



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN**

**TIMBER SALE PROSPECTUS #6922**

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on November 3, 2021.**

LOCATION: **GAYLORD MGMT UNIT, 1732 WEST M 32, GAYLORD, MI 49735.**

CONTACT NAME: Lucas Merrick

PHONE NUMBER: (989) 732-3541

PROSPECTUS NOTE: Effective immediately all bid openings for the Gaylord Management Unit (Gaylord Field Office and Indian River Field Office) will be held at the Gaylord Field Office regardless of sale location within the unit. All payments and contract executions will now be handled through the Gaylord Field Office. The Indian River 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 Gaylord 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, GAYLORD MANAGEMENT UNIT, for certain timber on the following described lands:

Thundering Hardwoods (52-014-21) / T33N, R05W, SEC. 15, SWSE.

T33N, R05W, SEC. 22, NENW,NWNE,E1/2SE.

T33N, R05W, SEC. 23, SWNW,N1/2SW,SWSW.

T33N, R05W, SEC. 26, N1/2NW.

Charlevoix County, Advertised Price \$130,084.05, 92.5 Acres, Aspen, Hardwood.

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 5.2.3.5 for 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

### Thundering Hardwoods (52-014-21)

T33N, R05W, SEC. 15; T33N, R05W, SEC. 22; T33N, R05W, SEC. 23; T33N, R05W, SEC. 26.  
Charlevoix County (Advertised Price \$130,084.05)

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See sale spec 5.2.3.5 for 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		
B. T. Aspen	137.0 MBF	\$ 37.00 / MBF
Basswood	127.0 MBF	\$ 40.00 / MBF
Beech	33.5 MBF	\$ 45.00 / MBF
Red Maple	12.2 MBF	\$ 71.00 / MBF
Red Oak	29.5 MBF	\$ 80.00 / MBF
Sugar Maple	241.8 MBF	\$ 344.00 / MBF
Pulpwood		
B. T. Aspen	388 Cords	\$ 14.55 / Cord
Basswood	196 Cords	\$ 6.60 / Cord
Mixed Hardwood	1,611 Cords	\$ 15.15 / Cord
Red Oak	82 Cords	\$ 8.25 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 4.83 percent. There are an estimated 3,589 cords on this timber sale, plus or minus 174 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 \$6,504.20 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	35.1%
02	27.8%
03	37.1%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 12/31/2024.

### **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
283,558	3,589	4.83%	3,416	3,763

## 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
61	27,339	346	10.29%	310	382
69	50,312	637	10.71%	569	705
97	193,988	2,456	5.99%	2,308	2,603
<b>TOTAL:</b>	<b>271,638</b>	<b>3,438</b>		<b>3,188</b>	<b>3,689</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
61	8.0	1	8.0
69	15.7	1	15.7
97	68.8	2	29.5
		3	39.3
<b>TOTAL:</b>	<b>92.5</b>		<b>92.5</b>

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	B. T. Aspen	Sawtimber	50.2	MBF	23.7	\$45,667.95
	Basswood		32.0	MBF		
	Beech		17.4	MBF		
	Red Oak		3.9	MBF		
	Sugar Maple		96.3	MBF		
	B. T. Aspen		183	Cords		
	Basswood		47	Cords		
	Mixed Hardwood		350	Cords		
	<i>Beech</i>		24	<i>Cords</i>		
	<i>Sugar Maple</i>		326	<i>Cords</i>		
Red Oak	4	Cords				
2	B. T. Aspen	Sawtimber	37.2	MBF	29.5	\$36,200.90
	Basswood		40.7	MBF		
	Beech		6.9	MBF		
	Red Maple		5.2	MBF		
	Red Oak		11.0	MBF		
	Sugar Maple		62.4	MBF		
	B. T. Aspen		88	Cords		
	Basswood		64	Cords		
	Mixed Hardwood		541	Cords		
	<i>Beech</i>		168	<i>Cords</i>		
	<i>Ironwood</i>		15	<i>Cords</i>		
	<i>Red Maple</i>		27	<i>Cords</i>		
	<i>Sugar Maple</i>		331	<i>Cords</i>		
	Red Oak		33	Cords		
3	B. T. Aspen	Sawtimber	49.6	MBF	39.3	\$48,215.20
	Basswood		54.3	MBF		
	Beech		9.2	MBF		
	Red Maple		7.0	MBF		
	Red Oak		14.6	MBF		
	Sugar Maple		83.1	MBF		
	B. T. Aspen		117	Cords		
	Basswood		85	Cords		
	Mixed Hardwood		720	Cords		
	<i>Beech</i>		224	<i>Cords</i>		
	<i>Ironwood</i>		19	<i>Cords</i>		
	<i>Red Maple</i>		37	<i>Cords</i>		
	<i>Sugar Maple</i>		440	<i>Cords</i>		
	Red Oak		45	Cords		
TOTAL:			581.0	MBF		
TOTAL:			2,277	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: Thundering Hardwoods**

