



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7420**

**SCHEDULED SALE DATE AND TIME:** 2:00 p.m. (local time) on April 17, 2024.

**LOCATION:** SHINGLETON MGMT UNIT, PO BOX 67, M 28 WEST, SHINGLETON, MI 49884.

**CONTACT NAME:** Robert Burnham

**PHONE NUMBER:** (906) 420-1645

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

C-106 Contract North (41-020-23) / T47N, R13W, SEC. 22, SESE.

T47N, R13W, SEC. 23, S1/2SW,S1/2SE.

T47N, R13W, SEC. 24, NW,W1/2NE,S1/2SE.

T47N, R13W, SEC. 25, N1/2NE.

T47N, R13W, SEC. 26, NW,NE,S1/2SW,SE.

T47N, R13W, SEC. 35, NW,N1/2NE,SWNE.

Schoolcraft County, Advertised Price \$593,969.60, 563.4 Acres, Jack Pine, Red Pine.

SALE NOTE: Road work is required on this sale. See Sale Spec 4.1.8 for details.

Within Payment Units 10-12, chipping is encouraged as it is the most effective and efficient way to mitigate slash for reforestation. See Sale Spec 5.2.1.11 for additional information.

The Danaher Plains ORV trail/route is shown on the Timber Sale Map. See Sale Spec 5.2.39 for additional information/restrictions.

Snowmobile Trail 431 is shown on the Timber Sale Map. See Sale Spec 5.2.39 for additional information/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

### C-106 Contract North (41-020-23)

T47N, R13W, SEC. 22; T47N, R13W, SEC. 23; T47N, R13W, SEC. 24; T47N, R13W, SEC. 25; T47N, R13W, SEC. 26; T47N, R13W, SEC. 35.

SALE NOTE: Road work is required on this sale. See Sale Spec 4.1.8 for details.

Within Payment Units 10-12, chipping is encouraged as it is the most effective and efficient way to mitigate slash for reforestation. See Sale Spec 5.2.1.11 for additional information.

The Danaher Plains ORV trail/route is shown on the Timber Sale Map. See Sale Spec 5.2.39 for additional information/restrictions.

Snowmobile Trail 431 is shown on the Timber Sale Map. See Sale Spec 5.2.39 for additional information/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>
Pulpwood		
Balsam Fir	4 Cords	\$ 13.75 / Cord
Black Spruce	20 Cords	\$ 19.40 / Cord
Jack Pine	1,028 Cords	\$ 23.85 / Cord
Mixed Aspen	41 Cords	\$ 29.40 / Cord
Mixed Hardwood	32 Cords	\$ 22.35 / Cord
Paper Birch	5 Cords	\$ 13.75 / Cord
Red Pine	6,413 Cords	\$ 87.75 / Cord
White Pine	143 Cords	\$ 28.70 / Cord
White Spruce	9 Cords	\$ 19.40 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 11.66 percent. There are an estimated 7,696 cords on this timber sale, plus or minus 897 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 \$29,698.48 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	11.7%
02	8.4%
03	8.3%
04	9.3%
05	6.7%
06	10.0%
07	2.2%
08	4.2%
09	12.9%
10	10.9%
11	14.4%
12	1.0%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2027.

### **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
607,971	7,696	11.66%	6,798	8,593

## 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
1	249,795	3,162	11.43%	2,801	3,523
2	51,105	647	24.49%	488	805
3	34,166	432	18.82%	351	514
4	116,602	1,476	25.31%	1,102	1,850
5	138,957	1,759	17.65%	1,449	2,069
6	17,347	220	37.19%	138	301
<b>TOTAL:</b>	<b>607,971</b>	<b>7,696</b>		<b>6,329</b>	<b>9,063</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
1	253.6	1	64.7
		3	45.7
		4	51.2
		5	37.0
		6	55.0
		2	57.4
2	57.4	7	14.4
3	41.8	8	27.4
4	41.4	9	41.4
		10	27.6
5	64.1	11	36.5
6	105.1	12	105.1
<b>TOTAL:</b>	<b>563.4</b>		<b>563.4</b>

