



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6960

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on December 9, 2021.**

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

CONTACT NAME: Brad Carlson

PHONE NUMBER: (906) 353-6651

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

Blind Bear Hardwoods (11-009-21) / T52N, R36W, SEC. 1 , W1/2NW.

T52N, R36W, SEC. 11, SESE.

T52N, R36W, SEC. 12, SWSW.

T52N, R36W, SEC. 2 , N1/2NW, SENW, NE, NESW, NESE.

Houghton County, Advertised Price \$65,651.95, 240.0 Acres, Hardwood, Red Oak.

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

TIMBER SALE INFORMATION

Blind Bear Hardwoods (11-009-21)

T52N, R36W, SEC. 1; T52N, R36W, SEC. 11; T52N, R36W, SEC. 12; T52N, R36W, SEC. 2.
Houghton County (Advertised Price \$65,651.95)

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

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		
Red Maple	177.5 MBF	\$ 65.00 / MBF
Red Oak	188.8 MBF	\$ 61.00 / MBF
Sugar Maple	227.7 MBF	\$ 154.00 / MBF
White Ash	20.1 MBF	\$ 41.00 / MBF
Yellow Birch	3.6 MBF	\$ 29.00 / MBF
Pulpwood		
Balsam Fir	3 Cords	\$ 2.85 / Cord
Mixed Hardwood	994 Cords	\$ 4.30 / Cord
Red Oak	164 Cords	\$ 14.15 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 3.74 percent. There are an estimated 2,651 cords on this timber sale, plus or minus 99 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 \$5,000.00 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	8.4%
02	14.9%
03	8.9%
04	12.4%
05	12.1%
06	14.4%
07	12.5%
08	6.7%
09	6.6%
10	3.1%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 06/30/2025.

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
209,395	2,651	3.74%	2,551	2,750

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
1	13,473	171	13.86%	147	194
2	24,223	307	9.06%	279	334
3	14,703	186	8.99%	169	203
4	27,232	345	12.87%	300	389
5	27,998	354	10.34%	318	391
6	27,495	348	8.49%	319	378
7	25,529	323	7.25%	300	347
8	8,766	111	12.34%	97	125
9	10,908	138	22.57%	107	169
10	9,176	116	18.72%	94	138
TOTAL:	189,502	2,399		2,130	2,667

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
1	19.2	1	19.1
		5	0.1
2	31.2	2	31.1
		4	0.1
3	17.6	2	0.1
		3	17.4
		8	0.1
4	36.5	2	0.1
		3	0.2
		4	35.9
		5	0.1
		7	0.2
		1	0.1
5	29.0	4	0.1
		5	28.6
		6	0.1
		7	0.1
		5	0.1
		6	26.1
6	26.3	7	0.1
		4	0.1
		7	35.1
7	35.2	7	0.1
		8	13.9
8	14.0	9	16.4
9	16.4	10	14.6
10	14.6		
TOTAL:	240.0		240.0

