



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6779

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on January 8, 2021.**

LOCATION: **GRAYLING MGMT UNIT, 1955 HARTWICK PINES ROAD, GRAYLING, MI 49738.**

CONTACT NAME: Thomas Barnes

PHONE NUMBER: (989) 348-6371

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

Abandoned Circus Mixed HW's (72-012-20) / T28N, R03W, SEC. 8 , S1/2NW,SENE,N1/2SE,SWSE.

T28N, R03W, SEC. 9 , NENW,SWNW,N1/2NE,SENE.

Crawford County, Advertised Price \$20,210.90, 100.2 Acres, Aspen, Hardwood.

SALE NOTE: Payment Units 1 and 2 are adjacent to a nearby sale where both sides of the boundary trees are marked with red paint where the sales touch.

Sherman Rd is weight restricted if hauling out the road to the south. You can get to the non-restricted portion of Sherman Rd if hauling north through the private drive. Permission must be granted from private landowner to haul out their drive. Gas pipelines and well heads are within the sale vicinity. Contact Linn Operating at 231-922-7302 prior to operations.

Access may be through private land.

TIMBER SALE INFORMATION

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Access may be through private 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 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		
Red Maple	39.0 MBF	\$ 35.00 / MBF
Sugar Maple	24.2 MBF	\$ 117.00 / MBF
Pulpwood		
European Larch	61 Cords	\$ 10.20 / Cord
Jack Pine	1 Cords	\$ 13.50 / Cord
Mixed Aspen	380 Cords	\$ 15.20 / Cord
Mixed Hardwood	438 Cords	\$ 20.70 / Cord
Red Pine	6 Cords	\$ 35.20 / Cord
White Pine	20 Cords	\$ 16.25 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 15.75 percent. There are an estimated 1,033 cords on this timber sale, plus or minus 163 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 \$1,010.55 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.
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

VOLUME			STATISTICAL RANGE IN CORDS	
TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
81,590	1,033	15.75%	870	1,195

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
5	32,927	417	26.13%	308	526
17	8,540	108	17.59%	89	127
19	6,273	79	60.85%	31	128
27	25,533	323	26.41%	238	409
421	8,311	105	64.33%	38	173
TOTAL:	81,583	1,033		703	1,362

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
5	12.8	5	12.8
17	4.8	2	4.8
19	10.8	1	10.8
27	41.8	3	24.8
		4	17.0
421	30.0	2	30.0
TOTAL:	100.2		100.2

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Sugar Maple	Sawtimber	5.3	MBF	10.8	\$1,921.90
	Mixed Aspen	Pulpwood	23	Cords		
	<i>B. T. Aspen</i>	<i>Sawtimber</i>	9.0	<i>MBF</i>		
	<i>B. T. Aspen</i>	<i>Pulpwood</i>	5	<i>Cords</i>		
	Mixed Hardwood		46	Cords		
	<i>Beech</i>	<i>Sawtimber</i>	1.4	<i>MBF</i>		
	<i>Beech</i>	<i>Pulpwood</i>	5	<i>Cords</i>		
	<i>Ironwood</i>		7	<i>Cords</i>		
	<i>Sugar Maple</i>		31	<i>Cords</i>		
2	Sugar Maple	Sawtimber	8.4	MBF	34.8	\$4,082.00
	European Larch	Pulpwood	61	Cords		
	<i>European Larch</i>	<i>Sawtimber</i>	6.4	<i>MBF</i>		
	<i>European Larch</i>	<i>Pulpwood</i>	48	<i>Cords</i>		
	Jack Pine		1	Cords		
	Mixed Aspen		76	Cords		
	<i>B. T. Aspen</i>	<i>Sawtimber</i>	3.9	<i>MBF</i>		
	<i>Quaking Aspen</i>		7.0	<i>MBF</i>		
	<i>B. T. Aspen</i>	<i>Pulpwood</i>	20	<i>Cords</i>		
	<i>Quaking Aspen</i>		34	<i>Cords</i>		
	Mixed Hardwood		53	Cords		
	<i>Beech</i>	<i>Sawtimber</i>	0.7	<i>MBF</i>		
	<i>Beech</i>	<i>Pulpwood</i>	3	<i>Cords</i>		
	<i>Black Cherry</i>		4	<i>Cords</i>		
	<i>Sugar Maple</i>		45	<i>Cords</i>		
	Red Pine		6	Cords		
	<i>Red Pine</i>	<i>Sawtimber</i>	1.0	<i>MBF</i>		
	<i>Red Pine</i>	<i>Pulpwood</i>	4	<i>Cords</i>		
3	Red Maple	Sawtimber	1.6	MBF	24.8	\$2,981.20
	Mixed Aspen	Pulpwood	166	Cords		
	<i>B. T. Aspen</i>	<i>Sawtimber</i>	0.6	<i>MBF</i>		
	<i>Quaking Aspen</i>		22.7	<i>MBF</i>		
	<i>B. T. Aspen</i>	<i>Pulpwood</i>	7	<i>Cords</i>		
	<i>Quaking Aspen</i>		113	<i>Cords</i>		
	Mixed Hardwood		10	Cords		
	<i>Black Cherry</i>		4	<i>Cords</i>		
	<i>Red Maple</i>		6	<i>Cords</i>		
	White Pine		12	Cords		
	<i>White Pine</i>	<i>Sawtimber</i>	2.7	<i>MBF</i>		
	<i>White Pine</i>	<i>Pulpwood</i>	7	<i>Cords</i>		
4	Red Maple	Sawtimber	1.1	MBF	17.0	\$2,040.70
	Mixed Aspen	Pulpwood	115	Cords		
	<i>B. T. Aspen</i>	<i>Sawtimber</i>	0.4	<i>MBF</i>		
	<i>Quaking Aspen</i>		15.5	<i>MBF</i>		
	<i>B. T. Aspen</i>	<i>Pulpwood</i>	5	<i>Cords</i>		
	<i>Quaking Aspen</i>		78	<i>Cords</i>		
	Mixed Hardwood		6	Cords		
	<i>Black Cherry</i>		2	<i>Cords</i>		
	<i>Red Maple</i>		4	<i>Cords</i>		
	White Pine		8	Cords		
	<i>White Pine</i>	<i>Sawtimber</i>	1.9	<i>MBF</i>		
	<i>White Pine</i>	<i>Pulpwood</i>	4	<i>Cords</i>		
5	Red Maple	Sawtimber	36.3	MBF	12.8	\$9,185.10
	Sugar Maple		10.5	MBF		
	Mixed Hardwood	Pulpwood	323	Cords		
	<i>Beech</i>	<i>Sawtimber</i>	27.2	<i>MBF</i>		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	<i>Beech</i>	<i>Pulpwood</i>	<i>68</i>	<i>Cords</i>		
	<i>Red Maple</i>		<i>110</i>	<i>Cords</i>		
	<i>Sugar Maple</i>		<i>91</i>	<i>Cords</i>		
TOTAL:			63.2	MBF		
TOTAL:			906	Cords		

