



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Draft

TIMBER SALE PROPOSAL

THIS INFORMATION PROVIDED BY AUTHORITY OF PART 525, 1994 PA 451, AS AMENDED

SALE NAME Puppy Paw Hardwood		SALE NUMBER 12-052-26		SEQ # 1	FISCAL YEAR 2026	SALE ID 21552	☐ NOT CERTIFIED ☐ SALVAGE ☐ GNA
MANAGEMENT UNIT Crystal Falls Mgt Unit		OFFICE Crystal Falls Office			ACRES 132.2	COMPARTMENT(S) 145	
PROPOSAL OWNER Eric Brolin		LOG RULE Scribner Decimal C		TOP DOB 10"	COUNTY Dickinson, Iron		
DURATION OF CONTRACT Three full winters expiring June 30.		EXPIRATION DATE			PAYMENT METHOD Lump Sum	BID TYPE Sealed Bid	BOND AMOUNT 5%

DESCRIPTION OF TIMBER						PAYMENT UNIT					
MARKET GROUP	PRODUCT	QUANTITY	UNIT	ADV UNIT PRICE*	ADV PRICE*	UNIT	ACRES	ADV PRICE*	UNIT	ACRES	ADV PRICE*
Basswood	Sawtimber	100.6	MBF	\$58.00	\$5,834.80						
Paper Birch	Sawtimber	8.7	MBF	\$82.00	\$713.40	1	10.7	\$5,053.20	2	9.8	\$3,616.40
Red Maple	Sawtimber	6.8	MBF	\$176.00	\$1,196.80	3	25.3	\$8,122.90	4	21.5	\$5,750.70
Sugar Maple	Sawtimber	51.3	MBF	\$300.00	\$15,390.00	5	16.9	\$4,547.20	6	23.9	\$6,394.70
Yellow Birch	Sawtimber	1.0	MBF	\$133.00	\$133.00	7	24.1	\$6,475.60			
Balsam Fir	Pulpwood	60	Cords	\$5.50	\$330.00	* Price as of 10/24/2025. May change before advertisement.					
Mixed Aspen	Pulpwood	184	Cords	\$18.80	\$3,459.20						
Mixed Hardwood	Pulpwood	985	Cords	\$13.10	\$12,903.50						
	Total	168.4 1,229	MBF Cords		\$ 39,960.70						
* Price as of 10/24/2025. May change before advertisement.											

APPROVALS					Date Submitted:
☐ Land owned or controlled by DMVA		☐ Notify Fisheries Division		☒ Notify Parks Division	
☐ Cultivation Work Needed					
DIVISION	TITLE	ACTION	REQUESTED OF/ACTION TAKEN BY	DATE/TIME	
FRD	Unit Manager		CARLSONB		
COMMENT:					
DIVISION	TITLE	ACTION	REQUESTED OF/ACTION TAKEN BY	DATE/TIME	
FRD	TSS		ASSELIND		
COMMENT:					
DIVISION	TITLE	ACTION	REQUESTED OF/ACTION TAKEN BY	DATE/TIME	
FRD	TMS		HILLR3		
COMMENT:					
DIVISION	TITLE	ACTION	REQUESTED OF/ACTION TAKEN BY	DATE/TIME	
WILD	Biologist	Notified	BougieT		
COMMENT:					
DIVISION	TITLE	ACTION	REQUESTED OF/ACTION TAKEN BY	DATE/TIME	
PARKS	Rec. Specialist	Notified	KatonaR		
COMMENT:					

TREATMENT LIST									
FOREST/ CMPT/ STAND	ID	TREATMENT	ACRES	COVER TYPE	S/D	OI	TREATMENT METHOD	MGMT OBJ	PROPOSED START DATE
12145025	133861	12145025-Cut	25.3	4110 - Sugar Maple Association	Poletimber Well	Northern Hardwood	Single Tree Selection	411 - Northern Hardwood	10/01/2025
12145021	133862	12145021-Cut	86.4	4110 - Sugar Maple Association	Sawtimber Well	Northern Hardwood	Single Tree Selection	411 - Northern Hardwood	10/01/2025
12145080	134206	12145080-Cut	10.7	4130 - Aspen	Poletimber Well	Aspen	Clearcut with Retention	413 - Aspen	10/01/2025
12145004	134207	12145081-Cut	9.8				Single Tree Selection	411 - Northern Hardwood	10/01/2025

TREATMENT AREA DETAILS**12145025-Cut****PRESCRIPTIONS SPECIFICATIONS:**

Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and oak if present. Leave most spruce/fir, birch, and black cherry while marking unless needed for operability. Favor species diversity while marking.