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Maple	Sawtimber	0.1	MBF	19.2	\$5,526.90
	Red Oak		0.1	MBF		
	Sugar Maple		32.4	MBF		
	White Ash		2.1	MBF		
	Mixed Hardwood	Pulpwood	102	Cords		
	<i>Red Maple</i>		7	<i>Cords</i>		
	<i>Sugar Maple</i>		87	<i>Cords</i>		
	<i>White Ash</i>		8	<i>Cords</i>		
2	Red Maple	Sawtimber	10.0	MBF	31.3	\$9,719.65
	Red Oak		28.5	MBF		
	Sugar Maple		40.7	MBF		
	White Ash		4.5	MBF		
	Yellow Birch		3.6	MBF		
	Mixed Hardwood	Pulpwood	111	Cords		
	<i>Red Maple</i>		16	<i>Cords</i>		
	<i>Sugar Maple</i>		86	<i>Cords</i>		
	<i>White Ash</i>		5	<i>Cords</i>		
	<i>Yellow Birch</i>		4	<i>Cords</i>		
	Red Oak		21	Cords		
3	Red Maple	Sawtimber	10.8	MBF	17.6	\$5,863.45
	Red Oak		14.3	MBF		
	Sugar Maple		23.1	MBF		
	Mixed Hardwood	Pulpwood	55	Cords		
	<i>Red Maple</i>		14	<i>Cords</i>		
	<i>Sugar Maple</i>		41	<i>Cords</i>		
	Red Oak		35	Cords		
4	Red Maple	Sawtimber	33.2	MBF	36.2	\$8,166.40
	Red Oak		54.7	MBF		
	Sugar Maple		9.0	MBF		
	White Ash		7.8	MBF		
	Mixed Hardwood	Pulpwood	93	Cords		
	<i>Red Maple</i>		51	<i>Cords</i>		
	<i>Sugar Maple</i>		22	<i>Cords</i>		
	<i>White Ash</i>		20	<i>Cords</i>		
5	Red Maple	Sawtimber	40.6	MBF	28.9	\$7,922.15
	Red Oak		41.7	MBF		
	Sugar Maple		11.3	MBF		
	White Ash		0.1	MBF		
	Mixed Hardwood	Pulpwood	136	Cords		
	<i>Red Maple</i>		78	<i>Cords</i>		
	<i>Sugar Maple</i>		51	<i>Cords</i>		
	<i>White Ash</i>		7	<i>Cords</i>		
	Red Oak		29	Cords		
6	Red Maple	Sawtimber	28.9	MBF	26.2	\$9,454.05
	Red Oak		6.6	MBF		
	Sugar Maple		39.5	MBF		
	White Ash		5.5	MBF		
	Mixed Hardwood	Pulpwood	178	Cords		
	<i>Red Maple</i>		80	<i>Cords</i>		
	<i>Sugar Maple</i>		96	<i>Cords</i>		
	<i>White Ash</i>		2	<i>Cords</i>		
	Red Oak		7	Cords		
7	Red Maple	Sawtimber	32.3	MBF	35.6	\$8,235.40
	Red Oak		31.3	MBF		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
7 con't	Sugar Maple	Sawtimber	21.5	MBF		
	White Ash		0.1	MBF		
	Mixed Hardwood	Pulpwood	133	Cords		
	Red Maple		66	Cords		
	Sugar Maple		60	Cords		
	White Ash		7	Cords		
	Red Oak		24	Cords		
8	Red Maple	Sawtimber	4.8	MBF	14.0	\$4,403.65
	Red Oak		9.1	MBF		
	Sugar Maple		21.4	MBF		
	Mixed Hardwood	Pulpwood	33	Cords		
	Red Maple		6	Cords		
	Sugar Maple		27	Cords		
	Red Oak		7	Cords		
9	Red Maple	Sawtimber	11.8	MBF	16.4	\$4,347.95
	Red Oak		2.5	MBF		
	Sugar Maple		20.3	MBF		
	Mixed Hardwood	Pulpwood	67	Cords		
	Red Maple		21	Cords		
	Sugar Maple		46	Cords		
	Red Oak		1	Cords		
10	Red Maple	Sawtimber	5.0	MBF	14.6	\$2,012.35
	Sugar Maple		8.5	MBF		
	Balsam Fir	Pulpwood	3	Cords		
	Mixed Hardwood		86	Cords		
	Red Maple		45	Cords		
	Sugar Maple		41	Cords		
TOTAL:			617.7	MBF		
TOTAL:			1,161	Cords		

Sale Specific Conditions & Requirements

Sale Name: Blind Bear Hardwoods

Sale Number: 11-009-21 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 and red 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 red paint. The painted boundary line trees are not Included Timber and are to be protected unless marked with orange paint. Red 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

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

Within Payment Unit(s) 1-10, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability.

2.2 - Utilization

2.2.1 - Utilization (2/04)

All listed board foot volumes of sawlog size products in this contract have been determined using a top diameter inside bark of 10 inches.

2.2.3 - Stump heights (4/07)

Stump heights within the Sale Area shall not exceed 12 inches for trees greater than 10 inches at DBH and 4 inches for trees smaller than 10 inches at DBH. A written waiver of this requirement may be obtained if wet summer weather makes winter logging necessary.

2.2.4 - Skidding length (2/14)

Skidding of unlimbed tops or lengths over 17 feet is not permissible unless approved by the Unit Manager or his/her representative. Skidding of lengths over 17 feet is permissible if the timber sale administrator approves the method and machinery used. If at any point damage exceeds specification 3.4.1, all the remaining wood must be skid in lengths less than 17 feet.

