



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6714

SCHEDULED SALE DATE AND TIME: **9:00 a.m. (local time) on October 19, 2020.**

LOCATION: **KALKASKA FIELD OFFICE, 2089 NORTH BIRCH STREET, KALKASKA, MI 49646.**

CONTACT NAME: David Lemmien

PHONE NUMBER: (231) 922-6040

PROSPECTUS NOTE: It is recommended that for the duration of the "Stay Home, Stay Safe" executive order that bidders submit their bids through the Online Bidding System (<https://www.dnr.state.mi.us/VMSONlineBidding/>). If you need to register, contact Jake Reid (ReidJ6@michigan.gov, 517-284-5908) or Donovan Asselin (AsselinD@michigan.gov, 517-930-1326). Paper bids will still be accepted during this time, either dropped in the bid box at the bid location or by mailing. If mailing, please allow for additional time.

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

104 Hardwood Alteration (61-151-19) / T28N, R05W, SEC. 16, NW,NWNE,S1/2NE,NESW,SE.

T28N, R05W, SEC. 17, NE,E1/2SE.

T28N, R05W, SEC. 8 , SESE.

T28N, R05W, SEC. 9 , SWSW.

Kalkaska County, Advertised Price \$223,054.40, 390.2 Acres, Hardwood, Sugar Maple.

SALE NOTE: Recommend a rotary head feller buncher to cut the bulk of this timber sale as beech and ironwood are being cut down to 1" DBH.

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

104 Hardwood Alteration (61-151-19)

T28N, R05W, SEC. 16; T28N, R05W, SEC. 17; T28N, R05W, SEC. 8; T28N, R05W, SEC. 9.
Kalkaska County (Advertised Price \$223,054.40)

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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		
Basswood	192.9 MBF	\$ 64.00 / MBF
Beech	142.7 MBF	\$ 54.00 / MBF
Black Cherry	6.4 MBF	\$ 239.00 / MBF
Mixed Aspen	33.9 MBF	\$ 88.00 / MBF
Paper Birch	2.4 MBF	\$ 24.00 / MBF
Red Maple	160.6 MBF	\$ 88.00 / MBF
Red Pine	128.2 MBF	\$ 79.00 / MBF
Sugar Maple	600.0 MBF	\$ 148.00 / MBF
White Pine	8.9 MBF	\$ 44.00 / MBF
Pulpwood		
Basswood	406 Cords	\$ 9.25 / Cord
Mixed Aspen	669 Cords	\$ 11.30 / Cord
Mixed Hardwood	6,177 Cords	\$ 10.65 / Cord
Red Pine	281 Cords	\$ 27.65 / Cord
White Pine	13 Cords	\$ 8.50 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 7.85 percent. There are an estimated 10,102 cords on this timber sale, plus or minus 793 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 \$11,152.72 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 12/31/2023.

SALE STATISTICS

SALE VOLUMES

VOLUME			STATISTICAL RANGE IN CORDS	
TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
798,073	10,102	7.85%	9,309	10,895

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	123,983	1,569	17.17%	1,300	1,839
3	17,973	228	23.54%	174	281
4	84,577	1,071	18.99%	867	1,274
5	13,288	168	30.27%	117	219
10	99,738	1,263	19.79%	1,013	1,512
11	11,100	141	39.14%	86	195
104	61,304	776	20.72%	615	937
110	117,710	1,490	21.39%	1,171	1,809
204	153,197	1,939	13.27%	1,682	2,197
210	115,237	1,459	24.19%	1,106	1,812
TOTAL:	798,105	10,103		8,131	12,074

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	66.0	8	66.0
3	12.2	6	12.2
4	63.4	1	63.4
5	9.4	6	9.4
10	32.8	4	32.7
		5	0.1
11	7.9	6	7.9
104	45.4	3	45.4
110	46.1	5	45.9
		7	0.2
204	52.4	2	52.4
210	54.6	5	0.1
		7	54.5
TOTAL:	390.2		390.2