OTHER COMMENTS:

Access from the SW will require freezing in road, and/or temporary mats/bridge/culvert. Winter cutting spec for deer wintering area.

NEXT STEP TREATMENTS:

Monitoring, Natural Regen (Re-Inventory), Monitor for northern hardwood regeneration., 100%, Required

ACCEPTABLE REGENERATION:

Any combination of the original stands overstory species prior to harvest.

12145021-Cut**PRESCRIPTIONS SPECIFICATIONS:**

Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Leave some large future snag trees for wildlife. Leave all cedar, hemlock, pine, and oak. Leave spruce/fir, birch, and black cherry while marking unless needed for operability. Favor species diversity while marking.

OTHER COMMENTS:

Exclude and/or appropriately buffer to keep tops out of any low depressions within the stand, approximate areas have been excluded from this treatment. Use caution to not damage established maple saplings during harvest operations. Winter cutting spec for deer wintering area.

NEXT STEP TREATMENTS:

Monitoring, Natural Regen (Re-Inventory), Monitor for northern hardwood regeneration., 100%, Required

ACCEPTABLE REGENERATION:

Any combination of the original stands overstory species prior to harvest.

12145080-Cut**PRESCRIPTIONS SPECIFICATIONS:**

Harvest merchantable trees to promote aspen and conifer regeneration. Create 100' buffer along the lake. Retention will be included in the lake buffer and contains a diverse mix of mature species. Leave cedar, pine, white spruce, oak, and yellow birch if present. Mark to leave approximately one black cherry or paper birch per acre if present.

OTHER COMMENTS:

Winter cutting spec for deer wintering area.

NEXT STEP TREATMENTS:

Monitoring, Natural Regen (Re-Inventory), Monitor for regeneration., 100%, Required

ACCEPTABLE REGENERATION:

Any combination of the original stands overstory species prior to harvest.

12145081-Cut**PRESCRIPTIONS SPECIFICATIONS:**

Mark stand to 70 - 90 BA. Focus on improving quality. Maintain and/or create canopy gaps to encourage established saplings and create new regeneration. Remove all merchantable balsam fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, white spruce, and oak if present. Leave most yellow birch unless needed for operability while marking. Favor species diversity while marking.

OTHER COMMENTS:

Winter cutting spec for deer wintering area.

NEXT STEP TREATMENTS:

Monitoring, Natural Regen (Re-Inventory), Monitor for northern hardwood regeneration., 100%, Required

ACCEPTABLE REGENERATION:

Any combination of the original stands overstory species prior to harvest.

VDU DETAILS and CRUISE STATS											
VDU	ACRES	CRUISE TYPE	CRUISED BA	STRATUM	TALLY %	BAF	PLOTS	MEAN	STD DEV	COEF OF VAR	ACH ERROR
1	10.7	Sample Tree Ratio	83.64	N/A	N/A	20.00	11	29.53	32.67	110.61	44.77
2	9.8	Sample Tree Ratio	49.00	N/A	N/A	10.00	10	16.97	16.07	94.70	36.08
3	25.2	Sample Tree Ratio	34.40	N/A	N/A	10.00	25	11.61	10.88	93.69	26.64
4	86.4	Sample Tree Ratio	25.78	N/A	N/A	10.00	64	9.80	9.22	94.05	18.11
STATISTICS ON CUMULATIVE AND VBAR TALLY SALE VOLUMES								12.28	12.57	102.34	13.88

TREATMENT TO VDU								
TREATMENT NAME	ACRES	STAND/ VDU	Trt/VDU AC		TREATMENT NAME	ACRES	STAND/ VDU	Trt/VDU AC
12145025-Cut	25.3	3	25.3		12145080-Cut	10.7	1	10.7
12145021-Cut	86.4	4	86.4					

