



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7421**

SCHEDULED SALE DATE AND TIME: **2:00 p.m. (local time) on May 22, 2024.**

LOCATION: **SHINGLETON MGMT UNIT, PO BOX 67, M 28 WEST, SHINGLETON, MI 49884.**

CONTACT NAME: Robert Burnham

PHONE NUMBER: (906) 420-1645

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

East Melstrand Mix (41-015-23) / T47N, R17W, SEC. 23, SWSE.

T47N, R17W, SEC. 25, SENW,NE,NESW,N1/2SE.

T47N, R17W, SEC. 26, W1/2NE,SE.

Alger County, Advertised Price \$62,856.60, 165.5 Acres, Hardwood, Paper Birch.

SALE NOTE: The county must be contacted prior to crossing or harvesting in the county road R-O-W. This applies to the Melstrand Truck Trail.

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.

Within Payment Unit(s) 1-4, unless changed by written agreement, harvesting is limited to frozen conditions (in general this period is December 1 to March 31) because of soft soils.

The Sunrise Grade is a snowmobile trail and is shown on the Timber Sale Map. See Sale Spec 5.2.41 for additional information/restrictions.

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

### East Melstrand Mix (41-015-23)

T47N, R17W, SEC. 23; T47N, R17W, SEC. 25; T47N, R17W, SEC. 26.

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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 &amp; SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Paper Birch	52.7 MBF	\$ 75.00 / MBF
Red Maple	32.8 MBF	\$ 75.00 / MBF
Sugar Maple	47.1 MBF	\$ 303.00 / MBF
Yellow Birch	24.6 MBF	\$ 80.00 / MBF
Pulpwood		
Balsam Fir	85 Cords	\$ 11.70 / Cord
Basswood	19 Cords	\$ 7.00 / Cord
Black Spruce	319 Cords	\$ 15.50 / Cord
Mixed Hardwood	1,269 Cords	\$ 19.30 / Cord
N. White Cedar	434 Cords	\$ 5.80 / Cord
Paper Birch	602 Cords	\$ 11.75 / Cord
Tamarack	36 Cords	\$ 1.40 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 13.11 percent. There are an estimated 3,196 cords on this timber sale, plus or minus 419 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 \$3,142.83 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	13.4%
02	15.9%
03	23.1%
04	9.5%
05	13.9%
06	4.2%
07	20.0%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/20/2028.

### **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
252,504	3,196	13.11%	2,777	3,615

## 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	149,870	1,897	11.35%	1,682	2,112
2	56,508	715	24.43%	541	890
3	9,435	119	47.39%	63	176
4	36,690	464	23.64%	355	574
<b>TOTAL:</b>	<b>252,504</b>	<b>3,196</b>		<b>2,640</b>	<b>3,753</b>

## 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	87.2	1	22.3
		2	26.4
		3	38.5
2	16.5	4	16.5
3	10.0	6	10.0
4	51.8	5	21.2
		7	30.6
<b>TOTAL:</b>	<b>165.5</b>		<b>165.5</b>

