



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72228

Entry Year 2026

Acreage: 1,253

County Crawford

Management Area: High Sand Plains

Stand Examiner: Scott McClarren

Legal Description:

T25N R3W Sections 25, 26, and 27

Identified Planning Goals:

The emphasis of management shall be on retaining and enhancing the natural beauty and biological diversity of the area. All management should focus on enhancing wildlife habitat for both hunting and wildlife observation purposes while maintaining forest health, productivity, sustainability, and species and structural diversity while accounting for visual management and multiple uses.

Soil and topography:

The upland is Rubicon sand and the lowland is Lupton muck. The center of the compartment is level and low. The east and west portions are gently rolling upland.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

This compartment consists of contiguous state ownership intermixed with private in-holdings along boundaries.

Unique Natural Features:

Hill's thistle (*Cirsium pumilum* var. *hillii*) is found in this compartment.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

This area is a winter deer yard and has important wildlife habitat. Wildlife management should take priority in the area.

Watershed and Fisheries Considerations:

The compartment contains Mud Lake, a small warm water pond that provides excellent wildlife habitat. The compartment also contains Beaver Creek, a designated trout stream.

Wildlife Habitat Considerations:

A lot of swamp area and wetlands are located in the center of this compartment. Adjacent uplands should be managed to provide food and cover.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The closest known active sand & gravel operation is less than one mile north. There appears to be some good potential for sand & gravel within the compartment on the uplands in Sec 25. The closest oil & gas production, past or present, is several miles away. There has been no recent oil & gas well permit activity in the area and no recent leasing activity involving State-owned oil & gas rights. Potential for development of hydrocarbons from beneath the compartment is considered low at this time.

Vehicle Access:

The County Roads of Johnson Road, Billman Road, and Pioneer Road run along the boundaries of the compartment. Access to the east and west ends of the compartment is easily obtained off county roads and trail roads. The center of the compartment is relatively inaccessible due to wet conditions. I-75 is located just to the west of the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no designated trails or facilities in the compartment. Dispersed recreational opportunities include hunting, bird watching, hiking, and trapping.

Fire Protection:

The County Roads of Johnson Road, Billman Road, and Pioneer Road run along the boundaries of the compartment.

Access to the east and west ends of the compartment is easily obtained off county roads and trail roads. The center of the compartment is relatively inaccessible due to wet conditions. The center of the compartment is level and lowland with the east and west portions are gently rolling upland. The upland consists mostly of gently rolling hills. Wet conditions have resulted in low hazard fuel types throughout compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

