



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7188**

SCHEDULED SALE DATE AND TIME: 9:00 a.m. (local time) on February 21, 2023.

LOCATION: GAYLORD MGMT UNIT, 1732 WEST M 32, GAYLORD, MI 49735.

CONTACT NAME: Lucas Merrick

PHONE NUMBER: (989) 732-3541

PROSPECTUS NOTE: All bid openings for the Gaylord Management Unit (Gaylord Field Office and Indian River Field Office) will be held at the Gaylord Field Office regardless of sale location within the unit. All payments and contract executions will now be handled through the Gaylord Field Office. The Indian River Field Office will no longer accept payments or hard paper copies of timber sale bids. Payments for all contracts, use permits, bonds, etc. should be sent to the Gaylord Field Office.

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

Tangerine Mix (52-108-22) / T37N, R05W, SEC. 30, W1/2SW.

T37N, R06W, SEC. 25, SENE,NWSW,S1/2SW,SE.

T37N, R06W, SEC. 35, SENE,NESE.

T37N, R06W, SEC. 36, SWNW,NENE.

Emmet County, Advertised Price \$68,823.60, 98.0 Acres, Aspen, Hardwood.

SALE NOTE: Seasonal restriction. No harvest activity is allowed on the designated snowmobile trail (Gregory Rd.) from December 1 to April 1. Alternate access into PU's #2 and #3 is available directly off of Robinson Rd. Protect shrubs from equipment damage within sale area.

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity.
Certain restrictions/specifications may be applicable including time restrictions.

TIMBER SALE INFORMATION

Tangerine Mix (52-108-22)

T37N, R05W, SEC. 30; T37N, R06W, SEC. 25; T37N, R06W, SEC. 35; T37N, R06W, SEC. 36.

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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		
B. T. Aspen	1.7 MBF	\$ 55.00 / MBF
Black Cherry	8.9 MBF	\$ 97.00 / MBF
Paper Birch	6.8 MBF	\$ 39.00 / MBF
Quaking Aspen	244.6 MBF	\$ 55.00 / MBF
Red Maple	22.3 MBF	\$ 88.00 / MBF
Red Pine	1.4 MBF	\$ 140.00 / MBF
Sugar Maple	30.6 MBF	\$ 301.00 / MBF
White Ash	11.0 MBF	\$ 86.00 / MBF
Pulpwood		
Mixed Aspen	1,542 Cords	\$ 19.95 / Cord
Mixed Hardwood	597 Cords	\$ 16.55 / Cord
Red Pine	9 Cords	\$ 51.15 / Cord
White Pine	25 Cords	\$ 29.20 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 17.86 percent. There are an estimated 2,818 cords on this timber sale, plus or minus 503 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 \$3,441.18 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	17.2%
02	35.4%
03	26.3%
04	21.1%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2026.

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
222,583	2,818	17.86%	2,314	3,321

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
49	25,164	319	66.60%	106	531
54	162,448	2,056	22.13%	1,601	2,511
72	34,970	443	18.53%	361	525
TOTAL:	222,583	2,818		2,068	3,567

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
49	16.4	1	16.4
54	60.0	2	34.5
		3	25.5
72	21.6	4	21.6
TOTAL:	98.0		98.0

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Black Cherry	Sawtimber	2.3	MBF	16.4	\$11,830.10
	Quaking Aspen		79.6	MBF		
	Red Pine		1.4	MBF		
	Sugar Maple		8.3	MBF		
	Mixed Aspen	Pulpwood	181	Cords		
	Quaking Aspen		181	Cords		
	Mixed Hardwood		28	Cords		
	Black Cherry		16	Cords		
	Sugar Maple		12	Cords		
	Red Pine		9	Cords		
2	B. T. Aspen	Sawtimber	1.0	MBF	34.5	\$24,402.15
	Paper Birch		3.9	MBF		
	Quaking Aspen		91.3	MBF		
	Red Maple		4.1	MBF		
	White Ash		6.3	MBF		
	Mixed Aspen	Pulpwood	751	Cords		
	B. T. Aspen		13	Cords		
	Quaking Aspen		738	Cords		
	Mixed Hardwood		174	Cords		
	Black Cherry		35	Cords		
	Paper Birch		11	Cords		
	Red Maple		19	Cords		
	Sugar Maple		97	Cords		
	White Ash		12	Cords		
	White Pine		14	Cords		
	3	B. T. Aspen	Sawtimber	0.7		
Paper Birch			2.9	MBF		
Quaking Aspen			67.4	MBF		
Red Maple			3.1	MBF		
White Ash			4.7	MBF		
Mixed Aspen		Pulpwood	556	Cords		
B. T. Aspen			10	Cords		
Quaking Aspen			546	Cords		
Mixed Hardwood			129	Cords		
Black Cherry			26	Cords		
Paper Birch			8	Cords		
Red Maple			14	Cords		
Sugar Maple			72	Cords		
White Ash			9	Cords		
White Pine			11	Cords		
4		Black Cherry	Sawtimber	6.6	MBF	21.6
	Quaking Aspen		6.3	MBF		
	Red Maple		15.1	MBF		
	Sugar Maple		22.3	MBF		
	Mixed Aspen	Pulpwood	54	Cords		
	Quaking Aspen		54	Cords		
	Mixed Hardwood		266	Cords		
	Black Cherry		27	Cords		
	Ironwood		30	Cords		
	Red Maple		131	Cords		
	Sugar Maple		78	Cords		
	TOTAL:			327.3	MBF	
TOTAL:			2,173	Cords		

