



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6836

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on March 16, 2021.**

LOCATION: **ROSCOMMON MGMT UNIT, PO BOX 218, ROSCOMMON, MI 48653.**

CONTACT NAME: Patrick Mohnney

PHONE NUMBER: (989) 275-4622

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

Massasauga Mix (71-014-20) / T21N, R04W, SEC. 18, SENW,SWNE,NESW,N1/2SE.

T21N, R04W, SEC. 7 , N1/2SE,SWSE.

T21N, R04W, SEC. 7 , W1/2NW,S1/2NE,NWSW,SESW.

T21N, R04W, SEC. 8 , SWNW.

Roscommon County, Advertised Price \$62,605.15, 114.3 Acres, Hardwood, Red Pine.

SALE NOTE: 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

Massasauga Mix (71-014-20)

T21N, R04W, SEC. 18; T21N, R04W, SEC. 7; T21N, R04W, SEC. 8.
Roscommon County (Advertised Price \$62,605.15)

SALE NOTE: 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.

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 T-Sale computer program and our traditional volume equations. 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		
Jack Pine	9.8 MBF	\$ 26.00 / MBF
Mixed Oak	196.0 MBF	\$ 75.00 / MBF
Red Pine	175.2 MBF	\$ 94.00 / MBF
White Pine	45.6 MBF	\$ 42.00 / MBF
Pulpwood		
B. T. Aspen	129 Cords	\$ 16.90 / Cord
Balsam Fir	26 Cords	\$ 18.20 / Cord
Jack Pine	96 Cords	\$ 12.90 / Cord
Mixed Oak	517 Cords	\$ 13.85 / Cord
Red Maple	24 Cords	\$ 12.60 / Cord
Red Pine	315 Cords	\$ 36.20 / Cord
White Pine	339 Cords	\$ 19.20 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 9.75 percent. There are an estimated 2,298 cords on this timber sale, plus or minus 224 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 \$3,130.26 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	17.0%
02	26.7%
03	20.1%
04	16.8%
05	8.4%
06	11.0%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 03/31/2023.

SALE STATISTICS

SALE VOLUMES

<u>VOLUME</u>		<u>STATISTICAL RANGE IN CORDS</u>		
<u>TOTAL CUBIC FEET</u>	<u>TOTAL CORDS</u>	<u>PERCENT ERROR</u>	<u>MINIMUM</u>	<u>MAXIMUM</u>
181,539	2,298	9.75%	2,074	2,522

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
121	19,940	252	22.05%	197	308
131	33,085	419	15.61%	353	484
133	19,213	243	23.18%	187	300
140	30,605	387	23.57%	296	479
159	157,510	1,994	12.40%	1,747	2,241
TOTAL:	260,352	3,296		2,780	3,812

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
121	24.8	6	24.8
131	18.4	4	18.4
133	15.6	5	15.6
140	16.5	3	16.5
159	39.0	1	15.1
		2	23.9
TOTAL:	114.3		114.3