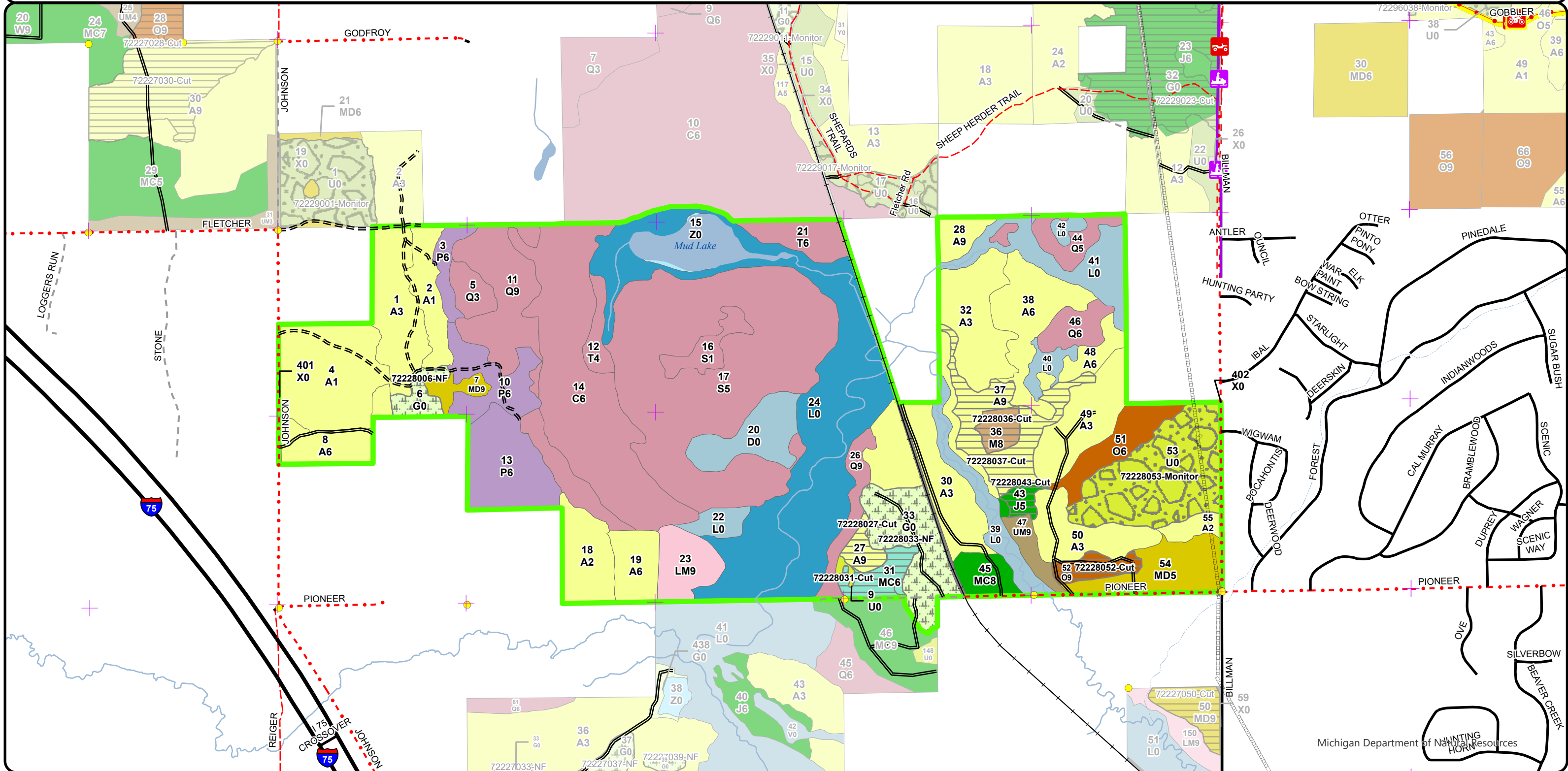
Cover Type & Treatments Map

Compartment: 72228
 T25N, R3W, Sec: 25-27
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1252.8 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 07/11/2024
 Map Phase: Web-Post



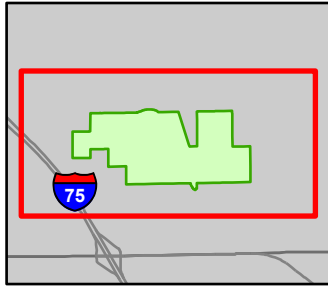
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- Survey Grade Corners
- + Remonumented Section Corners
- Motorcycle Trails (DNR License)
- MCCCT Trails
- ORV Routes
- Snowmobile Trails
- Designated ORV Routes
- Designated MCCCT Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland



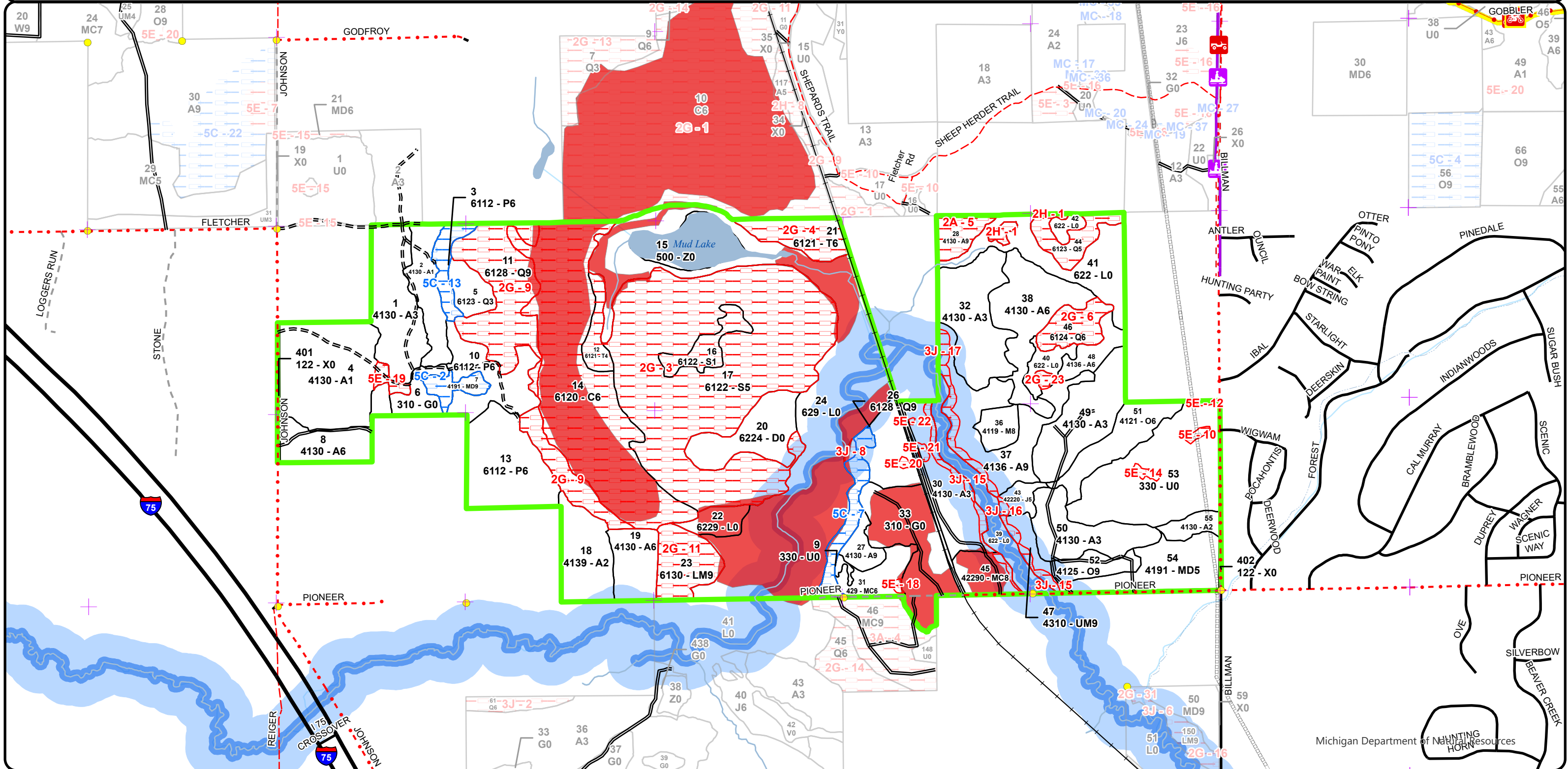
**Special Conservation Areas
& Site Conditions Map**

