



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN**

TIMBER SALE PROSPECTUS #6879

SCHEDULED SALE DATE AND TIME: 4:00 p.m. (local time) on July 26, 2021.

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

CONTACT NAME: David Lemmien

PHONE NUMBER: (231) 922-6040

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

Rapid River Hardwoods (61-128-21) / T28N, R07W, SEC. 14, S1/2SW,SWSE.

T28N, R07W, SEC. 23, E1/2NW,NE,N1/2SE.

Kalkaska County, Advertised Price \$122,814.50, 109.8 Acres, Hardwood, Sugar Maple.

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

Rapid River Hardwoods (61-128-21)

T28N, R07W, SEC. 14; T28N, R07W, SEC. 23.

Kalkaska County (Advertised Price \$122,814.50)

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 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		
Basswood	54.9 MBF	\$ 75.00 / MBF
Beech	47.2 MBF	\$ 53.00 / MBF
Black Cherry	4.7 MBF	\$ 151.00 / MBF
Red Maple	226.5 MBF	\$ 122.00 / MBF
Sugar Maple	365.8 MBF	\$ 171.00 / MBF
Pulpwood		
Mixed Aspen	82 Cords	\$ 12.75 / Cord
Mixed Hardwood	1,964 Cords	\$ 12.35 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 7.31 percent. There are an estimated 3,665 cords on this timber sale, plus or minus 268 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 \$6,140.73 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:

PAYMENT UNIT NUMBER	PERCENT OF TOTAL SALE VALUE
01	31.1%
02	18.2%
03	32.0%
04	18.7%
4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 09/30/2023.

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
289,557	3,665	7.31%	3,397	3,933

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	674,177	8,534	8.14%	7,839	9,229
18	44,410	562	17.35%	465	660
64	3,077	39	40.82%	23	55
TOTAL:	721,664	9,135		8,326	9,944

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	75.5	1	28.9
		2	16.9
		3	29.7
18	28.0	4	28.0
64	6.3	4	6.3
TOTAL:	109.8		109.8

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Basswood	Sawtimber	21.0	MBF	28.9	\$38,213.15
	Beech		18.1	MBF		
	Red Maple	Pulpwood	72.2	MBF		
	Sugar Maple		110.5	MBF		
	Mixed Aspen		23	Cords		
	<i>B. T. Aspen</i>		19	<i>Cords</i>		
	<i>Quaking Aspen</i>		4	<i>Cords</i>		
	Mixed Hardwood		622	Cords		
	<i>Basswood</i>		29	<i>Cords</i>		
	<i>Beech</i>		44	<i>Cords</i>		
	<i>Black Cherry</i>		3	<i>Cords</i>		
	<i>Ironwood</i>		5	<i>Cords</i>		
	<i>Red Maple</i>		125	<i>Cords</i>		
	<i>Sugar Maple</i>		416	<i>Cords</i>		
2	Basswood	Sawtimber	12.3	MBF	16.9	\$22,352.80
	Beech		10.6	MBF		
	Red Maple	Pulpwood	42.2	MBF		
	Sugar Maple		64.6	MBF		
	Mixed Aspen		13	Cords		
	<i>B. T. Aspen</i>		11	<i>Cords</i>		
	<i>Quaking Aspen</i>		2	<i>Cords</i>		
	Mixed Hardwood		365	Cords		
	<i>Basswood</i>		17	<i>Cords</i>		
	<i>Beech</i>		26	<i>Cords</i>		
	<i>Black Cherry</i>		2	<i>Cords</i>		
	<i>Ironwood</i>		3	<i>Cords</i>		
	<i>Red Maple</i>		73	<i>Cords</i>		
	<i>Sugar Maple</i>		244	<i>Cords</i>		
3	Basswood	Sawtimber	21.6	MBF	29.7	\$39,270.85
	Beech		18.5	MBF		
	Red Maple	Pulpwood	74.3	MBF		
	Sugar Maple		113.5	MBF		
	Mixed Aspen		23	Cords		
	<i>B. T. Aspen</i>		19	<i>Cords</i>		
	<i>Quaking Aspen</i>		4	<i>Cords</i>		
	Mixed Hardwood		640	Cords		
	<i>Basswood</i>		30	<i>Cords</i>		
	<i>Beech</i>		46	<i>Cords</i>		
	<i>Black Cherry</i>		3	<i>Cords</i>		
	<i>Ironwood</i>		5	<i>Cords</i>		
	<i>Red Maple</i>		128	<i>Cords</i>		
	<i>Sugar Maple</i>		428	<i>Cords</i>		
4	Black Cherry	Sawtimber	4.7	MBF	34.3	\$22,977.70
	Red Maple		37.8	MBF		
	Sugar Maple	Pulpwood	77.2	MBF		
	Mixed Aspen		23	Cords		
	<i>B. T. Aspen</i>		23	<i>Cords</i>		
	Mixed Hardwood		337	Cords		
	<i>Beech</i>		7	<i>Cords</i>		
	<i>Black Cherry</i>		44	<i>Cords</i>		
	<i>Ironwood</i>		21	<i>Cords</i>		
	<i>Red Maple</i>		91	<i>Cords</i>		
	<i>Sugar Maple</i>		174	<i>Cords</i>		
	TOTAL:			699.1		