**DESCRIPTION OF TIMBER BY PU (PU)**

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Paper Birch	Sawtimber	13.5	MBF	22.3	\$8,423.85
	Red Maple		6.2	MBF		
	Yellow Birch		6.3	MBF		
	Balsam Fir	Pulpwood	20	Cords		
	Black Spruce		45	Cords		
	Mixed Hardwood		207	Cords		
	<i>Ironwood</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		164	<i>Cords</i>		
	<i>Sugar Maple</i>		5	<i>Cords</i>		
	<i>Yellow Birch</i>		37	<i>Cords</i>		
	Paper Birch		129	Cords		
2	Paper Birch	Sawtimber	16.0	MBF	26.4	\$9,994.85
	Red Maple		7.4	MBF		
	Yellow Birch		7.4	MBF		
	Balsam Fir	Pulpwood	24	Cords		
	Black Spruce		53	Cords		
	Mixed Hardwood		246	Cords		
	<i>Ironwood</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		195	<i>Cords</i>		
	<i>Sugar Maple</i>		6	<i>Cords</i>		
	<i>Yellow Birch</i>		44	<i>Cords</i>		
	Paper Birch		153	Cords		
3	Paper Birch	Sawtimber	23.2	MBF	38.5	\$14,566.40
	Red Maple		10.8	MBF		
	Yellow Birch		10.9	MBF		
	Balsam Fir	Pulpwood	35	Cords		
	Black Spruce		77	Cords		
	Mixed Hardwood		358	Cords		
	<i>Ironwood</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		284	<i>Cords</i>		
	<i>Sugar Maple</i>		8	<i>Cords</i>		
	<i>Yellow Birch</i>		65	<i>Cords</i>		
	Paper Birch		224	Cords		
4	Black Spruce	Pulpwood	130	Cords	16.5	\$5,990.00
	Mixed Hardwood		23	Cords		
	<i>Red Maple</i>		23	<i>Cords</i>		
	N. White Cedar		434	Cords		
	Paper Birch		82	Cords		
	Tamarack		36	Cords		
5	Red Maple	Sawtimber	3.4	MBF	21.2	\$8,706.80
	Sugar Maple		19.3	MBF		
	Balsam Fir	Pulpwood	2	Cords		
	Basswood		8	Cords		
	Black Spruce		1	Cords		
	Mixed Hardwood		130	Cords		
	<i>Beech</i>		25	<i>Cords</i>		
	<i>Red Maple</i>		16	<i>Cords</i>		
	<i>Sugar Maple</i>		89	<i>Cords</i>		
6	Balsam Fir	Pulpwood	2	Cords	10.0	\$2,616.50
	Black Spruce		11	Cords		
	Mixed Hardwood		117	Cords		
	<i>Beech</i>		16	<i>Cords</i>		
	<i>Red Maple</i>		86	<i>Cords</i>		
	<i>Sugar Maple</i>		2	<i>Cords</i>		
	<i>Yellow Birch</i>		13	<i>Cords</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
6 con't	Paper Birch	Pulpwood	14	Cords		
7	Red Maple	Sawtimber	5.0	MBF	30.6	\$12,558.20
	Sugar Maple		27.8	MBF		
	Balsam Fir	Pulpwood	2	Cords		
	Basswood		11	Cords		
	Black Spruce		2	Cords		
	Mixed Hardwood		188	Cords		
	Beech		36	Cords		
	Red Maple		23	Cords		
	Sugar Maple		129	Cords		
TOTAL:			157.2	MBF		
TOTAL:			2,764	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: East Melstrand Mix**

**Sale Number: 41-015-23 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 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 painted boundary line trees are not Included Timber and are to be protected unless marked with orange paint. Yellow painted trees designating an interior Payment Unit boundary between Payment Units 1-4 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) 6, cut all maple, birch and aspen trees that are two (2) inches or more at DBH. In addition, cut all other trees which meet minimum piece specifications in 2.2 Utilization, except do not cut hemlock, oak and cedar. Special protection trees identified in accordance with condition 3.4.2, and special protection areas identified in accordance with condition 3.4.3, within clearcutting unit boundaries, are not Included Timber and are to be protected.

##### **2.1.2 - Clearcut unit(s) w/o unmerchantable trees (8/11)**

Within Payment Unit(s) 1-3, cut all trees which meet minimum piece specifications in 2.2 Utilization, except do not cut cedar, hemlock, oak, and white pine. In addition, within Payment Units 1 & 2, do not cut yellow birch less than 8 inches in diameter at a stump height of 1 foot.

Note that: Within Payment Units 1-3, cedar may be cut for operability. In addition, cedar is to be decked separately and scaled in the woods, cedar will be invoiced at \$50 per cord.

Within Payment Unit 4, cut all trees that meet minimum piece specifications in 2.2 Utilization, except do not cut hemlock and oak.

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

Within Payment Unit(s) 5 & 7, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability.

