



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32095

Entry Year 2026

Acreage: 975

County Alger

Management Area: Menominee-Marquette

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**Stand Examiner:** Peter Holodnick

## Legal Description:

T44N, R21W, Sections 2,3,10,11 and 14.

## Identified Planning Goals:

Planning will focus on timber management, forest recreation, fisheries management and wildlife habitat management. Public access, forest road maintenance, trespass incidents, forest regeneration, forest health, forest fire control, watershed considerations and resource damage are critical assessments considered during the forest mapping and inventory process. Overall forest management strives to provide for a diverse, healthy and productive forest through planning and implementation of sustainable, proper forest/habitat treatments.

## Soil and topography:

Lowland soils include: Carbondale, Lupton and Tawas soils; Nahma-Ruse complex; and Cathro-Ensley mucks. Upland soils include: Shoepac-Ensley complex, Shoepac-Trenary silt loams, Chatham fine sandy loam, Trenary silt loam, Kiva fine sandy loam, Kalkaska-Cusino complex, Traunik cobbly fine sandy loam, Summerville fine sandy loam and Charlevoix-Ensley complex. Terrain ranges from gently rolling hills and low, long ridges to level swamps.

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

This compartment is comprised of one main block of state acreage, and two isolated, smaller parcels. The large block is bordered by additional state land on the north and east sides and small private parcels to the west and south. Plum Creek lands and small private parcels surround the two isolated, smaller parcels. Many of the small private parcels have rustic camps located on them. Hunting is the primary recreational use of these small holdings while the Plum Creek land is intensively managed for timber. A large farm is found to the southwest of this compartment. The AuTrain Waterfowl Refuge and sharecrop fields are located along the north edge of this compartment.

## Unique Natural Features:

Canadian milk-vetch (*Astragalus canadensis*) to se.  
Potential for goshawk, osprey, red-shouldered hawk, wolf and moose. Potential for wood turtle along Dexter Creek.  
Potential for climbing fumitory, goblin fern, large toothwort, ginseng, showy orchis, and Assiniboia sedge in mature hardwoods.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## Special Management Designations or Considerations:

## Watershed and Fisheries Considerations:

This compartment contains Dexter Creek which serves as a tributary to the East Branch Whitefish River. Dexter Creek is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July temperature of 64.0 °F (cold stream). A 300-foot buffer is recommended for Dexter Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these areas in accordance with Best Management Practices.

## Wildlife Habitat Considerations:

This compartment is found within the Menominee-Marquette Management Area, on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Menominee-Marquette Management Area: American Woodcock, Blackburnian Warbler, Cerulean Warbler, Golden-winged Warbler, Black-backed Woodpecker, Ruffed Grouse, Turkey, American Marten, Snowshoe Hare, White-tailed Deer, Black Bear.

### **Mineral Resource and Development Concerns and/or Restrictions**

Sections 10, 11 and 14, T45N-R21W, Alger County

Surface sediments consist of medium-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. The Trenton and Black River are quarried for stone/dolomite elsewhere in the UP. Gravel pits are located in the area and potential appears to be good. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

### **Vehicle Access:**

Public vehicle access is good for many portions of this compartment via Paulson Road, Trout Lake Road and several forest roads. Access to the two small parcels off of M-67 is restricted by private property and gates.

### **Survey Needs:**

Several new survey monuments will be needed to accomplish land management activities.

### **Recreational Facilities and Opportunities:**

Hunting, fishing, berry picking, mushroom picking, trapping, dog walking, bird watching, off-road vehicle usage and snowmobiling are the primary undeveloped recreation uses. The AuTrain Waterfowl Refuge is located to the immediate north of this compartment.

### **Fire Protection:**

This area has a very low wildlife frequency and hazard rating.

### **Additional Compartment Information:**

**The following reports from the Inventory are attached:**

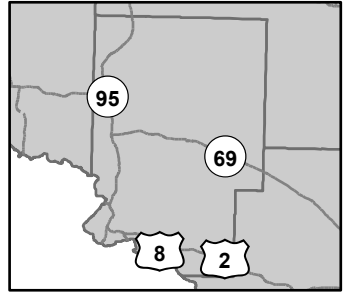
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

