



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7110**

SCHEDULED SALE DATE AND TIME: 10:00 a.m. (local time) on September 20, 2022.

LOCATION: SE REGION-WILD, 3580 STATE PARK DRIVE, BAY CITY, MI 48706.

CONTACT NAME: Don Bonnette

PHONE NUMBER: (989) 385-5616

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 Game Area Manager , CASS CITY FIELD OFFICE, for certain timber on the following described lands:

Crawford Aspen Mix (55-140-22) / T13N, R11E, SEC. 12, S1/2NW,N1/2SW.

Tuscola County, Advertised Price \$8,333.00, 21.7 Acres, Aspen, Hardwood.

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

Access may be through other public land.

TIMBER SALE INFORMATION

Crawford Aspen Mix (55-140-22)

T13N, R11E, SEC. 12.

Tuscola County (Advertised Price \$8,333.00)

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

Access may be through other public 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 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		
American Elm	24.2 MBF	\$ 22.00 / MBF
Green Ash	40.5 MBF	\$ 22.00 / MBF
Mixed Aspen	109.2 MBF	\$ 24.00 / MBF
Paper Birch	8.2 MBF	\$ 24.00 / MBF
Pulpwood		
Mixed Aspen	190 Cords	\$ 11.00 / Cord
Mixed Hardwood	220 Cords	\$ 9.10 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 10.03 percent. There are an estimated 798 cords on this timber sale, plus or minus 80 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 \$416.65 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 remainder is due before cutting begins.
 - (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	100.0%
4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 12/31/2024.

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.

<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>
63,037	798	10.03%	718	878

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
44	63,037	798	10.04%	718	878
TOTAL:	63,037	798		718	878

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
44	21.7	1	21.7
TOTAL:	21.7		21.7

DESCRIPTION OF TIMBER BY PU (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE			
1	American Elm	Sawtimber	24.2	MBF	21.7	\$8,333.00			
	Green Ash		40.5	MBF					
	Mixed Aspen		109.2	MBF					
	<i>B. T. Aspen</i>		34.7	<i>MBF</i>					
	<i>Cottonwood</i>		0.7	<i>MBF</i>					
	<i>Quaking Aspen</i>		73.8	<i>MBF</i>					
	Paper Birch	Pulpwood	8.2	MBF					
	Mixed Aspen		190	Cords					
	<i>B. T. Aspen</i>		74	<i>Cords</i>					
	<i>Cottonwood</i>		8	<i>Cords</i>					
	<i>Quaking Aspen</i>		108	<i>Cords</i>					
	Mixed Hardwood		220	Cords					
	<i>American Elm</i>		89	<i>Cords</i>					
	<i>Basswood</i>		7	<i>Cords</i>					
	<i>Black Cherry</i>		5	<i>Cords</i>					
	<i>Green Ash</i>		30	<i>Cords</i>					
	<i>Paper Birch</i>		65	<i>Cords</i>					
	<i>Red Maple</i>		24	<i>Cords</i>					
	TOTAL:			182.1			MBF		
	TOTAL:			410			Cords		

Sale Specific Conditions & Requirements

Sale Name: Crawford Aspen Mix

Sale Number: 55-140-22 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 paint. Exterior sale boundary lines against state are marked with red paint. The painted boundary line trees are not Included Timber and are to be protected.

2 - Timber Specifications

2.1 - Included Timber

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

Within Payment Unit(s) 1, cut all trees that are two (2) inches or more at DBH, except oak, apple, beech, hickory, white pine, hemlock, tamarack, white cedar, and trees marked with green paint. Special protection trees identified in accordance with condition 3.4.2, within clearcutting unit boundaries, are not Included Timber and are to be protected.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within the Sale Area shall not exceed 6 inches for all trees.

2.2.4 - Skidding length (2/14)

Skidding of unlimbed tops is not permissible.