GROUP SPECIES/PRODUCT REPORT

DESCRIPTION OF TIMBER BY VDU						DESCRIPTION OF TIMBER TOTALS			
VDU	ACRES	MARKET GROUP	PRODUCT	QUANTITY	UNIT	MARKET GROUP	PRODUCT	QUANTITY	UNIT
1	10.7	Sugar Maple	Sawtimber	1.7	MBF	Basswood	Sawtimber	100.6	MBF
		Balsam Fir	Pulpwood	54	Cords	Paper Birch	Sawtimber	8.7	MBF
		Mixed Aspen	Pulpwood	153	Cords	Red Maple	Sawtimber	6.8	MBF
		<i>Quaking Aspen</i>	<i>Pulpwood</i>	153	<i>Cords</i>	Sugar Maple	Sawtimber	51.3	MBF
		Mixed Hardwood	Pulpwood	106	Cords	Yellow Birch	Sawtimber	1.0	MBF
		<i>Balsam Poplar</i>	<i>Pulpwood</i>	32	<i>Cords</i>	Balsam Fir	Pulpwood	60	Cords
		<i>Paper Birch</i>	<i>Pulpwood</i>	14	<i>Cords</i>	Mixed Aspen	Pulpwood	184	Cords
		<i>Red Maple</i>	<i>Pulpwood</i>	43	<i>Cords</i>	<i>B. T. Aspen</i>	<i>Pulpwood</i>	9	<i>Cords</i>
		<i>Sugar Maple</i>	<i>Pulpwood</i>	17	<i>Cords</i>	<i>Quaking Aspen</i>	<i>Pulpwood</i>	175	<i>Cords</i>
						Mixed Hardwood	Pulpwood	985	Cords
						<i>Balsam Poplar</i>	<i>Pulpwood</i>	32	<i>Cords</i>
2	9.8	Basswood	Sawtimber	5.7	MBF	<i>Basswood</i>	<i>Pulpwood</i>	211	<i>Cords</i>
		Paper Birch	Sawtimber	6.4	MBF	<i>Black Ash</i>	<i>Pulpwood</i>	5	<i>Cords</i>
		Sugar Maple	Sawtimber	3.5	MBF	<i>Ironwood</i>	<i>Pulpwood</i>	3	<i>Cords</i>
		Balsam Fir	Pulpwood	6	Cords	<i>Paper Birch</i>	<i>Pulpwood</i>	39	<i>Cords</i>
		Mixed Aspen	Pulpwood	14	Cords	<i>Red Maple</i>	<i>Pulpwood</i>	161	<i>Cords</i>
		<i>B. T. Aspen</i>	<i>Pulpwood</i>	5	<i>Cords</i>	<i>Sugar Maple</i>	<i>Pulpwood</i>	532	<i>Cords</i>
		<i>Quaking Aspen</i>	<i>Pulpwood</i>	9	<i>Cords</i>	<i>Yellow Birch</i>	<i>Pulpwood</i>	2	<i>Cords</i>
		Mixed Hardwood	Pulpwood	109	Cords				
		<i>Basswood</i>	<i>Pulpwood</i>	11	<i>Cords</i>				
		<i>Paper Birch</i>	<i>Pulpwood</i>	22	<i>Cords</i>				
		<i>Red Maple</i>	<i>Pulpwood</i>	8	<i>Cords</i>				
		<i>Sugar Maple</i>	<i>Pulpwood</i>	68	<i>Cords</i>				
3	25.3	Basswood	Sawtimber	26.5	MBF				
		Sugar Maple	Sawtimber	13.1	MBF				
		Mixed Aspen	Pulpwood	4	Cords				
		<i>B. T. Aspen</i>	<i>Pulpwood</i>	4	<i>Cords</i>				
		Mixed Hardwood	Pulpwood	196	Cords				
		<i>Basswood</i>	<i>Pulpwood</i>	50	<i>Cords</i>				
		<i>Red Maple</i>	<i>Pulpwood</i>	7	<i>Cords</i>				
		<i>Sugar Maple</i>	<i>Pulpwood</i>	139	<i>Cords</i>				
4	86.4	Basswood	Sawtimber	68.4	MBF				
		Paper Birch	Sawtimber	2.3	MBF				
		Red Maple	Sawtimber	6.8	MBF				
		Sugar Maple	Sawtimber	33.0	MBF				
		Yellow Birch	Sawtimber	1.0	MBF				
		Mixed Aspen	Pulpwood	13	Cords				
		<i>Quaking Aspen</i>	<i>Pulpwood</i>	13	<i>Cords</i>				
		Mixed Hardwood	Pulpwood	574	Cords				
		<i>Basswood</i>	<i>Pulpwood</i>	150	<i>Cords</i>				
		<i>Black Ash</i>	<i>Pulpwood</i>	5	<i>Cords</i>				
		<i>Ironwood</i>	<i>Pulpwood</i>	3	<i>Cords</i>				
		<i>Paper Birch</i>	<i>Pulpwood</i>	3	<i>Cords</i>				
		<i>Red Maple</i>	<i>Pulpwood</i>	103	<i>Cords</i>				
		<i>Sugar Maple</i>	<i>Pulpwood</i>	308	<i>Cords</i>				
		<i>Yellow Birch</i>	<i>Pulpwood</i>	2	<i>Cords</i>				

