



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #6981**

SCHEDULED SALE DATE AND TIME: **3:00 p.m. (local time) on July 27, 2022.**

LOCATION: **BALDWIN OFFICE, 2468 W 24TH STREET, BALDWIN, MI 49304.**

CONTACT NAME: David Fisher

PHONE NUMBER: (231) 745-4651

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

Jeffs Far Reach Mix (63-012-21) / T22N, R05W, SEC. 11, S1/2SE.

T22N, R05W, SEC. 12, NW,NE,N1/2SW,SWSW,NWSE.

T22N, R05W, SEC. 13, N1/2SE.

T22N, R05W, SEC. 13, NWNW,S1/2NW,S1/2NE,N1/2SW.

T22N, R05W, SEC. 14, N1/2NE,SENE,W1/2SE.

Missaukee County, Advertised Price \$34,809.00, 218.0 Acres, Jack Pine, Red Pine.

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

Jeffs Far Reach Mix (63-012-21)

T22N, R05W, SEC. 11; T22N, R05W, SEC. 12; T22N, R05W, SEC. 13; T22N, R05W, SEC. 14.

Missaukee County (Advertised Price \$34,809.00)

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 & SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Jack Pine	253.4 MBF	\$ 11.00 / MBF
Quaking Aspen	51.4 MBF	\$ 44.00 / MBF
Red Pine	193.9 MBF	\$ 45.00 / MBF
White Pine	84.2 MBF	\$ 31.00 / MBF
Pulpwood		
Black Cherry	19 Cords	\$ 8.25 / Cord
Jack Pine	1,931 Cords	\$ 5.25 / Cord
Mixed Aspen	205 Cords	\$ 10.30 / Cord
Red Maple	105 Cords	\$ 8.25 / Cord
Red Pine	191 Cords	\$ 19.80 / Cord
White Pine	203 Cords	\$ 6.75 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 4.04 percent. There are an estimated 4,000 cords on this timber sale, plus or minus 162 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 \$3,480.90 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	46.1%
02	20.8%
03	11.3%
04	1.5%
05	9.5%
06	10.8%

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.

<u>VOLUME</u>		<u>STATISTICAL RANGE IN CORDS</u>		
<u>TOTAL CUBIC FEET</u>	<u>TOTAL CORDS</u>	<u>PERCENT ERROR</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>
315,983	4,000	4.04%	3,838	4,162

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	169,851	2,150	5.53%	2,031	2,269
2	106,591	1,349	7.36%	1,250	1,449
3	39,541	501	9.44%	453	548
TOTAL:	315,983	4,000		3,734	4,265

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	104.1	1	104.1
2	87.0	2	54.0
		3	29.2
		4	3.8
3	26.9	5	12.6
		6	14.3
TOTAL:	218.0		218.0

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Jack Pine	Sawtimber	141.4	MBF	104.1	\$16,056.60
	Quaking Aspen		51.4	MBF		
	Red Pine		35.2	MBF		
	White Pine		32.9	MBF		
	Black Cherry	Pulpwood	19	Cords		
	Jack Pine		1,170	Cords		
	Mixed Aspen		192	Cords		
	<i>Quaking Aspen</i>		192	<i>Cords</i>		
	Red Maple		68	Cords		
	<i>Red Maple</i>		68	<i>Cords</i>		
	Red Pine		12	Cords		
	White Pine		83	Cords		
2	Jack Pine	Sawtimber	69.2	MBF	54.0	\$7,251.20
	Red Pine		56.9	MBF		
	Jack Pine	Pulpwood	450	Cords		
	Mixed Aspen		7	Cords		
	<i>Quaking Aspen</i>		7	<i>Cords</i>		
	Red Maple		18	Cords		
	<i>Red Maple</i>		18	<i>Cords</i>		
	Red Pine		68	Cords		
3	Jack Pine	Sawtimber	37.4	MBF	29.2	\$3,924.95
	Red Pine		30.7	MBF		
	Jack Pine	Pulpwood	243	Cords		
	Mixed Aspen		4	Cords		
	<i>Quaking Aspen</i>		4	<i>Cords</i>		
	Red Maple		10	Cords		
	<i>Red Maple</i>		10	<i>Cords</i>		
	Red Pine		37	Cords		
4	Jack Pine	Sawtimber	4.9	MBF	3.8	\$509.15
	Red Pine		4.0	MBF		
	Jack Pine	Pulpwood	32	Cords		
	Red Maple		1	Cords		
	<i>Red Maple</i>		1	<i>Cords</i>		
	Red Pine		5	Cords		
5	Jack Pine	Sawtimber	0.2	MBF	12.6	\$3,295.10
	Red Pine		31.4	MBF		
	White Pine		24.0	MBF		
	Jack Pine	Pulpwood	17	Cords		
	Mixed Aspen		1	Cords		
	<i>B. T. Aspen</i>		1	<i>Cords</i>		
	Red Maple		3	Cords		
	<i>Red Maple</i>	<i>Sawtimber</i>	0.7	<i>MBF</i>		
	<i>Red Maple</i>	<i>Pulpwood</i>	2	<i>Cords</i>		
	Red Pine		32	Cords		
	White Pine		56	Cords		
6	Jack Pine	Sawtimber	0.3	MBF	14.3	\$3,772.00
	Red Pine		35.7	MBF		
	White Pine		27.3	MBF		
	Jack Pine	Pulpwood	19	Cords		
	Mixed Aspen		1	Cords		
	<i>B. T. Aspen</i>		1	<i>Cords</i>		
	Red Maple		5	Cords		
	<i>Red Maple</i>	<i>Sawtimber</i>	0.9	<i>MBF</i>		
	<i>Red Maple</i>	<i>Pulpwood</i>	3	<i>Cords</i>		
	Red Pine		37	Cords		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
6 con't	White Pine	Pulpwood	64	Cords		
TOTAL:			582.9	MBF		
TOTAL:			2,654	Cords		