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Jack Pine	Sawtimber	0.6	MBF	15.1	\$10,618.50
	Mixed Oak		23.9	MBF		
	<i>Bl/R/Hybrid Oak</i>		23.1	<i>MBF</i>		
	<i>White Oak</i>		0.8	<i>MBF</i>		
	Red Pine		31.6	MBF		
	White Pine		10.7	MBF		
	B. T. Aspen	Pulpwood	24	Cords		
	<i>B. T. Aspen</i>		1.7	<i>MBF</i>		
	<i>B. T. Aspen</i>		21	<i>Cords</i>		
	Jack Pine		12	Cords		
	Mixed Oak		68	Cords		
	<i>Bl/R/Hybrid Oak</i>		65	<i>Cords</i>		
	<i>White Oak</i>		3	<i>Cords</i>		
	Red Maple		4	Cords		
	<i>Red Maple</i>		4	<i>Cords</i>		
	Red Pine		62	Cords		
	White Pine		83	Cords		
2	Jack Pine	Sawtimber	1.0	MBF	23.9	\$16,777.25
	Mixed Oak		37.8	MBF		
	<i>Bl/R/Hybrid Oak</i>		36.6	<i>MBF</i>		
	<i>White Oak</i>		1.2	<i>MBF</i>		
	Red Pine		50.1	MBF		
	White Pine		16.9	MBF		
	B. T. Aspen	Pulpwood	37	Cords		
	<i>B. T. Aspen</i>		2.6	<i>MBF</i>		
	<i>B. T. Aspen</i>		32	<i>Cords</i>		
	Jack Pine		18	Cords		
	Mixed Oak		107	Cords		
	<i>Bl/R/Hybrid Oak</i>		103	<i>Cords</i>		
	<i>White Oak</i>		4	<i>Cords</i>		
	Red Maple		6	Cords		
	<i>Red Maple</i>		6	<i>Cords</i>		
	Red Pine		98	Cords		
	White Pine		132	Cords		
3	Jack Pine	Sawtimber	3.8	MBF	16.5	\$12,562.65
	Mixed Oak		12.8	MBF		
	<i>Bl/R/Hybrid Oak</i>		12.8	<i>MBF</i>		
	Red Pine		60.6	MBF		
	White Pine		3.0	MBF		
	B. T. Aspen	Pulpwood	21	Cords		
	<i>B. T. Aspen</i>		21	<i>Cords</i>		
	Jack Pine		25	Cords		
	Mixed Oak		57	Cords		
	<i>Bl/R/Hybrid Oak</i>		57	<i>Cords</i>		
	Red Pine		109	Cords		
	White Pine		14	Cords		
4	Jack Pine	Sawtimber	4.4	MBF	18.4	\$10,494.95
	Mixed Oak		23.8	MBF		
	<i>Bl/R/Hybrid Oak</i>		23.4	<i>MBF</i>		
	<i>White Oak</i>		0.4	<i>MBF</i>		
	Red Pine		30.7	MBF		
	White Pine		6.9	MBF		
	B. T. Aspen	Pulpwood	31	Cords		
	<i>B. T. Aspen</i>		0.4	<i>MBF</i>		
	<i>B. T. Aspen</i>		30	<i>Cords</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
4 con't	Balsam Fir	Pulpwood	11	Cords		
	Jack Pine		37	Cords		
	Mixed Oak		95	Cords		
	<i>Bl/R/Hybrid Oak</i>		88	Cords		
	<i>White Oak</i>		7	Cords		
	Red Pine		42	Cords		
	White Pine		72	Cords		
5	Mixed Oak	Sawtimber	26.3	MBF	15.6	\$5,256.40
	<i>Bl/R/Hybrid Oak</i>		26.3	<i>MBF</i>		
	Red Pine		2.2	MBF		
	White Pine	Pulpwood	8.1	MBF		
	B. T. Aspen		15	Cords		
	<i>B. T. Aspen</i>		0.4	<i>MBF</i>		
	<i>B. T. Aspen</i>		14	<i>Cords</i>		
	Balsam Fir		15	Cords		
	Jack Pine		4	Cords		
	Mixed Oak		80	Cords		
	<i>Bl/R/Hybrid Oak</i>		80	<i>Cords</i>		
	Red Maple		14	Cords		
	<i>Red Maple</i>		2.4	<i>MBF</i>		
	<i>Red Maple</i>		9	<i>Cords</i>		
	Red Pine		4	Cords		
	White Pine		38	Cords		
6	Mixed Oak	Sawtimber	71.4	MBF	24.8	\$6,878.50
	<i>Bl/R/Hybrid Oak</i>		71.4	<i>MBF</i>		
	Mixed Oak	Pulpwood	110	Cords		
	<i>Bl/R/Hybrid Oak</i>		103	<i>Cords</i>		
	<i>White Oak</i>		7	<i>Cords</i>		
TOTAL:			426.6	MBF		
TOTAL:			1,445	Cords		

Sale Specific Conditions & Requirements

Sale Name: Massasauga Mix

Sale Number: 71-014-20 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. 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, 2, 4, and 5, cut all trees that are two (2) inches or more at DBH, except do not cut trees marked with green paint.