2.2.7 - Uncut designated trees (2/04)

Liquidated damages of \$10.00 per tree will be assessed for every marked tree not cut.

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. This is because excessive woody debris inhibits regeneration.

2.2.11 - Chipping restriction (9/14)

If chipping occurs on this sale, then no woody debris present on the ground at the start of the sale may be chipped. In addition, brush or chips may not be stored or stockpiled on-site for more than 30 days.

3 - Payments

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, extreme care should be taken to avoid damage to tree seedlings and saplings.

4 - Transportation

4.1 - Construction

4.1.1 - Stream crossings, general (3/11)

All stream crossing structures will be temporary and therefore, shall be provided by the Purchaser, and must be removed upon completion of the sale. All permits for stream crossings will be provided by the DNR for crossing on state land.

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.

4.1.5 - Culverts (5/14)

Roads may require the installation of culverts for cross drainage or at natural drainage-ways. If culverts are needed in these locations, their placement will be specified by the sale administrator, and they shall be installed prior to hauling. The culverts shall be new, corrugated metal or plastic gauge. Culverts will be a minimum of 12 inches in diameter and 24 feet in length. If culverts are removed, fill shall be removed from wetland soils as specified. Soils shall be maintained and left in a non-erodible condition, with water bars, seed, fertilizer, mulch, and slash installed as directed by the sale administrator and as specified in the BMP manual. Stream crossing permits, if needed, will be obtained by the DNR for crossing on state land.

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, 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. 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. Contact the sale administrator for specific details of design and placement.

4.2 - Maintenance

4.2.2 - Fill material (4/07)

To maintain roads, fill material may be needed in areas where "holes" exist or may be expected to develop. This fill material should be placed before trucking begins. Contact the sale administrator regarding the availability of onsite sand or gravel from adjacent State-owned lands.

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 bulldozer 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.

4.2.5 - 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

5.2 - 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 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

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 1-10, unless changed by written agreement, cutting and skidding are not permitted during the period of April 15 to July 15. This restriction is because of bark slippage.

5.2.30 - Landing/road top soil protection (2/15)

Top soil on landings and new roads must be removed, stockpiled and saved. Upon completion of the timber sale, soil must be evenly distributed back over the area for revegetation. In addition, the area must be seeded and mulched per instructions of the sale administrator.

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.

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 the Elm River 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.

7 - Other Conditions

7.5 - Loss

7.5.1 - Deteriorating timber (7/09)

The sale area has received damage from emerald ash borer. The Purchaser should harvest the wood as soon as possible. The Department of Natural Resources is held free of responsibility of any further damage or deterioration due to delay in harvesting.

