



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7055**

SCHEDULED SALE DATE AND TIME: 9:00 a.m. (local time) on May 9, 2022.

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:

Which Way Pine (72-022-21) / T28N, R01E, SEC. 17, S1/2SW.

T28N, R01E, SEC. 18, SESE.

T28N, R01E, SEC. 19, E1/2NE.

T28N, R01E, SEC. 20, NW,N1/2SW,SESW,W1/2SE.

Oscoda County, Advertised Price \$64,662.00, 235.3 Acres, Jack Pine, 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.

- See sale specs 5.2.41 and 6.2.2 for information on local snowmobile trail.

- See sale spec 2.2.10 for information on chipping of top restrictions.

Large sale size.

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

Which Way Pine (72-022-21)

T28N, R01E, SEC. 17; T28N, R01E, SEC. 18; T28N, R01E, SEC. 19; T28N, R01E, SEC. 20.
Oscoda County (Advertised Price \$64,662.00)

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

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Large sale size.

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		
Mixed Oak	19.0 MBF	\$ 91.00 / MBF
Red Maple	10.3 MBF	\$ 44.00 / MBF
Red Pine	221.4 MBF	\$ 81.00 / MBF
White Oak	12.4 MBF	\$ 61.00 / MBF
Pulpwood		
Balsam Fir	76 Cords	\$ 8.25 / Cord
Jack Pine	2,131 Cords	\$ 13.95 / Cord
Mixed Hardwood	243 Cords	\$ 21.90 / Cord
Quaking Aspen	104 Cords	\$ 22.65 / Cord
Red Pine	199 Cords	\$ 28.25 / Cord
White Pine	7 Cords	\$ 19.50 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 4.26 percent. There are an estimated 3,331 cords on this timber sale, plus or minus 142 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 \$3,233.10 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	20.7%
02	21.7%
03	3.6%
04	15.2%
05	17.2%
06	8.6%
07	13.0%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2025.

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
263,150	3,331	4.26%	3,189	3,473

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.

VDU	VOLUME		PERCENT ERROR	RANGE IN CORDS	
	TOTAL CUBIC FEET	TOTAL CORDS		MINIMUM	MAXIMUM
21	46,272	586	9.88%	528	644
30	16,790	213	18.01%	174	251
31	56,881	720	9.69%	650	790
32	33,960	430	14.04%	370	490
66	31,284	396	7.34%	367	425
67	17,204	218	14.04%	187	248
74	30,429	385	12.57%	337	434
132	30,330	384	13.56%	332	436
TOTAL:	263,150	3,331		2,945	3,717

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
21	41.6	6	13.0
		7	28.6
30	11.4	5	11.4
		2	38.6
31	65.1	4	26.5
		2	15.5
32	26.7	4	11.2
		3	14.0
66	36.3	6	14.4
		7	7.9
67	10.2	5	10.2
74	18.8	1	18.8
132	25.2	1	25.2
TOTAL:	235.3		235.3

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Maple	Sawtimber	5.0	MBF	44.0	\$13,415.55
	Red Pine		38.1	MBF		
	White Oak		7.0	MBF		
	Balsam Fir	Pulpwood	17	Cords		
	<i>Balsam Fir</i>		17	<i>Cords</i>		
	Jack Pine		535	Cords		
	<i>Jack Pine</i>	Sawtimber	22.8	<i>MBF</i>		
	<i>Jack Pine</i>	Pulpwood	489	<i>Cords</i>		
	Mixed Hardwood		73	Cords		
	<i>Northern Pin Oak</i>		31	<i>Cords</i>		
	<i>Red Maple</i>		11	<i>Cords</i>		
	<i>White Oak</i>		31	<i>Cords</i>		
	Red Pine		17	Cords		
	2	Mixed Oak	Sawtimber	4.7		
<i>Northern Pin Oak</i>			4.7	<i>MBF</i>		
Red Pine			60.9	MBF		
Balsam Fir		Pulpwood	5	Cords		
<i>Balsam Fir</i>		Sawtimber	1.5	<i>MBF</i>		
<i>Balsam Fir</i>		Pulpwood	2	<i>Cords</i>		
Jack Pine			420	Cords		
<i>Jack Pine</i>		Sawtimber	10.7	<i>MBF</i>		
<i>Jack Pine</i>		Pulpwood	399	<i>Cords</i>		
Mixed Hardwood			40	Cords		
<i>Black Cherry</i>			6	<i>Cords</i>		
<i>Northern Pin Oak</i>			32	<i>Cords</i>		
<i>White Oak</i>			2	<i>Cords</i>		
Quaking Aspen			25	Cords		
<i>Quaking Aspen</i>		25	<i>Cords</i>			
Red Pine		47	Cords			
3	Red Pine	Sawtimber	3.1	MBF	14.0	\$2,308.85
	Balsam Fir	Pulpwood	3	Cords		
	<i>Balsam Fir</i>		3	<i>Cords</i>		
	Jack Pine		118	Cords		
	<i>Jack Pine</i>		118	<i>Cords</i>		
	Mixed Hardwood		5	Cords		
	<i>BI/R/Hybrid Oak</i>		3	<i>Cords</i>		
	<i>Red Maple</i>		2	<i>Cords</i>		
	Quaking Aspen		11	Cords		
	<i>Quaking Aspen</i>		11	<i>Cords</i>		
Red Pine		1	Cords			
4	Mixed Oak	Sawtimber	3.3	MBF	37.7	\$9,797.80
	<i>Northern Pin Oak</i>		3.3	<i>MBF</i>		
	Red Pine		42.9	MBF		
	Balsam Fir	Pulpwood	4	Cords		
	<i>Balsam Fir</i>	Sawtimber	1.0	<i>MBF</i>		
	<i>Balsam Fir</i>	Pulpwood	2	<i>Cords</i>		
	Jack Pine		293	Cords		
	<i>Jack Pine</i>	Sawtimber	7.7	<i>MBF</i>		
	<i>Jack Pine</i>	Pulpwood	278	<i>Cords</i>		
	Mixed Hardwood		28	Cords		
	<i>Black Cherry</i>		4	<i>Cords</i>		
	<i>Northern Pin Oak</i>		22	<i>Cords</i>		
	<i>White Oak</i>		2	<i>Cords</i>		
	Quaking Aspen		17	Cords		
<i>Quaking Aspen</i>		17	<i>Cords</i>			

