



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7077**

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on July 14, 2022.**

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

CONTACT NAME: Dan McNamee

PHONE NUMBER: (906) 875-6622

PROSPECTUS NOTE: Contact Dan McNamee 906-235-5830 for questions regarding timber sales Iron Sea Bass 12-001-22, Gnome Homes Hardwood 12-005-22, Trax Kik Ash 11-006-22 or Moose Cut 12-057-22.

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:

Gnome Homes Hardwood (12-005-22) / T44N, R28W, SEC. 26, NWNW,SW,W1/2SE.

T44N, R28W, SEC. 27, NW,NENE,S1/2NE,NESW,NWSE.

T44N, R28W, SEC. 34, NENE.

T44N, R28W, SEC. 35, NW.

Dickinson County, Advertised Price \$41,875.85, 189.2 Acres, Aspen, Hardwood.

SALE NOTE: All units of volume listed for this sale were estimated using the Inventory Manager computer program and the new Michigan taper model.

See sale spec 4.1.12 for road restrictions.

## TIMBER SALE INFORMATION

Gnome Homes Hardwood (12-005-22)

T44N, R28W, SEC. 26; T44N, R28W, SEC. 27; T44N, R28W, SEC. 34; T44N, R28W, SEC. 35.

Dickinson County (Advertised Price \$41,875.85)

SALE NOTE: All units of volume listed for this sale were estimated using the Inventory Manager computer program and the new Michigan taper model.

See sale spec 4.1.12 for road restrictions.

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                     |                         |                         |
| Basswood                      | 203.3 MBF               | \$ 36.00 / MBF          |
| Red Maple                     | 13.4 MBF                | \$ 91.00 / MBF          |
| Sugar Maple                   | 73.7 MBF                | \$ 167.00 / MBF         |
| White Ash                     | 11.2 MBF                | \$ 37.00 / MBF          |
| Pulpwood                      |                         |                         |
| Balsam Fir                    | 99 Cords                | \$ 4.35 / Cord          |
| Basswood                      | 223 Cords               | \$ 2.95 / Cord          |
| Mixed Hardwood                | 1,378 Cords             | \$ 10.55 / Cord         |
| Mixed Spruce                  | 49 Cords                | \$ 5.35 / Cord          |
| Quaking Aspen                 | 234 Cords               | \$ 20.20 / Cord         |

\* The total volume is statistically estimated within plus (+) or minus (-) 4.80 percent. There are an estimated 2,750 cords on this timber sale, plus or minus 132 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 \$3,350.07 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                         | 13.2%                              |
| 02                         | 11.2%                              |
| 03                         | 11.8%                              |
| 04                         | 10.0%                              |
| 05                         | 21.8%                              |
| 06                         | 17.0%                              |
| 07                         | 15.0%                              |

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2027.

### **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 |
| 217,224          | 2,750       | 4.80%         | 2,618                      | 2,882   |

## 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      |
| 14            | 12,789           | 162          | 17.99%        | 133            | 191          |
| 17            | 52,082           | 659          | 8.08%         | 606            | 713          |
| 19            | 38,091           | 482          | 14.42%        | 413            | 552          |
| 49            | 114,262          | 1,446        | 6.54%         | 1,352          | 1,541        |
| <b>TOTAL:</b> | <b>217,224</b>   | <b>2,750</b> |               | <b>2,503</b>   | <b>2,996</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     |
|---------------|--------------|----|--------------|
| 14            | 18.0         | 4  | 18.0         |
| 17            | 56.1         | 2  | 27.2         |
|               |              | 3  | 28.9         |
| 19            | 15.3         | 1  | 15.3         |
| 49            | 99.8         | 5  | 40.3         |
|               |              | 6  | 31.6         |
|               |              | 7  | 27.9         |
| <b>TOTAL:</b> | <b>189.2</b> |    | <b>189.2</b> |