Compartment: 72228
 T25N, R3W, Sec: 25-27
 County: Crawford
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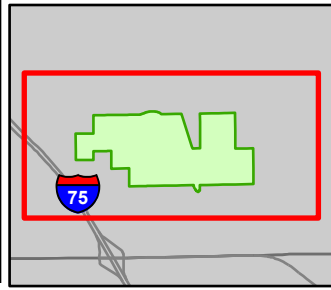


- Survey Grade Corners
- + Remonumented Section Corners
- 🏍️ Motorcycle Trails (DNR License)
- 🏍️ MCCCT Trails
- 🏍️ ORV Routes
- 🏍️ Snowmobile Trails
- Designated ORV Routes
- Designated MCCCT Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties

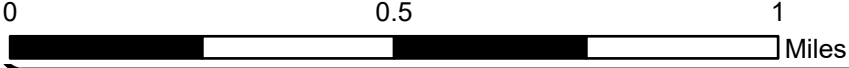
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams



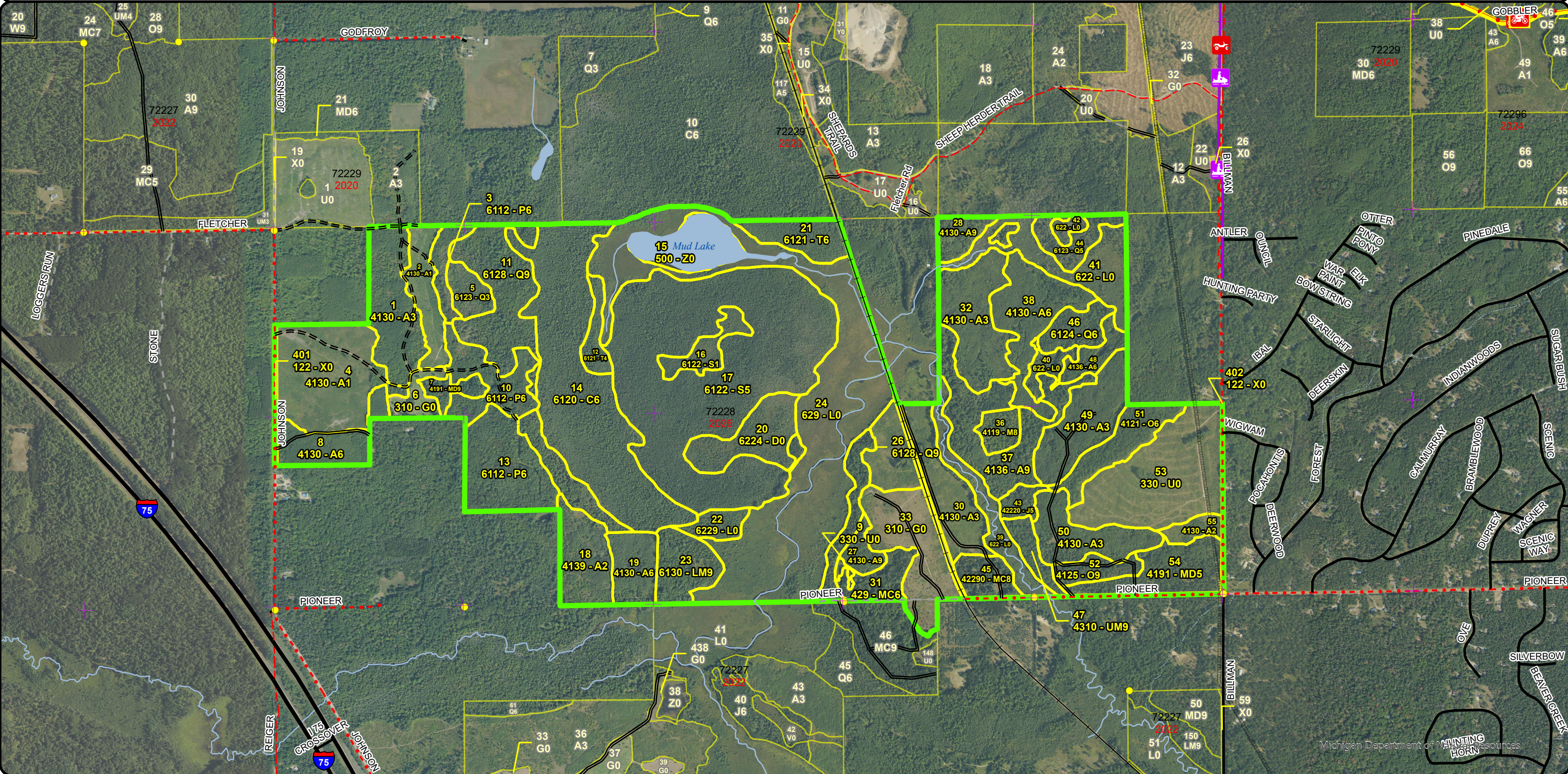
Stand Boundary Map



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 T25N, R3W, Sec: 25-27
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2026
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- Survey Grade Corners
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- Motorcycle Trails (DNR License)
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- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
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- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- State Forests





