



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7140**

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on December 1, 2022.**

LOCATION: **BARAGA MGMT UNIT, 427 US 41 NORTH, BARAGA, MI 49908.**

CONTACT NAME: Brad Carlson

PHONE NUMBER: (906) 353-6651

PROSPECTUS NOTE: Contact Dan McNamee 906-235-5830 for questions regarding timber sales 12-007-22 Hazel Tango, 12-055-22 Comp 123 Aspen or 12-056-22 Panola Plains Pine.

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

Hazel Tango (12-007-22) / T44N, R28W, SEC. 25, NWSW.

T44N, R28W, SEC. 26, SE.

T44N, R28W, SEC. 27, W1/2SE.

T44N, R28W, SEC. 34, N1/2NW,NWNE.

T44N, R28W, SEC. 35, S1/2NW,NE,N1/2SW,NESE.

Dickinson County, Advertised Price \$100,916.00, 175.4 Acres, Aspen, Spruce/Fir/Tamarack.

# TIMBER SALE INFORMATION

## Hazel Tango (12-007-22)

T44N, R28W, SEC. 25; T44N, R28W, SEC. 26; T44N, R28W, SEC. 27; T44N, R28W, SEC. 34; T44N, R28W, SEC. 35.  
Dickinson County (Advertised Price \$100,916.00)

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 &amp; SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Sugar Maple	22.1 MBF	\$ 154.00 / MBF
Pulpwood		
Balsam Fir	615 Cords	\$ 4.25 / Cord
Balsam Poplar	153 Cords	\$ 18.25 / Cord
Basswood	67 Cords	\$ 5.40 / Cord
Mixed Hardwood	608 Cords	\$ 11.30 / Cord
Mixed Spruce	136 Cords	\$ 5.50 / Cord
Quaking Aspen	4,595 Cords	\$ 18.25 / Cord
Tamarack	53 Cords	\$ 5.05 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 9.87 percent. There are an estimated 6,039 cords on this timber sale, plus or minus 596 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 \$8,073.28 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	17.1%
02	2.6%
03	35.7%
04	11.0%
05	17.9%
06	15.7%
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
477,104	6,039	9.87%	5,443	6,636

**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.

VDU	VOLUME		PERCENT ERROR	RANGE IN CORDS	
	TOTAL CUBIC FEET	TOTAL CORDS		MINIMUM	MAXIMUM
7	84,263	1,067	25.68%	793	1,341
35	158,718	2,009	24.01%	1,527	2,492
44	57,889	733	18.73%	595	870
52	16,880	214	0.00%	214	214
55	159,353	2,017	14.97%	1,715	2,319
<b>TOTAL:</b>	<b>477,104</b>	<b>6,039</b>		<b>4,844</b>	<b>7,235</b>

**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
7	29.5	1	29.5
35	60.3	5	32.2
		6	28.1
44	19.9	4	19.9
52	18.1	2	18.1
55	47.6	3	47.6
<b>TOTAL:</b>	<b>175.4</b>		<b>175.4</b>

**DESCRIPTION OF TIMBER BY PU (PU)**

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Balsam Fir	Pulpwood	168	Cords	29.5	\$17,274.80
	Balsam Poplar		20	Cords		
	Basswood		8	Cords		
	<i>Basswood</i>		8	<i>Cords</i>		
	Mixed Hardwood		92	Cords		
	<i>American Elm</i>		29	<i>Cords</i>		
	<i>Black Cherry</i>		20	<i>Cords</i>		
	<i>Sugar Maple</i>		43	<i>Cords</i>		
	Mixed Spruce		7	Cords		
	<i>White Spruce</i>		7	<i>Cords</i>		
Quaking Aspen	826	Cords				
2	Balsam Poplar	Pulpwood	56	Cords	18.1	\$2,581.15
	Mixed Spruce		49	Cords		
	<i>Black Spruce</i>		49	<i>Cords</i>		
	Quaking Aspen		56	Cords		
	Tamarack		53	Cords		
3	Sugar Maple	Sawtimber	16.1	MBF	47.6	\$36,031.55
	Balsam Fir	Pulpwood	107	Cords		
	Mixed Hardwood		298	Cords		
	<i>Black Cherry</i>		54	<i>Cords</i>		
	<i>Red Maple</i>		86	<i>Cords</i>		
	<i>Sugar Maple</i>		158	<i>Cords</i>		
	Mixed Spruce		30	Cords		
	<i>White Spruce</i>		30	<i>Cords</i>		
Quaking Aspen	1,620		Cords			
4	Sugar Maple	Sawtimber	2.2	MBF	19.9	\$11,108.50
	Balsam Fir	Pulpwood	40	Cords		
	Balsam Poplar		17	Cords		
	Basswood		59	Cords		
	<i>Basswood</i>		1.9	<i>MBF</i>		
	<i>Basswood</i>		55	<i>Cords</i>		
	Mixed Hardwood		112	Cords		
	<i>Sugar Maple</i>		81	<i>Cords</i>		
	<i>White Ash</i>		31	<i>Cords</i>		
	Quaking Aspen		477	Cords		
5	Sugar Maple		Sawtimber	2.0	MBF	32.2
	Balsam Fir	Pulpwood	160	Cords		
	Balsam Poplar		32	Cords		
	Mixed Hardwood		57	Cords		
	<i>Black Cherry</i>		32	<i>Cords</i>		
	<i>Red Maple</i>		18	<i>Cords</i>		
	<i>Sugar Maple</i>		7	<i>Cords</i>		
	Mixed Spruce		27	Cords		
	<i>White Spruce</i>		27	<i>Cords</i>		
	Quaking Aspen		863	Cords		
6	Sugar Maple		Sawtimber	1.8	MBF	28.1
	Balsam Fir	Pulpwood	140	Cords		
	Balsam Poplar		28	Cords		
	Mixed Hardwood		49	Cords		
	<i>Black Cherry</i>		27	<i>Cords</i>		
	<i>Red Maple</i>		16	<i>Cords</i>		
	<i>Sugar Maple</i>		6	<i>Cords</i>		
	Mixed Spruce		23	Cords		
	<i>White Spruce</i>		23	<i>Cords</i>		
	Quaking Aspen		753	Cords		

