



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7393**

SCHEDULED SALE DATE AND TIME: **10:00 a.m. (local time) on July 18, 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:

Castor Wilds (73-011-23) / T15N, R01W, SEC. 19, S1/2SE.

T15N, R01W, SEC. 29, W1/2SW.

T15N, R01W, SEC. 30, N1/2SW, SESW, SE.

T15N, R02W, SEC. 24, NESE, S1/2SE.

Midland County, Advertised Price \$78,028.40, 148.0 Acres, Aspen, Hardwood.

SALE NOTE: Difficult access for Payment Units 4-6. New temporary road constructions required across wet ground, intermittent drainages, and narrow ridges. Approximately 5-10 culvert installs will be required. Culverts will be removed upon sale completion. Dead oak throughout the Sale Area may be cut and decked separately to be scaled by the Sale Administrator.

TIMBER SALE INFORMATION

Castor Wilds (73-011-23)

T15N, R01W, SEC. 19; T15N, R01W, SEC. 29; T15N, R01W, SEC. 30; T15N, R02W, SEC. 24.

Midland County (Advertised Price \$78,028.40)

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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>
Sawtimber		
Black Cherry	0.9 MBF	\$ 137.00 / MBF
Mixed Aspen	90.1 MBF	\$ 53.00 / MBF
Mixed Oak	337.0 MBF	\$ 103.00 / MBF
Paper Birch	2.4 MBF	\$ 49.00 / MBF
Red Maple	84.0 MBF	\$ 52.00 / MBF
White Oak	23.4 MBF	\$ 60.00 / MBF
Pulpwood		
Mixed Aspen	642 Cords	\$ 23.90 / Cord
Mixed Hardwood	495 Cords	\$ 17.40 / Cord
Mixed Oak	451 Cords	\$ 16.60 / Cord
Paper Birch	61 Cords	\$ 17.80 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 12.99 percent. There are an estimated 2,836 cords on this timber sale, plus or minus 369 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 \$3,901.42 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	28.3%
02	11.0%
03	3.4%
04	10.5%
05	17.7%
06	29.1%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 09/30/2027.

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
224,009	2,836	12.99%	2,467	3,204

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	78,067	988	18.22%	808	1,168
2	6,710	85	67.32%	28	142
99	73,480	930	23.82%	709	1,152
114	23,085	292	33.53%	194	390
218	42,666	540	29.66%	380	700
TOTAL:	224,009	2,836		2,119	3,552

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	33.1	1	33.1
2	8.8	3	8.8
99	50.1	4	15.0
		5	25.3
		6	9.8
114	26.0	2	26.0
218	30.0	6	30.0
TOTAL:	148.0		148.0

