



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7416**

SCHEDULED SALE DATE AND TIME: 9:00 a.m. (local time) on April 15, 2024.

LOCATION: GRAYLING MGMT UNIT, 1955 HARTWICK PINES ROAD, GRAYLING, MI 49738.

CONTACT NAME: Thomas Barnes

PHONE NUMBER: (989) 348-6371

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

Unplugged Oak (72-626-23) / T26N, R04W, SEC. 34, SENE,SW,N1/2SE.

Crawford County, Advertised Price \$85,833.30, 72.1 Acres, Hardwood, Red Oak.

SALE NOTE: Sale is on non-certified military lands. Portions of this sale have an operating restriction for oak wilt. This sale has class A road access.

TIMBER SALE INFORMATION

Unplugged Oak (72-626-23)

T26N, R04W, SEC. 34.

Crawford County (Advertised Price \$85,833.30)

SALE NOTE: Sale is on non-certified military lands. Portions of this sale have an operating restriction for oak wilt. This sale has class A road access.

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		
Black/Red (Hybrid) Oak	188.2 MBF	\$ 158.00 / MBF
Red Maple	41.0 MBF	\$ 90.00 / MBF
Red Oak	159.4 MBF	\$ 145.00 / MBF
White Oak	7.8 MBF	\$ 126.00 / MBF
Pulpwood		
Mixed Aspen	33 Cords	\$ 30.65 / Cord
Mixed Hardwood	418 Cords	\$ 31.75 / Cord
Mixed Oak	388 Cords	\$ 26.55 / Cord
Paper Birch	4 Cords	\$ 22.55 / Cord
Red Oak	137 Cords	\$ 26.55 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 12.60 percent. There are an estimated 1,843 cords on this timber sale, plus or minus 232 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 \$4,291.67 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	23.9%
02	27.0%
03	29.8%
04	19.3%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2026.

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>
145,602	1,843	12.60%	1,611	2,075

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
20	47,959	607	26.09%	449	765
22	30,004	380	30.13%	265	494
23	40,409	512	24.30%	387	636
30	27,230	345	25.93%	255	434
TOTAL:	145,602	1,843		1,357	2,330

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
20	21.9	2	21.9
22	15.2	1	15.2
23	22.3	3	22.3
30	12.7	4	12.7
TOTAL:	72.1		72.1

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Maple	Sawtimber	1.1	MBF	15.2	\$20,530.15
	Red Oak		114.6	MBF		
	Mixed Hardwood	Pulpwood	34	Cords		
	Beech		17	Cords		
	Red Maple		13	Cords		
	Sugar Maple		4	Cords		
	Red Oak		103	Cords		
2	Red Maple	Sawtimber	39.9	MBF	21.9	\$23,180.90
	Red Oak		44.8	MBF		
	Mixed Aspen	Pulpwood	25	Cords		
	Quaking Aspen	Sawtimber	1.8	MBF		
	Quaking Aspen	Pulpwood	21	Cords		
	Mixed Hardwood		357	Cords		
	Sugar Maple	Sawtimber	1.5	MBF		
	Beech	Pulpwood	29	Cords		
	Red Maple		317	Cords		
	Sugar Maple		8	Cords		
	Paper Birch		4	Cords		
	Red Oak		34	Cords		
	3	Black/Red (Hybrid	Sawtimber	114.0		
White Oak			5.5	MBF		
Mixed Hardwood		Pulpwood	24	Cords		
Beech			4	Cords		
Red Maple			20	Cords		
Mixed Oak			228	Cords		
/Red (Hybrid) Oak			221	Cords		
White Oak			7	Cords		
4	Black/Red (Hybrid	Sawtimber	74.2	MBF	12.7	\$16,601.85
	White Oak		2.3	MBF		
	Mixed Aspen	Pulpwood	8	Cords		
	B. T. Aspen		8	Cords		
	Mixed Hardwood		3	Cords		
	Red Maple		3	Cords		
	Mixed Oak		160	Cords		
	/Red (Hybrid) Oak		130	Cords		
	White Oak		30	Cords		
TOTAL:			396.4	MBF		
TOTAL:			980	Cords		

Sale Specific Conditions & Requirements

Sale Name: Unplugged Oak

Sale Number: 72-626-23 Seq#: 2

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. The painted boundary line trees are not Included Timber and are to be protected, except for those along Military Road. Yellow painted trees 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, 3, & 4, cut all trees that are one (1) inch or more at DBH, except in Payment Units 1 & 4, do not cut any pine or trees marked with green paint.

