



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7425**

SCHEDULED SALE DATE AND TIME: 9:00 a.m. (local time) on May 23, 2024.

LOCATION: PIGEON RIVER COUNTRY MGMT UNIT, PO BOX 456, 9966 TWIN LAKES ROAD, VANDERBILT, MI

CONTACT NAME: Mark Monroe

PHONE NUMBER: (989) 983-4101

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, PIGEON RIVER COUNTRY MANAGEMENT UNIT, for certain timber on the following described lands:

Grass Lake Mix (53-016-23) / T32N, R01W, SEC. 5 , W1/2NE,NWSE,S1/2SE.

Otsego County, Advertised Price \$45,581.75, 31.3 Acres, Aspen, Red Pine.

SALE NOTE: Please note chipping requirements (2.2.2), operating restrictions (5.2.3.1), and equipment requirements (5.2.18).

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions.

TIMBER SALE INFORMATION

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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		
Mixed Aspen	51.5 MBF	\$ 46.00 / MBF
Red Maple	11.3 MBF	\$ 48.00 / MBF
Red Oak	18.6 MBF	\$ 72.00 / MBF
Red Pine	152.8 MBF	\$ 121.00 / MBF
White Pine	14.9 MBF	\$ 100.00 / MBF
Pulpwood		
Balsam Fir	11 Cords	\$ 24.20 / Cord
Jack Pine	15 Cords	\$ 11.45 / Cord
Mixed Aspen	595 Cords	\$ 20.15 / Cord
Mixed Hardwood	159 Cords	\$ 15.30 / Cord
Red Oak	9 Cords	\$ 33.75 / Cord
Red Pine	116 Cords	\$ 48.70 / Cord
White Pine	26 Cords	\$ 20.75 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 16.05 percent. There are an estimated 1,508 cords on this timber sale, plus or minus 242 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 \$4,558.18 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	33.5%
02	43.4%
03	5.1%
04	6.9%
05	11.1%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 12/31/2027.

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
119,152	1,508	16.05%	1,266	1,750

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
44	11,097	140	58.32%	59	222
52	7,371	93	107.25%	0	193
56	9,109	115	28.15%	83	148
64	81,474	1,031	19.95%	826	1,237
65	10,101	128	449.24%	0	702
TOTAL:	119,152	1,508		967	2,503

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
44	3.4	5	3.4
52	2.9	5	2.9
56	3.4	3	3.4
64	20.0	1	8.7
		2	11.3
65	1.6	4	1.6
TOTAL:	31.3		31.3