**Sale Number: 52-014-21 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 and red paint in addition to an unpainted road. 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 identified by Holms Road (unpainted). 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.

### **2 - Timber Specifications**

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

##### **2.1.1 - Clearcut unit(s) with unmerchantable trees (6/14)**

Within Payment Unit(s) 1-3, cut all trees that are two (2) inches or more at DBH, except the white pine in Payment Unit 1.

### **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.

### **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. 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.

### **5 - Operations**

#### **5.1 - Notification**

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

A pre-sale conference on site between the Purchaser and sale administrator is required prior to beginning any operations to determine landing and road locations. The Unit Manager or his/her representative must be contacted at least 5 days in advance to schedule the conference.

#### 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

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

No slash or tree tops may exceed 36 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

##### 5.2.3.5 - Oak wilt restriction (1/18)

Within Payment Unit(s) 1-3, unless changed by written agreement, cutting, skidding, hauling within the sale and brushing of access roads to the sale are not permitted during the period of April 15 to July 15. Operations may be allowed if specific steps are taken to prevent damaging uncut oak during the high risk period. Those steps may include completing all road brushing before April 15th and clearing a tree-length buffer along uncut oak cover before April 15th. This is necessary to reduce the spread of oak wilt. For more information, contact the Unit Manager or his/her representative.

##### 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 snowmobile trail (Holms Road) 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 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 during snowmobile season. All stumps within 2 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.

#### 5.4.3 - Erosion control (12/08)

Skid trails or haul roads may require erosion control structures or berms per direction of the Unit Manager or his/her representative.

#### 5.4.4 - Slope protection (9/19)

Skid trails and roads on slopes shall be water barred with slash and stumps as soon as use is complete to prevent erosion.

### 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 Holms 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 the snowmobile trail (also Holms Road) 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	Product	Price	Quantity	Total
1	Product A	10	5	50
2	Product B	20	3	60
3	Product C	30	2	60
4	Product D	40	1	40
5	Product E	50	1	50
6	Product F	60	1	60
7	Product G	70	1	70
8	Product H	80	1	80
9	Product I	90	1	90
10	Product J	100	1	100

52 - 014

Year

21

Forest Management Unit  
Gaylord

County
Charlevoix

Mapped By	Matt Foster
Cruised By	Matt Foster

Date	
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6/25/2021

Page

of

Township

Range
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Section(s) and Subdivision(s)	
Sec15:SWSE; Sec22:NENW,NWNE,E1/2SE; Sec23:SWNW, N1/2SW,SWSW; Sec26:N1/2NW	

Scale
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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