#### **2.2 - Utilization**

##### **2.2.9 - No chipping permitted (12/08)**

Within Payment Unit(s) 1-4, all wood must be removed by whole tree, tree segment, or roundwood. No chipping is permitted. Chipping is not allowed because these are lowland Payment Units, and tops will be needed for winter operation.

### **3 - Payments**

#### **3.3 - Pre-measured Sales**

##### **3.3.4 - Dividing payment units (7/14)**

Payment Unit(s) with a value over \$20,000, 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.

#### **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 hemlock and oak. If the Purchaser's operations have cut or damaged special protection trees through carelessness, the

Purchaser shall pay \$100 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 east of Payment Units 6 & 7 as shown on the Timber Sale Map. The Purchaser shall not operate equipment within the special protection areas or cut live or dead trees within special protection areas. If the Purchaser's operations have cut or damaged special protection areas through carelessness, the Purchaser shall pay \$1000 as fixed, agreed and liquidated damages for each acre or part thereof cut or damaged. Such payment does not constitute ownership of the undesignated timber.

### 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 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. These roads must be rendered impassable to cars and trucks. Contact the Sale Administrator for specific details of design and placement.

#### 4.3 - Public Right-of-Way

##### 4.3.2 - County R-O-W (12/06)

The county must be contacted prior to crossing or harvesting in the county road R-O-W. This applies to the Melstrand Truck Trail.

#### 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

#### 5.2 - 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) 1-4, unless changed by written agreement, cutting, skidding, and hauling are limited to frozen conditions, in general this period is December 1 to March 31. This restriction is because of soft soils.

###### 5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 5 & 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.

#### 5.2.32 - 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.

#### 5.2.41 - Snowmobile trail protection (9/11)

The Sunrise Grade is a snowmobile trail and is shown on the Timber Sale Map. Do not cut or damage posts with orange trail markers or traffic control signs. The snowmobile trail may not be used for any timber sale operations.

### 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 April 1 to July 30. 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 the Melstrand Truck Trail, 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.

Forest Management Unit		County	Mapped By: Steve Tuovila	Scale 1:24,000	Page 1	Of 1
Shingleton Mgt Unit			Cruised By: Steve Tuovila			
Township 47N	Range 17W	Section(s) and Subdivision(s) Sec. 23 SWSE; Sec. 25 SENW,NE,NESW,N1/2SE; Sec. 26 W1/2NE,SE;				

**Cover Type**

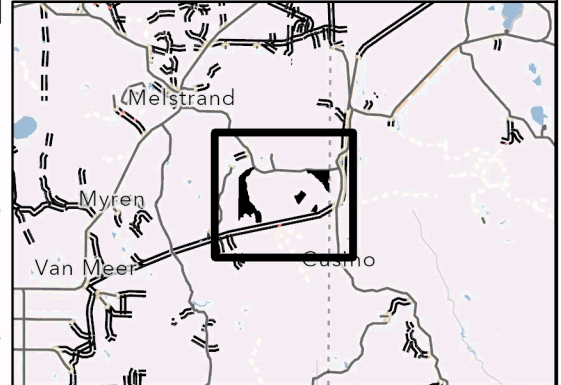
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black 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**