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Mixed Aspen	Sawtimber	10.8	MBF	8.7	\$15,289.80
	<i>B. T. Aspen</i>		9.8	<i>MBF</i>		
	<i>Quaking Aspen</i>		1.0	<i>MBF</i>		
	Red Maple		3.6	MBF		
	Red Oak		3.7	MBF		
	Red Pine		62.3	MBF		
	White Pine		5.1	MBF		
	Balsam Fir	Pulpwood	1	Cords		
	Jack Pine		7	Cords		
	Mixed Aspen		158	Cords		
	<i>B. T. Aspen</i>		150	<i>Cords</i>		
	<i>Quaking Aspen</i>		8	<i>Cords</i>		
	Mixed Hardwood		31	Cords		
	<i>Red Maple</i>		30	<i>Cords</i>		
	<i>Sugar Maple</i>		1	<i>Cords</i>		
	Red Oak		2	Cords		
	Red Pine		47	Cords		
	White Pine		9	Cords		
2	Mixed Aspen	Sawtimber	14.1	MBF	11.3	\$19,786.75
	<i>B. T. Aspen</i>		12.7	<i>MBF</i>		
	<i>Quaking Aspen</i>		1.4	<i>MBF</i>		
	Red Maple		4.7	MBF		
	Red Oak		4.8	MBF		
	Red Pine		81.0	MBF		
	White Pine		6.6	MBF		
	Balsam Fir	Pulpwood	2	Cords		
	Jack Pine		8	Cords		
	Mixed Aspen		205	Cords		
	<i>B. T. Aspen</i>		195	<i>Cords</i>		
	<i>Quaking Aspen</i>		10	<i>Cords</i>		
	Mixed Hardwood		39	Cords		
	<i>Red Maple</i>		38	<i>Cords</i>		
	<i>Sugar Maple</i>		1	<i>Cords</i>		
	Red Oak		2	Cords		
	Red Pine		60	Cords		
	White Pine		12	Cords		
3	Mixed Aspen	Sawtimber	4.5	MBF	3.4	\$2,331.40
	<i>B. T. Aspen</i>		4.5	<i>MBF</i>		
	Red Maple		1.2	MBF		
	Red Pine		1.9	MBF		
	Balsam Fir	Pulpwood	6	Cords		
	Mixed Aspen		58	Cords		
	<i>B. T. Aspen</i>		26	<i>Cords</i>		
	<i>Quaking Aspen</i>		32	<i>Cords</i>		
	Mixed Hardwood		31	Cords		
	<i>Paper Birch</i>		5	<i>Cords</i>		
	<i>Red Maple</i>		22	<i>Cords</i>		
	<i>Sugar Maple</i>		4	<i>Cords</i>		
	Red Pine		1	Cords		
4	Mixed Aspen	Sawtimber	13.7	MBF	1.6	\$3,127.60
	<i>B. T. Aspen</i>		11.1	<i>MBF</i>		
	<i>Quaking Aspen</i>		2.6	<i>MBF</i>		
	Red Maple		1.8	MBF		
	Red Pine	Pulpwood	5.2	MBF		
	Mixed Aspen		78	Cords		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
4 con't	<i>B. T. Aspen</i>	<i>Pulpwood</i>	63	<i>Cords</i>		
	<i>Quaking Aspen</i>		15	<i>Cords</i>		
	Mixed Hardwood		1	Cords		
	<i>Red Maple</i>		1	<i>Cords</i>		
	Red Pine		4	Cords		
5	Mixed Aspen	Sawtimber	8.4	MBF	6.3	\$5,046.20
	<i>B. T. Aspen</i>		8.4	<i>MBF</i>		
	Red Oak	Pulpwood	10.1	MBF		
	Red Pine		2.4	MBF		
	White Pine		3.2	MBF		
	Balsam Fir		2	Cords		
	Mixed Aspen		96	Cords		
	<i>B. T. Aspen</i>		53	<i>Cords</i>		
	<i>Quaking Aspen</i>		43	<i>Cords</i>		
	Mixed Hardwood		57	Cords		
	<i>Red Maple</i>		57	<i>Cords</i>		
	Red Oak		5	Cords		
	Red Pine		4	Cords		
	White Pine		5	Cords		
TOTAL:			249.1	MBF		
TOTAL:			931	Cords		

Sale Specific Conditions & Requirements

Sale Name: Grass Lake Mix

Sale Number: 53-016-23 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 red and yellow paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. Retention patches are marked with red paint; no harvesting activities may occur within these areas. Red and yellow painted boundary line trees are not Included Timber and are to be protected.

2 - Timber Specifications

2.1 - Included Timber

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

Within Payment Unit(s) #'s 3-5, cut all trees that are two (2) inches or more at DBH except do not cut green painted trees. In addition, in Payment Unit #3 do not cut any white pine. In Payment Unit #4 do not cut any oak.

2.1.7 - Leave tree marked unit(s) (6/14)

Within Payment Unit(s) #'s 1-2, cut all trees that are two (2) inches or more at DBH except do not cut paper birch and trees marked with green paint above and below stump height.

2.2 - Utilization

2.2.2 - Chipping required (2/18)

Payment Unit #'s 1-2 must be chip harvested. Products may be produced as roundwood and forwarded to decking areas in final product length, but the tops must be left intact and skidded to the landing for chipping in order to minimize the amount of residual slash and maximize the amount of ground scarification. 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).

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. No damage is acceptable to undesignated live merchantable trees. Within the sale area, if more than 10% of designated leave trees (> 4.5" DBH) within a specified area of the sale are damaged, liquidated damages will be assessed for all trees damaged. Rates will be in accordance with General Condition and Requirement 3.4 Damaged Timber.

In addition, extreme care should be taken to avoid damage to white pine and oak saplings less than four (4) inches DBH in Payment Unit #5, and any oak or spruce saplings less than four (4) inches DBH that are marked with green paint in Payment Unit #'s 1-2.

3.6 - Payment Unit Cutting Schedule

3.6.8 - Operating period (5/16)

Once cutting begins, operations must continue until all Payment Units are completed. In addition, all chipping must be completed during the designated time period.

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.

4.1.4 - 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.

4.1.7 - 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 double earthen berms at strategic locations. These roads must be rendered impassable to cars and trucks. Contact the sale administrator for specific details of design and placement.

