



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7183**

**SCHEDULED SALE DATE AND TIME: 2:00 p.m. (local time) on August 7, 2023.**

**LOCATION: GWINN MGMT UNIT, 410 WEST M 35, GWINN, MI 49841.**

**CONTACT NAME: Kristen Matson**

**PHONE NUMBER: (906) 346-9201**

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

Mikko's Maze Aspen (32-010-22) / T44N, R25W, SEC. 31, SENW,NE,SW,SE.

Marquette County, Advertised Price \$102,279.50, 173.7 Acres, Aspen, Spruce/Fir/Tamarack.

SALE NOTE: Please note specs related to snow and ORV trails used for hauling in this area .

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

Mikko's Maze Aspen (32-010-22)

T44N, R25W, SEC. 31.

Marquette County (Advertised Price \$102,279.50)

SALE NOTE: Please note specs related to snow and ORV trails used for hauling in this area .

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 &amp; SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Basswood	0.8 MBF	\$ 35.00 / MBF
Paper Birch	4.6 MBF	\$ 64.00 / MBF
Red Maple	1.9 MBF	\$ 137.00 / MBF
Red Pine	22.1 MBF	\$ 221.00 / MBF
Sugar Maple	8.3 MBF	\$ 173.00 / MBF
Pulpwood		
Balsam Fir	680 Cords	\$ 15.90 / Cord
Mixed Aspen	2,364 Cords	\$ 25.25 / Cord
Mixed Hardwood	309 Cords	\$ 15.70 / Cord
Mixed Spruce	608 Cords	\$ 23.15 / Cord
Red Pine	16 Cords	\$ 68.05 / Cord
Tamarack	158 Cords	\$ 30.75 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 13.10 percent. There are an estimated 4,176 cords on this timber sale, plus or minus 547 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 \$5,113.98 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	31.1%
02	14.2%
03	2.2%
04	3.5%
05	33.7%
06	8.4%
07	5.8%
08	1.1%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 08/31/2026.

### **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
329,912	4,176	13.10%	3,629	4,723

## 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
19	48,469	614	32.14%	416	811
22	263,740	3,338	15.81%	2,811	3,866
44	8,346	106	78.88%	22	189
56	5,349	68	109.94%	0	142
64	4,007	51	16.75%	42	59
<b>TOTAL:</b>	<b>329,912</b>	<b>4,176</b>		<b>3,292</b>	<b>5,067</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
19	29.7	1	29.7
22	131.1	1	29.3
		2	24.1
		4	5.9
		5	57.4
		6	14.4
44	5.0	3	5.0
56	4.1	7	4.1
64	3.8	8	3.8
<b>TOTAL:</b>	<b>173.7</b>		<b>173.7</b>