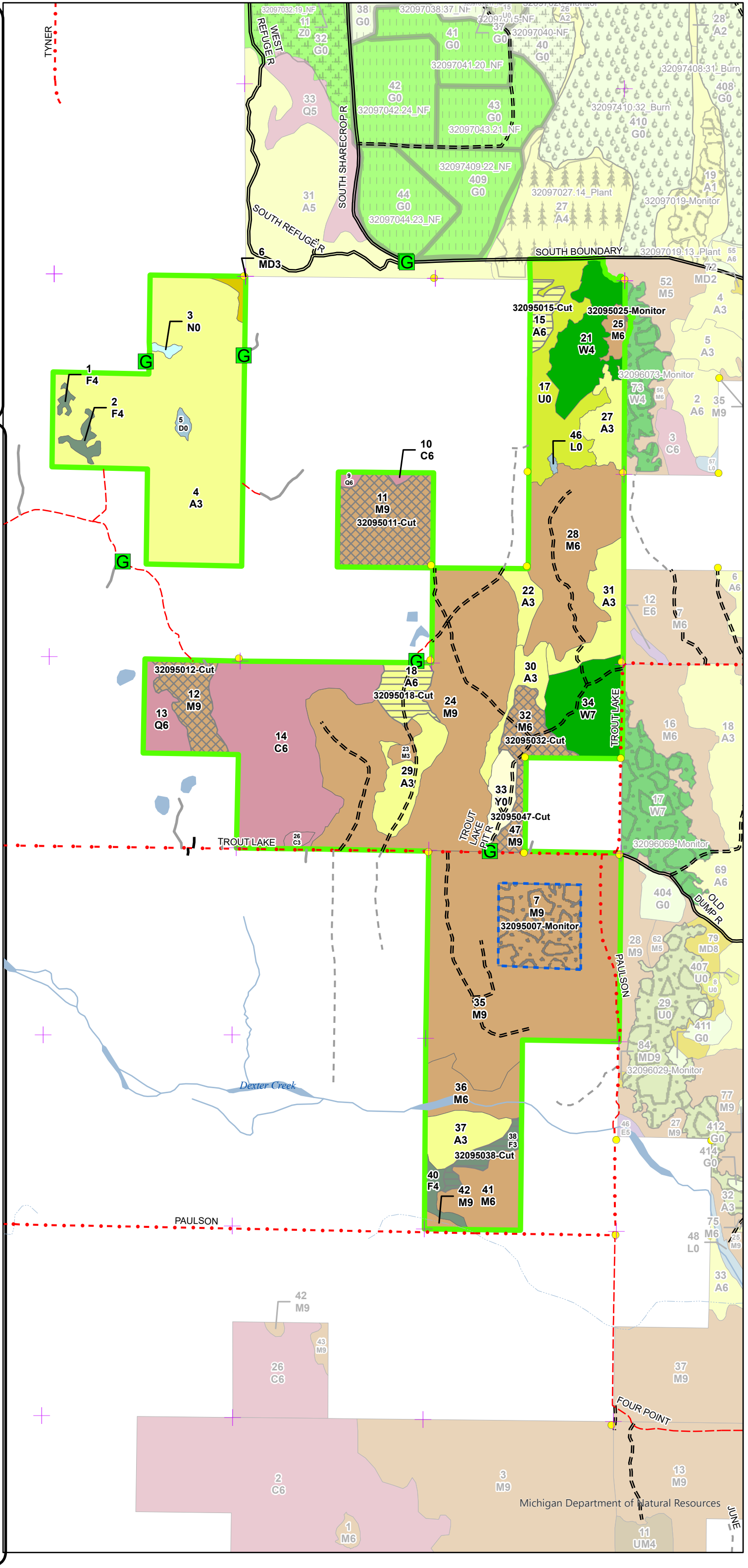
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 32095  
 T44N, R21W, Sec: 2, 3, 10, 11, 14  
 County: Alger  
 Unit: Gwinn  
 Mgmt Area: Menominee-Marquette  
 YOE: 2026  
 Acres: 974.8 GIS Calculated  
 Examiner: Peter Holodnick  
 Map Revised: 08/19/2024  
 Map Phase: Web - Post

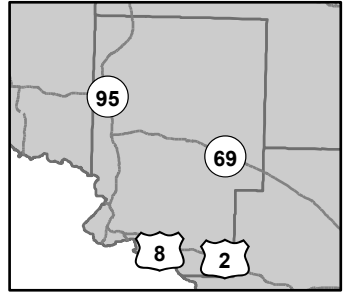


- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- ▲ Berms
- G Gate
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