Within Payment Unit 2, cut all trees that are two (2) inches or more at DBH, except do not cut pine, white oak, or trees marked with green paint.

2.2 - Utilization

2.2.2 - Chipping required (2/18)

This area must be chip harvested to meet National Guard requirements. However, the chipping requirement could be waived with military approval, if chip markets are depressed. The Purchaser has the option to produce sawlogs or pulpwood bolts, but the remaining portion of the trees must be chipped and hauled. The requirement to retain approximately 1/6 to 1/3 of treetops and limbs less than four inches in diameter does not apply (G. C. & R. 2.2). This is because this sale is on non-certified military lands.

2.2.3 - Stump heights (4/07)

Stump heights within the Sale Area shall not exceed 6 inches for all trees. This is in order to facilitate military requirements. A written waiver of this requirement may be obtained if wet summer weather makes winter logging necessary.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) may be divided at the request of the Purchaser and upon approval of the Unit Manager. Dividing Payment Units is a contract modification which requires a Timber Sale Contract Amendment. There will be only one division per Payment Unit.

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.

Within Payment Units 1, 2, & 4, if more than 20% of the tree seedlings or saplings (1/4" to 4.5" DBH) within a specified portion of the Sale Area are damaged, liquidated damages will be assessed at \$500 per acre for all acreage within that specified portion of the Sale Area that was damaged.

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. Rates will be in accordance with General Condition and Requirement 3.4 Damaged Timber, or at a rate of \$300 per sawtimber tree and \$50 per pole sized tree, whichever is greater.

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

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. Stumps and brush must be placed along the remainder of the trail. These roads must be rendered impassable to cars and trucks. Temporary berms may be required if no sale activity occurs for 30 or more consecutive days. Contact the Sale Administrator for specific details of design and placement.

4.1.11 - Permits (2/12)

The Purchaser will secure any necessary permits that may be required.

5 - Operations

5.1 - Notification

5.1.5 - National Guard notification (2/15)

This sale is upon lands utilized for training by the Michigan National Guard - Camp Grayling. A minimum of five (5) business days prior to opening this sale, the producer must request that the sale administrator contact the military for information regarding training plans that may impact sale 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

5.2.3.4 - Oak wilt restriction, no exceptions (1/18)

Within Payment Units 1, 2, & 4, 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. No exceptions will be granted. This is necessary to reduce the spread of oak wilt.

5.2.3.7 - National Guard training restriction (1/09)

Operations on this contract may not be allowed during National Guard training operations. Typically, the restricted period is from May 1 to October 31. The contractor must check with the Unit Manager who will coordinate the cutting schedule with the Military.

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.

5.4 - 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.

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 roads used for hauling adjacent to the Sale Area 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.

SKIP

6.4 - Unexploded ordinance (7/15)

Be aware that the sale area could contain UXO (unexploded ordinances). Do not touch, or drive over any metal objects. If any objects are found, please flag the area and notify the Unit Manager or his/her representative, so that they can make arrangements with the Military.

7 - Other Conditions

7.10 - Certified Timber

7.10.1 - Non-certified timber (2/16)

The area encompassed by this timber sale is not certified to the standards of the Forest Stewardship Council (FSC) or the Sustainable Forestry Initiative (SFI). Forest products from this sale may not be delivered to the mill as "FSC and / or SFI certified".



TIMBER SALE MAP

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

Sale Number

72-626-23

Date

10/13/2023

Forest Management Unit

County

Mapped By: Derek Nellis

Scale

Page

Of

Grayling Mgt Unit

Crawford

Cruised By: Derek Nellis

1:15,840

1

1

Township

Range

Section(s) and

Subdivision(s) Sec. 34 SENE,SW,N1/2SE;

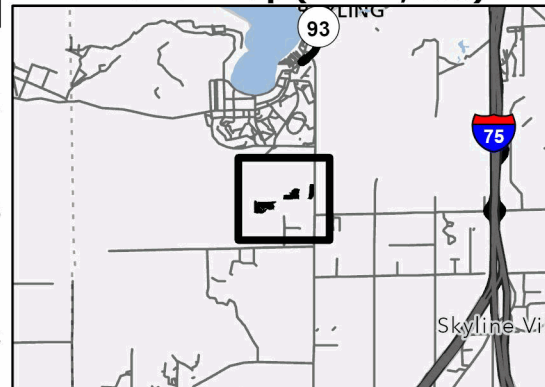
Cover Type

A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand
G = Grass	MD = Mixed Deciduous		Z = Water
H = Hemlock	N = Marsh		