Sale Specific Conditions & Requirements

Sale Name: Tangerine Mix

Sale Number: 52-108-22 Seq#: 2

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. Exterior sale boundary lines adjacent to private property are marked with blue paint. Exterior sale boundary lines adjacent to state-owned land are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. Retention areas 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 unless marked with orange paint. 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) 1-4, cut all trees that are two (2) inches or more at DBH, with the following exceptions:

Within Payment Units 1-4, do not cut incidental oak or hemlock, and do not cut any tree 26" or larger at DBH. These will be left as single tree retention. Also, any trees marked with pink paint are to be felled and left intact on the ground.

Within Payment Unit 1, do not cut any paper birch marked with green paint.

Within Payment Unit 4, do not cut black cherry marked with green paint. Also, do not operate harvest equipment within timber retention areas identified on the map and bounded by red paint.

2.2 - Utilization

2.2.8 - Utilization and removal (5/14)

All products meeting standards set forth in General Condition and Requirement 2.2 - Utilization must be removed from the sale area. Retain on site between 1/6 and 1/3 of the slash from harvested trees (tree tops and limbs less than four inches in diameter). This is because biomass retention requirements.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) 1-4 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. No harvest activities may occur until the Purchaser-signed contract amendment has been received.

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, chipped, utilized or otherwise removed from the sale.

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.

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

5.1 - 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 discuss contract specifications and to determine landing and road locations.

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.1 - Slash within sale area (9/16)

No trees are to be felled outside the sale area and all slash is to be kept at least 10 feet back from the red or blue paint line. If sale boundary lines are along a public road or highway, then slash must be removed 50' from these lines per General Condition & Requirement 5.2.1.

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) 2 and 3, unless changed by written agreement, use of the designated snowmobile trail (Gregory Rd.) for cutting, skidding, and hauling is not permitted during the period of December 1 to April 1. This restriction is to prevent potential hazardous trail conditions between snowmobiles and logging equipment.

Winter access to Payment Units 2 and 3 is available using the existing forest trail road directly north off Robinson Rd.

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) 1-4, cut and leave intact on the ground, any tree marked with a band of pink paint. These downed trees will function as grouse drumming logs.

5.2.29 - Shrub protection (1/20)

Do not cut or damage hawthorn, witch-hazel, dogwood or junberry. These woody-shrub plants are highly beneficial to various wildlife species.

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. Stumps will be removed from the landing area

and placed upright back into the sale area away from the landing. Piles of topsoil will need to be spread out evenly.

5.2.41 - Snowmobile trail protection (9/11)

The snowmobile trail is shown on the Timber Sale Map. Do not cut or damage posts with orange trail markers or traffic control signs. If the trail is used, it must be maintained and restored to a condition equal to or better than before the sale. The road maintenance/restoration must be done prior to December 1. If the trail is used for hauling, it must be graded to the satisfaction of the Unit Manager or his/her representative prior to December 1st. The snowmobile trail may not be used for any timber sale operations from December 1 to April 1. Maintain a 20 foot wide slash, debris, and rut free zone daily using the snowmobile trail as the centerline. All stumps within 5 feet of the snowmobile trail must be cut at ground level.

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 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

5.8.5 - 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.

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 Robinson, Gregory, and Cetas Rds. 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.

