

## DEPARTMENT OF NATURAL RESOURCES STATE OF MICHIGAN <u>TIMBER SALE PROSPECTUS #7174</u>

<u>SCHEDULED SALE DATE AND TIME:</u> 9:00 a.m. (local time) on December 13, 2022. LOCATION: ROSCOMMON MGMT UNIT, PO BOX 218, ROSCOMMON, MI 48653.

<u>CONTACT NAME:</u> Doug Bates <u>PHONE NUMBER:</u> (989) 275-4622

<u>PROSPECTUS NOTE</u>: 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, ROSCOMMON MANAGEMENT UNIT, for certain timber on the following described lands:

<u>Damon's Last Ridge</u> (71-024-22) / T24N, R01E, SEC. 1 , NWSW,S1/2SW. T24N, R01E, SEC. 11, E1/2SE. T24N, R01E, SEC. 12, N1/2NW,SENW,W1/2NE. T24N, R01E, SEC. 2 , NW,NESE,S1/2SE. Ogemaw County, Advertised Price \$204,475.85, 204.5 Acres, Aspen, Hardwood.

## TIMBER SALE INFORMATION

## Damon's Last Ridge (71-024-22) T24N, R01E, SEC. 1; T24N, R01E, SEC. 11; T24N, R01E, SEC. 12; T24N, R01E, SEC. 2. Ogemaw County (Advertised Price \$204,475.85)

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:

PRODUCTS & SPECIES	ESTIMATED UNITS*		<u>ADV</u>	ERTISED PRICE
Sawtimber				
B. T. Aspen	433.6	MBF	\$	72.00 / MBF
BI/R/Hybrid Oak	147.5	MBF	\$	105.00 / MBF
Jack Pine	16.7	MBF	\$	21.00 / MBF
Quaking Aspen	91.7	MBF	\$	72.00 / MBF
Red Maple	72.2	MBF	\$	68.00 / MBF
Red Oak	362.6	MBF	\$	99.00 / MBF
Red Pine	188.4	MBF	\$	92.00 / MBF
White Oak	58.4	MBF	\$	52.00 / MBF
Pulpwood				
Jack Pine	71	Cords	\$	11.85 / Cord
Mixed Aspen	2,050	Cords	\$	26.05 / Cord
Mixed Hardwood	924	Cords	\$	14.40 / Cord
Mixed Oak	1,038	Cords	\$	16.20 / Cord
Red Pine	142	Cords	\$	35.20 / Cord
White Pine	8	Cords	\$	34.50 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 10.32 percent. There are an estimated 7,154 cords on this timber sale, plus or minus 739 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 \$10,223.79 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:					
PAYMENT UNIT NUMBER	PERCENT OF TOTAL SALE VALUE				
01	2.5%				
02	9.6%				
03	3.3%				
04	13.2%				
05	12.2%				
06	18.6%				
07	19.1%				
08	17.1%				
09	4.4%				

4. If no cutting takes place, the 10% down payment will not be refunded.

5. Operations on the contract issued will terminate on 12/31/2024.

#### 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	RCENT ERROR MINIMUM MAXIMUM	
565,205	7,154	10.32%	6,416	7,893

#### 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 I	N CORDS
VDU	TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
10	59,193	749	27.84%	541	958
11	17,053	216	46.02%	117	315
40	21,833	276	42.27%	160	393
48	195,582	2,476	18.59%	2,016	2,936
53	258,344	3,270	11.50%	2,894	3,646
77	13,199	167	58.16%	70	264
TOTAL:	565,205	7,154		5,796	8,513

#### 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
10	24.9	2	24.9
11	12.0	3	12.0
40	14.8	9	14.8
48	57.8	7	30.3
		8	27.5
53	81.4	4	24.4
		5	22.6
		6	34.4
77	13.6	1	13.6
TOTAL:	204.5		204.5

## DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	BI/R/Hybrid Oak	Sawtimber	3.7	MBF	13.6	\$5,147.50
	Red Pine		32.1	MBF		
	Jack Pine	Pulpwood	24	Cords		
	Mixed Hardwood		4	Cords		
	Red Maple		4	Cords		
	Mixed Oak		23	Cords		
	BI/R/Hybrid Oak		23	Cords		
	=					
	Red Pine	<b>0</b>	31	Cords		
2	B. T. Aspen	Sawtimber	38.7	MBF	24.9	\$19,650.90
	BI/R/Hybrid Oak		18.0	MBF		
	Jack Pine		4.9	MBF		
	Quaking Aspen		11.7	MBF		
	Red Maple		14.9	MBF		
	Red Pine		27.3	MBF		
	Jack Pine	Pulpwood	9	Cords		
	Mixed Aspen		203	Cords		
	B. T. Aspen		174	Cords		
	Quaking Aspen		29	Cords		
	Mixed Hardwood		29	Cords		
	Black Cherry		23	Cords		
	Red Maple		240	Cords		
	Mixed Oak		36	Cords		
	Bl/R/Hybrid Oak		36	Cords		
	Red Pine		21	Cords		
3	Bl/R/Hybrid Oak	Sawtimber	4.2	MBF	12.0	\$6,784.40
	Red Pine		44.4	MBF		
	Mixed Hardwood	Pulpwood	19	Cords		
	Black Cherry		14	Cords		
	Red Maple		5	Cords		
	Mixed Oak		49	Cords		
	BI/R/Hybrid Oak		49	Cords		
	Red Pine		26	Cords		
	White Pine					
			8	Cords		
	White Pine	Sawtimber	2.6	MBF		
	White Pine	Pulpwood	3	Cords		
4	B. T. Aspen	Sawtimber	60.9	MBF	24.4	\$27,057.45
	BI/R/Hybrid Oak		22.5	MBF		
	Jack Pine		1.4	MBF		
	Quaking Aspen		16.2	MBF		
	Red Maple		9.9	MBF		
	Red Oak		59.2	MBF		
	White Oak		12.6	MBF		
	Jack Pine	Pulpwood	4	Cords		
	Mixed Aspen		315	Cords		
	B. T. Aspen		260	Cords		
			200 55			
	Quaking Aspen			Cords		
	Mixed Hardwood		129	Cords		
	Red Maple		129	Cords		
	Mixed Oak		112	Cords		
	BI/R/Hybrid Oak		48	Cords		
	Red Oak		41	Cords		
	White Oak		23	Cords		
5	B. T. Aspen	Sawtimber	56.4	MBF	22.6	\$25,044.85
	, Bl/R/Hybrid Oak		20.8	MBF		. ,
	Jack Pine		1.3	MBF		
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## DESCRIPTION OF TIMBER BY PU (PU), CON'T

