



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7424**

SCHEDULED SALE DATE AND TIME: 9:00 a.m. (local time) on May 13, 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:

Lost And Never Found (72-015-22) / T25N, R03W, SEC. 19, NWNW.

T25N, R03W, SEC. 20, SENW, S1/2NE.

T25N, R03W, SEC. 21, N1/2NW, NWNE.

Crawford County, Advertised Price \$37,939.10, 91.7 Acres, Hardwood, White Pine.

SALE NOTE: Sale was prepared and cruised by summer students. Due to a high achieved error, minimum bid prices were reduced by an additional 20%. In addition, this sale contains soft oak wilt restrictions. Furthermore, chipping and low stumps are required for planting operations. Access to Payment Unit 2 is shown on the map and via right-of-way marked and included in Payment Unit 2 acreage. Purchaser is responsible for obtaining permission through private property if desired.

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

Lost And Never Found (72-015-22)

T25N, R03W, SEC. 19; T25N, R03W, SEC. 20; T25N, R03W, SEC. 21.

Crawford County (Advertised Price \$37,939.10)

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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.

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		
Northern Pin Oak	61.7 MBF	\$ 55.00 / MBF
Red Pine	119.2 MBF	\$ 99.00 / MBF
White Oak	15.2 MBF	\$ 92.00 / MBF
White Pine	86.9 MBF	\$ 57.00 / MBF
Pulpwood		
Balsam Fir	4 Cords	\$ 28.55 / Cord
Jack Pine	75 Cords	\$ 16.95 / Cord
Mixed Aspen	31 Cords	\$ 22.45 / Cord
Mixed Hardwood	124 Cords	\$ 23.30 / Cord
Mixed Oak	278 Cords	\$ 19.50 / Cord
Red Pine	52 Cords	\$ 41.25 / Cord
Scotch Pine	10 Cords	\$ 6.60 / Cord
White Pine	210 Cords	\$ 18.05 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 40.01 percent. There are an estimated 1,454 cords on this timber sale, plus or minus 582 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 \$1,896.96 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	8.7%
02	11.2%
03	61.7%
04	1.8%
05	16.6%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 09/30/2026.

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.

VOLUME			STATISTICAL RANGE IN CORDS	
TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
114,841	1,454	40.01%	872	2,035

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
1	12,602	160	36.03%	102	217
10	13,635	173	49.06%	88	257
13	1,224	15	150.97%	0	39
21	63,059	798	25.77%	593	1,004
23	2,315	29	138.53%	0	70
26	22,007	279	41.26%	164	394
TOTAL:	114,841	1,454		946	1,980

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
1	10.2	1	10.2
10	11.8	2	11.8
13	1.0	2	1.0
21	38.4	3	38.4
23	3.4	4	3.4
26	26.9	5	26.9
TOTAL:	91.7		91.7