VDU to PU REPORT										
ACRES BY VDU AND PU				DESCRIPTION OF TIMBER BY PU						
VDU	VDU AC	PU	PU AC	PU	GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADV PRICE*
1	10.7	1	10.7	1	Sugar Maple	Sawtimber	1.7	MBF	10.7	\$5,053.20
2	9.8	2	9.8		Balsam Fir	Pulpwood	54	Cords		
3	25.2	3	25.2		Mixed Aspen	Pulpwood	152	Cords		
4	86.4	4	21.0		Quaking Aspen	Pulpwood	152	Cords		
		5	17.1		Mixed Hardwood	Pulpwood	106	Cords		
		6	23.6		Balsam Poplar	Pulpwood	32	Cords		
		7	24.7		Paper Birch	Pulpwood	14	Cords		
					Red Maple	Pulpwood	43	Cords		
					Sugar Maple	Pulpwood	17	Cords		
2	Basswood	Sawtimber	5.7		MBF	9.8	\$3,616.40			
	Paper Birch	Sawtimber	6.4		MBF					
	Sugar Maple	Sawtimber	3.5	MBF						
	Balsam Fir	Pulpwood	6	Cords						
	Mixed Aspen	Pulpwood	14	Cords						
	B. T. Aspen	Pulpwood	5	Cords						
	Quaking Aspen	Pulpwood	9	Cords						
	Mixed Hardwood	Pulpwood	108	Cords						
	Basswood	Pulpwood	11	Cords						
	Paper Birch	Pulpwood	21	Cords						
	Red Maple	Pulpwood	8	Cords						
	Sugar Maple	Pulpwood	68	Cords						
	3	Basswood	Sawtimber	26.5	MBF			25.3	\$8,122.90	
Sugar Maple		Sawtimber	13.1	MBF						
Mixed Aspen		Pulpwood	4	Cords						
B. T. Aspen		Pulpwood	4	Cords						
Mixed Hardwood		Pulpwood	197	Cords						
Basswood		Pulpwood	51	Cords						
Red Maple		Pulpwood	7	Cords						
Sugar Maple		Pulpwood	139	Cords						
4		Basswood	Sawtimber	17.0	MBF	21.5	\$5,750.70			
	Paper Birch	Sawtimber	0.6	MBF						
	Red Maple	Sawtimber	1.7	MBF						
	Sugar Maple	Sawtimber	8.2	MBF						
	Yellow Birch	Sawtimber	0.2	MBF						
	Mixed Aspen	Pulpwood	3	Cords						
	Quaking Aspen	Pulpwood	3	Cords						
	Mixed Hardwood	Pulpwood	143	Cords						
	Basswood	Pulpwood	37	Cords						
	Black Ash	Pulpwood	1	Cords						
	Ironwood	Pulpwood	1	Cords						
	Paper Birch	Pulpwood	1	Cords						
	Red Maple	Pulpwood	26	Cords						
	Sugar Maple	Pulpwood	77	Cords						
	5	Basswood	Sawtimber	13.4	MBF			16.9	\$4,547.20	
		Paper Birch	Sawtimber	0.5	MBF					
Red Maple		Sawtimber	1.3	MBF						
Sugar Maple		Sawtimber	6.5	MBF						
Yellow Birch		Sawtimber	0.2	MBF						
Mixed Aspen		Pulpwood	3	Cords						
Quaking Aspen		Pulpwood	3	Cords						
Mixed Hardwood		Pulpwood	112	Cords						
Basswood		Pulpwood	29	Cords						
Black Ash		Pulpwood	1	Cords						