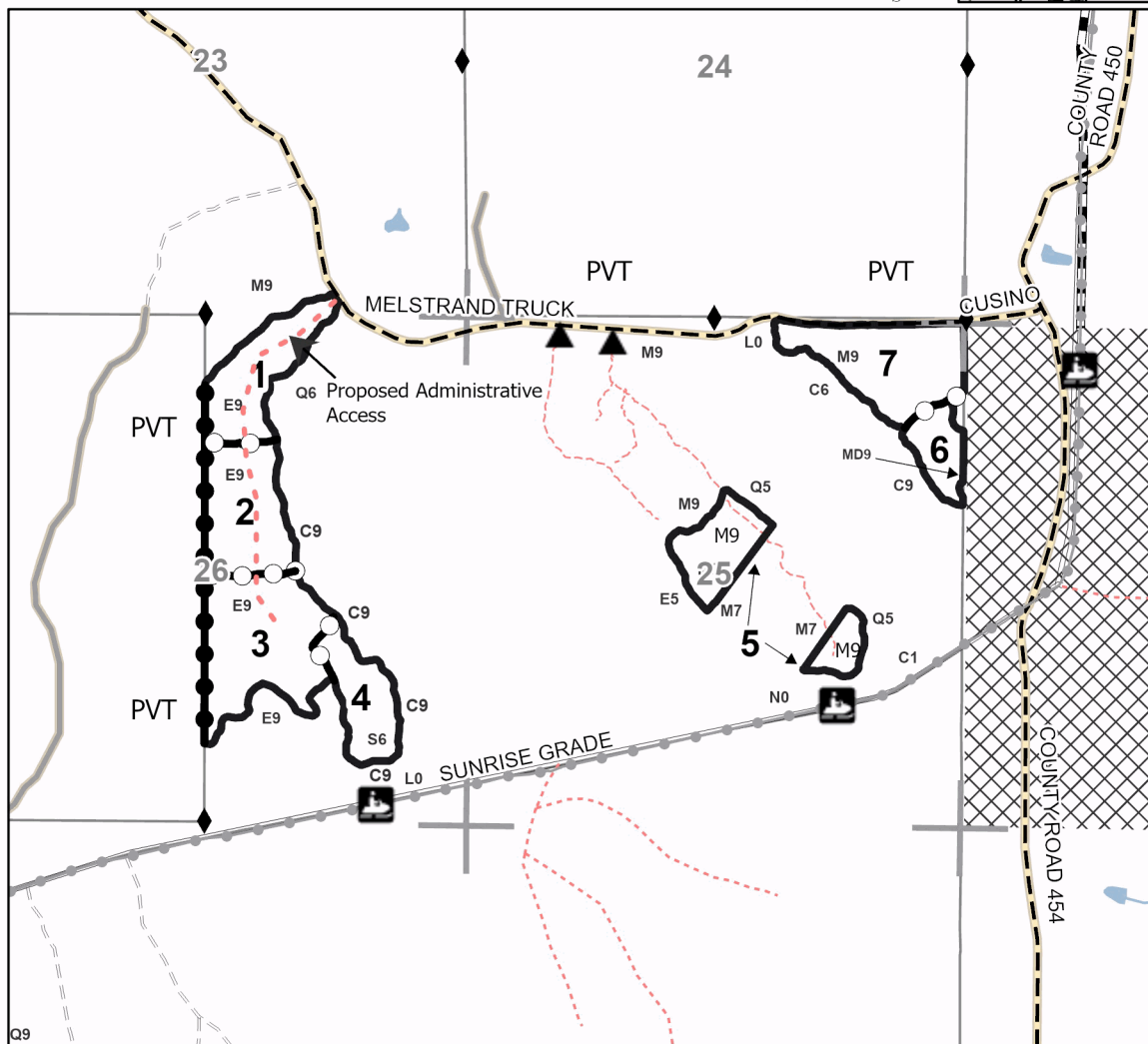
0 = Non Stocked	5 = Pole Timber Medium
1 = Seedling Sapling Poor	6 = Pole Timber Well
2 = Seedling Sapling Medium	7 = Saw Timber Poor
3 = Seedling Sapling Well	8 = Saw Timber Medium
4 = Pole Timber Poor	9 = Saw Timber Well

PU #	Acres	PU #	Acres
1	22.3	5	21.2
2	26.4	6	10
3	38.5	7	30.6
4	16.5		

**East  
Melstrand  
Mix  
165.5 Acres**

**Locator Map (1:200,000)**

0 0.38 0.75 1.5 Miles

**Legend**

- Against State (Red)
- Special Protection Area
- Payment Unit (Yellow)
- Private Line (Blue)
- Recreational Trail
- Gravel Road
- Private Road
- Primary Forest Road
- Secondary Forest Road
- Forest Access Route
- Administrative Access Only
- Non-DNR Road
- Survey Corner
- Berm
- MIRIS Section Corner
- Lakes and Rivers

Use QR Code to open Map in App