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Northern Pin Oak	Sawtimber	2.7	MBF	10.2	\$3,284.35
	Red Pine		5.1	MBF		
	Jack Pine	Pulpwood	66	Cords		
	<i>Jack Pine</i>	<i>Sawtimber</i>	<i>10.7</i>	<i>MBF</i>		
	<i>Jack Pine</i>	<i>Pulpwood</i>	<i>45</i>	<i>Cords</i>		
	Mixed Hardwood		5	Cords		
	<i>Red Maple</i>	<i>Sawtimber</i>	<i>1.6</i>	<i>MBF</i>		
	<i>Red Maple</i>	<i>Pulpwood</i>	<i>2</i>	<i>Cords</i>		
	Mixed Oak		61	Cords		
	<i>Northern Pin Oak</i>		<i>56</i>	<i>Cords</i>		
	<i>White Oak</i>		<i>5</i>	<i>Cords</i>		
	Red Pine		5	Cords		
2	Northern Pin Oak	Sawtimber	12.5	MBF	12.8	\$4,253.25
	White Oak		7.6	MBF		
	White Pine		2.0	MBF		
	Mixed Aspen	Pulpwood	31	Cords		
	<i>B. T. Aspen</i>	<i>Sawtimber</i>	<i>4.3</i>	<i>MBF</i>		
	<i>B. T. Aspen</i>	<i>Pulpwood</i>	<i>16</i>	<i>Cords</i>		
	<i>Quaking Aspen</i>		<i>6</i>	<i>Cords</i>		
	Mixed Hardwood		23	Cords		
	<i>Red Maple</i>	<i>Sawtimber</i>	<i>4.9</i>	<i>MBF</i>		
	<i>Black Cherry</i>	<i>Pulpwood</i>	<i>2</i>	<i>Cords</i>		
	<i>Red Maple</i>		<i>11</i>	<i>Cords</i>		
	Mixed Oak		28	Cords		
	<i>Northern Pin Oak</i>		<i>12</i>	<i>Cords</i>		
	<i>White Oak</i>		<i>16</i>	<i>Cords</i>		
	White Pine		54	Cords		
3	Northern Pin Oak	Sawtimber	19.5	MBF	38.4	\$23,406.60
	Red Pine		107.1	MBF		
	White Oak		7.6	MBF		
	White Pine		60.4	MBF		
	Balsam Fir	Pulpwood	4	Cords		
	Mixed Hardwood		54	Cords		
	<i>Black Cherry</i>	<i>Sawtimber</i>	<i>1.2</i>	<i>MBF</i>		
	<i>Red Maple</i>		<i>3.7</i>	<i>MBF</i>		
	<i>Black Cherry</i>	<i>Pulpwood</i>	<i>14</i>	<i>Cords</i>		
	<i>Red Maple</i>		<i>31</i>	<i>Cords</i>		
	Mixed Oak		120	Cords		
	<i>Northern Pin Oak</i>		<i>68</i>	<i>Cords</i>		
	<i>White Oak</i>		<i>52</i>	<i>Cords</i>		
	Red Pine		46	Cords		
	Scotch Pine		10	Cords		
	White Pine		106	Cords		
4	White Pine	Sawtimber	5.0	MBF	3.4	\$693.90
	Mixed Hardwood	Pulpwood	16	Cords		
	<i>Black Cherry</i>	<i>Sawtimber</i>	<i>0.9</i>	<i>MBF</i>		
	<i>Black Cherry</i>	<i>Pulpwood</i>	<i>14</i>	<i>Cords</i>		
	White Pine		2	Cords		
5	Northern Pin Oak	Sawtimber	27.0	MBF	26.9	\$6,301.00
	Red Pine		7.0	MBF		
	White Pine		19.5	MBF		
	Jack Pine	Pulpwood	9	Cords		
	<i>Jack Pine</i>		<i>9</i>	<i>Cords</i>		
	Mixed Hardwood		26	Cords		
	<i>Black Cherry</i>		<i>15</i>	<i>Cords</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	<i>Red Maple</i>	<i>Pulpwood</i>	<i>11</i>	<i>Cords</i>		
	Mixed Oak		69	Cords		
	<i>Northern Pin Oak</i>		63	<i>Cords</i>		
	<i>White Oak</i>		6	<i>Cords</i>		
	Red Pine		1	Cords		
	White Pine		48	Cords		
TOTAL:			283.0	MBF		
TOTAL:			784	Cords		

Sale Specific Conditions & Requirements

Sale Name: Lost And Never Found

Sale Number: 72-015-22 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 blue, red and yellow paint, along with unpainted boundaries. Exterior sale boundary lines against private property are marked with blue paint, in addition to unpainted boundaries along roads (see Timber Sale Map). Exterior sale boundary lines against state are marked with red paint, in addition to unpainted boundaries along roads and ROWs (see Timber Sale Map). 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. 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) 1-5, cut all trees that are two (2) inches or more at DBH, except do not cut apple trees or trees marked with green paint. Special protection trees identified in accordance with condition 3.4.2, within clearcutting unit boundaries, are not Included Timber and are to be protected. Special protection areas identified in accordance with condition 3.4.3, within clearcutting unit boundaries, are not Included Timber and are to be protected.

2.2 - Utilization

2.2.2 - Chipping required (2/18)

Payment Unit(s) 3-5, 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 and hauled. 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(s) 1, & 3-5, shall not exceed 6 inches for all trees. This is in order to facilitate planting operations. 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

3.4.2 - Special Protection Trees (4/14)

The Purchaser shall not cut live or dead special protection trees within cutting units or clearings. Special protection trees are apple trees and green marked legacy trees. If the Purchaser's operations have cut or damaged special protection trees through carelessness, the Purchaser shall pay \$300 as fixed, agreed and liquidated damages for each special protection tree cut or damaged. Such payment does not constitute ownership of the undesignated timber.

3.4.3 - Special Protection Areas (8/11)

The Purchaser shall protect special protection areas from damage by the Purchaser's operations. Special protection areas are

marked with a red boundary line. The Purchaser shall not cut live or dead trees within special protection areas.

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 chipped, utilized or otherwise removed from the sale. 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. These roads must be rendered impassable to cars and trucks. 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.