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Mixed Aspen	Sawtimber	33.1	MBF	33.1	\$22,084.20
	<i>B. T. Aspen</i>		33.1	<i>MBF</i>		
	Mixed Oak		23.8	MBF		
	<i>Northern Pin Oak</i>		23.8	<i>MBF</i>		
	Paper Birch		1.0	MBF		
	Red Maple		18.8	MBF		
	White Oak	Pulpwood	2.1	MBF		
	Mixed Aspen		427	Cords		
	<i>B. T. Aspen</i>		427	<i>Cords</i>		
	Mixed Hardwood		240	Cords		
	<i>Black Cherry</i>		8	<i>Cords</i>		
	<i>Red Maple</i>		232	<i>Cords</i>		
	Mixed Oak		108	Cords		
	<i>Northern Pin Oak</i>		88	<i>Cords</i>		
	<i>White Oak</i>		20	<i>Cords</i>		
	Paper Birch		31	Cords		
2	Black Cherry	Sawtimber	0.9	MBF	26.0	\$8,552.60
	Mixed Aspen		2.8	MBF		
	<i>B. T. Aspen</i>		2.3	<i>MBF</i>		
	<i>Quaking Aspen</i>		0.5	<i>MBF</i>		
	Mixed Oak		37.2	MBF		
	<i>/Red (Hybrid) Oak</i>		37.2	<i>MBF</i>		
	Red Maple	Pulpwood	25.9	MBF		
	White Oak		7.3	MBF		
	Mixed Aspen		7	Cords		
	<i>B. T. Aspen</i>		5	<i>Cords</i>		
	<i>Quaking Aspen</i>		2	<i>Cords</i>		
	Mixed Hardwood		92	Cords		
	<i>Black Cherry</i>		2	<i>Cords</i>		
	<i>Red Maple</i>		90	<i>Cords</i>		
	Mixed Oak		54	Cords		
	<i>/Red (Hybrid) Oak</i>		28	<i>Cords</i>		
	<i>White Oak</i>		26	<i>Cords</i>		
3	Mixed Aspen	Sawtimber	1.4	MBF	8.8	\$2,638.00
	<i>B. T. Aspen</i>		1.4	<i>MBF</i>		
	Mixed Oak		16.5	MBF		
	<i>Northern Pin Oak</i>		16.5	<i>MBF</i>		
	Red Maple	Pulpwood	1.9	MBF		
	White Oak		3.5	MBF		
	Mixed Aspen		7	Cords		
	<i>B. T. Aspen</i>		7	<i>Cords</i>		
	Mixed Hardwood		8	Cords		
	<i>Red Maple</i>		8	<i>Cords</i>		
	Mixed Oak		15	Cords		
	<i>Northern Pin Oak</i>		11	<i>Cords</i>		
	<i>White Oak</i>		4	<i>Cords</i>		
4	Mixed Aspen	Sawtimber	11.0	MBF	15.0	\$8,185.20
	<i>B. T. Aspen</i>		11.0	<i>MBF</i>		
	Mixed Oak		43.7	MBF		
	<i>/Red (Hybrid) Oak</i>		43.7	<i>MBF</i>		
	Paper Birch	Pulpwood	0.4	MBF		
	Red Maple		7.6	MBF		
	White Oak		3.1	MBF		
	Mixed Aspen		45	Cords		
	<i>B. T. Aspen</i>		45	<i>Cords</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
4 con't	Mixed Hardwood	Pulpwood	32	Cords		
	Red Maple		32	Cords		
	Mixed Oak		48	Cords		
	/Red (Hybrid) Oak		45	Cords		
	White Oak		3	Cords		
	Paper Birch		4	Cords		
5	Mixed Aspen	Sawtimber	18.5	MBF	25.3	\$13,825.00
	B. T. Aspen		18.5	MBF		
	Mixed Oak		73.8	MBF		
	/Red (Hybrid) Oak		73.8	MBF		
	Paper Birch		0.7	MBF		
	Red Maple	Pulpwood	12.8	MBF		
	White Oak		5.3	MBF		
	Mixed Aspen		76	Cords		
	B. T. Aspen		76	Cords		
	Mixed Hardwood		54	Cords		
	Red Maple		54	Cords		
	Mixed Oak		81	Cords		
	/Red (Hybrid) Oak		76	Cords		
	White Oak		5	Cords		
	Paper Birch		7	Cords		
6	Mixed Aspen	Sawtimber	23.3	MBF	39.8	\$22,743.40
	B. T. Aspen		23.3	MBF		
	Mixed Oak		142.0	MBF		
	/Red (Hybrid) Oak		142.0	MBF		
	Paper Birch		0.3	MBF		
	Red Maple	Pulpwood	17.0	MBF		
	White Oak		2.1	MBF		
	Mixed Aspen		80	Cords		
	B. T. Aspen		80	Cords		
	Mixed Hardwood		69	Cords		
	Red Maple		69	Cords		
	Mixed Oak		145	Cords		
	/Red (Hybrid) Oak		143	Cords		
	White Oak		2	Cords		
	Paper Birch		19	Cords		
TOTAL:			537.8	MBF		
TOTAL:			1,649	Cords		

Sale Specific Conditions & Requirements

Sale Name: Castor Wilds

Sale Number: 73-011-23 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 red and yellow paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. Red painted boundary trees shall not be cut unless marked with orange paint above and below stump height. 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) 1, cut all trees that are two (2) inches or more at DBH, except do not cut any oak that are two (2) to four (4) inches at DBH.

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

Within Payment Unit(s) 2, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability.