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

| PU | MARKET GROUP        | PRODUCT          | QUANTITY | UNIT         | ACRES | ADVERTISE PRICE |
|----|---------------------|------------------|----------|--------------|-------|-----------------|
| 1  | Sugar Maple         | Sawtimber        | 0.9      | MBF          | 15.3  | \$5,528.20      |
|    | Balsam Fir          | Pulpwood         | 70       | Cords        |       |                 |
|    | Mixed Hardwood      |                  | 263      | Cords        |       |                 |
|    | <i>Paper Birch</i>  |                  | 6        | <i>Cords</i> |       |                 |
|    | <i>Red Maple</i>    |                  | 117      | <i>Cords</i> |       |                 |
|    | <i>Sugar Maple</i>  |                  | 140      | <i>Cords</i> |       |                 |
|    | Mixed Spruce        |                  | 37       | Cords        |       |                 |
|    | <i>Black Spruce</i> |                  | 4        | <i>Cords</i> |       |                 |
|    | <i>White Spruce</i> |                  | 33       | <i>Cords</i> |       |                 |
|    | Quaking Aspen       |                  | 104      | Cords        |       |                 |
|    |                     |                  |          |              |       |                 |
| 2  | Red Maple           | Sawtimber        | 1.9      | MBF          | 27.2  | \$4,676.55      |
|    | Sugar Maple         |                  | 8.0      | MBF          |       |                 |
|    | Mixed Hardwood      | Pulpwood         | 257      | Cords        |       |                 |
|    | <i>Paper Birch</i>  | <i>Sawtimber</i> | 3.6      | <i>MBF</i>   |       |                 |
|    | <i>Ironwood</i>     | <i>Pulpwood</i>  | 10       | <i>Cords</i> |       |                 |
|    | <i>Paper Birch</i>  |                  | 11       | <i>Cords</i> |       |                 |
|    | <i>Red Maple</i>    |                  | 54       | <i>Cords</i> |       |                 |
|    | <i>Sugar Maple</i>  |                  | 175      | <i>Cords</i> |       |                 |
|    | Mixed Spruce        |                  | 6        | Cords        |       |                 |
|    | <i>White Spruce</i> |                  | 6        | <i>Cords</i> |       |                 |
|    | Quaking Aspen       |                  | 21       | Cords        |       |                 |
| 3  | Red Maple           | Sawtimber        | 2.1      | MBF          | 28.9  | \$4,956.70      |
|    | Sugar Maple         |                  | 8.5      | MBF          |       |                 |
|    | Mixed Hardwood      | Pulpwood         | 272      | Cords        |       |                 |
|    | <i>Paper Birch</i>  | <i>Sawtimber</i> | 3.8      | <i>MBF</i>   |       |                 |
|    | <i>Ironwood</i>     | <i>Pulpwood</i>  | 10       | <i>Cords</i> |       |                 |
|    | <i>Paper Birch</i>  |                  | 11       | <i>Cords</i> |       |                 |
|    | <i>Red Maple</i>    |                  | 58       | <i>Cords</i> |       |                 |
|    | <i>Sugar Maple</i>  |                  | 185      | <i>Cords</i> |       |                 |
|    | Mixed Spruce        |                  | 6        | Cords        |       |                 |
|    | <i>White Spruce</i> |                  | 6        | <i>Cords</i> |       |                 |
|    | Quaking Aspen       |                  | 22       | Cords        |       |                 |
| 4  | Red Maple           | Sawtimber        | 2.5      | MBF          | 18.0  | \$4,208.45      |
|    | Sugar Maple         |                  | 16.6     | MBF          |       |                 |
|    | Mixed Hardwood      | Pulpwood         | 105      | Cords        |       |                 |
|    | <i>Red Maple</i>    |                  | 20       | <i>Cords</i> |       |                 |
|    | <i>Sugar Maple</i>  |                  | 85       | <i>Cords</i> |       |                 |
|    | Quaking Aspen       |                  | 5        | Cords        |       |                 |
| 5  | Basswood            | Sawtimber        | 82.1     | MBF          | 40.3  | \$9,094.15      |
|    | Red Maple           |                  | 2.8      | MBF          |       |                 |
|    | Sugar Maple         |                  | 16.0     | MBF          |       |                 |
|    | White Ash           |                  | 4.6      | MBF          |       |                 |
|    | Balsam Fir          | Pulpwood         | 12       | Cords        |       |                 |
|    | Basswood            |                  | 90       | Cords        |       |                 |
|    | Mixed Hardwood      |                  | 195      | Cords        |       |                 |
|    | <i>Yellow Birch</i> | <i>Sawtimber</i> | 0.9      | <i>MBF</i>   |       |                 |
|    | <i>Red Maple</i>    | <i>Pulpwood</i>  | 38       | <i>Cords</i> |       |                 |
|    | <i>Sugar Maple</i>  |                  | 147      | <i>Cords</i> |       |                 |
|    | <i>White Ash</i>    |                  | 7        | <i>Cords</i> |       |                 |
|    | <i>Yellow Birch</i> |                  | 1        | <i>Cords</i> |       |                 |
|    | Quaking Aspen       |                  | 33       | Cords        |       |                 |
|    |                     |                  |          |              |       |                 |
| 6  | Basswood            | Sawtimber        | 64.4     | MBF          | 31.6  | \$7,129.70      |
|    | Red Maple           |                  | 2.2      | MBF          |       |                 |
|    | Sugar Maple         |                  | 12.6     | MBF          |       |                 |
|    | White Ash           |                  | 3.5      | MBF          |       |                 |

