



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #6975**

**SCHEDULED SALE DATE AND TIME: 4:00 p.m. (local time) on May 16, 2022.**

**LOCATION: TRAVERSE CITY MGMT UNIT, 2122 M 37 SOUTH, TRAVERSE CITY, MI 49685.**

**CONTACT NAME: David Lemmien**

**PHONE NUMBER: (231) 922-6040**

**PROSPECTUS NOTE:** Effective immediately: all bid openings for the Traverse City Management (Kalkaska Field Office and Traverse City Field Office) will be held at the Traverse City Field Office regardless of sale location within the unit. All payments will now be handled through the Traverse City Field Office. The Kalkaska Field Office will no longer accept payments or hard paper copies of timber sale bids. Payments for all contracts, use permits, bonds, etc. should be sent to the Traverse City Field Office.

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

Trophy Fern Mix (61-106-21) / T26N, R06W, SEC. 22, SWNW,W1/2NE,SW,N1/2SE,SWSE.

Kalkaska County, Advertised Price \$40,608.05, 125.4 Acres, Aspen, Spruce/Fir/Tamarack.

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

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

Trophy Fern Mix (61-106-21)

T26N, R06W, SEC. 22.

Kalkaska County (Advertised Price \$40,608.05)

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

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		
B. T. Aspen	18.7 MBF	\$ 96.00 / MBF
Quaking Aspen	34.9 MBF	\$ 96.00 / MBF
Red Maple	35.3 MBF	\$ 118.00 / MBF
Red Pine	45.4 MBF	\$ 89.00 / MBF
White Pine	98.6 MBF	\$ 41.00 / MBF
Pulpwood		
B. T. Aspen	82 Cords	\$ 13.25 / Cord
Balsam Fir	243 Cords	\$ 6.95 / Cord
Black Cherry	136 Cords	\$ 14.65 / Cord
Black Spruce	107 Cords	\$ 19.05 / Cord
Ironwood	12 Cords	\$ 14.65 / Cord
Jack Pine	240 Cords	\$ 11.85 / Cord
Quaking Aspen	657 Cords	\$ 13.25 / Cord
Red Maple	128 Cords	\$ 14.65 / Cord
Red Pine	34 Cords	\$ 35.80 / Cord
White Pine	93 Cords	\$ 17.10 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 7.87 percent. There are an estimated 2,344 cords on this timber sale, plus or minus 185 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 \$2,030.40 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	20.1%
02	19.3%
03	32.0%
04	21.3%
05	7.3%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2024.

### **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
185,202	2,344	7.87%	2,160	2,529

## 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
52	35,352	447	22.81%	345	550
56	15,062	191	17.40%	157	224
65	25,797	327	18.10%	267	386
66	72,597	919	11.19%	816	1,022
70	36,395	461	20.00%	369	553
<b>TOTAL:</b>	<b>185,202</b>	<b>2,344</b>		<b>1,955</b>	<b>2,734</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
52	19.1	1	19.1
56	28.5	5	28.5
65	20.9	4	20.9
66	38.3	2	3.9
		3	33.4
		4	0.3
		5	0.7
70	18.6	2	18.6
<b>TOTAL:</b>	<b>125.4</b>		<b>125.4</b>