3 - Payments

3.4 - Damaged Timber

3.4.2 - Special Protection Trees (4/14)

The Purchaser shall not cut live or dead special protection trees within cutting units or clearings. Special protection trees are oak, apple, hemlock, white cedar, hickory, and trees marked with green paint. If the Purchaser's operations have cut or damaged special protection trees through carelessness, the Purchaser shall pay \$250 as fixed, agreed and liquidated damages for each special protection tree cut or damaged. Such payment does not constitute ownership of the undesignated 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 skid trails and access trails to landings 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. All stumps from skid trail and landing construction must be reserved to block any newly constructed roads upon completion of the sale. Temporary berms may be required if no sale activity occurs for 30 or more consecutive days. Contact the sale administrator for specific details of design and placement.

4.1.12 - No new roads (1/12)

No new roads will be permitted. All operations are limited to existing skid trails.

4.2 - Maintenance

4.2.4 - Grading (10/16)

For completion of the sale, skid trails and landings must be graded. In general, this will require a road grader or bulldozer to

shape up skid trails 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.

4.4 - Access

4.4.4 - Restricted access (10/05)

When accessing any Payment Unit, existing vehicle barriers (i.e., guardrail, boulders, wood posts) that are removed must be replaced upon the completion of the Payment Unit. The repair or replacement of any barriers that are damaged during removal is the responsibility of the Purchaser.

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 access, landing and skid trail locations. The Unit Manager or his/her representative must be contacted at least 10 days in advance to schedule the conference.

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.

5.2.1.11 - Slash for reforestation (3/21)

To facilitate reforestation, the Sale Area 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 or windrows of slash.

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. In addition, all standing dead 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) cutting, skidding, and hauling are not permitted during the period of March 10 to July 15. At any other time, cutting, skidding, and hauling is limited to dry or frozen ground conditions. The sale administrator will determine what constitutes dry or frozen ground conditions. This restriction is necessary to reduce the impact of operations on breeding and nesting wildlife and to protect poorly drained soils throughout the Sale Area.

5.2.3.12 - Hunting operating restriction (1/18)

No Payment Unit may be started during the period of September 29 to October 10 or November 1 to November 30 without permission of the Unit Manager or his/her representative.

5.2.31 - Landing locations (9/13)

The location of landings will be determined in the pre-sale conference. In general, landings are limited to a "T" turnaround which will accommodate a truck with a 50-foot trailer.

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 in any parking area. Additionally, no equipment storage is permitted in any parking area.

5.4 - Soil Protection

5.4.1 - Rutting restriction, general (7/16)

In addition, operations are to cease immediately if equipment and weather conditions result in rutting of 12 inches or greater for any length within the Sale Area, or on 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.

5.4.6 - Wet area protection (5/10)

No harvesting operations, including skidding and felling, are to take place within the vernal pond areas or drainages. When harvesting occurs, there should be no disturbance to the vernal pond depression. All equipment, trees and tops should be kept out of this area. Within 100 feet of the pond, equipment should only be used when the soil is in a dry or frozen condition. Care must be taken by the Purchaser to identify and avoid operating in these areas of the timber sale.

7 - Other Conditions

7.5 - Loss

7.5.1 - Deteriorating timber (7/09)

The sale area has received damage from windthrow, emerald ash borer and Dutch elm 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.

7.10 - Certified Timber

7.10.1 - Non-certified timber (2/16)

