



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6973

SCHEDULED SALE DATE AND TIME: 4:00 p.m. (local time) on December 20, 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: Effective immediately: all bid openings for the Traverse City Management (Kalkaska Field Office and Traverse City Field Office) will be held at the Traverse City Field Office regardless of sale location within the unit. All payments will now be handled through the Traverse City Field Office. The Kalkaska Field Office will no longer accept payments or hard paper copies of timber sale bids. Payments for all contracts, use permits, bonds, etc. should be sent to the Traverse City Field Office.

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:

Monitor Mix (61-062-21) / T28N, R13W, SEC. 36, NW, W1/2NE, NESW, NWSE.

Leelanau County, Advertised Price \$35,721.15, 118.6 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.

TIMBER SALE INFORMATION

Monitor Mix (61-062-21)

T28N, R13W, SEC. 36.

Leelanau County (Advertised Price \$35,721.15)

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		
Beech	51.7 MBF	\$ 41.00 / MBF
Mixed Aspen	46.5 MBF	\$ 90.00 / MBF
Red Maple	10.0 MBF	\$ 128.00 / MBF
Sugar Maple	22.5 MBF	\$ 210.00 / MBF
Pulpwood		
Mixed Aspen	492 Cords	\$ 12.80 / Cord
Mixed Hardwood	347 Cords	\$ 13.30 / Cord
Red Pine	365 Cords	\$ 33.15 / Cord
White Pine	28 Cords	\$ 14.25 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 7.61 percent. There are an estimated 1,505 cords on this timber sale, plus or minus 115 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 \$1,786.06 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	13.6%
02	1.2%
03	37.5%
04	7.2%
05	29.2%
06	9.3%
07	2.0%

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>
118,925	1,505	7.61%	1,391	1,620

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
24	35,842	454	7.17%	421	486
30	20,430	259	24.02%	196	321
31	5,742	73	34.55%	48	98
48	15,751	199	20.47%	159	240
50	40,084	507	14.68%	433	582
TOTAL:	117,849	1,492		1,257	1,727

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
24	31.0	3	31.0
30	12.5	1	11.5
		2	1.0
31	4.6	6	4.6
48	56.4	4	43.9
		7	12.5
50	14.1	5	14.1
TOTAL:	118.6		118.6

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Beech	Sawtimber	4.5	MBF	11.5	\$4,875.60
	Mixed Aspen		16.0	MBF		
	<i>B. T. Aspen</i>		16.0	<i>MBF</i>		
	Red Maple	Pulpwood	1.3	MBF		
	Sugar Maple		3.0	MBF		
	Mixed Aspen		118	Cords		
	<i>B. T. Aspen</i>		118	<i>Cords</i>		
	Mixed Hardwood		71	Cords		
	<i>Beech</i>		11	<i>Cords</i>		
	<i>Ironwood</i>		3	<i>Cords</i>		
	<i>Red Maple</i>		4	<i>Cords</i>		
	<i>Sugar Maple</i>		53	<i>Cords</i>		
2	Beech	Sawtimber	0.4	MBF	1.0	\$426.00
	Mixed Aspen		1.4	MBF		
	<i>B. T. Aspen</i>		1.4	<i>MBF</i>		
	Red Maple	Pulpwood	0.1	MBF		
	Sugar Maple		0.3	MBF		
	Mixed Aspen		10	Cords		
	<i>B. T. Aspen</i>		10	<i>Cords</i>		
	Mixed Hardwood		6	Cords		
	<i>Beech</i>		1	<i>Cords</i>		
	<i>Sugar Maple</i>		5	<i>Cords</i>		
3	Sugar Maple	Sawtimber	0.5	MBF	31.0	\$13,400.25
	Mixed Aspen	Pulpwood	3	Cords		
	<i>Quaking Aspen</i>		3	<i>Cords</i>		
	Mixed Hardwood		57	Cords		
	<i>Black Cherry</i>		45	<i>Cords</i>		
	<i>Sugar Maple</i>		12	<i>Cords</i>		
	Red Pine		365	Cords		
	White Pine		28	Cords		
4	Beech	Sawtimber	33.8	MBF	43.9	\$2,556.20
	Mixed Hardwood	Pulpwood	88	Cords		
	<i>Beech</i>		88	<i>Cords</i>		
5	Beech	Sawtimber	3.4	MBF	14.1	\$10,427.70
	Mixed Aspen		21.7	MBF		
	<i>B. T. Aspen</i>		21.7	<i>MBF</i>		
	Red Maple	Pulpwood	5.5	MBF		
	Sugar Maple		10.2	MBF		
	Mixed Aspen		353	Cords		
	<i>B. T. Aspen</i>		338	<i>Cords</i>		
	<i>Quaking Aspen</i>		15	<i>Cords</i>		
	Mixed Hardwood		73	Cords		
	<i>Beech</i>		7	<i>Cords</i>		
	<i>Red Maple</i>		5	<i>Cords</i>		
	<i>Sugar Maple</i>		61	<i>Cords</i>		
6	Mixed Aspen	Sawtimber	7.4	MBF	4.6	\$3,309.30
	<i>B. T. Aspen</i>		6.8	<i>MBF</i>		
	<i>Quaking Aspen</i>		0.6	<i>MBF</i>		
	Red Maple	Pulpwood	3.1	MBF		
	Sugar Maple		8.5	MBF		
	Mixed Aspen		8	Cords		
	<i>B. T. Aspen</i>		3	<i>Cords</i>		
	<i>Quaking Aspen</i>		5	<i>Cords</i>		
	Mixed Hardwood		27	Cords		
	<i>Red Maple</i>		3	<i>Cords</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE	
6 con't	<i>Sugar Maple</i>	<i>Pulpwood</i>	24	<i>Cords</i>			
7	Beech	Sawtimber	9.6	MBF	12.5	\$726.10	
	Mixed Hardwood	Pulpwood	25	Cords			
	<i>Beech</i>		25	<i>Cords</i>			
TOTAL:			130.7	MBF			
TOTAL:			1,232	Cords			