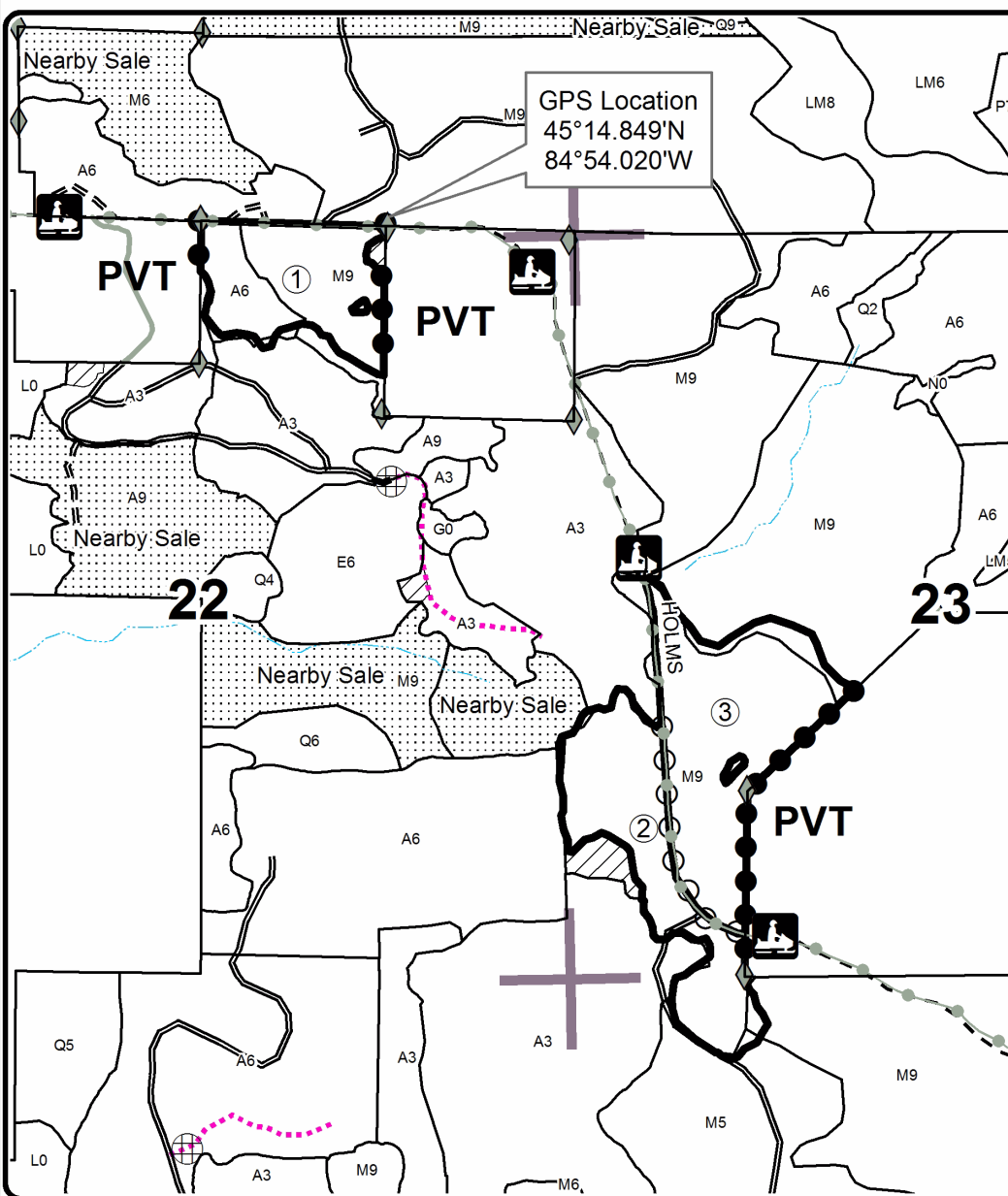
5 = Pole Timber Medium  
6 = Pole Timber Well  
7 = Saw Timber Poor  
8 = Saw Timber Medium  
9 = Saw Timber Well

**PU    Acres**

















<b>1</b>	<b>23.7</b>
<b>2</b>	<b>29.5</b>
<b>3</b>	<b>39.3</b>

# Thundering Hardwoods

**Compartment 39**  
**92.5 Acres**



### Legend

-  Sale Boundary (Red)
-  Payment Unit (unpainted road)
-  Private Line (Blue)
-  Retention Area (Red)
-  Stand Boundaries
-  Recreational Trail
-  Field Grade Corners
-  Secondary Forest Road
-  Forest Access Route
-  Gravel Road
-  Private
-  Temporary Management Access
-  Intermittent Stream
-  Nearby Timber Sales
-  Section Corners
-  Berms