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Maple	Sawtimber	13.4	MBF	19.1	\$8,151.40
	White Pine		84.8	MBF		
	Balsam Fir	Pulpwood	51	Cords		
	<i>Balsam Fir</i>	<i>Sawtimber</i>	2.5	<i>MBF</i>		
	<i>Balsam Fir</i>	<i>Pulpwood</i>	46	<i>Cords</i>		
	Black Cherry		18	Cords		
	<i>Black Cherry</i>		18	<i>Cords</i>		
	Black Spruce		10	Cords		
	<i>Black Spruce</i>	<i>Sawtimber</i>	3.1	<i>MBF</i>		
	<i>Black Spruce</i>	<i>Pulpwood</i>	4	<i>Cords</i>		
	Quaking Aspen		48	Cords		
	Red Maple		25	Cords		
	White Pine		75	Cords		
2	B. T. Aspen	Sawtimber	1.6	MBF	22.5	\$7,845.85
	Quaking Aspen		7.7	MBF		
	Red Maple		8.3	MBF		
	White Pine		0.7	MBF		
	B. T. Aspen	Pulpwood	8	Cords		
	Balsam Fir		114	Cords		
	<i>Balsam Fir</i>	<i>Sawtimber</i>	3.5	<i>MBF</i>		
	<i>Balsam Fir</i>	<i>Pulpwood</i>	107	<i>Cords</i>		
	Black Cherry		58	Cords		
	<i>Black Cherry</i>	<i>Sawtimber</i>	4.0	<i>MBF</i>		
	<i>Black Cherry</i>	<i>Pulpwood</i>	50	<i>Cords</i>		
	Black Spruce		97	Cords		
	<i>Black Spruce</i>	<i>Sawtimber</i>	7.0	<i>MBF</i>		
	<i>Black Spruce</i>	<i>Pulpwood</i>	83	<i>Cords</i>		
	Ironwood		1	Cords		
	Jack Pine		24	Cords		
	<i>Jack Pine</i>	<i>Sawtimber</i>	0.2	<i>MBF</i>		
	<i>Jack Pine</i>	<i>Pulpwood</i>	24	<i>Cords</i>		
	Quaking Aspen		128	Cords		
	Red Maple		23	Cords		
	White Pine		1	Cords		
3	B. T. Aspen	Sawtimber	14.1	MBF	33.4	\$12,980.90
	Quaking Aspen		19.1	MBF		
	Red Maple		10.4	MBF		
	White Pine		5.8	MBF		
	B. T. Aspen	Pulpwood	65	Cords		
	Balsam Fir		70	Cords		
	<i>Balsam Fir</i>		70	<i>Cords</i>		
	Black Cherry		42	Cords		
	<i>Black Cherry</i>	<i>Sawtimber</i>	4.2	<i>MBF</i>		
	<i>Black Cherry</i>	<i>Pulpwood</i>	34	<i>Cords</i>		
	Ironwood		11	Cords		
	Jack Pine		208	Cords		
	<i>Jack Pine</i>	<i>Sawtimber</i>	1.5	<i>MBF</i>		
	<i>Jack Pine</i>	<i>Pulpwood</i>	205	<i>Cords</i>		
	Quaking Aspen		203	Cords		
	Red Maple		67	Cords		
	White Pine		4	Cords		
4	B. T. Aspen	Sawtimber	2.7	MBF	21.2	\$8,640.45
	Quaking Aspen		6.4	MBF		
	Red Maple		3.0	MBF		
	Red Pine		45.4	MBF		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
4 con't	White Pine	Sawtimber	4.7	MBF		
	B. T. Aspen	Pulpwood	8	Cords		
	Balsam Fir		7	Cords		
	<i>Balsam Fir</i>		7	<i>Cords</i>		
	Black Cherry		2	Cords		
	<i>Black Cherry</i>		2	<i>Cords</i>		
	Jack Pine		2	Cords		
	<i>Jack Pine</i>		2	<i>Cords</i>		
	Quaking Aspen		114	Cords		
	Red Maple		12	Cords		
	Red Pine		34	Cords		
	White Pine		4	Cords		
5	B. T. Aspen	Sawtimber	0.3	MBF	29.2	\$2,974.80
	Quaking Aspen		1.7	MBF		
	Red Maple		0.2	MBF		
	White Pine		2.6	MBF		
	B. T. Aspen	Pulpwood	1	Cords		
	Balsam Fir		1	Cords		
	<i>Balsam Fir</i>		1	<i>Cords</i>		
	Black Cherry		15	Cords		
	<i>Black Cherry</i>	<i>Sawtimber</i>	0.1	<i>MBF</i>		
	<i>Black Cherry</i>	<i>Pulpwood</i>	15	<i>Cords</i>		
	Jack Pine		6	Cords		
	<i>Jack Pine</i>		6	<i>Cords</i>		
	Quaking Aspen		164	Cords		
	Red Maple		1	Cords		
	White Pine		9	Cords		
TOTAL:			232.9	MBF		
TOTAL:			1,731	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: Trophy Fern Mix**

**Sale Number: 61-106-21 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. 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 and 3-5, cut all trees that are two (2) inches or more at DBH, except trees marked with green paint.

