



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7086**

**SCHEDULED SALE DATE AND TIME: 4:00 p.m. (local time) on August 23, 2022.**

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

**CONTACT NAME: David Fisher**

**PHONE NUMBER: (231) 745-4651**

**PROSPECTUS NOTE:** Effective immediately: all bid openings for the Traverse City Management Unit (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:

The Apprentice Hardwoods (61-102-22) / T27N, R05W, SEC. 10, NWNW.

T27N, R05W, SEC. 3, W1/2NW, NWSW, S1/2SW, SWSE.

T27N, R05W, SEC. 4, NENE, S1/2NE, SE.

T27N, R05W, SEC. 9, NENE.

Kalkaska County, Advertised Price \$201,337.00, 231.6 Acres, Hardwood, Sugar Maple.

**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 spec 5.2.3.3 for information on bark slippage and oak wilt 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

### The Apprentice Hardwoods (61-102-22)

T27N, R05W, SEC. 10; T27N, R05W, SEC. 3; T27N, R05W, SEC. 4; T27N, R05W, SEC. 9.  
Kalkaska County (Advertised Price \$201,337.00)

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

See sale spec 5.2.3.3 for information on bark slippage and oak wilt 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.

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	166.4 MBF	\$ 85.00 / MBF
Black Cherry	118.6 MBF	\$ 133.00 / MBF
Mixed Aspen	21.8 MBF	\$ 94.00 / MBF
Red Maple	71.5 MBF	\$ 122.00 / MBF
Sugar Maple	542.4 MBF	\$ 223.00 / MBF
Yellow Birch	2.8 MBF	\$ 86.00 / MBF
Pulpwood		
Mixed Aspen	70 Cords	\$ 15.55 / Cord
Mixed Hardwood	2,325 Cords	\$ 16.50 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 5.54 percent. There are an estimated 4,909 cords on this timber sale, plus or minus 272 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 \$16,106.96 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	25.1%
02	41.6%
03	13.5%
04	9.5%
05	10.3%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 09/30/2025.

### **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
387,840	4,909	5.54%	4,637	5,182

## 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
22	187,978	2,379	13.20%	2,065	2,693
25	87,193	1,104	17.94%	906	1,302
33	56,502	715	27.54%	518	912
622	32,284	409	164.31%	263	1,080
625	23,882	302	69.27%	93	512
<b>TOTAL:</b>	<b>387,840</b>	<b>4,909</b>		<b>3,320</b>	<b>6,499</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
22	97.7	1	37.1
		2	60.6
25	66.6	3	40.1
		4	26.5
33	50.3	5	50.3
622	11.1	1	4.0
		2	7.1
625	5.9	3	2.8
		4	3.1
<b>TOTAL:</b>	<b>231.6</b>		<b>231.6</b>

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Basswood	Sawtimber	21.5	MBF	41.1	\$50,623.90
	Black Cherry		11.5	MBF		
	Red Maple		12.3	MBF		
	Sugar Maple		170.4	MBF		
	Yellow Birch		1.1	MBF		
	Mixed Hardwood		465	Cords		
	<i>Basswood</i>	Pulpwood	12	<i>Cords</i>		
	<i>Black Cherry</i>		9	<i>Cords</i>		
	<i>Ironwood</i>		5	<i>Cords</i>		
	<i>Red Maple</i>		21	<i>Cords</i>		
	<i>Sugar Maple</i>		416	<i>Cords</i>		
	<i>Yellow Birch</i>		2	<i>Cords</i>		
2	Basswood	Sawtimber	35.1	MBF	67.7	\$83,593.40
	Black Cherry		18.7	MBF		
	Red Maple		20.0	MBF		
	Sugar Maple		282.2	MBF		
	Yellow Birch		1.7	MBF		
	Mixed Hardwood		764	Cords		
	<i>Basswood</i>	Pulpwood	19	<i>Cords</i>		
	<i>Black Cherry</i>		15	<i>Cords</i>		
	<i>Ironwood</i>		9	<i>Cords</i>		
	<i>Red Maple</i>		34	<i>Cords</i>		
	<i>Sugar Maple</i>		683	<i>Cords</i>		
	<i>Yellow Birch</i>		4	<i>Cords</i>		
3	Basswood	Sawtimber	60.6	MBF	42.9	\$27,223.60
	Black Cherry		13.2	MBF		
	Mixed Aspen		2.7	MBF		
	<i>Quaking Aspen</i>		2.7	<i>MBF</i>		
	Red Maple		15.3	MBF		
	Sugar Maple		49.8	MBF		
	Mixed Aspen	Pulpwood	4	Cords		
	<i>Quaking Aspen</i>		4	<i>Cords</i>		
	Mixed Hardwood		426	Cords		
	<i>Basswood</i>		51	<i>Cords</i>		
	<i>Black Cherry</i>		39	<i>Cords</i>		
	<i>Ironwood</i>		5	<i>Cords</i>		
	<i>Red Maple</i>		33	<i>Cords</i>		
	<i>Sugar Maple</i>		298	<i>Cords</i>		
4	Basswood	Sawtimber	44.2	MBF	29.6	\$19,104.15
	Black Cherry		8.8	MBF		
	Mixed Aspen		1.8	MBF		
	<i>Quaking Aspen</i>		1.8	<i>MBF</i>		
	Red Maple		12.1	MBF		
	Sugar Maple		32.9	MBF		
	Mixed Aspen	Pulpwood	3	Cords		
	<i>Quaking Aspen</i>		3	<i>Cords</i>		
	Mixed Hardwood		312	Cords		
	<i>Basswood</i>		37	<i>Cords</i>		
	<i>Black Cherry</i>		28	<i>Cords</i>		
	<i>Ironwood</i>		4	<i>Cords</i>		
	<i>Red Maple</i>		24	<i>Cords</i>		
	<i>Sugar Maple</i>		219	<i>Cords</i>		
5	Basswood	Sawtimber	5.0	MBF	50.3	\$20,791.95
	Black Cherry		66.4	MBF		
	Mixed Aspen		17.3	MBF		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	<i>B. T. Aspen</i>	<i>Sawtimber</i>	<i>16.2</i>	<i>MBF</i>		
	<i>Quaking Aspen</i>		<i>1.1</i>	<i>MBF</i>		
	Red Maple		11.8	MBF		
	Sugar Maple		7.1	MBF		
	Mixed Aspen		63	Cords		
	<i>B. T. Aspen</i>		<i>46</i>	<i>Cords</i>		
	<i>Quaking Aspen</i>		<i>17</i>	<i>Cords</i>		
	Mixed Hardwood		358	Cords		
	<i>Basswood</i>		<i>2</i>	<i>Cords</i>		
	<i>Black Cherry</i>		<i>207</i>	<i>Cords</i>		
	<i>Red Maple</i>		<i>97</i>	<i>Cords</i>		
	<i>Sugar Maple</i>		<i>52</i>	<i>Cords</i>		
TOTAL:			923.5	MBF		
TOTAL:			2,395	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: The Apprentice Hardwoods**