DESCRIPTION OF TIMBER BY PU						
PU	GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADV PRICE*
	<i>Ironwood</i>	<i>Pulpwood</i>	1	<i>Cords</i>		
	<i>Paper Birch</i>	<i>Pulpwood</i>	1	<i>Cords</i>		
	<i>Red Maple</i>	<i>Pulpwood</i>	20	<i>Cords</i>		
	<i>Sugar Maple</i>	<i>Pulpwood</i>	60	<i>Cords</i>		
6	Basswood	Sawtimber	18.9	MBF	23.9	\$6,394.70
	Paper Birch	Sawtimber	0.6	MBF		
	Red Maple	Sawtimber	1.9	MBF		
	Sugar Maple	Sawtimber	9.1	MBF		
	Yellow Birch	Sawtimber	0.3	MBF		
	Mixed Aspen	Pulpwood	4	Cords		
	<i>Quaking Aspen</i>	<i>Pulpwood</i>	4	<i>Cords</i>		
	Mixed Hardwood	Pulpwood	158	Cords		
	<i>Basswood</i>	<i>Pulpwood</i>	41	<i>Cords</i>		
	<i>Black Ash</i>	<i>Pulpwood</i>	1	<i>Cords</i>		
	<i>Ironwood</i>	<i>Pulpwood</i>	1	<i>Cords</i>		
	<i>Paper Birch</i>	<i>Pulpwood</i>	1	<i>Cords</i>		
	<i>Red Maple</i>	<i>Pulpwood</i>	28	<i>Cords</i>		
	<i>Sugar Maple</i>	<i>Pulpwood</i>	85	<i>Cords</i>		
	<i>Yellow Birch</i>	<i>Pulpwood</i>	1	<i>Cords</i>		
7	Basswood	Sawtimber	19.1	MBF	24.1	\$6,475.60
	Paper Birch	Sawtimber	0.6	MBF		
	Red Maple	Sawtimber	1.9	MBF		
	Sugar Maple	Sawtimber	9.2	MBF		
	Yellow Birch	Sawtimber	0.3	MBF		
	Mixed Aspen	Pulpwood	4	Cords		
	<i>Quaking Aspen</i>	<i>Pulpwood</i>	4	<i>Cords</i>		
	Mixed Hardwood	Pulpwood	161	Cords		
	<i>Basswood</i>	<i>Pulpwood</i>	42	<i>Cords</i>		
	<i>Black Ash</i>	<i>Pulpwood</i>	2	<i>Cords</i>		
	<i>Paper Birch</i>	<i>Pulpwood</i>	1	<i>Cords</i>		
	<i>Red Maple</i>	<i>Pulpwood</i>	29	<i>Cords</i>		
	<i>Sugar Maple</i>	<i>Pulpwood</i>	86	<i>Cords</i>		
	<i>Yellow Birch</i>	<i>Pulpwood</i>	1	<i>Cords</i>		

* Price as of 10/24/2025. May change before advertisement.

