



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7155**

SCHEDULED SALE DATE AND TIME: **3:00 p.m. (local time) on May 31, 2023.**

LOCATION: **BALDWIN OFFICE, 2468 W 24TH STREET, BALDWIN, MI 49304.**

CONTACT NAME: David Flsher

PHONE NUMBER: (231) 745-4651

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

Deadstream Crossing Mix (63-002-22) / T24N, R05W, SEC. 21, NE, NESW, SE.

T24N, R05W, SEC. 22, SWNW, SW.

T24N, R05W, SEC. 27, N1/2NW, NWNE.

T24N, R05W, SEC. 28, N1/2NE.

Missaukee County, Advertised Price \$330,095.40, 309.9 Acres, Aspen, Hardwood.

SALE NOTE: This sale involves the installation of two temporary DNR owned portable bridges. Once the sale is under contract, the DNR will begin the process on setting these two bridges along with associated composite mats.

Access may be through other public land.

## TIMBER SALE INFORMATION

### Deadstream Crossing Mix (63-002-22)

T24N, R05W, SEC. 21; T24N, R05W, SEC. 22; T24N, R05W, SEC. 27; T24N, R05W, SEC. 28.

Missaukee County (Advertised Price \$330,095.40)

**SALE NOTE:** This sale involves the installation of two temporary DNR owned portable bridges. Once the sale is under contract, the DNR will begin the process of setting these two bridges along with associated composite mats.

Access may be through other public land.

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			
Balsam Fir	60.4	MBF	\$ 44.00 / MBF
Black Cherry	183.0	MBF	\$ 187.00 / MBF
Mixed Aspen	431.2	MBF	\$ 98.00 / MBF
Paper Birch	16.2	MBF	\$ 45.00 / MBF
Red Maple	262.9	MBF	\$ 92.00 / MBF
Sugar Maple	24.7	MBF	\$ 278.00 / MBF
White Pine	21.4	MBF	\$ 83.00 / MBF
Pulpwood			
Balsam Fir	1,928	Cords	\$ 32.55 / Cord
Basswood	38	Cords	\$ 18.55 / Cord
Mixed Aspen	3,835	Cords	\$ 26.80 / Cord
Mixed Hardwood	1,725	Cords	\$ 19.30 / Cord
Paper Birch	136	Cords	\$ 18.15 / Cord
White Pine	770	Cords	\$ 18.40 / Cord
White Spruce	52	Cords	\$ 23.70 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 6.24 percent. There are an estimated 10,574 cords on this timber sale, plus or minus 661 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 \$16,504.77 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	27.4%
02	16.2%
03	17.4%
04	10.0%
05	2.1%
06	26.9%

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
835,364	10,574	6.24%	9,913	11,235

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
2	208,201	2,635	13.06%	2,291	2,980
22	101,826	1,289	21.51%	1,012	1,566
47	525,337	6,650	7.40%	6,158	7,142
TOTAL:	835,364	10,574		9,461	11,688

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
2	75.0	6	75.0
22	48.9	4	40.3
		5	8.6
47	186.0	1	83.5
		2	49.5
		3	53.0
TOTAL:	309.9		309.9