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

Within Payment Unit(s) 3 and 6, cut all trees which meet minimum piece specifications in 2.2 Utilization, except do not cut trees marked in green paint.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within the Sale Area shall not exceed 12 inches for trees greater than 10 inches DBH and 4 inches for trees smaller than 10 inches DBH.

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.

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.

Within Payment Units 3 and 6, if more than 20% of the tree seedlings or saplings (1/4" to 4.5" DBH) within a specified portion of the sale area are damaged, liquidated damages will be assessed at \$300 per acre for all acreage within that specified portion of the sale area that was damaged.

No damage is acceptable to undesignated live merchantable trees. Within the sale area, if more than 5% of trees (> 4.5" DBH) within a specified area of the sale are damaged, liquidated damages will be assessed for all trees damaged. Rates will be in accordance with General Condition and Requirement 3.4 Damaged Timber.

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.

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

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 wet weather conditions.

4.2.3 - Road maintenance (8/13)

The following road maintenance is required: Within 60 days of completion of hauling, or if no hauling occurs for 60 days, the road must be maintained and graded. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. Damages will be assessed if grading/repair does not occur.

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 determine landing and road locations.

5.1.4 - Post-sale conference (10/16)

A post-sale conference on site between the Purchaser and sale administrator is required 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.

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.2 - Slash Removal

5.2.1.2.1 - Slash removal, right-of-way (9/16)

All slash must be removed at least 10 feet from the cleared right-of-way of forest roads.

5.2.1.8 - Slash height (12/08)

No slash or tree tops may exceed 24 inches in height.

5.2.1.11 - Slash for reforestation (5/07)

To facilitate reforestation, Payment Unit(s) 3 and 4 shall be left with slash evenly distributed. Bunched tops within the cutting area shall be broken up and scattered. Stumps shall be cut low to the ground. Processing sites shall not be left with a compacted layer of slash; tops from these sites shall be hauled back into the cut area and scattered.

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 and 2, cutting and skidding are not permitted during the period of May 1 to October 1. This restriction is to protect habitat for the threatened Eastern Massasauga rattlesnake.

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) 4 and 5, leave one, 12" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres. These will be evenly scattered throughout the unit. This can be an unmerchantable piece or a full tree. In addition, the Purchaser must leave 5 large top piles within Payment Units 4 and 5. These piles must consist of multiple tops piled together. Placement of these piles shall be along the Payment Unit's northern swamp boundaries.

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.

5.2.41 - 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. If the trail road is to be used for hauling during the snowmobile season, then a snow covered base must be left on the trail. Maintain a 20 foot wide slash, debris, and rut free zone daily using the snowmobile trail as the centerline. No decking of forest products will be permitted along the snowmobile trail.

6 - Safety and Fire Prevention

6.2 - Signing

6.2.2 - Snowmobile trail posting (8/09)

The Purchaser is responsible for posting and maintaining caution signs on the snowmobile trail prior to beginning operations during the snowmobile season (approximately December 1 to March 31). The trail 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.