ADVERTISED PRICE							
MARKET GROUP	PRODUCT	QUANTITY	UNITS	BASE PRICE*	FACTORED PRICE*	ADVERTISED PRICE*	ADJ PRICE
Basswood	Sawtimber	100.6	MBF	\$77.76	\$77.76	\$58.00	☐
Paper Birch	Sawtimber	8.7	MBF	\$109.93	\$109.93	\$82.00	☐
Red Maple	Sawtimber	6.8	MBF	\$234.69	\$234.69	\$176.00	☐
Sugar Maple	Sawtimber	51.3	MBF	\$400.39	\$400.39	\$300.00	☐
Yellow Birch	Sawtimber	1.0	MBF	\$176.86	\$176.86	\$133.00	☐
Balsam Fir	Pulpwood	60	Cords	\$7.31	\$7.31	\$5.50	☐
Mixed Aspen	Pulpwood	184	Cords	\$25.09	\$25.09	\$18.80	☐
Mixed Hardwood	Pulpwood	985	Cords	\$17.46	\$17.46	\$13.10	☐
* Price as of 10/24/2025. May change before advertisement.							SALE FACTOR 0%
SALE SUMMARY				AVG STUMPAGE PRICE \$53,345.07	ADJ STUMPAGE PRICE \$53,345.07	ADVERTISED PRICE \$39,960.70	ROOM TO BID -25%
							EXTRAORDINARY ROAD COSTS
SALE FACTOR COMMENTS							
EXTRAORDINARY ROAD COST'S COMMENTS							
ADJUSTMENT REASON COMMENTS							

LEGAL DESCRIPTION			
TWN	RANGE	SEC	QUARTER QUARTER
43N	30W	19	NWSW
43N	31W	13	SWNW,NWSW
43N	31W	14	SENE,SE
43N	31W	24	N1/2SE

ACQUISITION		
ACQUISITION FUND	ACRES	%
Exchange (Private Acq)	18.9	14.3
Tax Reverted	113.3	85.7

PROPOSAL REPORT NOTES

SALE NOTE (The sale note prints on the prospectus cover sheet and the Timber Sale information page. It is limited to 1,000 characters.) Access to Payment Unit 3 may require temporary culverts/crossing and a permit.

Sale Specific Conditions & Requirements

Sale Name: Puppy Paw Hardwood

Sale Number: 12-052-26 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 red and/or yellow paint. Retention patches are marked with red paint; no harvesting activities may occur within these areas. The painted boundary line trees, red and yellow, are not Included Timber and are to be protected unless marked with orange paint.

2 - Timber Specifications

2.1 - Included Timber

2.1.2 - Clearcut Unit(s) w/o Unmerchantable Trees (8/11)

Within Payment Unit(s) 1, cut all trees which meet minimum piece specifications in 2.2 Utilization. Leave all conifer, oak, and yellow birch.

2.1.3 - Cut Tree Marked Unit(s) (12/08)

Within Payment Unit(s) 2-7, all trees are designated for cutting when marked with orange paint above and below stump height, regardless of merchantability. In addition, within Payment Unit 2, remove all merchantable balsam fir.

2.1.7 - Leave Tree Marked Unit(s) (6/14)

Within Payment Unit(s) 1, all trees, which meet minimum piece specifications in 2.2 Utilization, are designated for cutting except cedar, pine, white spruce, oak, yellow birch, and trees marked with green paint above and below stump height.

2.2 - Utilization

2.2.6 - Roundwood Operation Required (3/21)

The skidding of whole trees or tree segments with limbs attached is prohibited within Payment Units 2-7. All products must be produced as roundwood and forwarded to existing roads or landing areas in final product length.

3 - Payments

3.4 - Damaged Timber

3.4.1 - Damaged Timber (12/24)

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. 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

4.1.4 - Timber Removed for Construction (3/23)

Trees cut or damaged in the process of pre-approved road, landing, or skid trail construction will be decked in an area separate from other Designated Timber and not removed until measured by the Sale Administrator. Payment will be made at contract prices or average prices, if not on the contract.

4.1.5 - Culverts (5/14)

Roads may require the installation of culverts for cross drainage or at natural drainage-ways accessing the Payment Unit 3 area. If culverts are needed in these locations, their placement will be specified by the Sale Administrator, and they shall be installed prior to hauling. The culverts shall be corrugated metal or plastic. Culverts will be a minimum of 12 inches in diameter and 24 feet in length. If culverts are removed, fill shall be removed from wetland soils as specified. Soils shall be maintained and left in a non-erodible condition, with water bars, seed, fertilizer, mulch, and slash installed as directed by the Sale Administrator and as specified in the BMP manual. Stream crossing permits, if needed, will be obtained by the DNR.