4.1.11 - Permits (2/12)

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

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

5.1.6 - Utility R.O.W. (4/19)

It is the responsibility of the Purchaser to obtain permission from the utility company to utilize the power line R.O.W. for 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

5.2.3.5 - Oak wilt restriction (1/18)

Within Payment Unit(s) 1-5, 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.

5.2.29 - Shrub protection (1/20)

Reasonable care should be taken to avoid cutting or damaging hawthorn or junberry. These woody-shrub plants are highly beneficial to various wildlife species. Do not cut or damage any apple trees.

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.

5.2.37 - No decking areas (12/08)

No decking is allowed within portions of the Sale Area identified on the Timber Sale Map as "No Decking".

5.2.39 - ORV trail/route protection (4/18)

7 Mile Road is also designated as a snowmobile/ORV route and is shown on the Timber Sale Map. Do not cut trees or damage posts with trail markers.

5.7 - Protection of Historical Sites

5.7.1 - Historical sites (7/12)

The Purchaser shall not cut live or dead trees or operate equipment within historical sites. Historical sites are marked with a red boundary line. The Purchaser shall protect historical sites from damage by the Purchaser's operations. If Purchaser's operations have cut or damaged historical sites through carelessness, the Purchaser shall pay \$500 as fixed, agreed and liquidated damages for each acre or part thereof cut or damaged.

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 7 Mile Rd, Merrio Rd, and Old 27, 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**

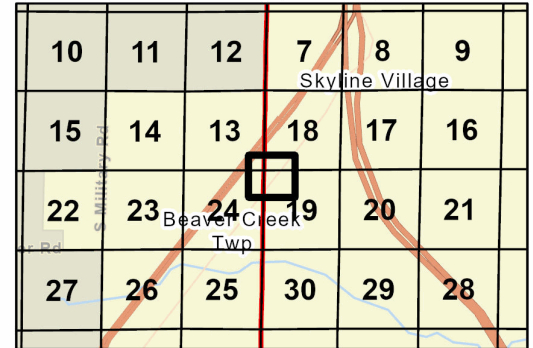
This information provided by authority of Part 525, 1994 PA 451, as amended.

Sale Number
72-015-22Date
12/06/2023Forest Management Unit
GraylingCounty
CrawfordMapped By: Anna Pike, Hoffman
Cruised By: Anna PikeScale
1:7,920Page
1Of
2Township
25NRange
03WSection(s) and
Subdivision(s)
Sec. 19 NWNW; Sec. 20 SENW,S1/2NE; Sec. 21 N1/2NW,NWNE**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