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
4 con't	Red Pine	Pulpwood	32	Cords		
5	Mixed Oak	Sawtimber	6.6	MBF	21.6	\$11,150.05
	<i>BI/R/Hybrid Oak</i>		6.6	<i>MBF</i>		
	Red Maple		1.7	MBF		
	Red Pine		63.2	MBF		
	Balsam Fir	Pulpwood	14	Cords		
	<i>Balsam Fir</i>	<i>Sawtimber</i>	2.9	<i>MBF</i>		
	<i>Balsam Fir</i>	<i>Pulpwood</i>	8	<i>Cords</i>		
	Jack Pine		123	Cords		
	<i>Jack Pine</i>	<i>Sawtimber</i>	8.1	<i>MBF</i>		
	<i>Jack Pine</i>	<i>Pulpwood</i>	107	<i>Cords</i>		
	Mixed Hardwood		13	Cords		
	<i>BI/R/Hybrid Oak</i>		8	<i>Cords</i>		
	<i>Red Maple</i>		5	<i>Cords</i>		
	Quaking Aspen		21	Cords		
	<i>Quaking Aspen</i>		21	<i>Cords</i>		
	Red Pine		93	Cords		
	White Pine		7	Cords		
	<i>White Pine</i>	<i>Sawtimber</i>	0.9	<i>MBF</i>		
	<i>White Pine</i>	<i>Pulpwood</i>	5	<i>Cords</i>		
6	Mixed Oak	Sawtimber	1.4	MBF	27.4	\$5,554.85
	<i>BI/R/Hybrid Oak</i>		1.4	<i>MBF</i>		
	Red Maple		1.1	MBF		
	Red Pine		5.8	MBF		
	White Oak		1.7	MBF		
	Balsam Fir	Pulpwood	12	Cords		
	<i>Balsam Fir</i>		12	<i>Cords</i>		
	Jack Pine		263	Cords		
	<i>Jack Pine</i>	<i>Sawtimber</i>	23.5	<i>MBF</i>		
	<i>Jack Pine</i>	<i>Pulpwood</i>	216	<i>Cords</i>		
	Mixed Hardwood		28	Cords		
	<i>BI/R/Hybrid Oak</i>		17	<i>Cords</i>		
	<i>Red Maple</i>		4	<i>Cords</i>		
	<i>White Oak</i>		7	<i>Cords</i>		
	Quaking Aspen		15	Cords		
	<i>Quaking Aspen</i>	<i>Sawtimber</i>	0.7	<i>MBF</i>		
	<i>Quaking Aspen</i>	<i>Pulpwood</i>	14	<i>Cords</i>		
	Red Pine		3	Cords		
7	Mixed Oak	Sawtimber	3.0	MBF	36.5	\$8,390.10
	<i>BI/R/Hybrid Oak</i>		3.0	<i>MBF</i>		
	Red Maple		2.5	MBF		
	Red Pine		7.4	MBF		
	White Oak		3.7	MBF		
	Balsam Fir	Pulpwood	21	Cords		
	<i>Balsam Fir</i>		21	<i>Cords</i>		
	Jack Pine		378	Cords		
	<i>Jack Pine</i>	<i>Sawtimber</i>	51.6	<i>MBF</i>		
	<i>Jack Pine</i>	<i>Pulpwood</i>	275	<i>Cords</i>		
	Mixed Hardwood		56	Cords		
	<i>BI/R/Hybrid Oak</i>		33	<i>Cords</i>		
	<i>Red Maple</i>		7	<i>Cords</i>		
	<i>White Oak</i>		16	<i>Cords</i>		
	Quaking Aspen		15	Cords		
	<i>Quaking Aspen</i>	<i>Sawtimber</i>	1.5	<i>MBF</i>		
	<i>Quaking Aspen</i>	<i>Pulpwood</i>	12	<i>Cords</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
7 con't	Red Pine	Pulpwood	6	Cords		
TOTAL:			263.1	MBF		
TOTAL:			2,759	Cords		