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Mixed Aspen	Pulpwood	2	Cords	64.7	\$69,780.05
	<i>Balsam Poplar</i>		2	<i>Cords</i>		
	Mixed Hardwood		5	Cords		
	<i>Black Cherry</i>		2	<i>Cords</i>		
	<i>Red Maple</i>		3	<i>Cords</i>		
	Red Pine		790	Cords		
	<i>Red Pine</i>		790	<i>Cords</i>		
	White Pine		10	Cords		
2	Jack Pine	Pulpwood	59	Cords	57.4	\$49,914.55
	Mixed Aspen		26	Cords		
	<i>Quaking Aspen</i>		26	<i>Cords</i>		
	Red Pine		536	Cords		
	<i>Red Pine</i>		536	<i>Cords</i>		
	White Pine		22	Cords		
	White Spruce		4	Cords		
3	Mixed Aspen	Pulpwood	1	Cords	45.7	\$49,261.85
	<i>Balsam Poplar</i>		1	<i>Cords</i>		
	Mixed Hardwood		3	Cords		
	<i>Black Cherry</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		2	<i>Cords</i>		
	Red Pine		558	Cords		
	<i>Red Pine</i>		558	<i>Cords</i>		
	White Pine		7	Cords		
4	Mixed Aspen	Pulpwood	1	Cords	51.2	\$55,169.80
	<i>Balsam Poplar</i>		1	<i>Cords</i>		
	Mixed Hardwood		3	Cords		
	<i>Black Cherry</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		2	<i>Cords</i>		
	Red Pine		625	Cords		
	<i>Red Pine</i>		625	<i>Cords</i>		
	White Pine		8	Cords		
5	Mixed Aspen	Pulpwood	1	Cords	37.0	\$39,931.65
	<i>Balsam Poplar</i>		1	<i>Cords</i>		
	Mixed Hardwood		3	Cords		
	<i>Black Cherry</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		2	<i>Cords</i>		
	Red Pine		452	Cords		
	<i>Red Pine</i>		452	<i>Cords</i>		
	White Pine		6	Cords		
6	Mixed Aspen	Pulpwood	1	Cords	55.0	\$59,345.10
	<i>Balsam Poplar</i>		1	<i>Cords</i>		
	Mixed Hardwood		4	Cords		
	<i>Black Cherry</i>		2	<i>Cords</i>		
	<i>Red Maple</i>		2	<i>Cords</i>		
	Red Pine		672	Cords		
	<i>Red Pine</i>		672	<i>Cords</i>		
	White Pine		9	Cords		
7	Red Pine	Pulpwood	149	Cords	14.4	\$13,074.75
	<i>Red Pine</i>		149	<i>Cords</i>		
8	Red Pine	Pulpwood	283	Cords	27.4	\$24,833.25
	<i>Red Pine</i>		283	<i>Cords</i>		
9	Jack Pine	Pulpwood	829	Cords	41.4	\$76,545.90
	Red Pine		647	Cords		
	<i>Red Pine</i>		647	<i>Cords</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
10	Jack Pine	Pulpwood	28	Cords	27.6	\$64,637.55
	Red Pine		729	Cords		
	Red Pine	Sawtimber	0.9	MBF		
	Red Pine	Pulpwood	727	Cords		
11	Jack Pine	Pulpwood	38	Cords	36.5	\$85,497.30
	Red Pine		964	Cords		
	Red Pine	Sawtimber	1.2	MBF		
	Red Pine	Pulpwood	962	Cords		
12	Balsam Fir	Pulpwood	4	Cords	105.1	\$5,977.85
	Black Spruce		20	Cords		
	Jack Pine		74	Cords		
	Mixed Aspen		9	Cords		
	Quaking Aspen		9	Cords		
	Mixed Hardwood		14	Cords		
	Black Cherry		1	Cords		
	Red Maple		13	Cords		
	Paper Birch		5	Cords		
	Red Pine		8	Cords		
	Red Pine		8	Cords		
	White Pine		81	Cords		
	White Spruce		5	Cords		
TOTAL:			7,695	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: C-106 Contract North**

**Sale Number: 41-020-23 Seq#: 2**

### **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. The painted boundary line trees are not Included Timber and are to be protected unless marked with orange paint. 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) 9-12, cut all trees that are two (2) inches or more at DBH.

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

Within Payment Unit(s) 1-8, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability.

#### **2.2 - Utilization**

##### **2.2.3 - 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. This is in order to facilitate planting operations.

##### **2.2.11 - Chipping restriction (9/14)**

If chipping occurs on this sale, then no woody debris present on the ground at the start of the sale may be chipped. In addition, brush or chips may not be stored or stockpiled on-site for more than 30 days.