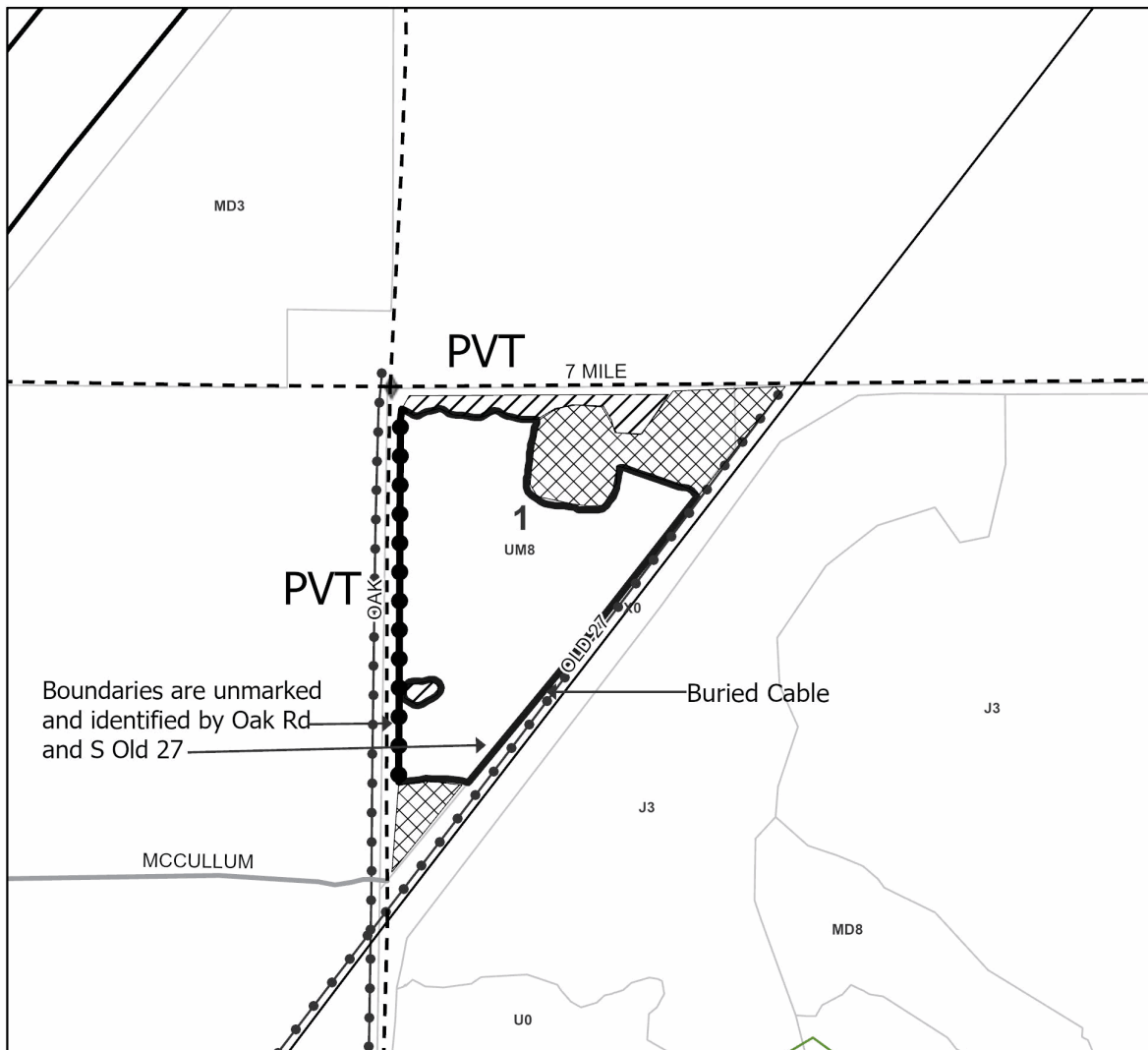
0 = Non Stocked	5 = Pole Timber Medium
1 = Seedling Sapling Poor	6 = Pole Timber Well
2 = Seedling Sapling Medium	7 = Saw Timber Poor
3 = Seedling Sapling Well	8 = Saw Timber Medium
4 = Pole Timber Poor	9 = Saw Timber Well

Locator Map (1:200,000)

PU #	Acres
1	10.2
2	12.8
3	38.4
4	3.4
5	26.9

**Lost and Never
Found
Comp 227
91.7 Acres**

0 0.13 0.25 0.5 Miles

**Legend**

- Against State (Red or Unmarked)
- Private Line (Blue/Unmarked)
- Paved Road
- Gravel Road
- Private Road
- Highway
- Field Grade Corner
- Powerline
- New Temp Road Location
- Retention Areas
- Stand
- No Decking

Use QR Code to open Map in App



TIMBER SALE MAP

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

Sale Number
72-015-22

Date
12/06/2023

Forest Management Unit		County	Mapped By: Anna Pike, Hoffman	Scale 1:20,000	Page 2	Of 2
Grayling		Crawford	Cruised By: Anna Pike			
Township 25N	Range 03W	Section(s) and Subdivision(s)	Sec. 19 NWNW; Sec. 20 SENW,S1/2NE; Sec. 21 N1/2NW,NWNE			

