



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7391**

SCHEDULED SALE DATE AND TIME: 10:00 a.m. (local time) on April 4, 2024.

LOCATION: GLADWIN MGMT UNIT, 801 NORTH SILVERLEAF, GLADWIN, MI 48624.

CONTACT NAME: Blair Tweedale

PHONE NUMBER: (989) 426-9205

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

Cedar Lake 30 (73-004-23) / T20N, R01E, SEC. 28, S1/2SE.

T20N, R01E, SEC. 33, NW,NE,E1/2SW,W1/2SE.

Gladwin County, Advertised Price \$150,500.15, 157.4 Acres, Aspen, White Pine.

SALE NOTE: The sale has significant areas of seasonally wet ground, so rutting is a concern.

Harvest is best done during dry or frozen conditions. The area between the yellow line and Finkbeiner Road/M-30 is a clearcut that needs to be cut clean. In addition, along M-30 there are ROW markers that need to be protected. The trees near the markers have been marked with orange to help identify their locations. The access trail into Payment Units 2, 4, 5, & 6 will need a culvert to cross drainage ditch. The trail into Payment Unit 3 has old ditch bank spoils that were used to close the trail.

TIMBER SALE INFORMATION

Cedar Lake 30 (73-004-23)

T20N, R01E, SEC. 28; T20N, R01E, SEC. 33.

Gladwin County (Advertised Price \$150,500.15)

SALE NOTE: The sale has significant areas of seasonally wet ground, so rutting is a concern. Harvest is best done during dry or frozen conditions. The area between the yellow line and Finkbeiner Road/M-30 is a clearcut that needs to be cut clean. In addition, along M-30 there are ROW markers that need to be protected. The trees near the markers have been marked with orange to help identify their locations. The access trail into Payment Units 2, 4, 5, & 6 will need a culvert to cross drainage ditch. The trail into Payment Unit 3 has old ditch bank spoils that were used to close the trail.

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		
Black/Red (Hybrid) Oak	7.2 MBF	\$ 122.00 / MBF
Mixed Aspen	395.6 MBF	\$ 68.00 / MBF
Paper Birch	8.1 MBF	\$ 66.00 / MBF
Red Maple	78.6 MBF	\$ 66.00 / MBF
Red Oak	8.1 MBF	\$ 148.00 / MBF
Red Pine	65.1 MBF	\$ 136.00 / MBF
White Pine	458.2 MBF	\$ 68.00 / MBF
Pulpwood		
Balsam Fir	33 Cords	\$ 30.85 / Cord
Black/Red (Hybrid) Oak	27 Cords	\$ 16.50 / Cord
Mixed Aspen	1,368 Cords	\$ 28.95 / Cord
Mixed Hardwood	413 Cords	\$ 20.35 / Cord
Paper Birch	70 Cords	\$ 21.75 / Cord
Red Oak	11 Cords	\$ 16.50 / Cord
Red Pine	63 Cords	\$ 56.60 / Cord
White Pine	633 Cords	\$ 33.25 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 10.03 percent. There are an estimated 4,791 cords on this timber sale, plus or minus 481 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 \$7,525.01 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	3.4%
02	20.8%
03	25.2%
04	14.1%
05	13.8%
06	10.2%
07	12.5%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 03/31/2027.

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
378,474	4,791	10.03%	4,310	5,271

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
93	108,248	1,370	21.38%	1,077	1,663
100	35,811	453	55.67%	201	706
104	101,033	1,279	19.86%	1,025	1,533
110	77,582	982	11.35%	871	1,094
117	4,090	52	0.00%	52	52
118	8,916	113	105.39%	0	232
121	16,161	205	138.15%	0	487
126	26,632	337	36.46%	214	460
TOTAL:	378,474	4,791		3,440	6,226

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
93	55.6	4	28.1
		5	27.5
100	14.1	6	14.1
104	33.2	3	33.2
110	35.4	2	35.4
117	1.9	1	1.9
118	3.4	1	3.4
121	4.8	7	4.8
126	9.0	7	9.0
TOTAL:	157.4		157.4