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

Within Payment Unit(s) 3-6, cut all oak & maple trees that are ten (10) inches or more at DBH. In addition, cut all aspen & paper birch trees that are two (2) inches or more at DBH. Furthermore, do not cut trees marked with green paint above and below stump height.

2.1.14 - Dead oak (1/15)

Dead oak (defined as loose bark and no live branches) may be cut throughout the sale area. If cut, it must be skidded and piled separately on the landing. The sale administrator will measure the dead oak and the wood cannot be hauled prior to scaling. The Purchaser will be invoiced at \$10.00 per cord. The contractor has 30 days to pay from the date of the invoice.

2.2 - Utilization

2.2.10 - No chipping tops and limbs (8/16)

Within Payment Unit(s) 1-6, chipping of limbs or tops is not permitted. Limbs and the remaining top must be left on site and scattered.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) 4-6, 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

4.1.5 - Culverts (5/14)

Roads will require the installation of culverts for cross drainage or at natural drainage-ways. Culvert locations will be specified by the Sale Administrator and they shall be installed prior to hauling. The culverts shall be new, corrugated metal or plastic gauge. Culverts will be a minimum of 12 inches in diameter and 24 feet in length. All culverts and 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 DNR.

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

5 - Operations

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.8 - Slash height (12/08)

No slash or treetops may exceed 24 inches in height.

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 not permitted during the period of April 15 to July 15. This restriction is because seasonally saturated soils.

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 2-6, 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 2-6, 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.

5.2.4 - 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) 1, leave one, 12" or larger diameter whole tree on the ground for every 3 acres. Trees should be scattered throughout the sale and at least two chains from any roads, two-tracks, or trails open to vehicles, or positioned per the Sale Administrator's instructions. Stumps must be at least 3 feet tall.

5.2.31 - Landing locations (9/13)

Recommended landing areas are marked on the Timber Sale Map. These locations are recommendations only, all landing locations must be authorized by the Unit Manager or his/her representative.

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. Topsoil removed during construction must be stored and spread over the landing area after operations are complete.

5.2.38 - No decking against live trees (2/04)

Cut products may not be decked against unmarked or designated leave trees.

7 - Other Conditions

7.2 - Extensions

7.2.5 - Weather related extension (1/13)

If weather conditions during the operating period of this contract prevent harvesting, this sale may qualify for a weather related extension. If approved, the normal extension fee would be waived. To qualify, there must be a documented attempt each year to harvest in the difficult portion of the sale.

TIMBER SALE MAP

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

Sale Number
73-011-23

Date
09/29/2023

Forest Management Unit	County	Mapped By: Scott Shooltz	Scale	Page	Of
Gladwin Mgt Unit	Midland	Cruised By: Scott Shooltz	1:20,000	1	1

Township 15N	Range 01W / 02W	Section(s) and Subdivision(s) Sec. 19 S1/2SE; Sec. 24 NESE,S1/2SE; Sec. 29 W1/2SW; Sec. 30 N1/2SW,SESW,SE;
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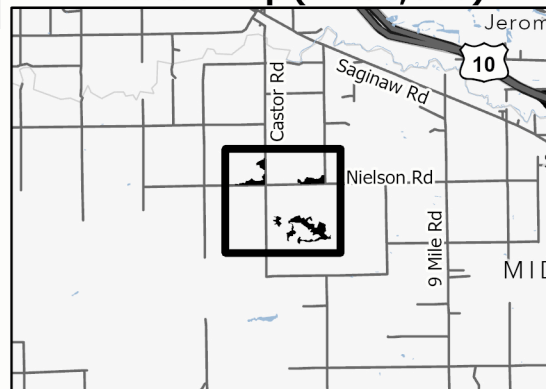
Cover Type

