



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6947

SCHEDULED SALE DATE AND TIME: **2:00 p.m. (local time) on October 27, 2021.**

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:

Yellow Pine-marine (41-008-21) / T46N, R16W, SEC. 26, E1/2SW,SE.

Schoolcraft County, Advertised Price \$20,024.20, 74.8 Acres, Red Pine, 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.

It is the responsibility of the Purchaser to obtain permission from the utility company to utilize the power line R.O.W. for operations.

Within Payment Units 1-3, it is recommended that harvesting occur during dry summer or frozen winter conditions because of soft soils.

TIMBER SALE INFORMATION

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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 & SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Pulpwood		
Balsam Fir	193 Cords	\$ 11.85 / Cord
Jack Pine	22 Cords	\$ 15.55 / Cord
Mixed Hardwood	110 Cords	\$ 15.20 / Cord
Mixed Spruce	191 Cords	\$ 11.90 / Cord
Paper Birch	8 Cords	\$ 12.00 / Cord
Quaking Aspen	34 Cords	\$ 23.35 / Cord
Red Pine	265 Cords	\$ 38.05 / Cord
Tamarack	37 Cords	\$ 2.60 / Cord
White Pine	192 Cords	\$ 12.40 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 6.54 percent. There are an estimated 1,046 cords on this timber sale, plus or minus 68 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 \$1,001.21 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	14.6%
02	17.8%
03	4.6%
04	28.8%
05	34.2%

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
82,654	1,046	6.54%	978	1,115

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	17,408	220	14.51%	188	252
2	23,140	293	11.82%	258	328
3	5,475	69	18.10%	57	82
4	19,154	242	14.78%	207	278
5	18,119	229	14.44%	196	262
TOTAL:	83,297	1,054		906	1,202

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	12.1	1	12.1
2	19.8	2	19.8
3	10.7	3	10.7
4	16.8	4	16.8
5	15.4	5	15.4
TOTAL:	74.8		74.8

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Balsam Fir	Pulpwood	90	Cords	12.1	\$2,919.95
	Jack Pine		2	Cords		
	Mixed Hardwood		55	Cords		
	Black Ash		1	Cords		
	Black Cherry		7	Cords		
	Red Maple		47	Cords		
	Mixed Spruce		48	Cords		
	White Spruce		48	Cords		
	Quaking Aspen		17	Cords		
	Tamarack		7	Cords		
2	Balsam Fir	Pulpwood	103	Cords	19.8	\$3,560.75
	Jack Pine		20	Cords		
	Mixed Hardwood		25	Cords		
	Black Cherry		3	Cords		
	Green Ash		2	Cords		
	Red Maple		20	Cords		
	Mixed Spruce		108	Cords		
	White Spruce		108	Cords		
	Paper Birch		2	Cords		
	Quaking Aspen		12	Cords		
Tamarack	23	Cords				
3	Mixed Hardwood	Pulpwood	30	Cords	10.7	\$912.85
	Red Maple		30	Cords		
	Mixed Spruce		21	Cords		
	White Spruce		21	Cords		
	Paper Birch		6	Cords		
	Quaking Aspen		5	Cords		
	Tamarack		7	Cords		
4	Red Pine	Pulpwood	108	Cords	16.8	\$5,771.00
	White Pine		134	Cords		
5	Mixed Spruce	Pulpwood	14	Cords	15.4	\$6,859.65
	Black Spruce		14	Cords		
	Red Pine		157	Cords		
	White Pine		58	Cords		
TOTAL:			1,052	Cords		

Sale Specific Conditions & Requirements

Sale Name: Yellow Pine-marine

Sale Number: 41-008-21 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. 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) 4 and 5, cut all trees that are alive or dead that are two (2) inches or more at DBH. In addition, cut all trees that are greater than 15' tall.

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

Within Payment Unit(s) 1-3, cut all trees which meet minimum piece specifications in 2.2 Utilization.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within Payment Unit(s) 4 and 5 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 to facilitate planting operations.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) that are \$15,000 or greater in value 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.

4.1.4 - Timber removed for construction (12/09)

Trees cut or damaged in the process of pre-approved road, landing or skid trail construction will be decked in an area separate from other Designated Timber and not removed until measured by the sale administrator. Payment will be made at the specified Purchase Unit Price.

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.

4.2 - Maintenance

4.2.2 - Fill material (4/07)

To maintain roads, fill material may be needed in areas where "holes" exist or may be expected to develop. This fill material should be placed before trucking begins.

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

5.1 - 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.

5.1.6 - Utility R.O.W. (4/19)

It is the responsibility of the Purchaser to obtain permission from the utility company to utilize the power line R.O.W. for operations.

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.11 - Slash for reforestation (3/21)

To facilitate reforestation, Payment Unit(s) 4 and 5 shall be left with slash evenly distributed. Bunched tops within the cutting area shall be broken up and scattered. Stumps shall be cut low to the ground. Processing sites shall not be left with a compacted layer of slash; tops from these sites shall be hauled back into the cut area and scattered.

5.2.1.13 - Dispose of slash as directed (12/05)

Slash is to be disposed of as directed by placing all slash, within Payment Units 1-3, into windrows. Contact sale administrator for more detailed information.

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. This spec does not apply to Payment Units 4 and 5.

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.

5.2.22 - Operating Caution

5.2.22.1 - Operating caution (6/11)

It is recommended, but not required, that within Payment Unit(s) 1-3, cutting, skidding, and hauling occur during dry summer or frozen winter conditions. The reason for the recommendation 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.

5.2.38 - 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

5.8.3 - 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.



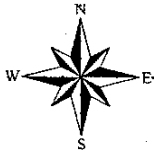
TIMBER SALE MAP

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

Sale Number
41-008Year
21

Forest Management Unit Shingleton	County Schoolcraft	Mapped By DNR Staff	Date 6/21/21	Page 1	of 1
Compartment Number 155	Township 46N	Cruised By DNR Staff	Range 16W		
			Section(s) and Subdivision(s) Sec. 26: S 1/2		

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				

Yellow
Pinemarine
74.8

Legend

- S = Timber Sale Bounding (Red)
- P = Payment Unit line (Yellow)
- = Gravel/Dirt Road
- R = River
- H = Paved Highway
- X = Powerline
- W = water