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	106	131	52	17	0	6	8	38	0	0	0	0	0	0	0	0	0	358
Cedar	0	0	0	0	0	0	0	0	0	0	0	94	0	0	0	0	0	0	94
Herbaceous Openland	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Jack Pine	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Lowland Aspen/Balsam Poplar	0	0	0	0	21	40	0	0	0	0	0	0	0	0	0	0	0	0	61
Lowland Conifers	0	0	0	0	0	8	0	0	12	23	0	0	0	50	0	0	0	0	93
Lowland Mixed Forest	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	17
Lowland Shrub	202	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	202
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	10	0	160	0	0	0	0	0	0	170
Mixed Upland Deciduous	0	0	0	0	23	0	0	0	0	0	0	6	0	0	0	0	0	0	29
Natural Mixed Pines	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Oak	0	0	0	0	0	0	18	0	0	8	0	0	0	0	0	0	0	0	26
Tamarack	0	0	0	0	0	0	0	14	7	0	0	0	0	0	0	0	0	0	21
Treed Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Conifers	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	345	106	131	52	61	58	40	39	64	41	7	260	0	50	0	0	0	0	1253



Report 2 – Treatment Summary

Grayling Mgt. Unit

Compartment 228

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 1,253

Commercial Harvest - 66
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory Removal	Salvage	Other	Total Acres
Aspen	36	0	0	0	0	0	0	0	0	36
Jack Pine	4	0	0	0	0	0	0	0	0	4
Northern Hardwood	7	0	0	0	0	0	0	0	0	7
Oak	8	0	0	0	0	0	0	0	0	8
Upland Conifers	10	0	0	0	0	0	0	0	0	10
Total	66	0	0	0	0	0	0	0	0	66

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	66	0	0	0	0	0	55	0	40	160
Next Step	0	0	0	0	0	0	66	0	0	66
Total	66	0	0	0	0	0	120	0	40	225



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

6	72228006-NF	7.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub
Specs: planting, herbicide application, and removal of invasive species.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

27	72228027-Cut	5.9	4130 - Aspen	Sawtimber Well	51	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Harvest all stems 2" and greater except leave all x-log size oak for mast. No retention to maximize regen due to small stand size. Extend
Specs: boundary into stand 26 to capture some of the aspen on the transitional ground along its east side. Include grouse drumming log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen objective. Any oak, maple, or conifers will be acceptable as well.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

31	72228031-Cut	10.2	429 - Mixed Upland Conifers	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Harvest all merchantable stems. Protect advanced coniferous regeneration. Extend boundary into stand 26 to capture some of the aspen on
Specs: the transitional ground along its east side.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Mix of deciduous and coniferous species. Aspen, oak, maple, and all coniferous spp. are acceptable.
Regen:

Other Long-term retention has been designated as a 100' buffer around an unevaluated depression found and reported to state archeologist during
Comment: inventory.

Site Condition

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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33	72228033-NF	32.3	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Specs: Periodic opening maintenance, as needed, that may include Rx burning, disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

36	72228036-Cut	6.9	4119 - Mixed Northern Hardwoods	Sawtimber Medium	98	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Specs: Harvest all stems 2" and greater except, leave all hemlock and super canopy pine. No retention due to small stand size and to maximize regen. Recommend harvest during dry summer or frozen winter conditions to reduce the risk of rutting. Include grouse drumming log spec.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Any mix of hardwoods, aspen, or conifer will be acceptable.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

37	72228037-Cut	29.9	4136 - Aspen, Mixed Conifer	Sawtimber Well	75	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Harvest all stems 2" and greater except, leave all hemlock and super canopy pine. A 150' buffer has been designated as long-term retention along Beaver Creek. A pocket of lowland pine was also removed from the treatment area. Recommend harvest during dry summer or frozen winter conditions to reduce the risk of rutting. Include grouse drumming log spec.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Accept aspen, oak, and all conifer.

Other Comment: Road is rutted with deep holes in places. Road maintenance likely needed prior hauling.

Site Condition

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
43 72228043-Cut	4.3	42220 - Natural Jack Pine	Poetimber Medium	58	1-50	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all merchantable stems. Protect advanced regen. A 150' buffer on Beaver Creek has been designated as long-term retention. Extend treatment about 100' into north side of stand 47 to capture some of the declining oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> All conifers, aspen, oak, and maple will be accepted.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
52 72228052-Cut	8.3	4125 - Black, N. Pin Oak	Sawtimber Well	86	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater. No retention due to stand size and declining health of oak. Include oak wilt restrictions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> 10-20% oak objective. Aspen, maple, and conifer will be accepted as well. Accept stand at a moderate stocking, heavy browse expected.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
53 72228053-Monitor	54.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Check regen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak objective.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand regenerated nicely to oak most places but, didn't reach 6' criteria at time of inventory and needs more time to recruit.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment Acreage Proposed: 159.7