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

Within Payment Unit(s) 2, cut all trees which meet minimum piece specifications in 2.2 Utilization, except trees marked with green paint.

#### **2.2 - Utilization**

##### **2.2.3 - Stump heights (4/07)**

Stump heights within the Sale Area shall not exceed 12 inches for trees greater than 10 inches at DBH and 4 inches for trees smaller than 10 inches at DBH.

### **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.

#### **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 in Payment Unit 2.

Within the Payment Unit 2, 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 \$300 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.

#### 4.1.7 - Road closure (10/11)

All new roads built into the sale must be blocked to vehicle traffic upon completion of the sale. 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. 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.

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

The following road maintenance is required: 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.

#### 4.2.5 - 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

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

A pre-sale conference between the Purchaser and sale administrator is required prior to beginning any operations to determine landing and road locations.

#### 5.1.4 - Post-sale conference (10/16)

A post-sale conference on site between the Purchaser and sale administrator is required 5 days prior to the completion of active logging operations to determine clean-up and repair of landings, road edges, and the fulfillment of other contract specifications.

### 5.2 - Conduct of Operations

#### 5.2.1 - Slash

##### 5.2.1.1 - Slash within sale area (9/16)

No trees are to be felled outside the sale area and all slash is to be kept at least 10 feet back from the red and blue paint line. If sale boundary lines are along a public road or highway, then slash must be removed 50' from these lines per General Condition & Requirement 5.2.1.

##### 5.2.1.8 - Slash height (12/08)

No slash or tree tops may exceed 24 inches in height.

#### 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

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

Timber harvesting in any Payment Unit must be completed before significant aspen sprouting occurs in that Payment Unit 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

##### 5.2.4.3 - Dead and down creation, dead trees (6/07)

Except as provided for in General Condition and Requirement 5.2.2, no dead trees, standing or down, are to be cut, skidded, or processed.

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

To encourage grouse and other wildlife, in Payment Unit(s) 1 and 2, leave one 12" or larger diameter (or largest diameter trees within stand) whole tree on the ground for every 2 acres, preferably a hardwood species such as oak or maple or if no hardwoods are present, a pine species (white or red). In addition the Purchaser must create at least 1 large top pile per every 2 acres. These will be evenly scattered throughout the Payment Unit.

#### 5.2.30 - Landing/road top soil protection (2/15)

Top soil on landings and new roads must be removed, stockpiled and saved. Upon completion of the timber sale, soil must be evenly distributed back over the area for revegetation.

#### 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)

The 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 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 may only be crossed at right angles. 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.

## 6 - Safety and Fire Prevention

### 6.2 - Signing

#### 6.2.2 - Snowmobile trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on snowmobile trail 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.



**TIMBER SALE MAP**

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

Sale Number	Year
61-106	21

Forest Management Unit Traverse City Management Unit	County Kalkaska County	Mapped By Lewicki	Date 9/23/21	Page 1	of 1
Township 26N	Range 06W	Section(s) and Subdivision(s) S.22- SWNW;W1/2NE;SW;N1/2SE;SWSE	Scale 1:15,840		