4.1.6 - Road Construction (4/24)

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 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. Contact the Sale Administrator for specific details of design and placement.

4.2 - Maintenance**4.2.4 - Grading (10/16)**

For completion of the sale, state forest roads must be graded. In general, this will require a road grader or bulldozer to shape up the roads 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.

4.2.5 - 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**5.2 - Conduct of Operations****5.2.1 - Slash****5.2.1.11 - Slash for Reforestation (3/21)**

To facilitate reforestation, the sale area shall be left with slash evenly distributed. 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 - 7, unless changed by written agreement, cutting, skidding, and hauling are limited to the period of December 1 through March 31. This restriction is due to the deer wintering range.

5.2.3.3 - Bark Slippage Restriction (3/09)

Within Payment Unit(s) 2-7, 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.

5.2.17 - Timber Mats and Interlocking Composite Mats (5/23)

Some roads or skid trails accessing Payment Unit 3 may require extra protection such as that afforded by timber mats, interlocking composite mats, or another approved system. If available, mats may be borrowed from the DNR. A Timber Sale Contract Amendment will be used to document the Purchaser's use of the DNR's mats. Contact the Sale Administrator regarding availability and pick-up. Timber mats are available from various field offices. Composite mats are only available from the Marquette ICC. The Purchaser is responsible for picking up and hauling the mats to and from the site. The composite mats will require DNR staff onsite for installation and removal. Contact the Sale Administrator to schedule at least 30 days before desired install/removal date. All mats must be cleaned prior to drop off. This may include, but is not limited to, power washing and brushing to remove mud and debris. A charge of \$700.00 per timber mat and \$2,000.00 per composite mat will be assessed for all damaged or non-returned mats. Damage for the crane/timber mats is defined as three or more broken cants. Damage for the composite mats is defined as cracked or broken mats.

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.

5.4 - 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 are 6 inches or greater in depth and 50 feet in length. Note: Trees within 10 feet of ruts exceeding 6 inches deep will be considered damaged due to damage caused to the tree roots and will be billed in accordance with 3.4 Damaged Timber. 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 (10/20)

The Purchaser is responsible for posting and maintaining caution signs on Way Dam Road and/or County Line / Wright Road, and any forest access routes used while operations are active, 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.



Michigan Department of Natural Resources - Forest Resources Division

TIMBER SALE MAP

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

Forest Management Unit		County	Mapped By: Brolin	Scale 1:20,000	Page 1	Of 1
Crystal Falls Mgt Unit		Dickinson	Cruised By: Brolin			
Township 43N	Range 30W /	Section(s) and Subdivision(s) Sec. 13 SWNW,NWSW; Sec. 14 SENE,SE; Sec. 19 NWSW; Sec. 24 N1/2SE;				

Cover Type			
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand
G = Grass	MD = Mixed Deciduous		Z = Water
H = Hemlock	N = Marsh		