Sale Specific Conditions & Requirements

Sale Name: Monitor Mix

Sale Number: 61-062-21 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 land are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. Retention patches are marked with double red paint marks; no harvesting activities may occur within these areas. 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) 1 and 5, cut all trees that are two (2) inches or more at DBH, except for any ash trees or trees marked with green paint. In addition, within the largest of the four cut patches in Payment Unit 1, do not cut any conifers.

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

Within Payment Unit(s) 2 and 6, 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, cut all beech greater than 2" at DBH unless marked with green paint, and all scotch pine; within Payment Unit 6, cut all aspen trees greater than 2" at DBH.

2.1.4 - Designated timber unit(s) (6/17)

Within Payment Unit(s) 4 and 7, all beech trees greater than 4" at DBH and less than 20" at DBH are designated for cutting regardless of merchantability.

2.1.8 - Designated plantation row unit(s) (12/08)

Within Payment Unit(s) 3, all trees which meet minimum piece specifications in 2.2 Utilization, within designated plantation rows are designated for cutting. Designated plantation rows begin with the third row in from the outside of the plantation, then continue every third row. Because of the variability of row direction, it shall be the responsibility of the Purchaser to maintain the third-row sequence.

2.2 - Utilization

2.2.4 - Skidding length (2/14)

Skidding of unlimbed tops or lengths over 17 feet is not permissible within Payment Units 2-4, 6, and 7 unless approved by the Unit Manager or his/her representative.

4 - Transportation

4.1 - Construction

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. 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

4.4.3 - Access gate (12/08)

The access gate must be locked at the completion of each day unless otherwise 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 24 inches in height.

5.2.1.10 - No slash in openings (5/10)

No brush or logging debris is to be left in the maintained wildlife opening which is indicated by "G" on the Timber Sale Map between Payment Units 4, 5, and 7. Any damage to the opening shall be repaired according to specifications of the Unit Manager or his/her representative.

5.2.3 - Operating Restrictions

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 2-4, 6, and 7, 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. Either cut these trees at 4 feet above ground level and place the cut trunk against the resulting high stump or cut at ground level and place the cut trunk against a small nearby tree retained for this purpose.

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.

5.5 - Protection of Improvements

5.5.3 - Protection of improvements detail (10/13)

There are several ground water monitoring wells in and near the west side of the Timber Sale Area, particularly in Payment Units 3, 5, and 6. Operators must use caution around these wells and avoid damaging them. The Purchaser is responsible for cost of repairs for any damage to these wells. Access roads leading to these wells from the adjacent Glen's Landfill property must always remain accessible by 2-wheel drive vehicles.

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.

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 highway M-72 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.

7 - Other Conditions

7.5 - Loss

7.5.1 - Deteriorating timber (7/09)

The sale area has received damage from beech bark disease. The Purchaser should harvest the wood as soon as possible. The Department of Natural Resources is held free of responsibility of any further damage or deterioration due to delay in harvesting.

**TIMBER SALE MAP**

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

Sale Number
61-062
Year
21Forest Management Unit
Traverse City
County
Leelanau
Mapped By
Tim Webb
Cruised By
Tim Webb
Date
09/28/2021
Page
1
of
1Township
28N
Range
13W
Section(s) and Subdivision(s)
Sec. 36: NW, W1/2NE, NESW, NWSE
Scale
1:7,920**Cover Type**

A = Aspen	H = Hemlock	N = Marsh	U = Upland Brush
B = Paper Birch	J = Jack Pine	O = Oak	UM = Upland Mixed
C = Cedar	L = Lowland Brush	P = Lowland Poplar	V = Bog or Marsh
D = Treed Bog	LM = Lowland Mixed	Q = Mixed Swamp Conifer	W = White Pine
E = Swamp Hardwoods	M = Mpl. Ech. Birch	R = Red Pine	X = Non Stocked
F = Spruce Fir	MC = Mixed Conifer	S = Black Spruce	Z = Water
G = Cress	MD = Mixed Deciduous	T = Tamarack	

Density

0 = Non Stocked	5 = Pole Timber Medium
1 = Seedling Sapling Poor	6 = Pole Timber Well
2 = Seedling Sapling Medium	7 = Saw Timber Poor
3 = Seedling Sapling Well	8 = Saw Timber Medium
4 = Pole Timber Poor	9 = Saw Timber Well

PU Acres	PU Acres	PU Acres
1 11.5	4 43.9	7 12.5
2 1.0	5 14.1	
3 31.0	6 4.6	

Monitor Mix
Compartment 2
118.6 acres