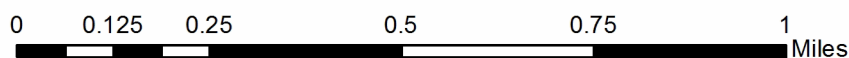
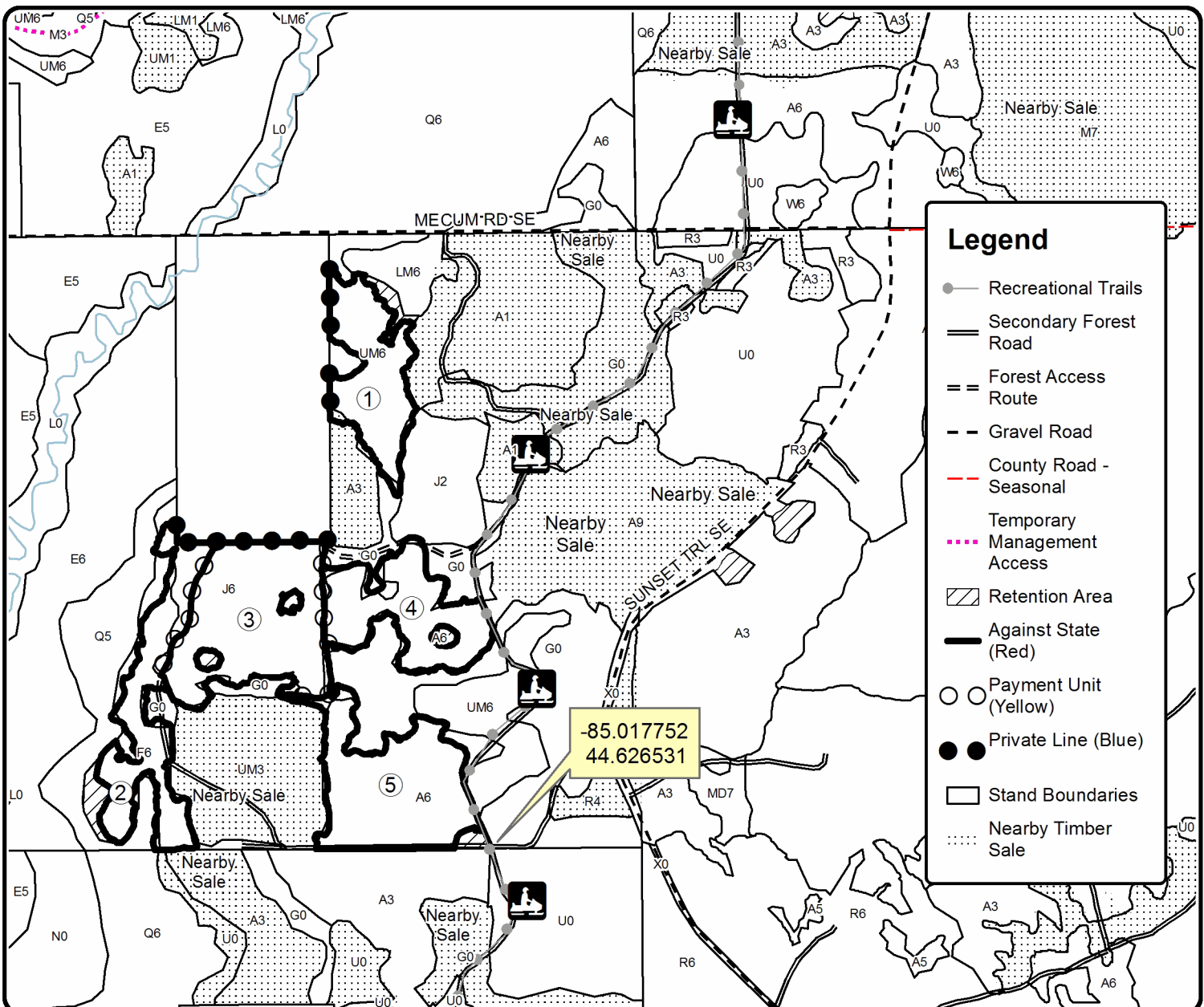
**Cover Type**