**TIMBER SALE MAP**

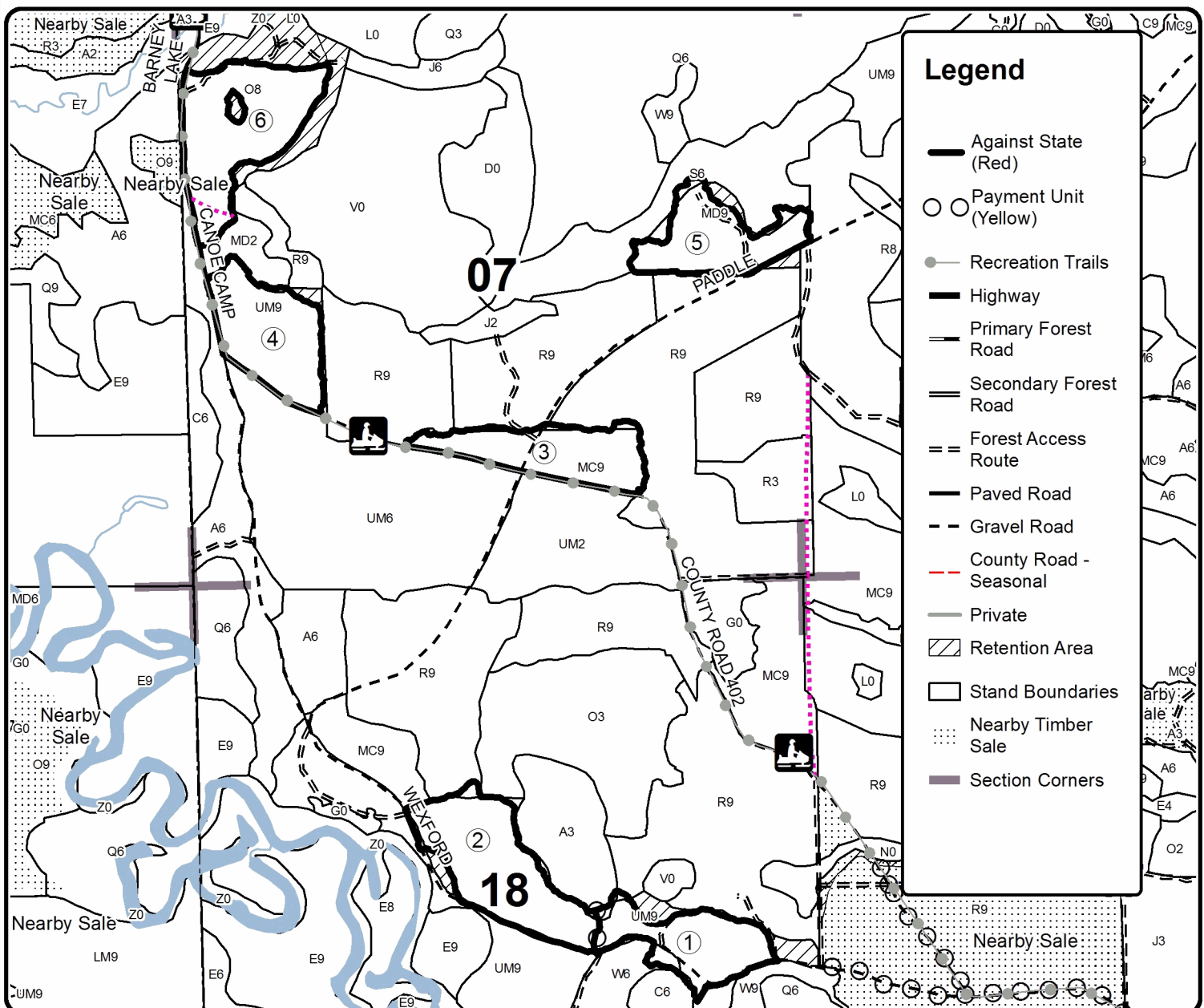
This information provided by authority of Part 525, 1994 PA 451, as amended.

Sale Number	Year
71-014	20

Forest Management Unit	County	Mapped By	Date	Page	of
Roscommon Management Unit	Roscommon	LEWICKI	09/01/2020	1	1
Township	Range	Section(s) and Subdivision(s)	Scale		
21N	04W	Portions of S.7 ; S.8 and S.18 See proposal	1:15,840		

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	15.1	4	18.4
2	23.9	5	15.6
3	16.5	6	24.8

Massasauga Mix
Compartment 13
114.3 Acres

0 0.125 0.25 0.5 0.75 1 Miles