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Balsam Fir	Sawtimber	27.1	MBF	83.5	\$90,350.60
	<i>Balsam Fir</i>		26.4	<i>MBF</i>		
	<i>Tamarack</i>		0.7	<i>MBF</i>		
	Black Cherry		70.8	MBF		
	Mixed Aspen		30.8	MBF		
	<i>B. T. Aspen</i>		30.8	<i>MBF</i>		
	Paper Birch	Pulpwood	2.5	MBF		
	Red Maple		91.8	MBF		
	Balsam Fir		609	Cords		
	<i>Balsam Fir</i>		606	<i>Cords</i>		
	<i>Tamarack</i>		3	<i>Cords</i>		
	Mixed Aspen		1,073	Cords		
	<i>B. T. Aspen</i>		753	<i>Cords</i>		
	<i>Quaking Aspen</i>		320	<i>Cords</i>		
	Mixed Hardwood		530	Cords		
	<i>Black Cherry</i>		167	<i>Cords</i>		
	<i>Red Maple</i>		363	<i>Cords</i>		
	Paper Birch		41	Cords		
	White Pine		250	Cords		
	White Spruce		8	Cords		
2	Balsam Fir	Sawtimber	16.0	MBF	49.5	\$53,526.00
	<i>Balsam Fir</i>		15.6	<i>MBF</i>		
	<i>Tamarack</i>		0.4	<i>MBF</i>		
	Black Cherry		42.0	MBF		
	Mixed Aspen		18.2	MBF		
	<i>B. T. Aspen</i>		18.2	<i>MBF</i>		
	Paper Birch	Pulpwood	1.5	MBF		
	Red Maple		54.4	MBF		
	Balsam Fir		360	Cords		
	<i>Balsam Fir</i>		359	<i>Cords</i>		
	<i>Tamarack</i>		1	<i>Cords</i>		
	Mixed Aspen		635	Cords		
	<i>B. T. Aspen</i>		446	<i>Cords</i>		
	<i>Quaking Aspen</i>		189	<i>Cords</i>		
	Mixed Hardwood		316	Cords		
	<i>Black Cherry</i>		100	<i>Cords</i>		
	<i>Red Maple</i>		216	<i>Cords</i>		
	Paper Birch		24	Cords		
	White Pine		148	Cords		
	White Spruce		5	Cords		
3	Balsam Fir	Sawtimber	17.3	MBF	53.0	\$57,344.75
	<i>Balsam Fir</i>		16.8	<i>MBF</i>		
	<i>Tamarack</i>		0.5	<i>MBF</i>		
	Black Cherry		45.0	MBF		
	Mixed Aspen		19.5	MBF		
	<i>B. T. Aspen</i>		19.5	<i>MBF</i>		
	Paper Birch	Pulpwood	1.6	MBF		
	Red Maple		58.3	MBF		
	Balsam Fir		385	Cords		
	<i>Balsam Fir</i>		384	<i>Cords</i>		
	<i>Tamarack</i>		1	<i>Cords</i>		
	Mixed Aspen		681	Cords		
	<i>B. T. Aspen</i>		478	<i>Cords</i>		
	<i>Quaking Aspen</i>		203	<i>Cords</i>		
	Mixed Hardwood		338	Cords		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
3 con't	<i>Black Cherry</i>	<i>Pulpwood</i>	107	<i>Cords</i>		
	<i>Red Maple</i>		231	<i>Cords</i>		
	Paper Birch		26	Cords		
	White Pine		159	Cords		
	White Spruce		5	Cords		
4	Black Cherry	Sawtimber	20.8	MBF	40.3	\$33,062.95
	Mixed Aspen		55.4	MBF		
	<i>B. T. Aspen</i>		30.4	<i>MBF</i>		
	<i>Quaking Aspen</i>		25.0	<i>MBF</i>		
	Paper Birch		8.7	MBF		
	Red Maple	Pulpwood	28.8	MBF		
	Balsam Fir		209	Cords		
	<i>Balsam Fir</i>		209	<i>Cords</i>		
	Basswood		31	Cords		
	Mixed Aspen		276	Cords		
	<i>B. T. Aspen</i>		236	<i>Cords</i>		
	<i>Quaking Aspen</i>		40	<i>Cords</i>		
	Mixed Hardwood		194	Cords		
	<i>Black Cherry</i>		21	<i>Cords</i>		
	<i>Red Maple</i>		173	<i>Cords</i>		
	Paper Birch		27	Cords		
	White Pine		56	Cords		
	White Spruce		28	Cords		
5	Black Cherry	Sawtimber	4.4	MBF	8.6	\$7,047.30
	Mixed Aspen		11.8	MBF		
	<i>B. T. Aspen</i>		6.5	<i>MBF</i>		
	<i>Quaking Aspen</i>		5.3	<i>MBF</i>		
	Paper Birch		1.9	MBF		
	Red Maple	Pulpwood	6.2	MBF		
	Balsam Fir		45	Cords		
	<i>Balsam Fir</i>		45	<i>Cords</i>		
	Basswood		7	Cords		
	Mixed Aspen		58	Cords		
	<i>B. T. Aspen</i>		50	<i>Cords</i>		
	<i>Quaking Aspen</i>		8	<i>Cords</i>		
	Mixed Hardwood		41	Cords		
	<i>Black Cherry</i>		4	<i>Cords</i>		
	<i>Red Maple</i>		37	<i>Cords</i>		
	Paper Birch		6	Cords		
	White Pine		12	Cords		
	White Spruce		6	Cords		
6	Mixed Aspen	Sawtimber	295.5	MBF	75.0	\$88,763.80
	<i>B. T. Aspen</i>		295.5	<i>MBF</i>		
	Red Maple		23.4	MBF		
	Sugar Maple	Pulpwood	24.7	MBF		
	White Pine		21.4	MBF		
	Balsam Fir		320	Cords		
	<i>Balsam Fir</i>		320	<i>Cords</i>		
	Mixed Aspen		1,112	Cords		
	<i>B. T. Aspen</i>		1,112	<i>Cords</i>		
	Mixed Hardwood		306	Cords		
	<i>Black Cherry</i>		35	<i>Cords</i>		
	<i>Red Maple</i>		228	<i>Cords</i>		
	<i>Sugar Maple</i>		43	<i>Cords</i>		
	Paper Birch		12	Cords		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
6 con't	White Pine	Pulpwood	145	Cords		
TOTAL:			999.8	MBF		
TOTAL:			8,484	Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: Deadstream Crossing Mix**