Sale Specific Conditions & Requirements

Sale Name: Which Way Pine

Sale Number: 72-022-21 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. Exterior sale boundary lines against private property are marked with blue paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. The powerline is an unpainted Payment Unit boundary. The retention islands between Payment Units 6 and 7, and 4 and 2 are designated as a Payment Unit boundary. The north/south road along the east side of Payment Unit 3 is an unpainted Payment Unit boundary. 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) 1-7, cut all trees that are two (2) inches or more at DBH, except any pine greater than 26" at DBH.

2.1.11 - Description of timber note (2/04)

Note that mixed Hardwood pulpwood contains hybrid oak, pin oak, white oak, red maple, and black cherry. Also note that mixed oak Sawtimber includes black/red hybrid and pin oak.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within the Sale Area shall not exceed 6 inches for all trees. This is to facilitate planting operations. If harvested with snow on conditions, the Purchaser may be required to come back after snowmelt to cut stumps to specified height.

2.2.10 - No chipping tops and limbs (8/16)

Within Payment Unit(s) 1-7, chipping of tops is not permitted. Limbs and the remaining top must be left on site and scattered.

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.

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.

4.1.6 - 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. Stumps and brush must be placed along the remainder of the trail. 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.

4.2 - 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

5.1 - Notification

5.1.3 - Well heads and natural gas pipelines (11/15)

The Purchaser is responsible for contacting the gas or pipeline company and MISS DIG 14 days prior to operating equipment in the vicinity of well heads or natural gas pipelines.

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 R.O.W. for 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.

5.2.1.11 - Slash for reforestation (3/21)

To facilitate reforestation, the Sale Area shall be left with slash evenly distributed. Bunched tops within the cutting area shall be broken up and scattered. Processing sites shall not be left with a compacted layer of slash; tops from these sites shall be hauled back into the cut area and scattered.

5.2.1.13 - Dispose of slash as directed (12/05)

Slash is to be disposed of as directed by the sale administrator.

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.

5.2.32 - 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.

5.2.41 - Snowmobile trail protection (9/11)

Snowmobile trail LP 4_9 is within the vicinity and runs down Henning Road. This is shown on the Timber Sale Map. Do not cut or damage posts with orange trail markers or traffic control signs. If the trail is used, it must be maintained and restored to a condition equal to or better than before the sale. The road maintenance/restoration must be done prior to December 1. If the trail is used for hauling, it must be graded to the satisfaction of the Unit Manager or his/her representative prior to December 1. If the trail road is to be used for hauling during the snowmobile season, then a snow-covered base must be left

on the trail. The snowmobile trail will not be used between December 1 and March 31 without written approval from the Unit Manager. No decking of forest products will be permitted along the snowmobile trail.

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.

5.8 - Protection of Endangered Species

5.8.1 - Kirtland's warbler (1) (10/12)

This sale is adjacent to a young jack pine stand which may be used by the endangered Kirtland's Warbler. The Department reserves the right to temporarily restrict all harvesting operations in a buffer zone of up to 500 feet if it is determined that Warbler territory has been established in the adjacent stand. The restricted period, if put into effect, would apply from May 1 to August 15.

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 Henning 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.

6.2.2 - Snowmobile trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on LP 4_9 prior to beginning operations during the snowmobile season (approximately December 1 to March 31). The trail 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. This is only required if the haul route utilizes the portion of the snowmobile trail along Henning Road.