		DRODUOT			10050	
PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	Quaking Aspen	Sawtimber	15.0	MBF		
	Red Maple		9.2	MBF		
	Red Oak		54.8	MBF		
	White Oak		11.6	MBF		
	Jack Pine	Pulpwood	3	Cords		
	Mixed Aspen		292	Cords		
	B. T. Aspen		241	Cords		
	Quaking Aspen		51	Cords		
	Mixed Hardwood		120	Cords		
	Red Maple		120	Cords		
	Mixed Oak		103	Cords		
	Bl/R/Hybrid Oak		44	Cords		
	Red Oak		38	Cords		
	White Oak		21	Cords		
6	B. T. Aspen	Sawtimber	85.9	MBF	34.4	\$38,093.70
Ū	BI/R/Hybrid Oak	Gawaniber	31.7	MBF	04.4	φου,σου.το
	Jack Pine		2.0	MBF		
	Quaking Aspen		22.8	MBF		
	Red Maple		13.9	MBF		
	•					
	Red Oak		83.4	MBF		
	White Oak	<u>_</u> , ,	17.6	MBF		
	Jack Pine	Pulpwood	5	Cords		
	Mixed Aspen		443	Cords		
	B. T. Aspen		366	Cords		
	Quaking Aspen		77	Cords		
	Mixed Hardwood		182	Cords		
	Red Maple		182	Cords		
	Mixed Oak		158	Cords		
	Bl/R/Hybrid Oak		67	Cords		
	Red Oak		58	Cords		
	White Oak		33	Cords		
7	B. T. Aspen	Sawtimber	100.5	MBF	30.3	\$38,640.00
	Bl/R/Hybrid Oak		13.9	MBF		
	Quaking Aspen		13.6	MBF		
	Red Maple		12.7	MBF		
	Red Oak		86.6	MBF		
	Red Pine		19.7	MBF		
	White Oak		8.7	MBF		
	Mixed Aspen	Pulpwood	418	Cords		
	B. T. Aspen		345	Cords		
	Quaking Aspen		73	Cords		
	Mixed Hardwood		103	Cords		
	Black Cherry		4	Cords		
	Red Maple			Cords		
	-		99 265			
	Mixed Oak		265	Cords		
	BI/R/Hybrid Oak		107	Cords		
	Red Oak		119	Cords		
	White Oak		39	Cords		
	Red Pine		17	Cords		
8	B. T. Aspen	Sawtimber	91.2	MBF	27.5	\$35,053.25
	BI/R/Hybrid Oak		12.7	MBF		
	Quaking Aspen		12.4	MBF		
	Red Maple		11.6	MBF		
			78.6	MBF		
	Red Oak		70.0			

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
8 con't		Sawtimber	7.9	MBF		
	Mixed Aspen	Pulpwood	379	Cords		
	B. T. Aspen		313	Cords		
	Quaking Aspen		66	Cords		
	Mixed Hardwood		92	Cords		
	Black Cherry		3	Cords		
	Red Maple		89	Cords		
	Mixed Oak		239	Cords		
	Bl/R/Hybrid Oak		97	Cords		
	Red Oak		107	Cords		
	White Oak		35	Cords		
	Red Pine		16	Cords		
9	BI/R/Hybrid Oak	Sawtimber	20.0	MBF	14.8	\$9,003.80
	Jack Pine		7.1	MBF		
	Red Pine		47.0	MBF		
	Jack Pine	Pulpwood	26	Cords		
	Mixed Hardwood		12	Cords		
	Red Maple		12	Cords		
	Mixed Oak		53	Cords		
	Bl/R/Hybrid Oak		53	Cords		
	Red Pine		31	Cords		
		TOTAL:	1,371.1	MBF		
		TOTAL:	4,233	Cords		

## Sale Specific Conditions & Requirements

#### Sale Name: Damon's Last Ridge

Sale Number: 71-024-22 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. Retention patches are marked with red paint; no harvesting activities may occur within these areas. 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) 1-9, cut all trees that are two (2) inches or more at DBH.EXCEPTION: Within Payment Units 2 and 3 do not cut any white oak over 10 inches DBH.WIthin Payment Units 4-8 do not cut any tree marked in green paint above and below stump height.

## 2.2 - Utilization

2.2.2 - Chipping required (2/18)

Payment Units 1, 3, and 9 must be chip harvested to facilitate future silvicultural activities. Products may be produced as roundwood and forwarded to decking areas in final product length, but the tops must be left intact and skidded to the landing for chipping in order to minimize the amount of residual slash. If market conditions limit the practicality of chipping, tops and slash must be arranged in a way that will not inhibit future planting operations, as directed by the sale administrator. In some situations, it is possible that a chipping exemption can be obtained if proposed operations are determined to be suitable for planting by reforestation staff. This exemption must be granted in writing. If the deadline is not met, damages will be collected determined by the cost to complete this work. The requirement to retain approximately 1/6 to 1/3 of tree tops and limbs less than four inches in diameter is still applicable (G. C. & R. 2.2).

2.2.3 - Stump heights (4/07)

Stump heights within the Sale Area shall not exceed 6 inches for all trees. This is especially important in Payment Units 1 and 3 for subsequent cultivation activities to take place.