Cover Type

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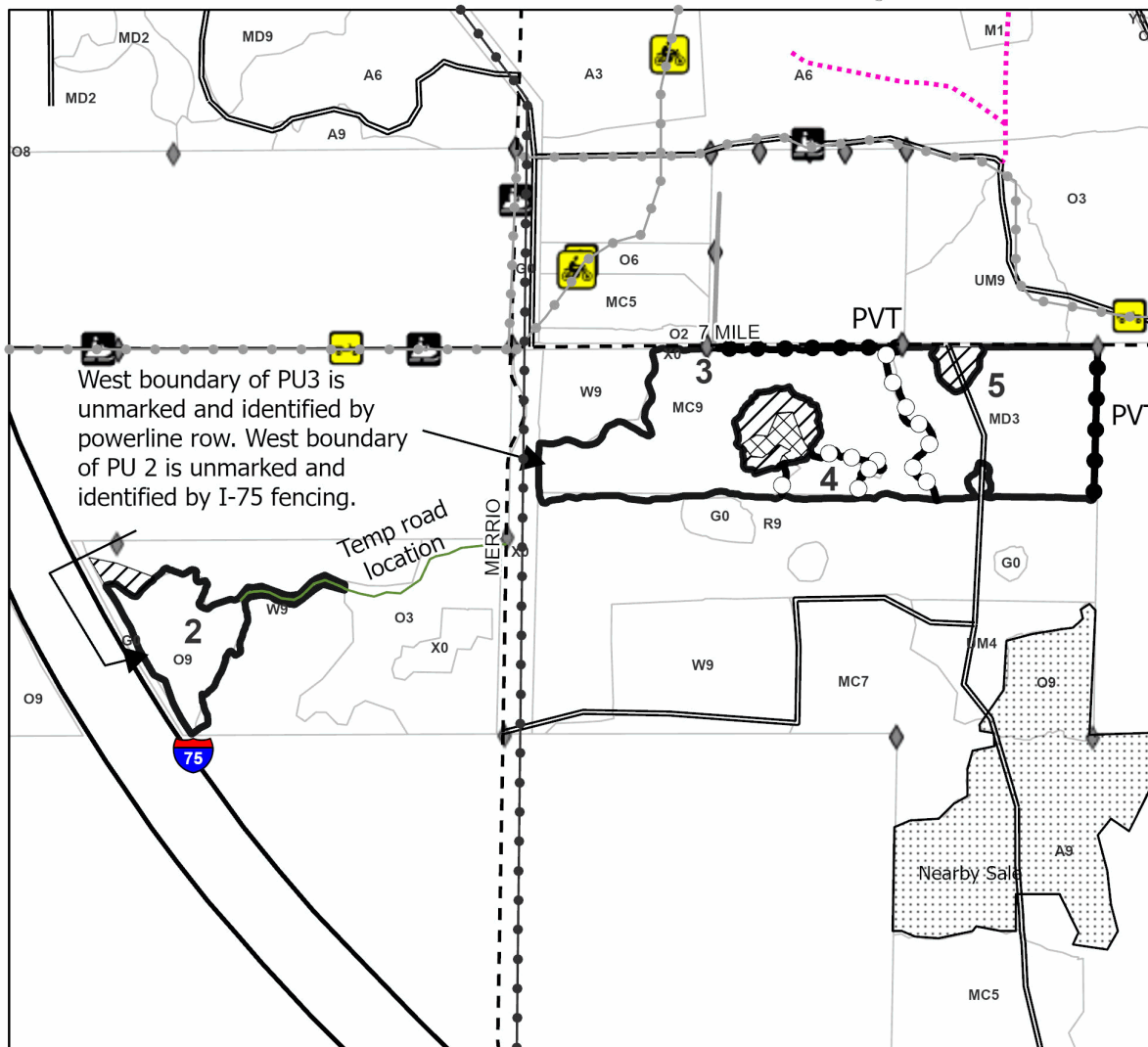
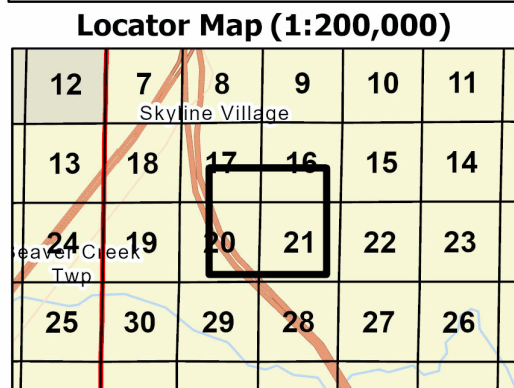
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PU #	Acres
1	1.00
2	1.00
3	1.00
4	1.00
5	1.00
6	1.00
7	1.00
8	1.00
9	1.00
10	1.00
11	1.00
12	1.00
13	1.00
14	1.00
15	1.00
16	1.00
17	1.00
18	1.00
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91	1.00
92	1.00
93	1.00
94	1.00
95	1.00
96	1.00
97	1.00
98	1.00
99	1.00
100	1.00

1	10.2
2	12.8
3	38.4
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**Lost and Never
Found**
Comp 227
91.7 Acres



Legend

-  Against State (Red or Unmarked)
-  Payment Unit (Yellow)
-  Private Line (Blue/Unmarked)
-  Secondary Forest Road
-  Paved Road
-  Gravel Road
-  Private Road
-  Temporary Management Access
-  Highway
-  Field Grade Corner
-  New Temp Road Location
-  Retention Areas
-  Stand
-  No Decking
-  Powerline
-  Nearly Sale
-  Recreational Trail

Use QR Code to open Map in App