TOTAL:	22.1	MBF
TOTAL:	6,227	Cords

## Sale Specific Conditions & Requirements

Sale Name: Hazel Tango

Sale Number: 12-007-22 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 against private property are marked with blue paint. Exterior sale boundary lines against state are marked with red paint. Interior Payment Unit boundaries are marked with yellow paint. 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) 1-6, cut all trees that are two (2) inches or more at DBH except red pine, white pine, cedar, and oak (if found).

In addition, leave scattered live clumps of submerchantable spruce & fir, where available.

### 3 - Payments

#### 3.3 - Pre-measured Sales

##### 3.3.4 - Dividing payment units (7/14)

Payment Unit(s) 3 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

##### 4.1.4 - Timber removed for construction (12/09)

Trees cut or damaged in the process of pre-approved road, landing or skid trail construction will be decked in an area separate from other Designated Timber and not removed until measured by the sale administrator. Payment will be made at the specified Purchase Unit Price.

#### 4.2 - Maintenance

##### 4.2.1 - Hauling restriction (12/08)

Hauling may be restricted on forest roads by the Unit Manager or his/her representative. The restriction may occur during spring breakup or prolonged wet weather conditions.

##### 4.2.4 - Grading (10/16)

For completion of the sale, state forest roads must be graded. In general, this will require a road grader or bull dozer to shape up the roads after forest products have been hauled off site. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. The grading equipment to be used must be approved by the Unit Manager or his/her representative.

#### 4.3 - Public Right-of-Way

##### 4.3.2 - County R-O-W (12/06)

The county must be contacted prior to decking along the county road R-O-W. This applies to the Aimone Road. Dickinson County Road Commission may require a permit.

#### 4.4 - Access

##### 4.4.2 - Alternate route on private property (2/04)

It is the Purchaser's responsibility to obtain access across private land for any routes other than the route shown on the Timber Sale Map.

### 5 - Operations

#### 5.2 - Conduct of Operations

##### 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) 1-6 leave two piles of loosely piled brush/tops, at a minimum of 10 feet long x 4 feet tall, for every unit. These trees will be evenly scattered throughout the unit, preferably at least two chains from any roads, two-tracks, or trails open to vehicles.

##### 5.2.22 - Operating Caution

###### 5.2.22.1 - Operating caution (6/11)

It is recommended, but not required, that within Payment Unit(s) 2, cutting and skidding occur during dry summer or frozen winter conditions. The reason for the recommendation is because of wet soils, particularly on the south side of Aimone Road.

##### 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

##### 5.4.1 - 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.

### 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 Aimone 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.



# TIMBER SALE MAP

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

Sale Number	Year
007	2022

Forest Management Unit	County	Mapped By	Date	Page	of
Crystal Falls Management Unit	Dickinson Co.	Debbie Goupell	8/3/22	1	1
Township	Range	Section(s) and Subdivision(s)	Scale		
44N	28W	S25: NWSW S26: SE1/4 S27: W1/2SE S34:N1/2NW,NWNE S35:S1/2NW,N1/2SW, NE1/4	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

Unit	Acres	Unit	Acres
1	29.5	4	19.9
2	18.1	5	32.2
3	47.6	6	28.1

## Hazel Tango

### Compartment 34

175.4 Acres