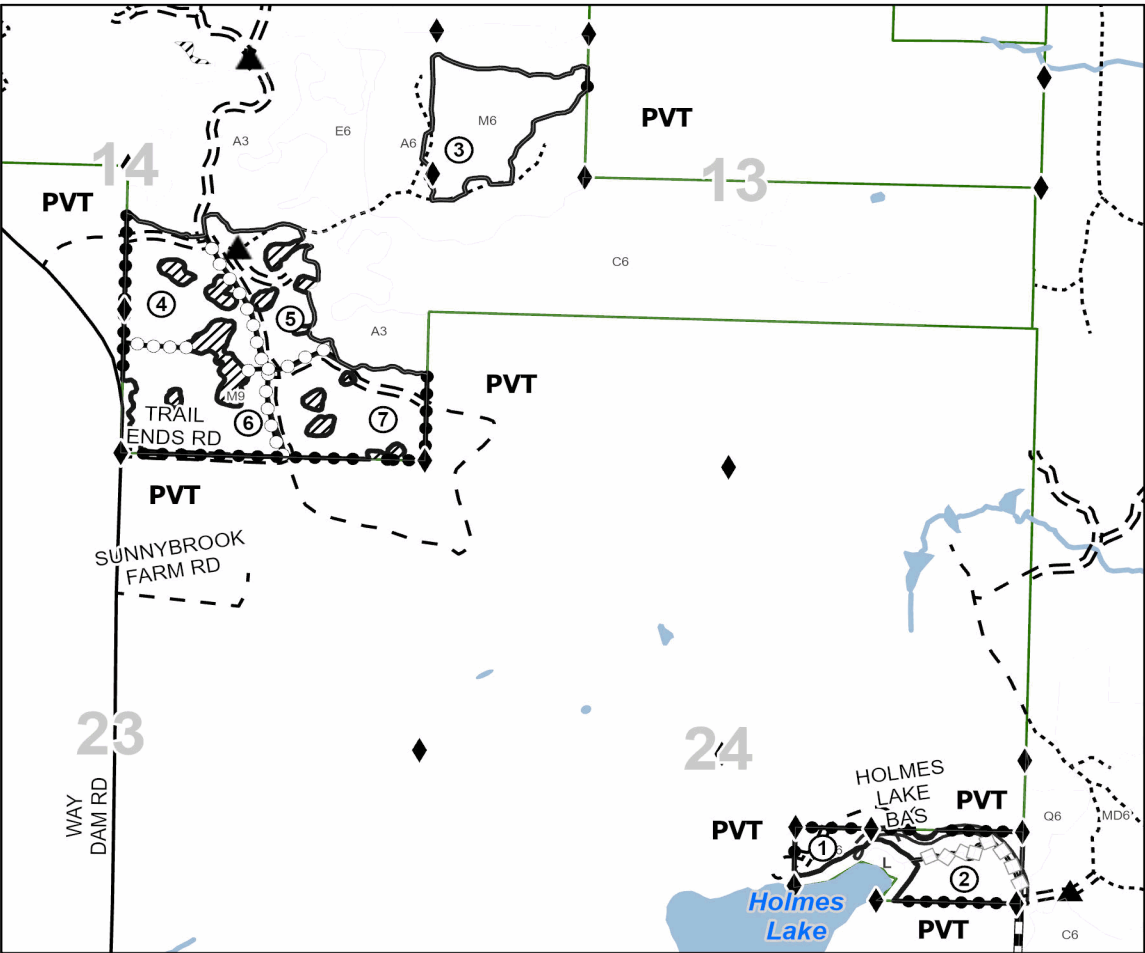
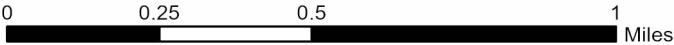
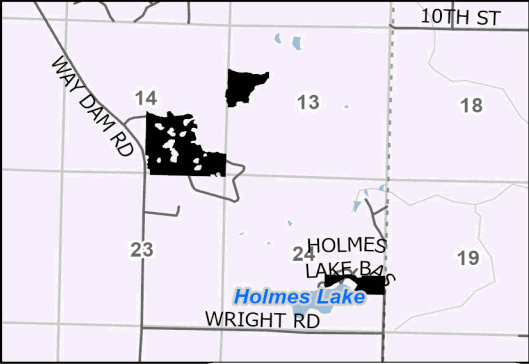
Density	
0 = Non Stocked	5 = Pole Timber Medium
1 = Seedling Sapling Poor	6 = Pole Timber Well
2 = Seedling Sapling Medium	7 = Saw Timber Poor
3 = Seedling Sapling Well	8 = Saw Timber Medium
4 = Pole Timber Poor	9 = Saw Timber Well

Payment Unit Number	Acres	Payment Unit Number	Acres
1	10.7	5	16.9
2	9.8	6	23.9
3	25.3	7	24.1
4	21.6		

Puppy Paw Hardwood

132.2 Acres
Compartment 145

Locator Map 1:75,000



Legend

- Payment Unit
- Private Line (Blue)
- Payment Unit (Yellow)
- Payment Unit (Red)
- Primary Forest Road
- Forest Access Route
- Administrative Access Only
- Paved Road
- Government Gravel/Dirt
- Private Gravel/Dirt
- Survey Grade Corner
- Berm

Use QR Code to open Map in App