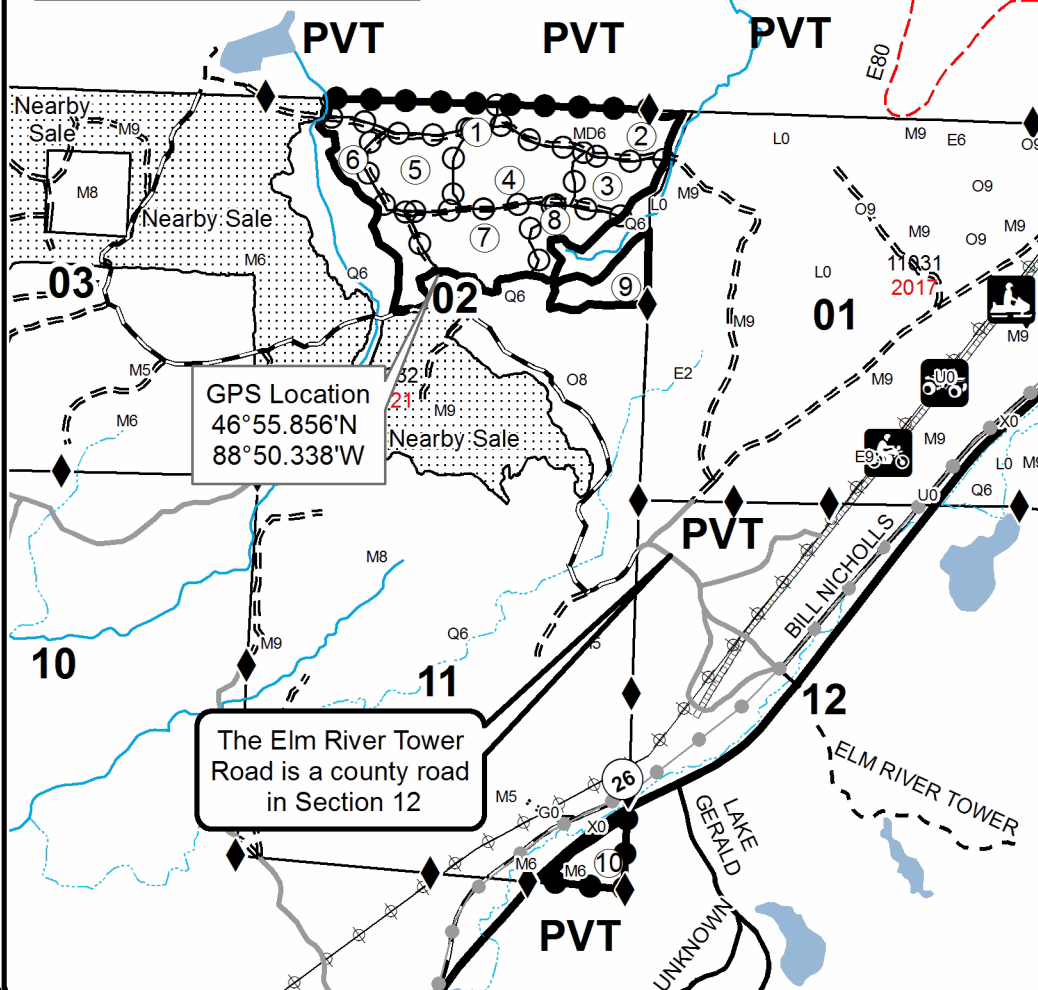
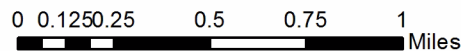
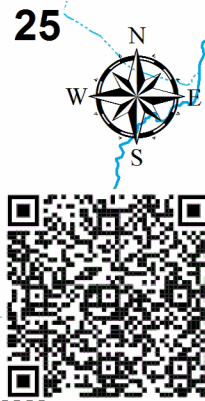
TIMBER SALE MAP

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





Forest Management Unit Baraga		County Houghton	Mapped By Carlson	Date 9/22/21	Page 1	of 1
		Cruised By Mittlestat				
Township 52N	Range 36W	Section(s) and Subdivision(s) Sec 11-SESE; Sec 1-W1/2NW; Sec 2-N1/2NW,SENE,NE,NESW,NESE		Scale 1:31,680		

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			


Blind Bear Hardwoods											
Houghton County, Compartment 32											
UNIT	1	2	3	4	5	6	7	8	9	10	TOTALS
ACRES	19.2	31.3	17.6	36.2	28.9	26.2	35.6	14	16.4	14.6	240.0
Sawlogs MBF											
Red Maple	0.1	10.0	10.8	33.2	40.6	28.9	32.3	4.8	11.8	5.0	177.5
Red Oak	0.1	28.5	14.3	54.7	41.7	6.6	31.3	9.1	2.5	0.0	188.8
Sugar Maple	32.4	40.7	23.1	9.0	11.3	39.5	21.5	21.4	20.3	8.5	227.7
White Ash	2.1	4.5	0.0	7.8	0.1	5.5	0.1	0.0	0.0	0.0	20.1
Yellow Birch	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
TOTAL	34.7	87.3	48.2	104.7	93.7	80.5	85.2	35.3	34.6	13.5	617.7
Pulpwood Cords											
Balsam Fir	0	0	0	0	0	0	0	0	0	3	3
Mixed Hardwood	102	132	90	133	165	185	157	40	68	86	1158
TOTAL	102	132	90	133	165	185	157	40	68	89	1161





Legend









-  Against State (Red)
 Payment Unit (Red)
 Private Line (Blue)
 Survey Corners

Trail Symbols

- 
- Motorcycle Trails**

- 
- ORV Trails

- 
- Snowmobile Trails

-  Primary Forest Road
-  Secondary Forest Road
-  Forest Access Route
-  Paved Road
-  Gravel Road
-  County Road - Seasonal
-  Private
-  Highway
-  Pipeline
-  Powerline
-  Nearby Timber Sales

Locator Map

1:200,000

