



**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:

Hart Woods (61-115-22) / T28N, R07W, SEC. 15, N1/2SW,SWSW.

T28N, R07W, SEC. 16, NE,SW,SE.

T28N, R07W, SEC. 21, N1/2NW,N1/2NE.

Kalkaska County, Advertised Price \$301,865.95, 338.8 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.

## TIMBER SALE INFORMATION

### Hart Woods (61-115-22)

T28N, R07W, SEC. 15; T28N, R07W, SEC. 16; T28N, R07W, SEC. 21.

Kalkaska County (Advertised Price \$301,865.95)

**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 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	590.5 MBF	\$ 108.00 / MBF
Beech	2.3 MBF	\$ 139.00 / MBF
Black Cherry	11.5 MBF	\$ 170.00 / MBF
Mixed Aspen	49.8 MBF	\$ 120.00 / MBF
Red Maple	212.6 MBF	\$ 155.00 / MBF
Sugar Maple	464.0 MBF	\$ 284.00 / MBF
Yellow Birch	1.4 MBF	\$ 110.00 / MBF
Pulpwood		
Basswood	698 Cords	\$ 18.50 / Cord
Mixed Aspen	431 Cords	\$ 19.75 / Cord
Mixed Hardwood	2,073 Cords	\$ 21.00 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 3.43 percent. There are an estimated 6,488 cords on this timber sale, plus or minus 223 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 \$24,149.28 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	16.2%
02	16.4%
03	15.8%
04	5.6%
05	13.2%
06	14.4%
07	18.4%

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
512,524	6,488	3.43%	6,265	6,710

## 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
24	43,509	551	13.59%	476	626
26	57,463	727	8.68%	664	791
27	296,985	3,759	4.44%	3,593	3,926
626	23,003	291	11.95%	256	326
627	91,563	1,159	9.04%	1,054	1,264
<b>TOTAL:</b>	<b>512,524</b>	<b>6,488</b>		<b>6,043</b>	<b>6,932</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
24	26.3	4	26.3
26	35.8	1	35.8
27	243.1	2	51.3
		3	46.5
		5	44.0
		6	41.4
		7	59.9
626	5.4	1	5.4
627	28.2	2	5.8
		3	6.4
		5	3.9
		6	6.1
		7	6.0
<b>TOTAL:</b>	<b>338.8</b>		<b>338.8</b>

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Basswood	Sawtimber	113.0	MBF	41.2	\$48,880.70
	Beech		2.3	MBF		
	Red Maple		26.0	MBF		
	Sugar Maple		84.0	MBF		
	Yellow Birch		1.4	MBF		
	Basswood	Pulpwood	134	Cords		
	Mixed Hardwood		278	Cords		
	<i>Beech</i>		4	<i>Cords</i>		
	<i>Black Cherry</i>		3	<i>Cords</i>		
	<i>Red Maple</i>		66	<i>Cords</i>		
	<i>Sugar Maple</i>		202	<i>Cords</i>		
	<i>Yellow Birch</i>		3	<i>Cords</i>		
2	Basswood	Sawtimber	100.3	MBF	57.1	\$49,478.25
	Black Cherry		1.5	MBF		
	Red Maple		39.2	MBF		
	Sugar Maple		78.9	MBF		
	Basswood	Pulpwood	119	Cords		
	Mixed Aspen		1	Cords		
	<i>Quaking Aspen</i>		1	<i>Cords</i>		
	Mixed Hardwood		366	Cords		
	<i>Beech</i>		5	<i>Cords</i>		
	<i>Black Cherry</i>		8	<i>Cords</i>		
	<i>Ironwood</i>		21	<i>Cords</i>		
	<i>Red Maple</i>		72	<i>Cords</i>		
	<i>Sugar Maple</i>		260	<i>Cords</i>		
3	Basswood	Sawtimber	94.3	MBF	52.9	\$47,714.85
	Black Cherry		1.3	MBF		
	Red Maple		36.7	MBF		
	Sugar Maple		78.3	MBF		
	Basswood	Pulpwood	110	Cords		
	Mixed Aspen		1	Cords		
	<i>Quaking Aspen</i>		1	<i>Cords</i>		
	Mixed Hardwood		349	Cords		
	<i>Beech</i>		5	<i>Cords</i>		
	<i>Black Cherry</i>		7	<i>Cords</i>		
	<i>Ironwood</i>		19	<i>Cords</i>		
	<i>Red Maple</i>		67	<i>Cords</i>		
	<i>Sugar Maple</i>		251	<i>Cords</i>		
4	Black Cherry	Sawtimber	4.6	MBF	26.3	\$16,838.90
	Mixed Aspen		49.8	MBF		
	<i>B. T. Aspen</i>		36.2	<i>MBF</i>		
	<i>Quaking Aspen</i>		13.6	<i>MBF</i>		
	Sugar Maple	Pulpwood	2.1	MBF		
	Mixed Aspen		426	Cords		
	<i>B. T. Aspen</i>		134	<i>Cords</i>		
	<i>Quaking Aspen</i>		292	<i>Cords</i>		
	Mixed Hardwood		51	Cords		
	<i>Black Cherry</i>		39	<i>Cords</i>		
	<i>Ironwood</i>		7	<i>Cords</i>		
	<i>Sugar Maple</i>		5	<i>Cords</i>		
5	Basswood	Sawtimber	82.9	MBF	47.9	\$39,768.15
	Black Cherry		1.2	MBF		
	Red Maple		32.6	MBF		
	Sugar Maple		61.3	MBF		
	Basswood	Pulpwood	100	Cords		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE	
5 con't	Mixed Aspen	Pulpwood	1	Cords			
	<i>Quaking Aspen</i>		1	<i>Cords</i>			
	Mixed Hardwood		299	Cords			
	<i>Beech</i>		5	<i>Cords</i>			
	<i>Black Cherry</i>		7	<i>Cords</i>			
	<i>Ironwood</i>		18	<i>Cords</i>			
	<i>Red Maple</i>		61	<i>Cords</i>			
	<i>Sugar Maple</i>		208	<i>Cords</i>			
6	Basswood	Sawtimber	85.2	MBF	47.5	\$43,478.75	
	Black Cherry	Pulpwood	1.2	MBF			
	Red Maple		33.1	MBF			
	Sugar Maple		72.1	MBF			
	Basswood		99	Cords			
	Mixed Aspen		1	Cords			
	<i>Quaking Aspen</i>		1	<i>Cords</i>			
	Mixed Hardwood		315	Cords			
	<i>Beech</i>		4	<i>Cords</i>			
	<i>Black Cherry</i>		6	<i>Cords</i>			
	<i>Ironwood</i>		17	<i>Cords</i>			
	<i>Red Maple</i>		60	<i>Cords</i>			
	<i>Sugar Maple</i>		228	<i>Cords</i>			
	7		Basswood	Sawtimber			114.8
Black Cherry			Pulpwood	1.7	MBF		
Red Maple		45.0		MBF			
Sugar Maple		87.3		MBF			
Basswood		136		Cords			
Mixed Aspen		1		Cords			
<i>Quaking Aspen</i>		1		<i>Cords</i>			
Mixed Hardwood		415		Cords			
<i>Beech</i>		6		<i>Cords</i>			
<i>Black Cherry</i>		9		<i>Cords</i>			
<i>Ironwood</i>		23		<i>Cords</i>			
<i>Red Maple</i>		84		<i>Cords</i>			
<i>Sugar Maple</i>		293		<i>Cords</i>			
TOTAL:				1,332.1	MBF		
TOTAL:				3,202	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: Hart Woods**