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

**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	19.1	4	21.2
2	22.5	5	29.2
3	33.4		

**Trophy Fern Mix****Compartment 25****125.4 Acres**

**TIMBER SALE MAP**

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

Sale Number	Year
61-106	21

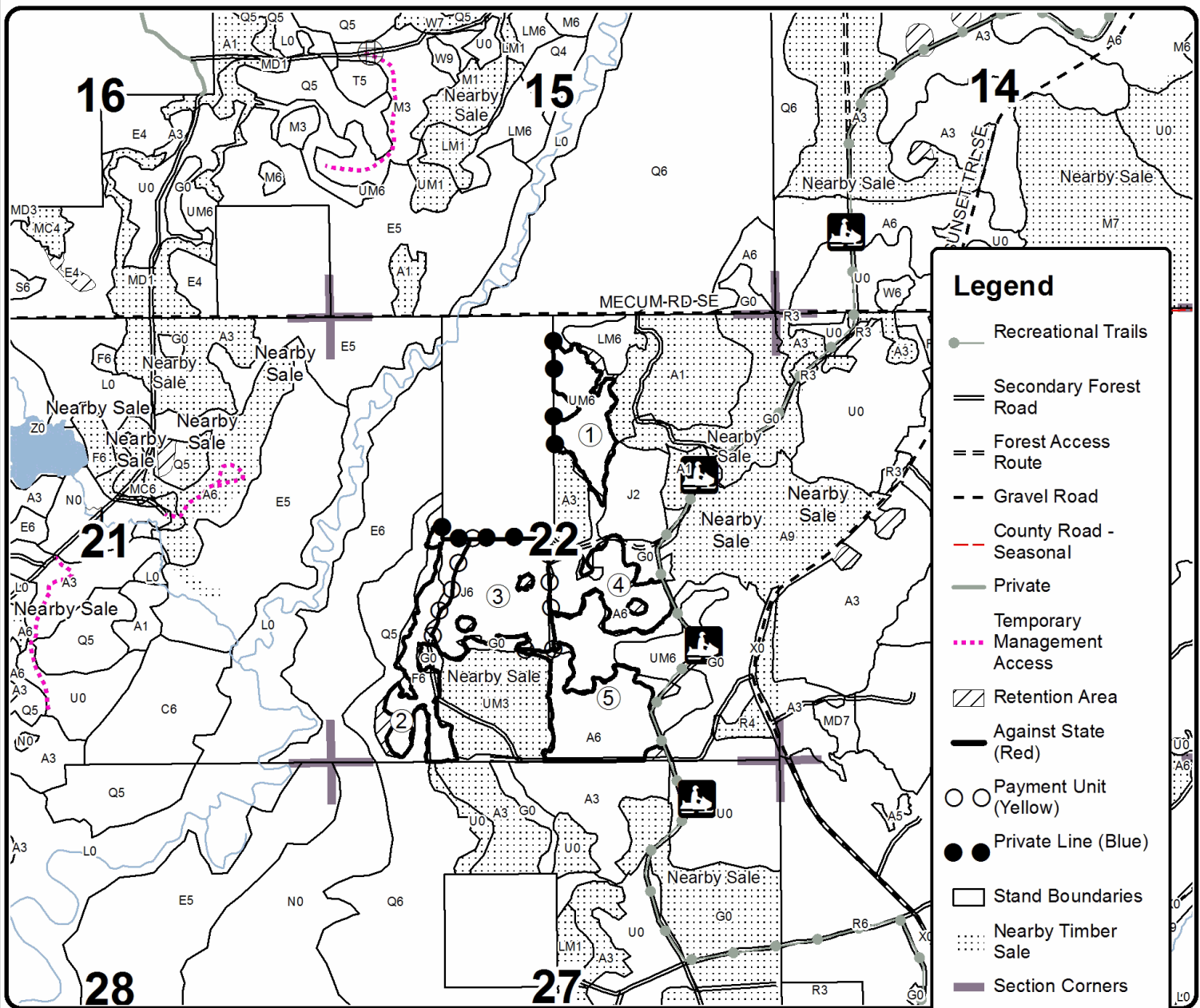
Forest Management Unit Traverse City Management Unit	County Kalkaska County	Mapped By Lewicki	Date 09/23/21	Page 1	of 1
Township 26N	Range 06W	Section(s) and Subdivision(s) S.22 SWNW; W1/2NE; SW; N1/2SE; SWSE	Scale 1:21,757		

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	19.1	4	21.2
2	22.5	5	29.2
3	33.4		

## Trophy Fern

Compartment 125  
125.4 Acres



0 0.125 0.25 0.5 0.75 1 Miles