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Black/Red (Hybrid	Sawtimber	6.7	MBF	5.3	\$5,054.65
	Mixed Aspen		11.6	MBF		
	<i>B. T. Aspen</i>		7.8	<i>MBF</i>		
	<i>Quaking Aspen</i>		3.8	<i>MBF</i>		
	Red Maple		12.3	MBF		
	Red Pine		5.8	MBF		
	Black/Red (Hybrid	Pulpwood	17	Cords		
	Mixed Aspen		13	Cords		
	<i>B. T. Aspen</i>		4	<i>Cords</i>		
	<i>Quaking Aspen</i>		9	<i>Cords</i>		
	Mixed Hardwood		35	Cords		
	<i>Red Maple</i>		35	<i>Cords</i>		
	Paper Birch		9	Cords		
	Red Pine		5	Cords		
2	Black/Red (Hybrid	Sawtimber	0.5	MBF	35.4	\$31,290.10
	Mixed Aspen		118.6	MBF		
	<i>B. T. Aspen</i>		53.8	<i>MBF</i>		
	<i>Quaking Aspen</i>		64.8	<i>MBF</i>		
	Red Maple		3.4	MBF		
	Red Pine		9.2	MBF		
	White Pine		1.7	MBF		
	Balsam Fir	Pulpwood	6	Cords		
	<i>Balsam Fir</i>		6	<i>Cords</i>		
	Black/Red (Hybrid		3	Cords		
	Mixed Aspen		674	Cords		
	<i>B. T. Aspen</i>		172	<i>Cords</i>		
	<i>Quaking Aspen</i>		502	<i>Cords</i>		
	Mixed Hardwood		58	Cords		
	<i>Rock Elm</i>	Sawtimber	0.9	<i>MBF</i>		
	<i>Black Cherry</i>		3	<i>Cords</i>		
	<i>Red Maple</i>		49	<i>Cords</i>		
	<i>Rock Elm</i>		4	<i>Cords</i>		
	Paper Birch	Pulpwood	4	Cords		
	Red Pine		4	Cords		
	White Pine		10	Cords		
3	Mixed Aspen	Sawtimber	110.7	MBF	33.2	\$37,910.40
	<i>B. T. Aspen</i>		88.9	<i>MBF</i>		
	<i>Quaking Aspen</i>		21.8	<i>MBF</i>		
	Red Maple	Pulpwood	4.9	MBF		
	Red Pine		3.2	MBF		
	White Pine		156.6	MBF		
	Balsam Fir		15	Cords		
	<i>Balsam Fir</i>		2.3	<i>MBF</i>		
	<i>Balsam Fir</i>		10	<i>Cords</i>		
	Black/Red (Hybrid		3	Cords		
	Mixed Aspen		411	Cords		
	<i>B. T. Aspen</i>		222	<i>Cords</i>		
	<i>Quaking Aspen</i>		189	<i>Cords</i>		
	Mixed Hardwood		81	Cords		
	<i>Red Maple</i>		81	<i>Cords</i>		
	Paper Birch		14	Cords		
	Red Pine		1	Cords		
	White Pine		137	Cords		
4	Mixed Aspen	Sawtimber	59.2	MBF	28.1	\$21,287.25
	<i>B. T. Aspen</i>		55.3	<i>MBF</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
4 con't	<i>Quaking Aspen</i>	<i>Sawtimber</i>	3.9	<i>MBF</i>		
	Paper Birch	Pulpwood	4.1	MBF		
	Red Maple		11.3	MBF		
	Red Pine		8.7	MBF		
	White Pine		80.3	MBF		
	Balsam Fir		6	Cords		
	<i>Balsam Fir</i>		6	<i>Cords</i>		
	Black/Red (Hybrid		2	Cords		
	Mixed Aspen		93	Cords		
	<i>B. T. Aspen</i>		53	<i>Cords</i>		
	<i>Quaking Aspen</i>		40	<i>Cords</i>		
	Mixed Hardwood		69	Cords		
	<i>Red Maple</i>		69	<i>Cords</i>		
	Paper Birch		22	Cords		
	Red Oak		3	Cords		
	Red Pine		13	Cords		
	White Pine		121	Cords		
5	Mixed Aspen	Sawtimber	58.0	MBF	27.5	\$20,842.30
	<i>B. T. Aspen</i>	Pulpwood	54.2	<i>MBF</i>		
	<i>Quaking Aspen</i>		3.8	<i>MBF</i>		
	Paper Birch		4.0	MBF		
	Red Maple		11.0	MBF		
	Red Pine		8.5	MBF		
	White Pine		78.6	MBF		
	Balsam Fir		6	Cords		
	<i>Balsam Fir</i>		6	<i>Cords</i>		
	Black/Red (Hybrid		2	Cords		
	Mixed Aspen		92	Cords		
	<i>B. T. Aspen</i>		52	<i>Cords</i>		
	<i>Quaking Aspen</i>		40	<i>Cords</i>		
	Mixed Hardwood		68	Cords		
	<i>Red Maple</i>		68	<i>Cords</i>		
	Paper Birch		21	Cords		
	Red Oak		3	Cords		
	Red Pine		12	Cords		
	White Pine		119	Cords		
6	Mixed Aspen	Sawtimber	33.9	MBF	14.1	\$15,307.00
	<i>B. T. Aspen</i>	Pulpwood	33.9	<i>MBF</i>		
	Red Maple		11.5	MBF		
	Red Oak		8.1	MBF		
	Red Pine		2.3	MBF		
	White Pine		50.3	MBF		
	Mixed Aspen		81	Cords		
	<i>B. T. Aspen</i>		81	<i>Cords</i>		
	Mixed Hardwood		27	Cords		
	<i>Red Maple</i>		27	<i>Cords</i>		
	Red Oak		5	Cords		
	Red Pine		19	Cords		
	White Pine		98	Cords		
7	Mixed Aspen	Sawtimber	3.6	MBF	13.8	\$18,808.45
	<i>B. T. Aspen</i>	Pulpwood	3.6	<i>MBF</i>		
	Red Maple		24.2	MBF		
	Red Pine		27.4	MBF		
	White Pine		90.7	MBF		
	Mixed Aspen		4	Cords		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
7 con't	<i>B. T. Aspen</i>	<i>Pulpwood</i>	4	<i>Cords</i>		
	Mixed Hardwood		75	Cords		
	<i>Red Maple</i>		75	<i>Cords</i>		
	Red Pine		9	Cords		
	White Pine		148	Cords		
TOTAL:			1,020.9	MBF		
TOTAL:			2,618	Cords		