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

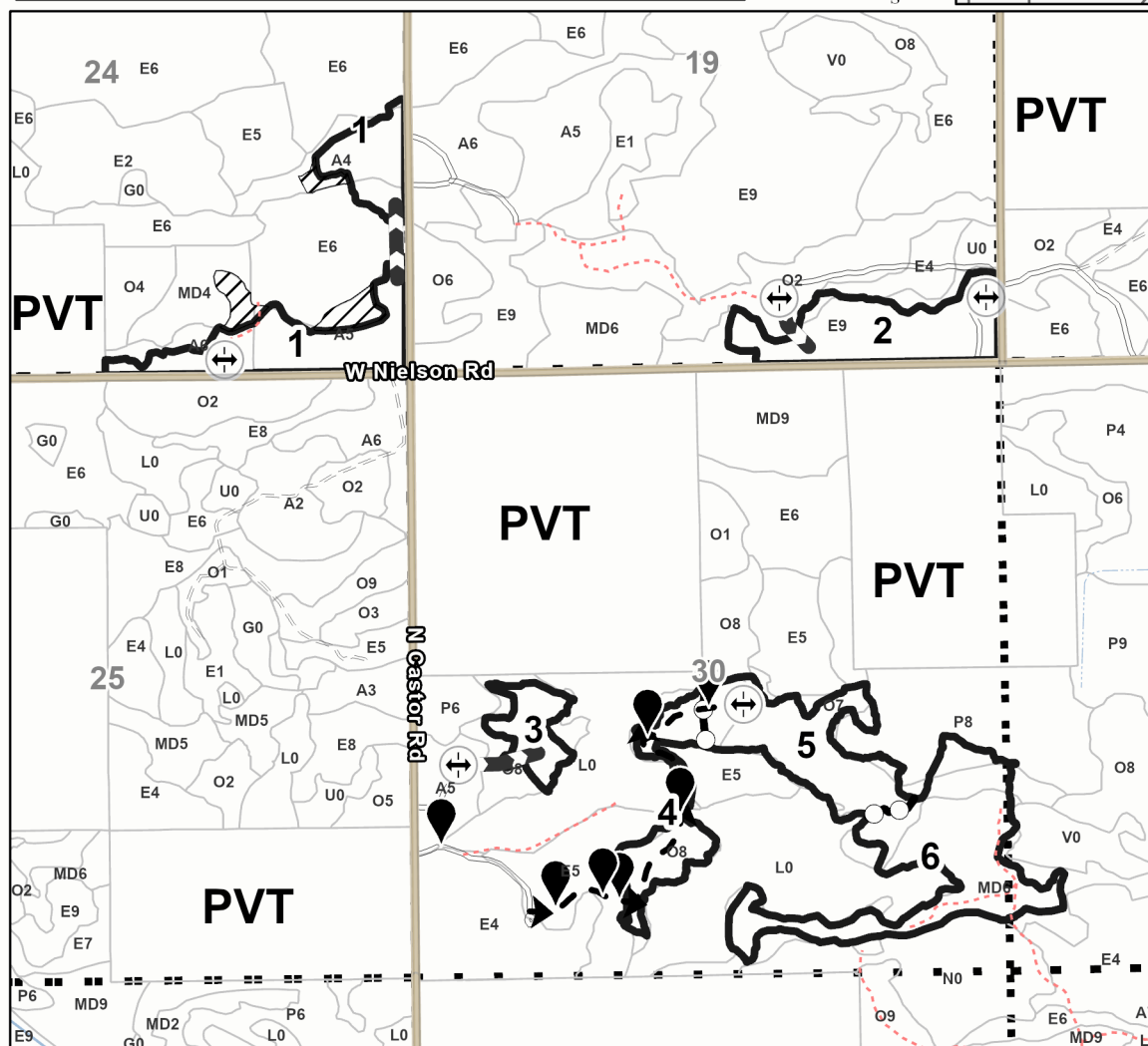
Locator Map (1:200,000)

















Castor Wilds

148.0 Acres

PU #	Acres	PU #	Acres
1	33.1	4	15
2	26	5	25.3
3	8.8	6	39.8



Legend

-  Against State (Red)
-  Payment Unit (Yellow)
-  Retention Areas
-  Stand
-  Temporary Logging Road
-  Skid_Trail
-  Culvert Installation
-  Landing
-  Primary Forest Road
-  Secondary Forest Road
-  Forest Access Route
-  Administrative Access Only
-  Non-DNR Road
-  Sections

Use QR Code to open Map in App