TOTAL:	2,046	Cords
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Sale Specific Conditions & Requirements

Sale Name: Rapid River Hardwoods

Sale Number: 61-128-21 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, 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. 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

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

Within Payment Unit(s) 1 - 4, all trees, which meet minimum piece specifications in 2.2 Utilization, are designated for cutting, cut all trees that are two (2) inches or more at DBH, except hemlock and trees marked with green paint above and below stump height.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) with a value over \$10,000 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.

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.

No damage is acceptable to undesignated live merchantable trees. Within the Sale Area, if more than 10% 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 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. 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.

5 - Operations

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.8 - Slash height (12/08)

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

5.2.21 - Chains (6/11)

To help promote scarification, it is required that rubber wheeled harvesters and forwarders run with chains if the sale is cut by a round-wood crew. If the sale is whole tree harvested with grapple skidders the chains will not be needed.

If the Purchaser shows that they can adequately scarify the site without chains, this specification can be waived by the sale administrator. Contact the sale administrator for further details.

5.2.29 - Shrub protection (1/20)

Do not cut or damage hawthorn, witch-hazel, dogwood, or juneberry. These woody-shrub plants are highly beneficial to various wildlife species.

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.

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 it is shown on the Timber Sale Map. Do not cut trees or damage posts with yellow ORV markers. All stumps within 5 feet of the trail must be cut flush with the ground. All stumps within 5 feet of the trail must be cut off at least 5 feet above ground level. Maintain a 20-foot-wide slash, debris, and rut free zone daily using the ORV trail as the centerline. Do not run equipment down the ORV trail. Skidding across the trail may only occur in locations approved by the sale administrator.

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 any roads used for hauling 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.

6.2.3 - Recreational trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on the ORV trail 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 will provide these signs.

**TIMBER SALE MAP***This information provided by authority of Part 525, 1994 PA 451, as amended.*

Forest Management Unit Traverse City		County Kalkaska	Mapped By Crigier	Date 03/28/2021	Page 1	of 1
Township 28N	Range 7W	Section(s) and Subdivision(s) Sections 14 and 23		Scale 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	28.9	4	34.3
2	16.9		
3	29.7		

Rapid River Hardwoods**Compartment 172****109.8 Acres****Legend**

- Against State (Red)
- Payment Unit (Yellow)
- Private Line (Blue)
- Highway
- Primary Forest Road
- Secondary Forest Road
- Forest Access Route
- Paved Road
- Gravel Road
- County Road - Seasonal
- Private
- ... DNR - Management Access
- ... Temporary Management Access
- Recreational Trails
- Oil & Gas Well Surface Locations
- Pipeline
- Powerline
- Active Railroad
- Stand Boundaries
- ... Nearby Timber Sale
- Section Corners
- State Forests