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

| PU      | MARKET GROUP   | PRODUCT   | QUANTITY | UNIT  | ACRES | ADVERTISE PRICE |
|---------|----------------|-----------|----------|-------|-------|-----------------|
| 6 con't | Balsam Fir     | Pulpwood  | 9        | Cords |       |                 |
|         | Basswood       |           | 71       | Cords |       |                 |
|         | Mixed Hardwood |           | 152      | Cords |       |                 |
|         | Yellow Birch   |           | 0.7      | MBF   |       |                 |
|         | Red Maple      |           | 29       | Cords |       |                 |
|         | Sugar Maple    |           | 115      | Cords |       |                 |
|         | White Ash      |           | 6        | Cords |       |                 |
|         | Yellow Birch   |           | 1        | Cords |       |                 |
|         | Quaking Aspen  |           | 26       | Cords |       |                 |
| 7       | Basswood       | Sawtimber | 56.8     | MBF   | 27.9  | \$6,282.10      |
|         | Red Maple      |           | 1.9      | MBF   |       |                 |
|         | Sugar Maple    |           | 11.1     | MBF   |       |                 |
|         | White Ash      |           | 3.1      | MBF   |       |                 |
|         | Balsam Fir     | Pulpwood  | 8        | Cords |       |                 |
|         | Basswood       |           | 62       | Cords |       |                 |
|         | Mixed Hardwood |           | 134      | Cords |       |                 |
|         | Yellow Birch   |           | 0.6      | MBF   |       |                 |
|         | Red Maple      |           | 26       | Cords |       |                 |
|         | Sugar Maple    |           | 101      | Cords |       |                 |
|         | White Ash      |           | 5        | Cords |       |                 |
|         | Yellow Birch   |           | 1        | Cords |       |                 |
|         | Quaking Aspen  |           | 23       | Cords |       |                 |
|         | TOTAL:         |           |          | 301.6 |       |                 |
| TOTAL:  |                |           | 1,983    | Cords |       |                 |

## **Sale Specific Conditions & Requirements**

**Sale Name: Gnome Homes Hardwood**

**Sale Number: 12-005-22 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 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 and Payment Unit line trees are not Included Timber and are to be protected unless marked with orange paint.

### **2 - Timber Specifications**

#### **2.1 - Included Timber**

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

Within Payment Unit(s) 2-7, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability. In addition, within Payment Units 5-7, all aspen is designated for harvest except aspen marked with an orange X.

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

Within Payment Unit(s) 1, cut all trees that are two (2) inches or more at DBH, except cedar, hemlock, oak, white pine, red pine (if found) and trees marked with green paint above and below stump height. In addition, retain live clumps of 1 stick and less balsam and spruce, as available.

#### **2.2 - Utilization**

##### **2.2.5 - Limbed tree skidding (1/09)**

The skidding of whole trees or tree segments with limbs attached is prohibited in Payment Units 2-7.

### **3 - Payments**

#### **3.3 - Pre-measured Sales**

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

Payment Unit(s) 5 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**

##### **4.1.12 - No new roads (1/12)**

No new roads will be permitted in Payment Unit 1. All operations are limited to existing roads. Skid trails only will be allowed.

#### **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 break up or excessively wet weather periods.

#### **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 all Payment Units and Aimone Road. Dickinson County Road Commission may require a permit.

## **5 - Operations**

### **5.2 - Conduct of Operations**

#### **5.2.3 - Operating Restrictions**

##### **5.2.3.3 - Bark slippage restriction (3/09)**

Within Payment Unit(s) 2-7, unless changed by written agreement, cutting and skidding are not permitted during the period of April 1 to July 15. This restriction is because of bark slippage.

#### **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, cutting, skidding, and hauling occur during dry summer or frozen winter conditions. The reason for the recommendation is because of some shallow soils, particularly in the south portion.

#### **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.

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

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

### **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 approximately 350 feet from the Sale Area in both directions 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 |
|-------------|------|
| 005         | 2022 |

| Forest Management Unit        | County        | Mapped By      | Date    | Page | of |
|-------------------------------|---------------|----------------|---------|------|----|
| Crystal Falls Management Unit | Dickinson Co. | Debbie Goupell | 2/18/22 | 1    | 1  |
| Cruised By                    |               |                |         |      |    |
| Debbie Goupell                |               |                |         |      |    |

| Township | Range | Section(s) and Subdivision(s)   | Scale    |
|----------|-------|---|----------|
| 44N      | 28W   | S26: SW1/4, W1/2SE, NWNW<br>S27: E1/2NE, SWNE, NW1/4, NESW, NWSE S34: NENE S35: NW1/4 | 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 = 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    |

| Unit | Acres | Unit | Acres |
|------|-------|------|-------|
| 1    | 15.3  | 5    | 40.3  |
| 2    | 27.2  | 6    | 31.6  |
| 3    | 28.9  | 7    | 27.9  |
| 4    | 18.0  |      |       |

## Gnome Homes Hardwood Compartment 34 189.2 Acres

