



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN**

**TIMBER SALE PROSPECTUS #7015**

SCHEDULED SALE DATE AND TIME: **2:00 p.m. (local time) on February 23, 2022.**

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:

Cedar Squares (41-007-21) / T43N, R16W, SEC. 4 , NWNW.

T43N, R16W, SEC. 5 , NE,N1/2SE.

T44N, R16W, SEC. 32, SESE.

Schoolcraft County, Advertised Price \$23,108.05, 67.9 Acres, N White Cedar, 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.

Within Payment Unit(s) 4-6, harvesting is limited to frozen conditions (generally from December 1 through March 31) because of soft soils.

## TIMBER SALE INFORMATION

### Cedar Squares (41-007-21)

T43N, R16W, SEC. 4; T43N, R16W, SEC. 5; T44N, R16W, SEC. 32.  
Schoolcraft County (Advertised Price \$23,108.05)

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

Within Payment Unit(s) 4-6, harvesting is limited to frozen conditions (generally from December 1 through March 31) because of soft soils.

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		
Paper Birch	6.2 MBF	\$ 45.00 / MBF
Red Oak	34.6 MBF	\$ 115.00 / MBF
Pulpwood		
B. T. Aspen	181 Cords	\$ 22.85 / Cord
Balsam Fir	53 Cords	\$ 9.25 / Cord
Black Spruce	132 Cords	\$ 13.55 / Cord
Jack Pine	86 Cords	\$ 16.25 / Cord
N. White Cedar	378 Cords	\$ 3.75 / Cord
Paper Birch	128 Cords	\$ 11.75 / Cord
Red Maple	45 Cords	\$ 13.45 / Cord
Red Oak	129 Cords	\$ 16.45 / Cord
Red Pine	107 Cords	\$ 42.45 / Cord
Tamarack	175 Cords	\$ 2.25 / Cord
White Pine	27 Cords	\$ 12.30 / Cord
Yellow Birch	9 Cords	\$ 13.45 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 11.35 percent. There are an estimated 1,565 cords on this timber sale, plus or minus 178 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 \$1,155.40 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	5.3%
02	29.4%
03	30.4%
04	10.8%
05	9.2%
06	14.9%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2025.

### **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
123,652	1,565	11.35%	1,387	1,743

## 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	2,277	29	14.29%	25	33
2	17,262	219	33.81%	145	292
3	24,864	315	21.92%	246	384
4	13,882	176	32.14%	119	232
5	20,231	256	25.05%	192	320
6	42,560	539	20.62%	428	650
<b>TOTAL:</b>	<b>121,075</b>	<b>1,533</b>		<b>1,154</b>	<b>1,911</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	2.9	1	2.9
2	16.3	2	16.3
3	8.3	3	8.3
4	11.0	4	11.0
5	13.6	5	13.6
6	15.8	6	15.8
<b>TOTAL:</b>	<b>67.9</b>		<b>67.9</b>

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Pine	Pulpwood	29	Cords	2.9	\$1,231.05
2	Red Oak	Sawtimber	34.6	MBF	16.3	\$6,799.30
	Red Oak	Pulpwood	129	Cords		
	Red Pine		15	Cords		
	White Pine		5	Cords		
3	B. T. Aspen	Pulpwood	181	Cords	8.3	\$7,024.65
	Balsam Fir		27	Cords		
	Paper Birch		38	Cords		
	Red Maple		15	Cords		
	Red Pine		44	Cords		
	White Pine		10	Cords		
4	Black Spruce	Pulpwood	47	Cords	11.0	\$2,490.65
	Jack Pine		86	Cords		
	Red Pine		9	Cords		
	Tamarack		33	Cords		
5	Black Spruce	Pulpwood	85	Cords	13.6	\$2,120.65
	Paper Birch		2	Cords		
	Red Maple		4	Cords		
	Red Pine		10	Cords		
	Tamarack		142	Cords		
	White Pine		12	Cords		
6	Paper Birch	Sawtimber	6.2	MBF	15.8	\$3,441.75
	Balsam Fir	Pulpwood	26	Cords		
	N. White Cedar		378	Cords		
	Paper Birch		88	Cords		
	Red Maple		26	Cords		
	Yellow Birch		9	Cords		
TOTAL:			40.8	MBF		
TOTAL:			1,450	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: Cedar Squares**