Sale Specific Conditions & Requirements

Sale Name: Jeffs Far Reach Mix

Sale Number: 63-012-21 Seq#: 2

1 - Sale Area

1.2 - Boundaries

1.2.1 - Painted boundaries (9/19)

The sale boundaries are marked and identified by red paint. Exterior sale boundary lines against state are marked with red 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

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

Within Payment Unit(s) 1-4, 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) 5, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability. In addition, cut all white pine trees that are ten (10) inches or more at DBH.

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

Within Payment Unit(s) 6, all red pine trees that are ten (10) inches or more at DBH designated for cutting. In addition, all jack pine trees are designated for cutting, which meet minimum piece specifications in 2.2 - Utilization.

2.2 - Utilization

2.2.4 - Skidding length (2/14)

Within Payment Units 5 and 6, skidding of lengths over 17 feet is permissible if the timber sale administrator approves the method and machinery used. If at any point damage exceeds specification 3.4.1, all the remaining wood must be skid in lengths less than 17 feet.

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

4.1.5 - Culverts (5/14)

Roads may require the installation of culverts for cross drainage or at natural drainage-ways. If culverts are determined to be needed by Purchaser or sale administrator, their size and placement must be approved by the sale administrator, and they shall be installed prior to hauling. The culverts shall be new, corrugated metal or plastic gauge. If culverts are removed, fill shall be removed from wetland soils as specified. Soils shall be maintained and left in a non-erodible condition, with water bars, seed, fertilizer, mulch, and slash installed as directed by the sale administrator and as specified in the BMP manual. Stream crossing permits, if needed, will be obtained by the Purchaser.

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. These roads must be rendered impassable to cars and trucks. Contact the sale administrator for specific details of design and placement.

4.1.11 - Permits (2/12)

The Purchaser will secure any necessary stream crossing permits that may be required.

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. Contact the sale administrator regarding the availability of onsite sand or gravel from adjacent State-owned lands.

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) 1-6, unless changed by written agreement, cutting, skidding, and hauling are limited to the period of the year during which frozen ground conditions persist and as approved by the sale administrator. This restriction is because of extensive areas of sensitive soils and high-water table.

5.2.17 - Timber Mats and Interlocking Composite Mats (10/20)

Some roads or skid trails may require extra protection such as that afforded by timber mats, interlocking composite mats, or another approved system. If available, mats may be borrowed from the DNR. A Timber Sale Contract Supplement will be used to document the Purchaser's use of the DNR's mats. Contact the sale administrator regarding availability and pick-up. The Purchaser is responsible for picking up and hauling the mats to and from the site. The composite mats will require DNR staff onsite for installation and removal. Contact the sale administrator to schedule at least 30 days before desired install/removal date. All mats must be cleaned prior to drop off. This may include, but is not limited to, power washing and brushing to remove mud and debris. A charge of \$700.00 per timber mat and \$2,000.00 per composite mat will be assessed for all damaged or non-returned mats. Damage for the crane/timber mats is defined as three or more broken cants. Damage for the composite mats is defined as cracked or broken mats.

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.

5.4.6 - Wet area protection (5/10)

No harvesting operations, including skidding and felling, are to take place within any vernal pond areas or drainages. Care must be taken by the Purchaser to identify and avoid operating in these areas of the timber sale.

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.

TIMBER SALE MAP

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

Forest Management Unit Cadillac / Manton		County Missaukee	Mapped By M. Edison		Date 9/24/2021	Page 1	of 1
Township 22N	Range 5W	Section(s) and Subdivision(s) 11 12 13 14	S1/2SE NW1/4, N1/2SW, SWSW, NWSE N1/2SE, NW1/4, NW1/2NW, S1/2NE, N1/2SW N1/2NE, SENE, W1/2SE		Scale 1:31,680		
Cover Type					Density		
A = Aspen B = Paper Birch C = Cedar D = Treed Bog E = Swamp Hardwoods F = Spruce Fir G = Cress H = Hemlock J = Jack Pine L = Lowland Brush LM = Lowland Mixed M = Mpl. Ech. Birch 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					0 = Non Stocked 1 = Seeding Sapling Poor 2 = Seeding Sapling Medium 3 = Seeding 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	104.1	4	3.8
2	54.0	5	12.6
3	29.2	6	14.3

Jefferies Far Reach Mix

Compartment 95

218 Acres