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 228

Scott McClarren : Examiner

Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5C	2A	2G	2H	3J	5E
359	335	0	24	Aspen		8	1		11	4
94	0	0	94	Cedar			94			
40	40	0	0	Herbaceous Openland						
5	4	0	1	Jack Pine					1	
56	53	0	2	Low-Density Trees						2
61	53	8	0	Lowland Aspen/Balsam Poplar	8					
93	8	11	73	Lowland Conifers	11		61	12	1	
17	0	0	17	Lowland Mixed Forest			17			
202	202	0	0	Lowland Shrub	0				0	
169	0	0	169	Lowland Spruce/Fir			169			
29	23	6	0	Mixed Upland Deciduous	6					
10	9	0	1	Natural Mixed Pines					1	
7	7	0	0	Northern Hardwood						
26	26	0	0	Oak						
21	0	0	21	Tamarack			21			
22	22	0	0	Treed Bog						
11	10	0	0	Upland Conifers						0
7	4	0	3	Upland Mixed Forest					3	
8	8	0	0	Urban						
18	18	0	0	Water						
1,253	822	24	406	Total Forested Acres	24	8	363	12	16	7
	66%	2%	32%	Relative Percent						

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 228

Scott McClarren : Examiner

Year of Entry: 2026

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand 7 used to be 2 separate stands that were merged together due to small size. West half was previously identified as cover for WL adjacent to maintained WL opening. East half of stand is natural pine and is being delayed due to hold on managing natural pine. Small older stand adds some diversity to the area.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	270	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Mud Lake ERA (MNFI Poor Conifer Swamp and Rich Conifer Swamps).							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2A: Adjacent landowner denied access	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Adjacent landowner denied access in 2020.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 228

Scott McClarren : Examiner

Year of Entry: 2026

7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is a long narrow strip of transitional ground between upland and lowland and appears healthy. No treatment needed at this time.							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Beaver Creek (Natural River Tributary 150' buffer)							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Most of stand looks too wet to support a commercial harvest.							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

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Year of Entry: 2026

13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold harvest on small stand until stand 10 is ready.							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 150' natural river tributary buffer for Beaver Creek.							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 150' natural river tributary buffer for Beaver Creek and long-term retention associated with stand 43 treatment.							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 150' natural river tributary buffer for Beaver Creek and long-term retention associated with stand 37 treatment.							
18	Unavailable	5E: Long-Term Retention	1	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 228
Year of Entry: 2026