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Paper Birch	Sawtimber	2.6	MBF	59.0	\$31,844.95
	Balsam Fir	Pulpwood	179	Cords		
	Mixed Aspen		536	Cords		
	<i>B. T. Aspen</i>		26	Cords		
	<i>Balsam Poplar</i>		29	Cords		
	<i>Quaking Aspen</i>		481	Cords		
	Mixed Hardwood		139	Cords		
	<i>Basswood</i>		1	Cords		
	<i>Black Ash</i>		34	Cords		
	<i>Black Cherry</i>		5	Cords		
	<i>Paper Birch</i>		5	Cords		
	<i>Red Maple</i>		94	Cords		
	Mixed Spruce		366	Cords		
	<i>Black Spruce</i>		206	Cords		
	<i>White Spruce</i>		160	Cords		
	Tamarack		151	Cords		
2	Paper Birch	Sawtimber	0.5	MBF	24.1	\$14,489.60
	Balsam Fir	Pulpwood	119	Cords		
	Mixed Aspen		433	Cords		
	<i>B. T. Aspen</i>		21	Cords		
	<i>Balsam Poplar</i>		24	Cords		
	<i>Quaking Aspen</i>		388	Cords		
	Mixed Hardwood		16	Cords		
	<i>Basswood</i>		1	Cords		
	<i>Black Cherry</i>		4	Cords		
	<i>Red Maple</i>		11	Cords		
	Mixed Spruce		57	Cords		
	<i>White Spruce</i>		57	Cords		
	Tamarack		2	Cords		
3	Red Maple	Sawtimber	1.9	MBF	5.0	\$2,234.90
	Sugar Maple		3.7	MBF		
	Mixed Hardwood	Pulpwood	85	Cords		
	<i>Red Maple</i>		7	Cords		
	<i>Sugar Maple</i>		78	Cords		
4	Paper Birch	Sawtimber	0.1	MBF	5.9	\$3,530.90
	Balsam Fir	Pulpwood	29	Cords		
	Mixed Aspen		106	Cords		
	<i>B. T. Aspen</i>		5	Cords		
	<i>Balsam Poplar</i>		6	Cords		
	<i>Quaking Aspen</i>		95	Cords		
	Mixed Hardwood		4	Cords		
	<i>Black Cherry</i>		1	Cords		
	<i>Red Maple</i>		3	Cords		
	Mixed Spruce		14	Cords		
	<i>White Spruce</i>		14	Cords		
5	Paper Birch	Sawtimber	1.1	MBF	57.4	\$34,437.15
	Balsam Fir	Pulpwood	282	Cords		
	Mixed Aspen		1,030	Cords		
	<i>B. T. Aspen</i>		51	Cords		
	<i>Balsam Poplar</i>		55	Cords		
	<i>Quaking Aspen</i>		924	Cords		
	Mixed Hardwood		37	Cords		
	<i>Basswood</i>		2	Cords		
	<i>Black Cherry</i>		10	Cords		
	<i>Red Maple</i>		25	Cords		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	Mixed Spruce	Pulpwood	137	Cords		
	White Spruce		137	Cords		
	Tamarack		4	Cords		
6	Paper Birch	Sawtimber	0.3	MBF	14.4	\$8,631.30
	Balsam Fir	Pulpwood	71	Cords		
	Mixed Aspen		259	Cords		
	B. T. Aspen		13	Cords		
	Balsam Poplar		14	Cords		
	Quaking Aspen		232	Cords		
	Mixed Hardwood		8	Cords		
	Black Cherry		2	Cords		
	Red Maple		6	Cords		
	Mixed Spruce		34	Cords		
	White Spruce		34	Cords		
	Tamarack		1	Cords		
7	Red Pine	Sawtimber	22.1	MBF	4.1	\$5,972.90
	Red Pine	Pulpwood	16	Cords		
8	Basswood	Sawtimber	0.8	MBF	3.8	\$1,137.80
	Sugar Maple		4.6	MBF		
	Mixed Hardwood	Pulpwood	20	Cords		
	Basswood		2	Cords		
	Sugar Maple		18	Cords		
TOTAL:			37.7	MBF		
TOTAL:			4,135	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: Mikko's Maze Aspen**

**Sale Number: 32-010-22 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 green paint. Exterior sale boundary lines against private are marked with blue paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with green paint. Green 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, 2, 4, 5, and 6., cut all trees that are two (2) inches or more at DBH except red pine, white pine, cedar, oak, and hemlock.

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

Within Payment Unit(s) 3, 7, and 8, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability.

#### **2.2 - Utilization**

##### **2.2.4 - Skidding length (2/14)**

Skidding of unlimbed tops is not permissible within unit 3, 7, and 8. Skidding of unlimbed tops or lengths over 17 feet is not permissible, unless approved by the Unit Manager or his/her representative.

### **3 - Payments**

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

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

Payment Unit(s) 1 and 5 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 the payment units 5, 7, and 8, if more than 25% 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 \$250 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 5% 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.

### **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 (12/09)

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 the specified Purchase Unit Price.

#### 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. Contact the sale administrator for specific details of design and placement.

### 4.2 - Maintenance

#### 4.2.1 - Hauling restriction (12/08)

Hauling may be restricted on forest roads by the Unit Manager or his/her representative. The restriction may occur during wet weather conditions.

#### 4.2.2 - Fill material (4/07)

To maintain roads, fill material may be needed in areas where "holes" exist or may be expected to develop. This fill material should be placed before trucking begins.

#### 4.2.3 - Road maintenance (8/13)

The following road maintenance may be needed: Within 60 days of completion of hauling, or if no hauling occurs for 60 days, the road must be maintained and graded. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. Damages will be assessed if grading/repair does not occur.

#### 4.2.4 - Grading (10/16)

For completion of the sale, state forest roads must be graded. In general, this will require a road grader or bull dozer to shape up the roads after forest products have been hauled off site. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. The grading equipment to be used must be approved by the Unit Manager or his/her representative.