#### 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.

#### 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, within Payment Units 2 and 4-8, should chipping occur in a Payment Unit, this must be done before sprouting of new regeneration. If more than 33% of the newly sprouted tree seedlings within a specified portion of the Sale Area are damaged, liquidated damages will be assessed at \$500 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

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be in accordance with General Condition and Requirement 3.4 Damaged Timber.

## 4 - Transportation

## 4.1 - Construction

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.

4.2 - Maintenance

4.2.3 - Road maintenance (8/13)

The following road maintenance may be needed: Within 60 days of completion of hauling, or if no hauling occurs for 60 days, the road must be maintained and graded to the condition prior to usage. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. Damages will be assessed if grading/repair does not occur.

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

## 5.1 - Notification

5.1.1 - Pre-sale conference (10/16)

A pre-sale conference 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 in advance to schedule the conference.

5.1.3 - Well heads and natural gas pipelines (11/15)

The Purchaser is responsible for contacting the gas or pipeline company prior to operating equipment in the vicinity of well heads or natural gas pipelines. The pipeline is along the eastern edge of Payment Unit 8 and crosses Gilford Ranch Trail just east of the Timber Sale.

## 5.2 - Conduct of Operations

5.2.1 - Slash

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5.2.1.8 - Slash height (12/08)
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No slash or tree tops may exceed 24 inches in height. If Payment Units are not chipped, tops and slash must be evenly distributed across the Payment Unit and may not be left in windrows or thick mats.

5.2.1.11 - Slash for reforestation (3/21)

If Payment Units 2 and 4-8 are not chipped, they shall be left with slash evenly distributed so as not to inhibit reforestation of the stand. Bunched tops within the cutting area shall be broken up and scattered. Processing sites shall not be left with a compacted layer/windrow of slash.

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

#### 5.2.3.5 - Oak wilt restriction (1/18)

Within the sale area, unless changed by written agreement, 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. Operations may be allowed if specific steps are taken to prevent damaging uncut oak during the high risk period. Those steps may include completing all road brushing before April 15th and clearing a tree-length buffer along uncut oak cover before April 15th. This is necessary to reduce the spread of oak wilt. For more information, contact the Unit Manager or his/her representative.

## 5.2.3.11 - Coppice regeneration protection (4/10)

Timber harvesting in Payment Units 2 and 4-8 must be completed before significant aspen sprouting occurs in that Payment Unit so as to minimize damage to the new regeneration. Any post harvest operations, such as chipping, must be completed before sprouting of regeneration occurs. Should damages occur to the new regeneration, the damages will be assessed per Specification 3.4.1 - Damaged Timber. If it is anticipated that chipping will be delayed, then tops shall be carried to one central location, preferably the landing. A third-party entity may be brought in to chip the tops/slash, before new sprouting occurs, should the contract holder fail to present in a timely manner arrangements approved by the Unit Manager for protecting the new regeneration. The Unit Manager or his/her representative may also cease such operations if sprouting occurs before the operation is complete and the Payment Unit(s) will be counted as incomplete with liquidated damages assessed accordingly.

## 5.2.4 - Dead and Down Creation

## 5.2.4.2 - Dead and down creation, hare and grouse (1/14)

To improve habitat for snowshoe hare, grouse, and other species, the Purchaser is to leave two logs, nine (9) inches or larger in diameter on the ground for every four acres in Payment Units 2 and 4-8. They should be scattered throughout the sale or positioned per the sale administrators instructions. If possible, the logs or trees should be felled so they overlap. Note these pieces should have a minimum length of five feet. They can be of any tree species and can be an un-merchantable piece of wood or a full tree.

## 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

## 5.4.3 - Erosion control (12/08)

Skid trails or haul roads may require erosion control structures or berms per direction of the Unit Manager or his/her representative.

#### 6 - Safety and Fire Prevention

#### 6.2 - Signing

## 6.2.1 - Road posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on Gilford Ranch Trail, County Line Road, and Tower Road prior to beginning operations. The road must be posted at appropriate distances from the sale area to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. The Purchaser will provide these signs.