20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hummocky pine bog excluded from treatment area.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
1	4130 - Aspen	Sapling Well	29.4	17	Immature	N/A	Aspen with high oak/maple sub-canopy. There's portion in the north that's more open with maple and oak stump sprouts with a lot of heavily browsed oak between. Old comments- Stand was cut in 2007 (72-012-06-01). Good aspen regeneration mixed with red maple and oak stump sprouts. There are a couple of small sparse areas where the regeneration didn't come back as well, but overall stand is fully regenerating. Stand was supposed to be planted with an oak management objective, but we are dropping the planting and oak objective and accepting the current regeneration.																																																	
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2	4130 - Aspen	Sapling Poor	15.8	3	Immature	N/A	Stand regenerated to fully stocked aspen following harvest. Stand was clearcut in late summer and fall of 2021 as a part of the sale Narrow Trail Aspen (72-031-19). Old Comments: Mixed aspen stand, some canker noticed throughout the stand. Some older more mature trees on the west side of stand excluded from adjacent harvest. Leave stand for another 10 years then look to harvest.																																																	
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3	6112 - Lowland Aspen	Poletimber Well	7.5	49	81-110	N/A	Changed stand from upland to lowland with uplands. Aspen with a heavy maple component. Stand harvested in 1975. Old comments- Stand is just entering pole size class, looks to be wet in a couple areas. Has a nice conifer component especially in the far north part of the stand.																																																	
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4	4130 - Aspen	Sapling Poor	46.4	4	Immature	N/A	Stand regenerated to fully stocked aspen with the exception of some open areas of heavily browsed oak that I anticipate will recruit a few years. North half of stand cut 2019, south half of stand cut 2020 under Snood Mix, 72-042-16. Oak-Aspen stand in which all aspen was removed in 1964. Oak looks to be declining, there is more of an oak component in the north half of the stand and aspen is more dominant in the south half of the stand, red maple is fairly consistent throughout. Gypsy moth egg masses were noticed on the oak and aspen. This is a borderline log/pole stand.																																																	
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5	6123 - Lowland Fir	Sapling Well	8.1	49	1-50	N/A	Old comments- Stand was harvested in 1975. Thick balsam fir with quaking aspen and some red maple mixed in. A few open areas in the stand filled with tag alder. Much of the understory is filled with thick balsam fir.																																																	
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6	310 - Herbaceous Openland	Nonstocked	7.4			Managed Opening	Maintained wildlife opening with a small pocket of jack pine and a few scattered oak trees. JC update: Was planted to buckwheat & clover in 2016 (W72-786).																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.8	106	111-140	N/A	Merged an adjacent 2 acre natural white pine stand of similar origin (stand 9) with stand 7 to meet minimum acreage for forested stand. Oak and aspen are declining with mortality occurring throughout but, white pine looks healthy.																																																						
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8	4130 - Aspen	Poletimber Well	17.4	37	81-110	N/A	Old comments- Stand was cut in 1987 (72-16-87-01). Aspen dominated stand with some red maple and oak. Stand is now just entering pole size class.																																																						
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9	330 - Low-Density Trees	Nonstocked	1.1	0		No	New non-forested stand added. Grassy opening with shrubby white pine surrounding and scattered throughout. Stand appears to have been used for agriculture when looking at the old 1938 aerial imagery.																																																						
10	6112 - Lowland Aspen	Poletimber Well	21.0	37	51-80	N/A	Changed stand to lowland with upland due to hummacky poorly drained soils that look like they would be seasonally wet throughout most areas.																																																						
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11	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	49.9	128	141-170	N/A	Old comments- Variable stand, has some pockets of pure cedar and some pockets of spruce/fir. Where there is all cedar there is little to no understory, in canopy gaps and underneath spruce/ fir pockets it is thick with balsam fir and spruce regeneration. Red maple and aspen are scattered throughout the stand, but are more prominent at the north end of the stand. A couple of supercanopy white pine pockets are also in the stand.																																																						
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12	6121 - Tamarack	Poletimber Poor	7.1	72	1-50	N/A	Old comments- Small, sparse stand close to drainage into Mud Lake. Scattered tamarack, spruce and cedar with the understory full of tag alder and other lowland shrubs.																																																				
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13	6112 - Lowland Aspen	Poletimber Well	32.2	45	51-80	N/A	Changed stand from upland to lowland with upland. Ground looks hummocky and seasonally wet most places with cedar and open tag alder inclusions. Old comments- Stand was cut in 1979. Nice aspen/conifer mixed stand, has some wet areas throughout. East half of the stand looks to be more wet than the west half.																																																				
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14	6120 - Lowland Cedar	Poletimber Well	93.9	102	111-140	N/A	Mud Lake ERA (MNFI rich conifer swamp). Old comments- Mostly a cedar dominated stand, small diameter, has a couple of spruce/fir pockets. Most of the stand has a very thick balsam fir understory.																																																				
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15	500 - Water	Nonstocked	18.3			No	Mud Lake. Remote call made using aerial imagery.																																																				
16	6122 - Black Spruce	Sapling Poor	9.7	81	1-50	N/A	Remote call made using aerial imagery. Mud Lake ERA (MNFI poor conifer swamp). Old comments- Pocket of sapling sized trees in the middle of the spruce bog. Stand is very old for only being sapling sized. A few white pine have seeded in the stand.																																																				
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17	6122 - Black Spruce	Poletimber Medium	159.7	101	51-80	N/A	<p>Remove call made using aerial imagery. Mud Lake ERA (MNFI poor conifer swamp). Merged 1971 origin jack pine 2 acre upland (stand 25) in south east to meet MIFI requirements for forested stand size.</p> <p>Old comments- Spruce dominated stand, small diameter. Tamarack also found in the stand, more concentrated on the east end. This stand looks to be a wet, boggy area. Spruce is the only species found in the understory. Some areas the canopy is closed and some areas it is more open.</p> <p>Stand 25 old comments- Two small upland islands in the middle of the lowland. Jack pine dominated with a few red pine. Sparse understory with only a few balsam fir.</p>																																																		
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18	4139 - Aspen, Mixed Deciduous	Sapling Medium	20.9	15	Immature	N/A	<p>Stand transitions from open oak/cherry in the south an west to aspen in the north and east. Stand also gets wetter in the north as well.Old comments- A few sparse areas where landing and skid trails were, but overall stand is regenerating well. Majority of regeneration is aspen and red maple, a few aspen saplings look to be developing black canker already.</p>																																																		
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19	4130 - Aspen	Poletimber Well	14.5	28	51-80	N/A	<p>Aspen are a couple inches smaller in the north side of stand.Old comments- Final harvested in 1996 (72-031-96-02). Dense aspen stand with a small conifer component, balsam fir throughout stand is being used by wildlife. Pockets of aspen look to be developing black canker.</p>																																																		
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20	6224 - Treed Bog	Nonstocked	21.6			No	<p>Remote call made using aerial imagery.Old comments- Ground cover under snow is leatherleaf. Sparse tamarack and spruce scattered throughout.</p>																																																		
21	6121 - Tamarack	Poletimber Well	14.1	62	81-110	N/A	<p>Remote call made using aerial imagery. Old comments- Almost a pure tamarack stand with a couple of black spruce scattered throughout. Tag alder and tamarack make up most of the understory, the closer you get to beaver creek the more tag alder is present. A few balsam fir saplings are also scattered throughout the understory.</p>																																																		
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22	6229 - Mixed lowland shrub	Nonstocked	6.8			No	<p>Mud Lake ERA (MNFI Northern Shrub Thicket).</p> <p>Old comments- Wet stand with lowland shrubs and scattered spruce, tamarack, and a few cedar.</p>																																																		