**Sale Number: 63-002-22 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 (see map for locations). 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) 1-4, cut all trees that are two (2) inches or more at DBH except leave all white and red pine 12 inches in diameter and greater. As well leave all cedar and hemlock regardless of size.

##### **2.1.2 - Clearcut unit(s) w/o unmerchantable trees (8/11)**

Within Payment Unit(s) 5 and 6, cut all trees which meet minimum piece specifications in 2.2 Utilization except leave all white and red pine 20 inches in diameter and greater. As well leave all cedar and hemlock regardless of size.

### **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. There will be only one division per Payment Unit.

### **4 - Transportation**

#### **4.1 - Construction**

##### **4.1.2 - Stream crossings, specific (3/11)**

The Deadstream and Addis creek crossings will require the installation of portable bridges. The portable bridge installation will be performed in accordance with the specifications on the appropriate permits which shall be provided by the DNR. Once sale is purchased the contract holder and timber sale administrator will coordinate the timing of the bridge installations to provide access the sale. Once bridges are installed, they will be left in place for a reasonable span of time for all harvesting operations to be completed. The installation and removal of the portable bridges will be performed 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, or shall be chipped, utilized or otherwise removed from the sale. 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. All new roads built into the sale must be blocked to vehicle traffic within 30 days of completion of hauling. 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.

#### 4.1.8 - Road work (1) (8/07)

The following sale will require some overgrown road work as well as construction of new logging roads. This work will require a bulldozer. Call local forester for more details on the location if this work.

### 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 on site 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 at least 10 days 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 30 days prior to operating equipment in the vicinity of well heads or natural gas pipelines. Written permission is required before harvest operations begin and must be submitted to the Unit Manager. Contact forester for more details on this.

#### 5.1.4 - Post-sale conference (10/16)

A post-sale conference on site between the Purchaser and sale administrator is required 3 days prior to the completion of active logging operations to determine clean-up and repair of landings, road edges, and the fulfillment of other contract specifications.