Sale Specific Conditions & Requirements

Sale Name: Cedar Lake 30

Sale Number: 73-004-23 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, red and yellow paint, along with a gravel road. Exterior sale boundary lines against private property are marked with blue paint, with the exception of the eastern boundary of Payment Unit 1, which is unpainted and represented by the gravel road. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. In addition, the yellow paint that parallels M-30 and Finkbeiner Road designates the clearcut portion of Payment Units 4-6. 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) 1-3, cut all trees that are two (2) inches or more at DBH, except do not cut trees marked with green paint above and below stump height.

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

Within Payment Unit(s) 4-6, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability. In addition, cut all aspen and paper birch that are two (2) inches or more at DBH.

2.1.7 - Leave tree marked unit(s) (6/14)

Within Payment Unit(s) 7, all trees, which meet minimum piece specifications in 2.2 Utilization, are designated for cutting, except do not cut trees marked with green paint above and below stump height.

2.1.11 - Description of timber note (2/04)

Note that in the clearcut portions of Payment Units 5 & 6 along M-30, there are trees marked with orange paint. These trees indicate the locations of ROW markers. The ROW markers need to be protected. The marked trees are to be harvested. They were marked to alert the logger to the locations of the markers.

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 Units 4-7, 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.

No damage is acceptable to undesignated live merchantable trees. Within the Sale Area, if more than 5% of trees (> 4.5" DBH) within a specified area of the sale are damaged, liquidated damages will be assessed for all trees damaged. Rates will be in accordance with General Condition and Requirement 3.4 Damaged Timber.

4 - Transportation

4.1 - Construction

4.1.5 - Culverts (5/14)

Roads may require the installation of culverts to cross the drainage ditches along M-30 and Finkbeiner Road. If culverts are

needed in these locations, their placement will be specified by the Sale Administrator and they shall be installed prior to hauling. Culverts will be a minimum of 12 inches in diameter and 24 feet in length. All new culverts will need to be pulled and the ditches restored after harvesting is completed. The ditch banks will need to be restored to the previous grade that existed before the harvesting activity started.

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.

4.2 - Maintenance

4.2.5 - Two wheel drive condition (2/04)

All existing trail roads on and adjacent to the sale area must be passable by two-wheel drive traffic for the duration of the sale.

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

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 4-7, unless changed by written agreement, cutting and skidding are not permitted during the period of April 15 to July 15. This restriction is because of bark slippage.

5.2.3.4 - Oak wilt restriction, no exceptions (1/18)

Within Payment Units 4-6, 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. No exceptions will be granted. This is necessary to reduce the spread of oak wilt.

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.

5.2.4 - Dead and Down Creation

5.2.4.4 - Dead and down creation, grouse (6/18)

To encourage grouse and other wildlife, in Payment Unit(s) 2 & 3 leave one 12" or larger diameter whole tree on the ground for every 3 acres. Trees should be scattered throughout the sale. Stumps must be at least 3 feet tall.

5.2.22 - Operating Caution

5.2.22.1 - Operating caution (6/11)

It is recommended, but not required, that within Payment Unit(s) 1-7, cutting, skidding, and hauling occur during dry summer or frozen winter conditions. The reason for the recommendation is because soils are seasonably wet and prone to rutting.

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.



TIMBER SALE MAP

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

Sale Number

73 - 004

Year

23

Forest Management Unit		County	Mapped By	Steven Nyhoff	Date	Page	of
Gladwin Management Unit		Gladwin	Cruised By	Steven Nyhoff			
Township	Range	Section(s) and Subdivision(s)			Scale		
20N	01E	Sac 28, S1/2SE; Sec 33 N1/2, SESW, SWSE			1:15,840		

Cover Type

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

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

PU	Acres	PU	Acres
1	5.3	5	27.5
2	35.4	6	14.1
3	33.2	7	13.8
4	28.1		

Cedar Lake 30

Compartment 27

157.4 Acres