**Sale Number: 61-115-22 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 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. 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) 1-3 and 5-7, 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) 4, 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 elm, apple, white pine, or trees marked with green paint. Also, do not cut sugar maple that is less than 6 inches in diameter.

#### **2.2 - Utilization**

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

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 undesigned live merchantable trees which are cut or injured. In addition, within Payment Unit 4, extreme care should be taken to avoid damage to tree seedlings and saplings.

Within the Sale Area, if more than 20% of the maple seedlings or saplings (1/4" to 6.0" 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 undesigned 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. Rates will be in accordance with General Condition and Requirement 3.4 Damaged Timber.

### **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

### 5.1 - Notification

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

The Purchaser is responsible for contacting the gas/pipeline company or MISS DIG (811) prior to operating equipment in the vicinity of well heads or natural gas pipelines.

### 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)

No brush or logging debris is to be left in the openings which is indicated by G0 and U0 on the Timber Sale Map. 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) 1-7, 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.

#### 5.2.29 - 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.

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

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

### 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.

### 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 Wallace Road, Smith Road and any state forest roads that are 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.





## TIMBER SALE MAP

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

Sale Number

61 - 115

Year

22

Forest Management Unit

Traverse City

County

Kalkaska

Mapped By

Crigier

Date

06/16/2022

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1

1

Township

28N

Range

07W

Section(s) and Subdivision(s)

Section: 15 &amp; 16

Scale

1:15,840

## Cover Type

A = Aspen  
B = Paper Birch  
C = Cedar  
D = Treed Bog  
E = Swamp Hdwoods  
F = Spruce Fir  
G = Grass

H = Hemlock  
J = Jack Pine  
L = Lowland Brush  
LM = Lowland Mixed  
M = Mpl, Bch, Brch  
MC = Mixed Conifer  
MD = Mixed Deciduous

N = Marsh  
O = Oak  
P = Lowland Poplar  
Q = Mixed Swamp Conifer  
R = Red Pine  
S = Black Spruce  
T = Tamarack

U = Upland Brush  
UM = Upland Mixed  
V = Bog or Marsh  
W = White Pine  
X = Non Stocked  
Z = Water

## Density

0 = Non Stocked  
1 = Seedling Sapling Poor  
2 = Seedling Sapling Medium  
3 = Seedling Sapling Well  
4 = Pole Timber Poor

5 = Pole Timber Medium  
6 = Pole Timber Well  
7 = Saw Timber Poor  
8 = Saw Timber Medium  
9 = Saw Timber Well

PU	Acres	PU	Acres
1	41.2	5	47.9
2	57.1	6	47.5
3	52.9	7	65.9
4	26.3		

## Hart Woods

Compartment 174

338.8 Acres