## 5 - Operations

### 5.1 - Notification

#### 5.1.1 - Pre-sale conference (10/16)

A pre-sale conference between the Purchaser and sale administrator is required prior to beginning any operations. The Unit Manager or his/her representative must be contacted at least 3 business days in advance to schedule the conference.

### 5.2 - Conduct of Operations

#### 5.2.1 - Slash

##### 5.2.1.11 - Slash for reforestation (3/21)

To facilitate reforestation, shall be left with slash evenly distributed. Bunched tops within the cutting area shall be broken up and scattered. Stumps shall be cut low to the ground. 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.

#### 5.2.2 - 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, unless changed by written agreement, cutting, skidding, and hauling are . Limited to the period of 12/15 to 4/1. This restriction is due to low ground conditions across most of the unit.

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

Within Payment Unit(s) 3, 7, and 8, 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.

#### 5.2.3.11 - Coppice regeneration protection (4/10)

Timber harvesting in any Payment Unit must be completed before significant aspen sprouting occurs in that Payment Unit so as to minimize damage to the new regeneration. Any post harvest operations, such as chipping, must be completed before sprouting of regeneration occurs. If it is anticipated that chipping will be delayed, then tops shall be carried to one central location or left unchipped. The Unit Manager or his/her representative may cease such operations if sprouting occurs before the operation is complete.

### 5.2.4 - Dead and Down Creation

#### 5.2.4.4 - Dead and down creation, grouse (6/18)

To encourage grouse and other wildlife, in Payment Unit(s) 1, 2, 4, 5, and 6 leave one, 12" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres. These trees will be evenly scattered throughout the unit, preferably at least two chains from any roads, two-tracks, or trails open to vehicles.

#### 5.2.29 - Shrub protection (1/20)

Do not cut or damage hawthorn, witch-hazel, dogwood or juneberry. These woody-shrub plants are highly beneficial to various wildlife species.

#### 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 50 feet of the centennial road or snowmobile trail without permission of the County and Unit Manager or his/her representative.

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

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

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

Gwinn/Arnold ORV route is shown on the Timber Sale Map. Do not cut trees or damage posts with yellow ORV markers. All stumps within 5 feet of the trail must be cut flush with the ground. Maintain a 20 foot wide slash, debris, and rut free zone daily using the ORV trail or route as the centerline. Do not run equipment down the ORV trail or route. Skidding across the trail or route may only occur in locations approved by the sale administrator.

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

Trail 33 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. 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 1st. 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. Maintain a 20 foot wide slash, debris, and rut free zone daily using the snowmobile trail as the centerline. No decking of forest products will be permitted along the snowmobile trail. All stumps within 20 feet of the snowmobile trail must be cut at ground level.

### 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.

#### 5.4.2 - Skid trails (2/04)

Skid trails up and down slopes should be avoided. If however this is unavoidable, these trails will be left in a non-erodible condition using water bars, logs, and slash. Placing of slash on these skid trails while logging is ongoing may alleviate need for any further action. At the direction of the sale administrator, seed, fertilizer, and mulch may also be required.

### 5.8 - Protection of Endangered Species

#### 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 County Road 557 and access 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 Trail 33 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.

#### 6.2.3 - Recreational trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on Gwinn/Arnold ORV route 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.

## 7 - Other Conditions

### 7.5 - Loss

#### 7.5.1 - Deteriorating timber (7/09)

The sale area has received damage from Spruce Budworm. The Purchaser should harvest the wood as soon as possible. The Department of Natural Resources is held free of responsibility of any further damage or deterioration due to delay in harvesting.

**TIMBER SALE MAP***This information provided by authority of Part 525, 1994 PA 451, as amended.*

Sale Number	Year
32- 010	22

Forest Management Unit Gwinn FMU	County Marquette	Mapped By Rick Hill	Date 7/27/2022	Page 1	of 1
Township 44N	Range 25W	Section(s) and Subdivision(s) Section 31	Scale 1:15,840		