### **3 - Payments**

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

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

Payment Unit(s) with a contract value of \$20,000 or greater, 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.

### **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. All stumps from road building and landing construction must be reserved to block any newly constructed roads upon completion of the sale. These stumps must be scattered along the road system to prohibit vehicular movement. Contact the Sale Administrator for specific details of design and placement.

#### 4.1.8 - Road work (1) (8/07)

The following road work is required: 400 cubic yards of 3-inch minus (breaker run gravel) must be purchased, hauled and spread between the Sale Area and M-77. Exact location of road work will be determined at the pre-sale meeting. The roadwork must be complete before hauling begins.

#### 4.2 - Maintenance

##### 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 bulldozer 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

#### 5.2 - Conduct of Operations

##### 5.2.1 - Slash

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

Within Payment Units 10-12, chipping is encouraged as it is the most effective and efficient way to mitigate slash for reforestation. Other tactics to mitigate slash for site preparation would need to be approved by the Unit Manager or his/her representative. Liquidated damages may be assessed at \$250 per acre if it is determined that slash mitigation was inadequate, and mastication is needed for the DNR to conduct site preparation for planting.

##### 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

###### 5.2.3.6 - Bark beetle restriction (12/08)

In the event drought creates a high risk of pine bark beetle infestation, pine is not to be cut during the period March 1 through July 1, unless all portions of trees greater than two inches in diameter are removed from the sale area, reduced to chips, or treated to the satisfaction of the Unit Manager or his/her representative, within fifteen days of being severed from the stump. Pine log decks, pulpwood piles and treetops that are piled for chipping in the fall or winter within a 1/4 mile of susceptible sites must be removed before March 15. Residual slash must not be placed in piles or rows and must be spread over the site for quick drying. The Department of Natural Resources will exercise this specification if the risk of damage warrants.

###### 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.

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

The Danaher Plains ORV trail 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)

Snowmobile Trail 431 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. The snowmobile trail may not be used for any timber sale operations from December 1 to March 31 except for crossing at right angles. Maintain a 20-foot-wide slash, debris, and rut free zone daily using the snowmobile trail as the centerline. All stumps within 20 feet of the snowmobile trail must be cut at ground level.

## 5.8 - Protection of Endangered Species

### 5.8.3 - Red shoulder hawk or goshawk (1) (2/16)

In the event that an active red shoulder hawk or goshawk nest is found, the contract may be amended to protect the nest site until the nest is determined to be inactive. The value of the trees in this excluded area will be refunded or credited to the Purchaser. The nest will be buffered with a five-chain radius (eight acre) protection area, centered on the nest tree, in which there will be no cutting or new roads constructed. Avoid human disturbance, including loading and skidding, in the protection area.

An additional zone of five chains (ten chains centered on the active nest tree) will be established in which there is no management activity from April 1 to July 30. Limit biomass harvesting and chipping operations within this ten-chain zone, retain the maximum one-third of residues per the Woody Biomass Harvesting Guidelines (Michigan DNR 2010). Nests determined to be inactive will be protected with a one-chain no-harvest buffer.

## 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 Star Road and Danaher Plains 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 Snowmobile Trail 431 crossings prior to beginning operations during the snowmobile season (approximately December 1 to March 31). The trail must be posted at appropriate distances from crossings 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 Danaher Plains 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.

## 7 - Other Conditions

### 7.3 - Contract Modifications

#### 7.3.3 - Modification for reforestation (8/05)

When contractual work of Purchaser has been accepted for any Payment Unit identified on Sale Area Map, Payment Unit will be eliminated from the Sale Area on written notice so that reforestation operations can begin.



## TIMBER SALE MAP

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

Sale Number  
**41-020-23**

Date  
1/29/2024

Forest Management Unit	County	Mapped By: Mario Molin	Scale 1:20,000	Page 1	Of 1
Shingleton Mgt Unit	Schoolcraft	Cruised By: Grossman, Molin			

Township 47N	Range 13W	Section(s) and Subdivision(s)	NW,NE,S1/2SW,SE; Sec. 35 NW,N1/2NE,SWNE; Sec. 22 SESE; Sec. 23 S1/2SW,S1/2SE; Sec. 24 NW,W1/2NE,S1/2SE; Sec. 25 N1/2NE; Sec. 26
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### Cover Type

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

## 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

**C-106 Contract North**  
**563.4 Acres**