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Basswood	Sawtimber	19.6	MBF	63.4	\$21,573.65
	Beech		5.5	MBF		
	Black Cherry		3.2	MBF		
	Red Maple		11.5	MBF		
	Sugar Maple		60.5	MBF		
	Basswood	Pulpwood	42	Cords		
	Mixed Aspen		114	Cords		
	<i>B. T. Aspen</i>		82	<i>Cords</i>		
	<i>Quaking Aspen</i>		32	<i>Cords</i>		
	Mixed Hardwood		715	Cords		
	<i>Beech</i>		242	<i>Cords</i>		
	<i>Black Cherry</i>		15	<i>Cords</i>		
	<i>Ironwood</i>		53	<i>Cords</i>		
	<i>Red Maple</i>		46	<i>Cords</i>		
	<i>Sugar Maple</i>		359	<i>Cords</i>		
2	Basswood	Sawtimber	28.6	MBF	52.4	\$45,321.80
	Beech		71.5	MBF		
	Mixed Aspen		29.2	MBF		
	<i>Quaking Aspen</i>		29.2	<i>MBF</i>		
	Red Maple		57.6	MBF		
	Sugar Maple	Pulpwood	119.9	MBF		
	White Pine		5.8	MBF		
	Basswood		26	Cords		
	Mixed Aspen		72	Cords		
	<i>Quaking Aspen</i>		72	<i>Cords</i>		
	Mixed Hardwood		1,210	Cords		
	<i>Beech</i>		212	<i>Cords</i>		
	<i>Ironwood</i>		36	<i>Cords</i>		
	<i>Red Maple</i>		121	<i>Cords</i>		
	<i>Sugar Maple</i>		841	<i>Cords</i>		
	White Pine		6	Cords		
3	Basswood	Sawtimber	59.2	MBF	45.4	\$17,309.30
	Beech		21.6	MBF		
	Black Cherry		1.6	MBF		
	Mixed Aspen		1.1	MBF		
	<i>Quaking Aspen</i>		1.1	<i>MBF</i>		
	Red Maple	Pulpwood	25.7	MBF		
	Sugar Maple		29.8	MBF		
	Basswood		98	Cords		
	Mixed Aspen		56	Cords		
	<i>B. T. Aspen</i>		49	<i>Cords</i>		
	<i>Quaking Aspen</i>		7	<i>Cords</i>		
	Mixed Hardwood		344	Cords		
	<i>Beech</i>		95	<i>Cords</i>		
	<i>Black Cherry</i>		7	<i>Cords</i>		
	<i>Red Maple</i>		41	<i>Cords</i>		
	<i>Sugar Maple</i>		201	<i>Cords</i>		
4	Basswood	Sawtimber	27.5	MBF	32.7	\$30,028.10
	Beech		3.7	MBF		
	Black Cherry		1.6	MBF		
	Mixed Aspen		3.6	MBF		
	<i>B. T. Aspen</i>		3.6	<i>MBF</i>		
	Red Maple	Pulpwood	29.1	MBF		
	Sugar Maple		101.6	MBF		
	Basswood		87	Cords		

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

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE			
4 con't	Mixed Aspen	Pulpwood	163	Cords					
	B. T. Aspen		16	Cords					
	Quaking Aspen		147	Cords					
	Mixed Hardwood		669	Cords					
	Beech		183	Cords					
	Black Cherry		24	Cords					
	Ironwood		53	Cords					
	Red Maple		64	Cords					
	Sugar Maple		345	Cords					
5	Basswood	Sawtimber	26.4	MBF	46.1	\$26,426.85			
	Beech		2.5	MBF					
	Paper Birch		2.4	MBF					
	Red Maple		10.4	MBF					
	Sugar Maple	Pulpwood	68.3	MBF					
	Basswood		51	Cords					
	Mixed Aspen		103	Cords					
	Quaking Aspen		103	Cords					
	Mixed Hardwood		1,116	Cords					
	Beech		380	Cords					
	Ironwood		44	Cords					
	Paper Birch		5	Cords					
	Red Maple		71	Cords					
	Sugar Maple		616	Cords					
6	Red Pine	Sawtimber	128.2	MBF	29.5	\$17,897.45			
	Red Pine	Pulpwood	281	Cords					
7	Basswood	Sawtimber	0.1	MBF	54.7	\$30,528.15			
	Beech		37.9	MBF					
	Sugar Maple	107.5	MBF						
	Mixed Aspen	Pulpwood	161	Cords					
	B. T. Aspen		161	Cords					
	Mixed Hardwood		1,009	Cords					
	Beech		355	Cords					
	Sugar Maple		654	Cords					
8	Basswood	Sawtimber	31.5	MBF	66.0	\$33,969.10			
	Red Maple		26.3	MBF					
	Sugar Maple		112.4	MBF					
	White Pine		3.1	MBF					
	Basswood	Pulpwood	102	Cords					
	Mixed Hardwood		1,114	Cords					
	Beech		364	Cords					
	Red Maple		50	Cords					
	Sugar Maple		700	Cords					
	White Pine		7	Cords					
TOTAL:			1,276.0	MBF					
TOTAL:			7,546	Cords					

Sale Specific Conditions & Requirements

Sale Name: 104 Hardwood Alteration

Sale Number: 61-151-19 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 line trees are not Included Timber and are to be protected unless marked with orange paint. Yellow painted trees designating an interior Payment Unit boundary are only to be cut when all surrounding Payment Units have been paid for and they are designated for removal in both adjacent Payment Units.

2 - Timber Specifications

2.1 - Included Timber

2.1.1 - Clearcut unit(s) with unmerchantable trees (6/14)

Within Payment Unit(s) 2 & 8, cut all trees that are one (1) inch or more at DBH, except do not cut any green marked trees.

Note: understory brush needs to be cut down to a one (1) inch DBH. A rotary head feller buncher is strongly encouraged for a clean site post harvest.