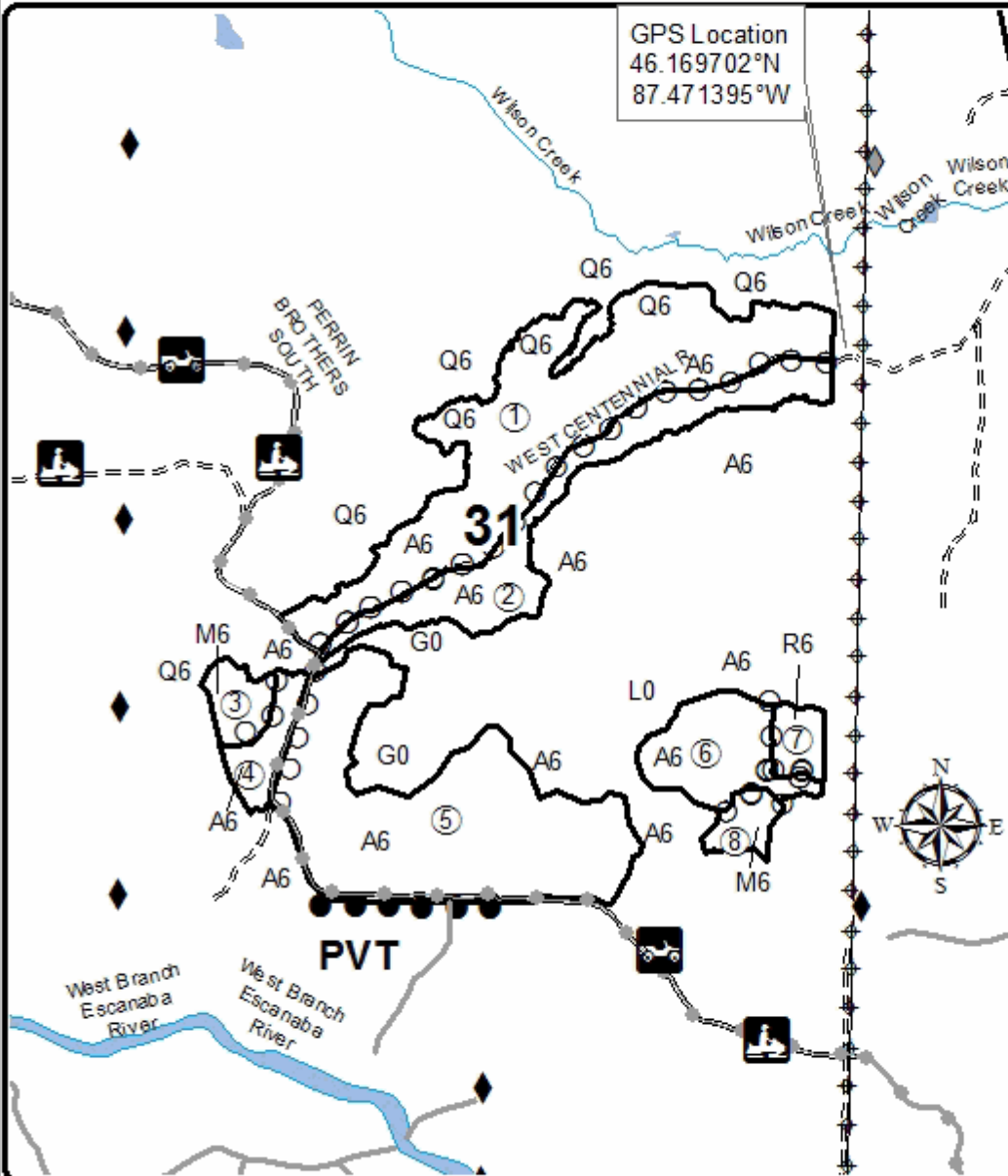
Cover Type				Density	
A = Aspen	H = Hemlock	N = Marsh	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
B = Paper Birch	J = Jack Pine	O = Oak	UM = Upland Mixed	1 = Seedling Sapling Poor	6 = Pole Timber Well
C = Cedar	L = Lowland Brush	P = Lowland Poplar	V = Bog or Marsh	2 = Seedling Sapling Medium	7 = Saw Timber Poor
D = Tread Bog	LM = Lowland Mixed	Q = Mixed Swamp Conifer	W = White Pine	3 = Seedling Sapling Well	8 = Saw Timber Medium
E = Swamp Holwoods	M = Mpl, Boh, Broh	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	59	5	51.4
2	24.2	6	14.4
3	5	7	4.1
4	5.9	8	3.8

## Mikko's Maze Aspen

Compartment 53  
173.7 Acres

GPS Location  
46.169702°N  
87.471395°W

**Legend**

- Recreational Trail
- Survey Corners
- Field Grade Corners
- Secondary Forest Road
- Forest Access Route
- Paved Road
- Private
- Perennial River
- Payment Unit (Green)
- Private Line (Blue)
- Against State (Red)

QR Code for PDF Maps



Locator Map  
1:250,000