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

5.2.2 - 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) #'s 1-2 cutting, skidding, chipping, and hauling are limited to the period of July 15 to November 1. This restriction is in place to avoid the oak wilt period and maximize soil scarification during the time period of optimal red pine seed production. No exceptions will be granted to this time period.

5.2.4 - Dead and Down Creation

5.2.4.3 - Dead and down creation, dead trees (6/07)

Except as provided for in General Condition and Requirement 5.2.2, no dead trees, standing or down, are to be cut, skidded, or processed.

5.2.4.7 - Dead and down creation: hare, grouse, deer and other species (5/15)

To improve horizontal cover habitat for snowshoe hare, grouse, deer, and other species, the Purchaser is to push over all trees marked with an orange "X". These trees should be tipped over with the root ball still attached so the base of the tree is suspended off the ground. The crown of the fallen tree should be at or near ground level after it is pushed over.

5.2.18 - Equipment requirements (1/09)

Within Payment Unit #'s 1-2, all trees and/or tops must be dragged to the landing with a grapple skidder.

5.2.29 - Shrub protection (1/20)

Do not cut or damage black cherry greater than 5 inches DBH. These woody-shrub plants are highly beneficial to various wildlife species.

5.2.31 - Landing locations (9/13)

The recommended landing area for Payment Unit #'s 1-4 is marked on the timber sale map with the letters "LD". Landings must be confined to these designated sites unless otherwise authorized by the Unit Manager or his/her representative. A new road will be required to reach this landing area and will be flagged in by the timber sale administrator.

5.2.32 - Decking/landing restoration (9/13)

All decking and landing areas must have the surface area restored to a condition equal to or better than before. This is to ensure the proper regeneration of the stand. Wood debris, chips and "cookies" from trimmings must be removed or scattered

away from landing and loading areas and may not be windrowed on the edge.

5.2.38 - No decking against live trees (2/04)

Cut products may not be decked against unmarked or designated leave trees.

5.2.40 - Pathway protection (10/10)

The High Country Pathway is a hiking trail and is shown on the Timber Sale Map, passing through Payment Unit #'s 4 and 5. Do not cut trees or damage posts with blue pathway markers. Do not run equipment down the pathway. Skidding across the trail may only occur in one location in each Payment Unit, as approved by the sale administrator.

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 25 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

5.8.3 - Red shoulder hawk or goshawk (1) (2/16)

In the event that an active red shoulder hawk or goshawk nest is found, the contract may be amended to protect the nest site until the nest is determined to be inactive. The value of the trees in this excluded area will be refunded or credited to the Purchaser. The nest will be buffered with a five-chain radius (eight acre) protection area, centered on the nest tree, in which there will be no cutting or new roads constructed. Avoid human disturbance, including loading and skidding, in the protection area.

An additional zone of five chains (ten chains centered on the active nest tree) will be established in which there is no management activity from March 15 to July 15 (NLP). Limit biomass harvesting and chipping operations within this ten-chain zone, retain the maximum one-third of residues per the Woody Biomass Harvesting Guidelines (Michigan DNR 2010). Nests determined to be inactive will be protected with a one-chain no-harvest buffer.

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 Grass 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.

6.2.3 - Recreational trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on the High Country Pathway prior to beginning operations. The trail must be posted at appropriate distances from the sale area to warn of logging activity and truck traffic at both ends of the trail. 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.

Sale Number	Year
53 - 016	23

Forest Management Unit Pigeon River Country	County Otsego	Mapped By Rekowski	Date 08/13/2023	Page 1	of 1
Township 32N	Range 01W	Section(s) and Subdivision(s) 5: W1/2NE, NWSE, S1/2SE	Scale 1:15,840		

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 = Tread Bog	LM = Lowland Mixed	Q = Mixed Swamp Conifer	W = White Pine
E = Swamp Hdwoods	M = Mpl, Bch, Brch	R = Red Pine	X = Non Stocked
F = Spruce Fir	MC = Mixed Conifer	S = Black Spruce	Z = Water
G = Grass	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
1	8.7	4	1.6
2	11.3	5	6.3
3	3.4		

Grass Lake Mix
Compartment 032
31.3 Acres**Legend****Sale Boundary**

- Against State (Red)
- Payment Unit (Yellow)
- Retention Area (Red X)
- Nearby Timber Sales
- Stand Boundaries
- Secondary Forest Road
- Gravel Road
- County Road - Seasonal
- Closed Roads
- Hiking Trail
- Perennial River
- Lakes
- Section Corners