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

Locator Map (1:200,000)



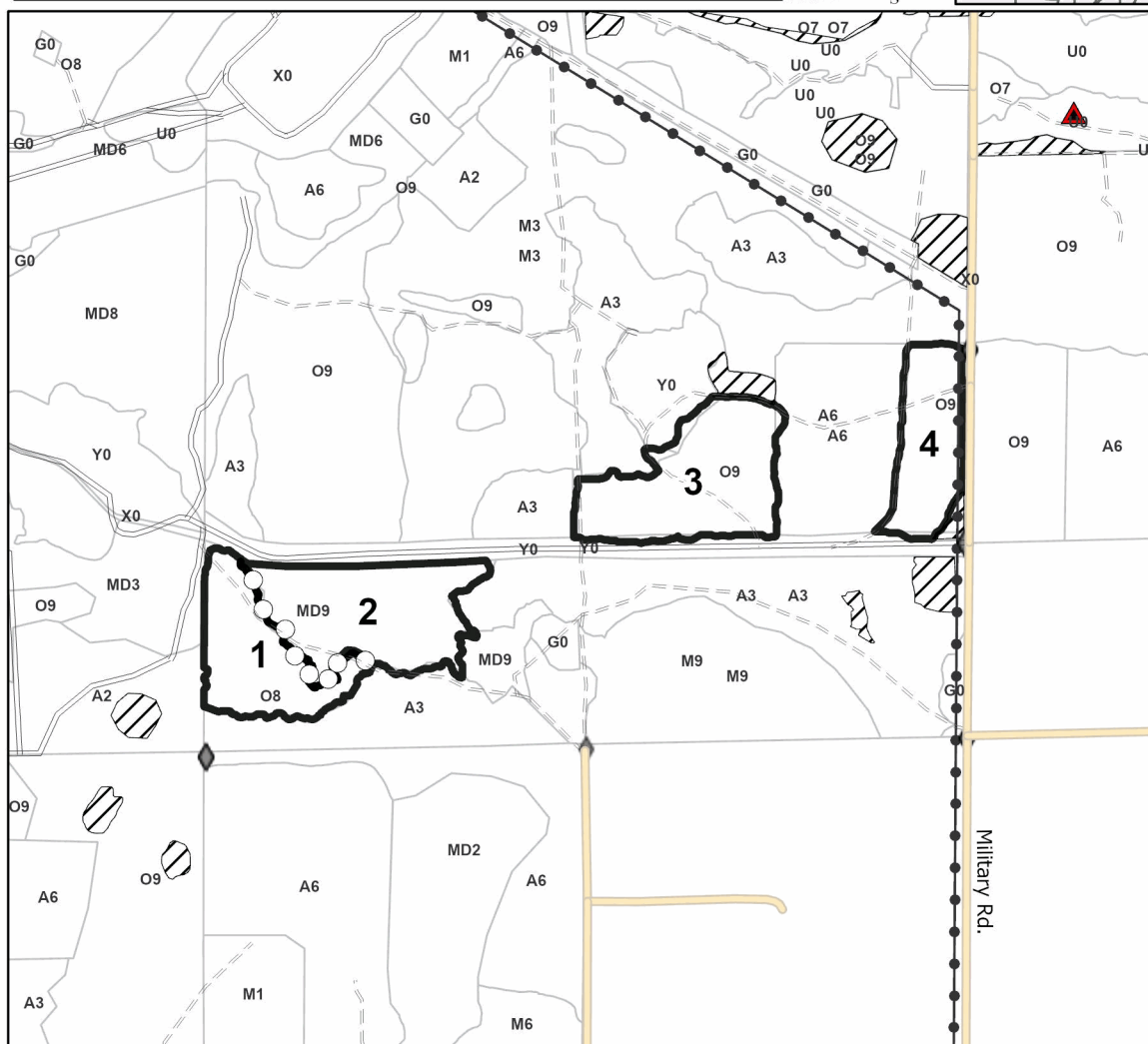
PU # Acres

1	15.2
2	21.9
3	22.3
4	12.7

Unplugged Oak

72.1 Acres

0 0.25 0.5 1 Miles



Legend

- Payment Unit (Red)
- Stand
- Retention Areas
- Payment Unit (Yellow)
- Powerline
- Primary Forest Road
- Secondary Forest Road
- Forest Access Route
- Administrative Access Only
- Non-DNR Road
- Field Grade Corner
- CampGraylingLandNavMarkers