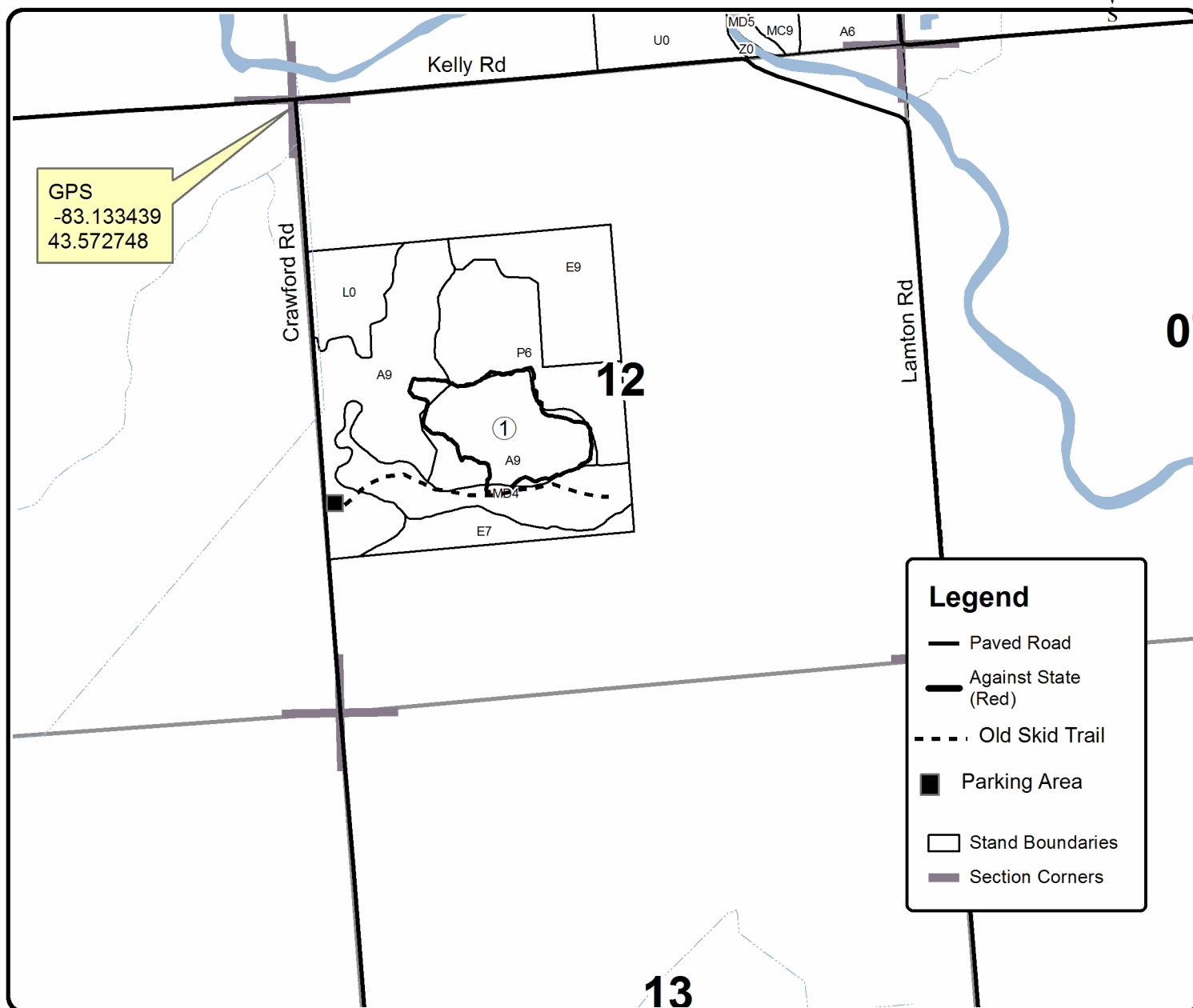
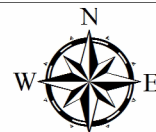
The area encompassed by this timber sale is not certified to the standards of the Forest Stewardship Council (FSC) or the Sustainable Forestry Initiative (SFI). Forest products from this sale may not be delivered to the mill as "FSC and / or SFI certified". The lands within this sale are managed as a State Game Area.

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

Sale Number	Year
55-140-22	2022

Forest Management Unit Cass City State Game Area	County Tuscola	Mapped By Bonnette	Date 05/31/2022	Page 1	of 1
Township 13N	Range 11E	Section(s) and Subdivision(s) Section 12, S1/2NW,N1/2SW	Scale 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**1 21.7****Crawford Aspen Mix**
21.7 Acres

0 0.125 0.25 0.5 0.75 1 Miles