TIMBER SALE MAP

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

Forest Management Unit Grayling		County Oscoda	Mapped By Kubitskey	Date 9/29/2021	Page 1	of 1
Township 28N	Range 01E	Section(s) and Subdivision(s) Sec. 17 S1/2SW, Sec. 18 SESE, Sec. 19 E1/2NE, Sec. 20 NW, N1/2SW, SESW, W1/2SE		Scale 1:15,840		

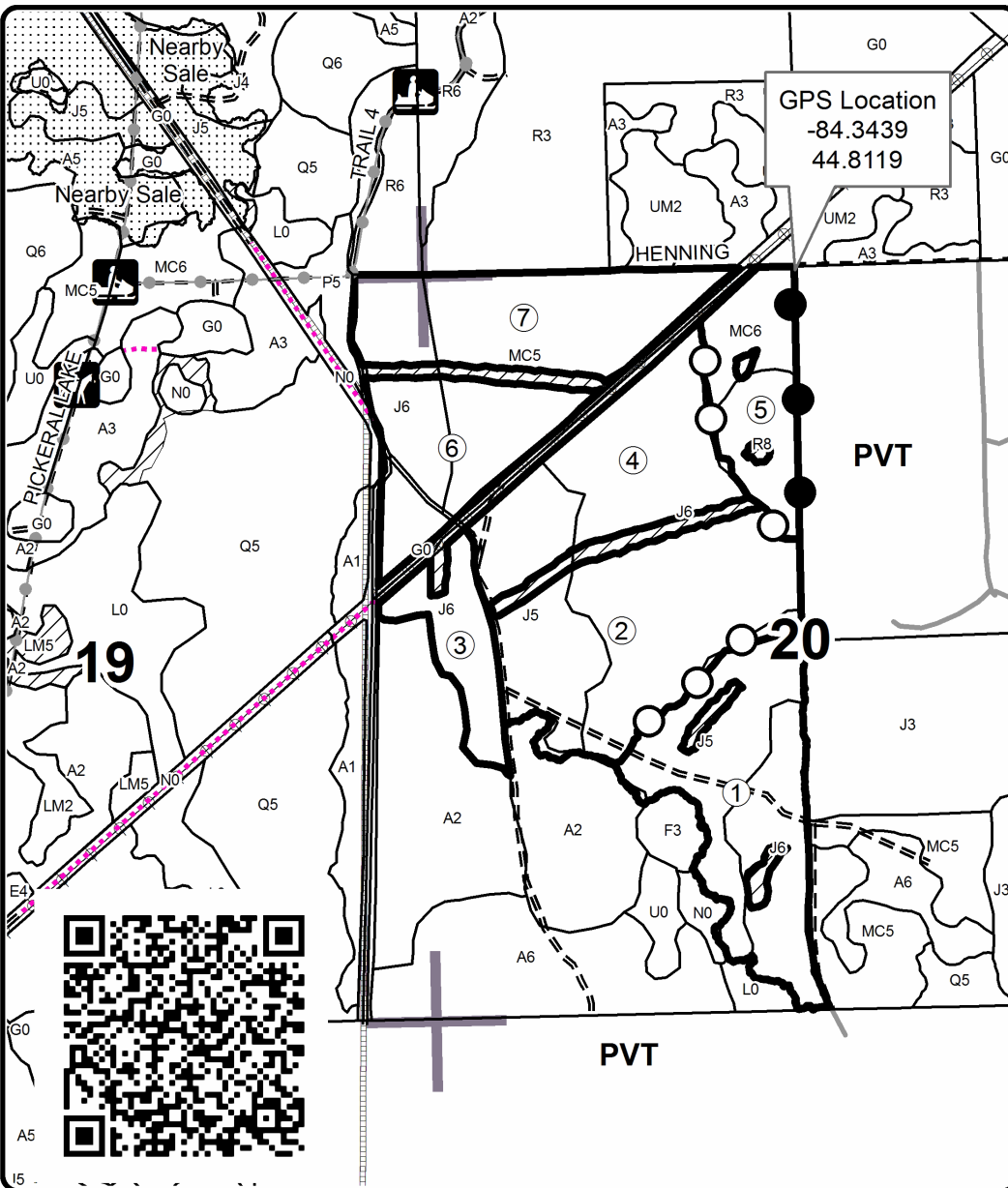
Cover Type				Density	
A = Aspen	H = Hemlock	N = Marsh	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
B = Paper Birch	J = Jack Pine	O = Oak	UM = Upland Mixed	1 = Seedling Sapling Poor	6 = Pole Timber Well
C = Cedar	L = Lowland Brush	P = Lowland Poplar	V = Bog or Marsh	2 = Seedling Sapling Medium	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 Hdwoods	M = Mpl, Bch, Brch	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			

PU	Acres	PU	Acres
1	44	5	21.6
2	54.1	6	27.4
3	14	7	36.5
4	37.7		

Which Way Pine

Compartment 21

235.3 Acres



Legend

- Against State (Red)
- Payment Unit (Yellow)
- Private Line (Blue)
- ▨ Retention Area
- ▤ Nearby Timber Sales
- ▭ Stand Boundaries
- Recreational Trail
- Secondary Forest Road
- Forest Access Route
- Gravel Road
- Private
- Temporary Management Access
- Section Corners
- Pipeline
- ⊕ Powerline
- PVT Private Property
- ② Payment Unit

Locator Map
1:200,000