#### 5.1.6 - Utility R.O.W. (4/19)

It is the responsibility of the Purchaser to obtain permission from the utility company to utilize the pipeline R.O.W. for operations. There are multiple pipelines in this area that will need to be crossed with log truck traffic and will need protection at the pipeline company's specs. Producer will need to coordinate with pipeline companies along with the DNR on pipeline crossings requirements and exact locations of said crossings. Pipeline companies involved in sale are the following: Consumers, Trans Canada, Missaukee Oil and Gas and Wolverine, NGL. Contact Manton office for more info if needed.

### 5.2 - Conduct of Operations

#### 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) 1-6, unless changed by written agreement, cutting, skidding, and hauling are limited to dry summer conditions or frozen winter. This restriction is because of the seasonally wet nature of this area and its access roads.

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

Timber harvesting in any Payment Unit 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. If it is anticipated that chipping will be delayed, then tops shall be carried to one central location or left unchipped. The Unit Manager or his/her representative may cease such operations if sprouting occurs before the operation is complete.



#### 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 10 inch diameter or larger log size pieces on the ground for every four acres. They should be scattered throughout the sale or positioned per the sale administrators instructions. They can be of any tree species and can be an un-merchantable piece of wood or a full tree.

##### 5.2.17 - Timber Mats and Interlocking Composite Mats (10/20)

The haul road will require the use interlocking composite mats. Approximately 420 feet of haul road will need composite mat protection at location shown on the Timber Sale Map. Mats will be made available by the DNR. A Timber Sale Contract Supplement will be used to document the Purchaser's use of the DNR's mats. Contact the sale administrator regarding availability and pick-up. Composite mats are only available from the Roscommon CSC. The Purchaser is responsible for picking up and hauling the mats to and from the site. The composite mats will require DNR staff onsite for installation and removal. Contact the sale administrator to schedule at least 30 days before desired install/removal date. All mats must be cleaned prior to drop off. This may include, but is not limited to, power washing and brushing to remove mud and debris. A charge of \$700.00 per timber mat and \$2,000.00 per composite mat will be assessed for all damaged or non-returned mats. Damage for the crane/timber mats is defined as three or more broken cants. Damage for the composite mats is defined as cracked or broken mats.

#### 5.3 - Stream Protection

##### 5.3.1 - Operating near stream (7/04)

No tracked or wheeled vehicles shall be operated within 100 feet of dead stream creek, except at an approved crossing. This crossing will have a DNR provided temporary bridge.

#### 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. 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.

### 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 the main timber access 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
63-002-22	22