**TIMBER SALE MAP**

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

Sale Number	Year
52-108	22

Forest Management Unit Gaylord - North	County Emmet County	Mapped By D. Stacks	Date 07/27/2022	Page 1	of 1
Township 37N	Range 05 and 06W	Section(s) and Subdivision(s) 30; 25, 35, 36.	Cruised By D. Stacks	Scale 1:15,840	

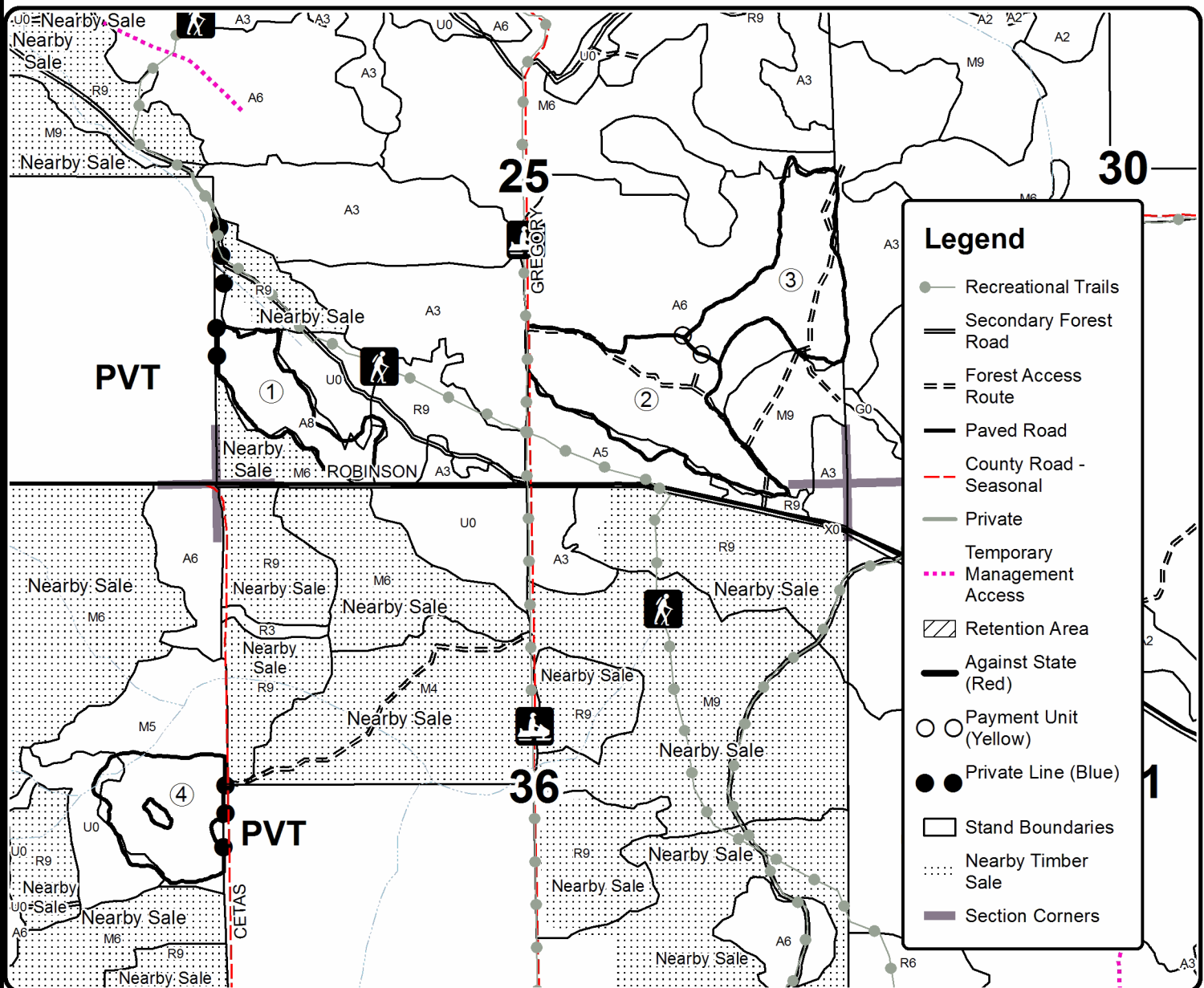
Cover Type

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 = Tread 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	16.4	4	21.6
2	34.5		
3	25.5		

Tangerine Mix**Compartment 105****98 Acres**

0 0.125 0.25 0.5 0.75 1 Miles