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23	6130 - Fir, Aspen, Maple	Sawtimber Well	17.0	62	111-140	N/A	Stand becomes more open and wetter towards the east and the north.																																																					
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24	629 - Mixed non-forested wetland	Nonstocked	141.9			No	Mud Lake ERA (MNFI Northern Shrub Thicket and Northern Wet Meadow). Old comments- Cattail and tag alder swamp. Stand surrounds Mud Lake and has Beaver Creek running through the middle of it.																																																					
26	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	11.9	82	111-140	N/A	Kept stand as lowland but, most of it is transitional ground between upland barrens and lowland tag alder. Stand is a little more open in the south half. Old comments- Mixed stand along the Beaver Creek corridor, has some sparse areas where the canopy is open. Thick understory of balsam fir and black spruce, southern portion of stand has full coverage of balsam.																																																					
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27	4130 - Aspen	Sawtimber Well	5.9	51	111-140	N/A	Aspen is declining. Pole/sapling size balsam fir understory at high to full density.																																																					
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28	4130 - Aspen	Sawtimber Well	7.9	61	81-110	N/A	Land locked aspen stand. Adjacent landowner denied access in 2020.																																																					
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30	4130 - Aspen	Sapling Well	39.0	6	Immature	N/A	Stand met regen objective following harvest. Harvested 2018, Turkey Foot (72-044-16)Old comments- Nice aspen stand, has a heavy conifer component throughout stand in the understory. Average stand diameter increases the farther north you go in the stand. West side of railroad tracks has a pocket of basswood and red maple. At the north end of the stand some of the aspen has large cankers.																																																																									
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31	429 - Mixed Upland Conifers	Poletimber Well	10.7	54	81-110	N/A	Jack pine and aspen are declining quickly. Stand appears to have been used for agriculture when looking at the old 1938 aerial imagery.																																																																									
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32	4130 - Aspen	Sapling Well	31.1	17	Immature	N/A	Old comments- Final harvested in 2007 (72-012-06-01). Great aspen regeneration, a few red pine and white pine scattered throughout the stand that were left from the harvest.																																																																									
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33	310 - Herbaceous Openland	Nonstocked	32.3		Immature	Managed Opening	Open grassy stand with scattered cherry, prairie willow, and pockets of jack pine and aspen. Stand was agricultural use when looking at the old 1938 aerial imagery. Stand is part of the Mud Lake Pine Barrens ERA. Harvested 2018, Turkey Foot (72-044-16)																																																																									
								Old comments- Scattered, open grown jack pine mixed with a couple of white pine and red pine. Not sure if this is a maintained opening or not.																																																																								



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36	4119 - Mixed Northern Hardwoods	Sawtimber Medium	6.9	98	81-110	N/A	<p>Interesting covertype for the area, mix of low quality hardwood with a decent hemlock/fir component. I changed stand from lowland to upland with lowland, but it's tough to tell this time of year. Soils could be vulnerable to rutting if operated during wrong time of year (may be seasonally wet).</p> <p>Old comments- Mixed stand with mostly basswood and red maple. Canopy gaps are filled with ironwood and red maple.</p>																																																										
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Sub-Canopy Species	Density	Avg. Height	Size																																																														
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Balsam Fir	Medium	Variable	Sapling																																																														
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37	4136 - Aspen, Mixed Conifer	Sawtimber Well	37.8	75	81-110	N/A	<p>Changed stand from lowland to upland with lowlands. Rutting does pose a risk in this stand. Hemlock component, mostly near stand 36. Increased the aspen component in canopy data significantly from last entry. NE finger is lowland white pine with aspen and maple. NE finger also contains a small pocket of legacy white pines. 4 acre aspen stand 29 merged with stand to meet mapping standards for forested stands.</p> <p>Old comments- Very variable stand, made up of pockets of aspen, red maple, hemlock, and supercanopy red pine and white pine. Understory varies from no regeneration to thick balsam fir.</p> <p>Stand 29 old comments- Aspen with thick balsam fir understory in spots. A small portion of the stand is a lowland shrub area near Beaver Creek.</p>																																																										
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38	4130 - Aspen	Poletimber Well	29.9	26	51-80	N/A	<p>Old comments- Stand was cut in 1998 (72-024-96-01), very dense looks to be pretty wet. Has nice conifer component, looks like most of the pine and balsam was left from the previous harvest.</p>																																																										
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39	622 - Lowland Shrub	Nonstocked	17.3			No	Forested RMZ along west edge. Old comments- Lowland shrub area full of tag alder, beaver creek runs through middle of stand.																																																										
40	622 - Lowland Shrub	Nonstocked	5.8			No	Lowland shrub area with a few scattered mature aspen and a pocket of balsam fir.																																																										
41	622 - Lowland Shrub	Nonstocked	26.9			No	<p>Mostly tag alder with scattered aspen, fir, maple, spruce, and tamarack.</p> <p>Old comments- Large lowland shrub area, some aspen is filling in around the edges where there have been adjacent harvests.</p>																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
42	622 - Lowland Shrub	Nonstocked	2.9			No	Remote call made, previous inventory confirmed using aerial imagery. Old comments- Stand is full of lowland shrubs along with a few cattails. A few pole/sapling sized balsam fir scattered throughout.																																																																						
43	42220 - Natural Jack Pine	Poletimber Medium	5.0	58	1-50	N/A	Good white pine regen under declining jp and pin oak (med-high most places). Basal area is around 50 most places. Old comments- Small jack pine stand with some oak mixed in. Understory has some white pine seeding in along with a few balsam fir.																																																																						
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44	6123 - Lowland Fir	Poletimber Medium	12.0	72	81-110	N/A	Previous inventory confirmed with edge call made from lowland stand 41. Small 1 acre upland spruce island west of main stand merged with stand 44 to meet minimum acreage requirements for forested stands. Stand 44 old comments- Mostly balsam fir with some spruce and aspen mixed in. Where there are canopy gaps they are filled with tag alder and other lowland shrubs. Stand 34 old comments- Small upland island surrounded by lowland shrub area. The canopy consists of mostly balsam fir and spruce, Nice stand for wildlife to use.																																																																						
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45	42290 - Natural Mixed Pine	Sawtimber Medium	9.9	42	51-80	N/A	Changed stand from 1936 origin to 1982 after coring multiple trees and checking historical photos. Stand appears to have been used for agriculture when looking at the old 1938 aerial imagery. Stand is part of the Mud Lake Pine Barrens ERA. Old comments- Poor quality, open grown pole sized jack pine and log sized white pine, many of the white pine are multi-stemmed. Looks like this may have been a wildlife opening that has not been maintained and has grown in.																																																																						
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46	6124 - Lowland Spruce-Fir	Poletimber Well	10.8	80	81-110	N/A	Spruce and jack pine interior with aspen maple and alder in places. Changed age from 93 to 80. Old comments- Mixed conifer stand with a few canopy gaps throughout. Young aspen is filling in around the edges from adjacent cutting in 1996. Good wildlife cover.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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47	4310 - Pine, Oak Mix	Sawtimber Well	7.2	75	111-140	N/A	Pin oak is declining fast, but white pine is looking nice. Some legacy white pines scattered throughout stand. Oak/maple picks up heavier in north. Stand is adjacent to a lowland alder stand associated with Beaver Creek. Old comments- Mixed stand with oak, white pine and jack pine. Pole sized white pine is growing up underneath supercanopy white pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	9	Log	10		Balsam Fir	Low	Variable	Sapling
White Pine	50	Pole/Log/XLog	9	75	White Pine	Medium	Variable	Sapling
Balsam Fir	2	Pole	6		Red Maple	Low	Variable	Sapling
Red Maple	7	Log/Pole	10					
Northern Pin Oak	25	Log	12	75				
Jack Pine	3	Log	11					
White Oak	2	Pole	7					
Red Pine	2	Pole/Log	9					