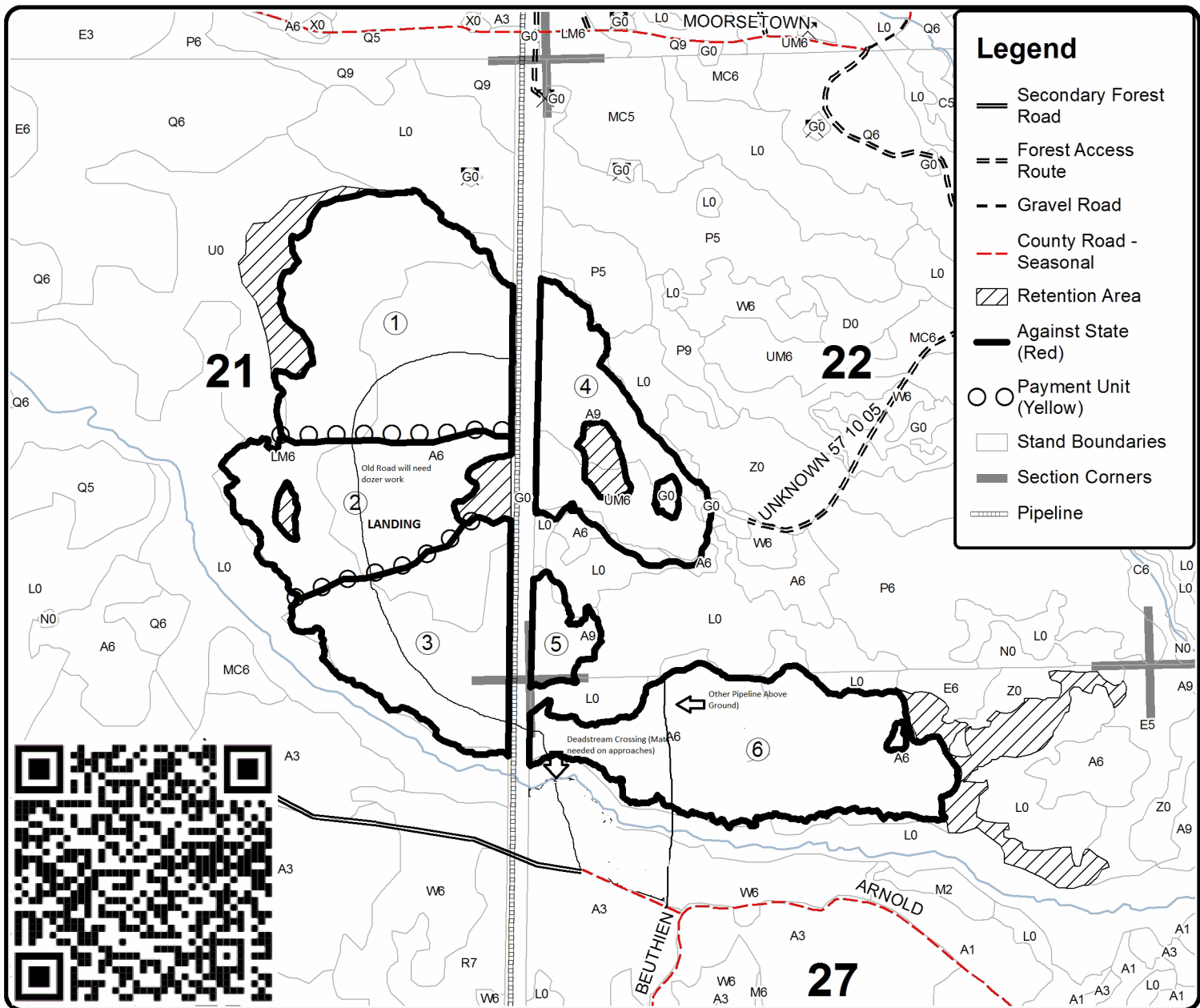
Forest Management Unit	County	Mapped By	Date	Page	of
Cadillac	Missaukee	Ventimiglia	05/20/22	1	1
Township	Range	Section(s) and Subdivision(s)	Scale		
24N	05W	Sections 21, 22, 28 and 27	1:15,830		

Cover Type				Density	
A = Aspen	H = Hemlock	N = Marsh	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
B = Paper Birch	J = Jack Pine	O = Oak	UM = Upland Mixed	1 = Seedling Sapling Poor	6 = Pole Timber Well
C = Cedar	L = Lowland Brush	P = Lowland Poplar	V = Bog or Marsh	2 = Seedling Sapling Medium	7 = Saw Timber Poor
D = Treed Bog	LM = Lowland Mixed	Q = Mixed Swamp Conifer	W = White Pine	3 = Seedling Sapling Well	8 = Saw Timber Medium
E = Swamp Hdwoods	M = Mpl, Bch, Brch	R = Red Pine	X = Non Stocked	4 = Pole Timber Poor	9 = Saw Timber Well
F = Spruce Fir	MC = Mixed Conifer	S = Black Spruce	Z = Water		
G = Grass	MD = Mixed Deciduous	T = Tamarack			

PU	Acres	PU	Acres
1	83.5	4	40.3
2	49.5	5	8.6
3	53	6	75

## Deadstream Crossing Mix

Compartment 81,84,83  
309.9 Acres



0 0.125 0.25 0.5 0.75 1 Miles

Access from south. Two DNR installed temp bridges needed for access.