**Sale Number: 41-007-21 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 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) 3, cut all deciduous trees that are two (2) inches or more at DBH, except oak. In addition, cut all conifer trees which meet minimum piece specifications in 2.2 Utilization, except hemlock. Special protection trees identified in accordance with condition 3.4.2, within clearcutting unit boundaries, are not Included Timber and are to be protected.

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

Within Payment Unit(s) 4 and 5, cut all trees which meet minimum piece specifications in 2.2 Utilization, except cedar, hemlock, and oak. Special protection trees identified in accordance with condition 3.4.2, within clearcutting unit boundaries, are not Included Timber and are to be protected.

##### **2.1.4 - Designated timber unit(s) (6/17)**

Within Payment Unit(s) 2, all trees greater than two (2) inches at DBH, within the orange marked gap harvest areas, are designated for cutting. In addition, the orange painted boundary trees are designated for cutting.

Within Payment Unit 6, all trees which meet minimum piece specifications in 2.2 Utilization are designated for harvest.

Exception: Five (5) cedar trees must be left per acre. These trees should be dispersed throughout the stand evenly, healthy with full crowns, and dominant trees.

Within Payment Unit 1, all red pine and white pine are designated for harvest. No other species may be cut.

### **3 - Payments**

#### **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.

Within Payment Unit 1, if more than 25% 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.

##### **3.4.2 - Special Protection Trees (4/14)**

The Purchaser shall not cut live or dead special protection trees within cutting units or clearings. Special protection trees are hemlock. If the Purchaser's operations have cut or damaged special protection trees through carelessness, the Purchaser shall pay \$100 as fixed, agreed and liquidated damages for each special protection tree cut or damaged. Such payment does not constitute ownership of the undesignated 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.

#### 4.1.6 - 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.

### 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

#### 5.2.2 - 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

##### 5.2.3.1 - Operating restrictions (9/11)

Within Payment Unit(s) 4-6, unless changed by written agreement, cutting, skidding, and hauling are limited to frozen conditions this period is generally from December 1 thru March 31. This restriction is because of soft soils.

#### 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.

### 5.4 - 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.

#### 5.4.4 - 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

#### 5.8.3 - Red shoulder hawk or goshawk (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.



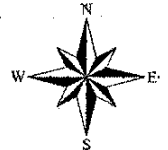
## TIMBER SALE MAP

This information provided by authority of Part 5, 1994 PA 451, as amended.

Forest Management Unit <b>SHINGLETON</b>	County <b>SCHOOLCRAFT</b>	Mapped By <b>PETRELIUS</b>	Date <b>6-7</b>	Page <b>1</b>	of <b>1</b>
Compartment Number <b>37</b>	Township <b>43N 44N</b>	Range <b>16W</b>	Section(s) and Subdivision(s) <b>4-NWW 5-NE, N1/2 SE 32-SESE</b>		

Cover Type				Density	
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest	1 = Seedling Sapling Poor	6 = Pole Timber Well
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh	2 = Seedling Sapling Medium	7 = Saw Timber Poor
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine	3 = Seedling Sapling Well	8 = Saw Timber Medium
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked	4 = Pole Timber Poor	9 = Saw Timber Well
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand		
G = Grass	MD = Mixed Deciduous		Z = Water		
H = Hemlock	N = Marsh				

CEDAR SQUARES  
67.9 ACRES



## LEGEND

- RED PAINT
- YELLOW PAINT
- ①, ② Unit #
- == Woods road
- Closed road
- ◆ Survey Corner
- GPS 46.156395  
-86.326117

## Unit Acres

1- 2.9 4- 11.0  
2- 16.3 5- 13.6  
3- 8.3 6- 15.8