**Sale Number: 61-102-22 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 red and yellow paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. Regen gaps are marked with pink paint. The painted boundary line trees are not Included Timber and are to be protected unless marked with orange paint.

### **2 - Timber Specifications**

#### **2.1 - Included Timber**

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

Within Payment Unit(s) 1-4, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability. In addition, cut all aspen, beech, and ironwood except those marked with an orange 'X'. Regen gaps are identified with pink paint and are also shown on the Timber Sale Map. Cut all trees greater than 4 feet tall, except for hemlock, within the pink boundary line.

##### **2.1.5 - Overstory removal unit(s) (8/11)**

Within Payment Unit(s) 5, all trees with DBH equal to or greater than 4 inches which meet minimum piece specifications in 2.2 Utilization, are designated for cutting, except do not cut oak, white pine, and apple trees. Also do not cut sugar maple trees less than 6 inches in diameter.

#### **2.2 - Utilization**

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

In Payment Units 1-4 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) with a value greater than \$15,000 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. 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 maple, cherry and aspen seedlings and saplings.

Within the Sale Area, 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 10% of trees (> 4.5" DBH) within a specified area of the sale are damaged, liquidated damages will be assessed for all trees damaged.

### **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 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 within 30 days of completion of hauling. Overgrown roads that are reopened shall be considered new roads. In general, this will require constructing double earthen berms at strategic locations. Stumps and brush must be placed along the remainder of the trail. These roads must be rendered impassable to cars and trucks. Temporary berms may be required if no sale activity occurs for 30 or more consecutive days. 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 spring break up or during wet weather conditions.

## 5 - 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 24 inches in height.

##### 5.2.1.10 - No slash in openings (5/10)

Any damage to the opening shall be repaired according to specifications of the Unit Manager or his/her representative.

#### 5.2.3 - Operating Restrictions

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

Within Payment Unit(s) 1-5, cutting and skidding are not permitted during the period of April 15 to July 15. This restriction is because of bark slippage and oak wilt.

#### 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 in the openings, labeled with a G0 on the map, east of Payment Units 3 and 4. These are maintained wildlife openings.

#### 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)

There is an ORV trail and 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 as the centerline. Do not run equipment down the ORV trail. Skidding across the trail or route may only occur in locations approved by the sale administrator.

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

There 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. 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. All stumps within 20 feet of the snowmobile trail must be cut at ground level.

#### 5.2.43 - Opening protection (2/21)

No activities are permitted in openings marked on the Timber Sale Map with the letter "G0". Any damage to the openings shall be repaired according to specifications of the Unit Manager or his/her representative.

### 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

#### 5.8.5 - 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.

#### 5.8.8 - Protected species, other (2/12)

All operation must cease if a threatened or endangered species is encountered. An onsite evaluation must be done before harvesting operations can resume.

## 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 Blue Lake Road, County Road 612 and any state forest roads used for hauling 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 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.

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

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





## TIMBER SALE MAP

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

Sale Number	Year
61-102	22

Forest Management Unit Traverse City	County Kalkaska	Mapped By Crigier	Date 06/24/2022	Page 1	of 1
Township 27N	Range 05W	Section(s) and Subdivision(s) Sections 3 and 4	Cruised By UMLM, Armstrong, Crigier	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	41.1	4	29.6
2	67.7	5	50.3
3	42.9		

## The Apprentice Hardwoods

### Compartment 110

231.6 Acres

