 2 and 3, cut all beech greater than 3 inches at DBH unless marked with green paint.

2.2 - Utilization

2.2.2 - Chipping required (2/18)

Payment Unit 4 must be chip harvested to facilitate subsequent planting operations. The Purchaser has the option to produce sawlogs or pulpwood bolts, but the remaining portion of the trees must be chipped. If market conditions limit the practicality of chipping, tops and slash must be arranged in a way that will not inhibit future planting operations, as directed by the sale administrator. The requirement to retain approximately 1/6 to 1/3 of tree tops and limbs less than four inches in diameter is still applicable (G. C. & R. 2.2).

2.2.3 - Stump heights (4/07)

Stump heights within Payment Unit 4 shall not exceed 8 inches for trees greater than 10 inches at DBH and 4 inches for trees smaller than 10 inches at DBH. This is to facilitate planting operations.

2.2.4 - Skidding length (2/14)

Within Payment Units 1-3 skidding of unlimbed tops or lengths over 17 feet is not permissible unless approved by the Unit Manager or his/her representative.

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 chipped, utilized, or distributed as directed by the sale administrator.

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. In general, this will require constructing a four (4') foot high berm of stumps and logs covered with earth. All stumps from road building and landing construction must be reserved to block any newly constructed roads upon completion of the sale. These stumps must be scattered along the road system to prohibit vehicular movement. Contact the sale administrator for specific details of design and placement.

4.4 - Access

4.4.4 - Restricted access (10/05)

No vehicles may enter the open area ("G" type) to the northwest of Payment Unit 2, as shown on the Timber Sale Map. This area is a capped landfill and must not be disturbed.

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) 1-3, 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.

5.2.3.6 - 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.

5.2.4 - Dead and Down Creation

5.2.4.1 - Dead and down creation, marked trees (10/13)

All trees marked with an orange "X" must be felled and left on site for wildlife. These trees have been taken off the timber tally.

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

5.4.3 - Erosion control (12/08)

Skid trails or haul roads may require erosion control structures or berms per direction of the Unit Manager or his/her representative.

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 Davis Lake Road 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.

TIMBER SALE MAP

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

Forest Management Unit		County	Mapped By	Date	Page	of
Traverse City		Leelanau	Tim Webb	9/7/2021	1	1
			Cruised By			
Township	Range	Section(s) and Subdivision(s)		Scale		
28N	13W	Sec. 35: NESW,S1/2SW,SWSE		1:7,920		

Cover Type				Density	
A = Aspen	H = Hemlock	N = Marsh	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
B = Paper Birch	J = Jack Pine	O = Oak	UM = Upland Mixed	1 = Seedling Sapling Poor	6 = Pole Timber Well
C = Cedar	L = Lowland Brush	P = Lowland Poplar	V = Bog or Marsh	2 = Seedling Sapling Medium	7 = Saw Timber Poor
D = Treed Bog	LM = Lowland Mixed	Q = Mixed Swamp Conifer	W = White Pine	3 = Seedling Sapling Well	8 = Saw Timber Medium
E = Swamp Hardwoods	M = Mpl. Ech. Birch	R = Red Pine	X = Non Stocked	4 = Pole Timber Poor	9 = Saw Timber Well
F = Spruce Fir	MC = Mixed Conifer	S = Black Spruce	Z = Water		
G = Grass	MD = Mixed Deciduous	T = Tamarack			

<u>PU</u>	<u>Acres</u>	<u>PU</u>	<u>Acres</u>
1	4.1	4	14.3
2	24.0		
3	3.8		

Crows Mix
Compartment 2
46.2 Acres