Sale Specific Conditions & Requirements

Sale Name: Abandoned Circus Mixed HW's

Sale Number: 72-012-20 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, or unmarked and identified by existing roads. Exterior sale boundary lines against private property are marked with blue paint. Exterior sale boundary lines against state are marked with red paint, with the exception of the north boundary of Payment Unit 1 and the west boundary of Payment Unit 5, which are unpainted and identified by the unnamed forest road and Roberts Road, respectively. Interior Payment Unit boundaries are marked with yellow paint, with the exception of the boundary between Payment Units 3 and 4, which is unpainted and identified by the unnamed forest road. 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) 2-5, cut all trees that are two (2) inches or more at DBH.

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

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

2.2 - Utilization

2.2.2 - Chipping required (2/18)

Payment Unit 2 must be chip harvested to facilitate subsequent planting operations. The Purchaser has the option to produce sawlogs or pulpwood bolts, but the remaining portion of the trees must be chipped and hauled. If market conditions limit the practicality of chipping, tops and slash must be arranged in a way that will not inhibit future planting operations, as directed by the sale administrator. A chipping exemption can be obtained if proposed operations are determined to be suitable for planting by reforestation staff. The requirement to retain approximately 1/6 to 1/3 of tree tops and limbs less than four inches in diameter is still applicable (G. C. & R. 2.2).

2.2.3 - Stump heights (4/07)

Stump heights within Payment Unit 2 shall not exceed 6 inches for all trees. This is in order to facilitate planting operations.

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. Within Payment Unit 1, 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

4.1.6 - 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. 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. 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.

4.1.11 - Permits (2/12)

The Purchaser will secure any necessary road permits that may be required.

4.4 - Access

4.4.1 - Private property access (3/11)

Permission for access across private land is the responsibility of the Purchaser.

5 - Operations

5.1 - Notification

5.1.3 - Well heads and natural gas pipelines (11/15)

The Purchaser is responsible for contacting the gas company prior to operating equipment in the vicinity of well heads or natural gas pipelines. Contact Linn Operating Inc at (231)922-7302.

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

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 1, 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.

5.2.4 - 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) 3 and 4, leave one, 12" or larger diameter (or largest diameter trees within stand) whole tree on the ground for every 2 acres, preferably a hardwood species such as oak or maple or if no hardwoods are present, a pine species (white or red). These trees will be evenly scattered throughout the unit, preferably at least two chains from any roads, two-tracks, or trails open to vehicles.

5.2.29 - Shrub protection (1/20)

Reasonable care should be taken to avoid cutting or damaging hawthorn or junberry. These woody-shrub plants are highly beneficial to various wildlife species.

5.2.31 - Landing locations (9/13)

The landing area for Payment Unit 1 has been painted in and is marked on the Timber Sale Map with the letter "L". The landing must be confined to this designated site unless otherwise authorized by the Unit Manager or his/her representative.

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.

5.2.37 - No decking areas (12/08)

No decking is allowed within 50 feet of injection sites without permission of the pipeline company.

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 (9/09)

The Purchaser is responsible for posting and maintaining caution signs on haul routes 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.*

Forest Management Unit		County	Mapped By	Date		Page of	
Grayling		Crawford	Scott McClarren	09/17/2020		1 1	
Township		Range	Section(s) and Subdivision(s)	Scale			
28N		03W	Sec. 8, S1/2NW, SENE, N1/2SE, SWSE Sec. 9, NENW, SWNW, N1/2NE, SENE	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

PU	Acres	PU	Acres
1	10.8	4	17
2	34.8	5	12.8
3	24.8		

Abandoned Circus Mixed HW's**Compartment 214****100.2 Acres**