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

Within Payment Unit(s) 1, 3 & 6, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability. In addition, cut all aspen, beech and ironwood, one (1) inch or more at DBH, except do not cut any aspen or beech, which are marked with an orange X.

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

Within Payment Unit(s) 4, 5 & 7, cut all trees that are one (1) inch or more at DBH, except do not cut any red pine, white pine, or green marked trees.

2.2 - Utilization

2.2.2 - Chipping required (2/18)

Payment Units 2 & 8, 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 off site. A chipping exemption may be obtained if proposed operation is determined to be suitable for planting by reforestation staff. This exemption must be granted in writing. The requirement to retain approximately 1/6 to 1/3 of tree tops and limbs less than four inches in diameter does not apply (G. C. & R. 2.2). This is because these areas will need to be trenched and planted.

2.2.3 - Stump heights (4/07)

Stump heights within all Payment Units shall not exceed either twelve (12) inches for trees ten (10) inches and more at DBH or four (4) inches for trees less than ten (10) inches at DBH. This is in order to facilitate potential future planting operations.

2.2.4 - Skidding length (2/14)

Skidding of un-limbed tops is not permissible within Payment Units 1 & 3, unless approved by the Unit Manager or their representative. Skidding of lengths over seventeen (17) feet is permissible as long as the sale administrator approves the method and equipment used. If at any point damage exceeds specification 3.4.1, all of the remaining wood must be skid in lengths less than seventeen (17) feet.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) over \$15,000 in value 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 Supplement.

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, not left in windrows and kept a minimum of ten (10) feet back from the road edge. Stumps shall be set upright, not left on edge, and be moved at least ten (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 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 where they are readily available. 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 details of design and placement.

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) 1, 3, 4, 5, 6 & 7, 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.

5.2.16 - Equipment recommended (11/18)

Note: Payment Units 1-8, require beech and ironwood brush to be cut down to a one (1) inch DBH. To efficiently and effectively harvest, a rotary head feller-buncher is the recommended equipment to best accomplish this cutting.

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

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

5.2.39 - ORV trail/route protection (4/18)

There is an ORV trail and route shown on the Timber Sale Map. Do not cut trees or damage posts with yellow ORV markers. All stumps within five (5) feet of the trail must be cut flush with the ground. Maintain a twenty (20) foot wide slash, debris and rut free zone daily using the ORV trail or route as the center-line. Do not run equipment down the ORV trail or route. Skidding across the trail or route may only occur in locations approved by the sale administrator.

5.2.41 - Snowmobile trail protection (9/11)

There is a snowmobile trail shown on the Timber Sale Map. Do not cut or damage posts with orange trail markers or traffic control signs. If this trail is used, it must be maintained and restored to a condition equal to or better than before the sale. 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. The snowmobile trail may only be crossed at right angles. Maintain a twenty (20) foot wide slash, debris and rut free zone daily using the snowmobile trail as the center-line. No decking of forest products will be permitted along the snowmobile trail. All stumps within twenty (20) feet of the snowmobile trail shall be cut at ground level.

5.4 - Soil Protection

5.4.4 - Slope protection (9/19)

Skid trails and roads on slopes shall be water barred with slash and stumps as soon as use is complete to prevent erosion.

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 (9/09)

The Purchaser is responsible for posting and maintaining caution signs on impacted roads 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 shall provide these signs.

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. The Purchaser shall provide these signs.

6.2.3 - Recreational trail posting (2/10)

The Purchaser is responsible for posting and maintaining caution signs on ORV trails and routes prior to beginning operations. The trail must be posted at appropriate distances from the sale area to warn of logging activity and truck traffic at both ends of the trail. Signs must be removed when harvest operations are suspended or completed. The Purchaser shall provide these signs.

7 - Other Conditions

7.5 - Loss

7.5.1 - Deteriorating timber (7/09)

The sale area has received damage from Beech Bark Disease. 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 5, 1994 PA 451, as amended.

Forest Management Unit <i>Traverse City</i>	County <i>Kalkaska</i>	Mapped By <i>Standerfer</i>	Date <i>9/13/19</i>	Page <i>1</i>	of <i>1</i>
Compartment Number <i>104</i>	Township <i>28N</i>	Cruised By <i>Kalkaska Crew</i>	Range <i>05W</i>	Section(s) and Subdivision(s) <i>17 NE 1/4, E 1/2 SE 1/4, 16 SE 1/4, NESW, S 1/2 NE, NW 1/4</i>	
Cover Type			Density		
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest	1 = Seedling Sapling Poor	6 = Pole Timber Well
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh	2 = Seedling Sapling Medium	7 = Saw Timber Poor
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine	3 = Seedling Sapling Well	8 = Saw Timber Medium
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked	4 = Pole Timber Poor	9 = Saw Timber Well
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand		
G = Grass	MD = Mixed Deciduous		Z = Water		
H = Hemlock	N = Marsh				