48	4136 - Aspen, Mixed Conifer	Poletimber Well	7.8	26	Immature	N/A	Small tag alder lowland in north half. Small uncut pocket of mature aspen along pvt line. Changed to upland with lowland. Old comments- Cut in 1998 under same sale as stand 37. A small pocket of larger white pine is included in the stand, scattered balsam fir is also found throughout.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	3	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	70	Pole	5	26	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	2	Pole	5		Red Maple	High	>20 feet	Sapling
White Pine	10	Log/Pole	10					
Black Spruce	4	Pole	7					
Red Pine	1	XLog/Log	18					
Balsam Fir	5	Pole	8					
Red Maple	5	Sapling/Pole	4					

49	4130 - Aspen	Sapling Well	27.2	17	Immature	N/A	Old comments- Final harvested in 2007 (72-012-06-01), great aspen regeneration mixed with oak and red maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
Balsam Fir	2	Pole	6		Black Cherry	High	Variable	Sapling
Quaking Aspen	68	Sapling/Pole	4	17				
Black/Red (Hybrid) Oak	2	Pole/Sapling	5					
White Pine	3	Pole	8					
Bigtooth Aspen	10	Sapling/Pole	4					
Red Maple	10	Sapling/Pole	3					



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50	4130 - Aspen	Sapling Well	22.1	17	Immature	N/A	Old comments- Final harvested in 2007 (72-012-06-01), great aspen regeneration throughout most of the stand. The southwest portion of the stand is a little more sparse where there is less aspen and more oak/red maple stump sprouts.																																																																								
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51	4121 - Oak, Aspen	Poletimber Well	17.6	58	51-80	N/A	Oak and aspen look healthy still. About 3 acres of 80-90 year old oak on the south end is too small in size to split into separate stand. Stand is positioned on a west facing slope. Old comments- Pole sized oak mixed with pockets of aspen. A few larger, log sized trees in the southern end of the stand,																																																																								
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52	4125 - Black, N. Pin Oak	Sawtimber Well	8.3	86	81-110	N/A	Individual oak mortality and decline through stand. Some suppressed white pine in the west. Old comments- Oak stand with a couple of aspen pockets. Nice conifer component of white pine and balsam fir are seeding in some parts of the understory.																																																																								
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53	330 - Low-Density Trees	Nonstocked	54.5	0	Unspecified	No	Stand is still considered non-forested following harvest despite good oak regeneration. Trees are heavily browsed and below the 6' threshold. Most oak and maple are between 2'-5' at this time. DTE gas pipeline runs through stand. Stand cut winter 2018/2019, Billman Oak (#72-043-16). Old Comment- Stand was thinned to 61BA in 1998, they harvested mixed oak and red maple. Understory now has a mix of oak and red maple.																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
54	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	23.3	36	51-80	N/A	Jack pine heavier in south half and stump origin oak through most. A couple aspen pockets in north side as well. Old comments-Final harvested in 1988 (72-11-87-01). Nice mix of oak, jack pine, and aspen pockets. Stand has some sparse areas throughout, trees are just reaching pole size. Deer browse is occurring on oak seedlings that are in the understory.																																														
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55	4130 - Aspen	Sapling Medium	5.4	5	Immature	N/A	East side of stand is fully stocked aspen. West third of stand failed to regenerate to a desirable composition with heavy browse and scattered oak stump sprouts and cherry. Stand cut winter 2018/2019, Billman Oak (#72-043-16). Old Comments- Aspen stand, western portion of stand is more dominated by oak and red maple. Stand has a good amount of red maple in the understory, a lot of it is being browsed.																																														
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401	122 - Road/Parking Lot	Nonstocked	1.5	0		No																																															
402	122 - Road/Parking Lot	Nonstocked	6.4	0		No	RR track and roads																																														