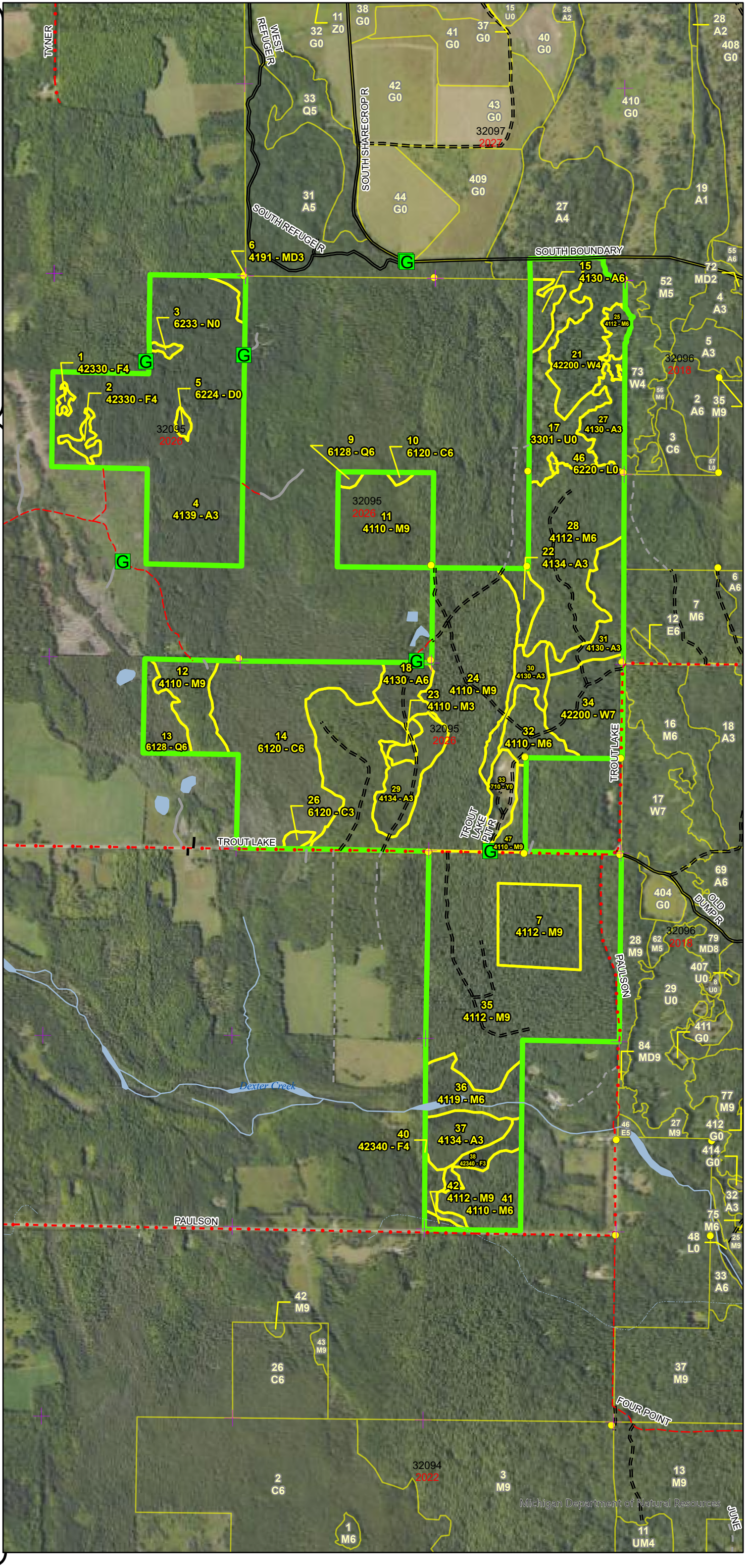


# Stand Boundary Map

Compartment: 32095  
 T44N, R21W, Sec: 2, 3, 10, 11, 14  
 County: Alger  
 Unit: Gwinn  
 Mgmt Area: Menominee-Marquette  
 YOE: 2026  
 Acres: 974.8 GIS Calculated  
 Examiner: Peter Holodnick  
 Map Revised: 08/19/2024  
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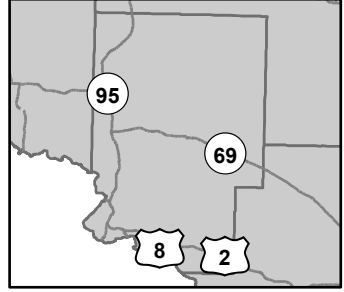


- + Remonumented Section Corners
  - Survey Grade Corners
  - Counties
  - ▲ Berms
  - G Gate
  - DNR - Secondary Forest Road
  - DNR - Forest Access Route
  - Federal / State / County - Paved Road
  - County - Gravel Road
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  - Private - Paved Road
  - Private - Dirt / Gravel Road
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  - Lake/Pond
  - Perennial River
  - Lakes and Rivers
  - Compartment Boundary
  - Stand Boundaries
- 
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 422 - Natural Pines
  - 423 - Other Upland Conifers
  - 612 - Lowland Coniferous Forest
  - 330 - Low Density Trees
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland
  - 710 - Sand/Soil
- 
- State Forests

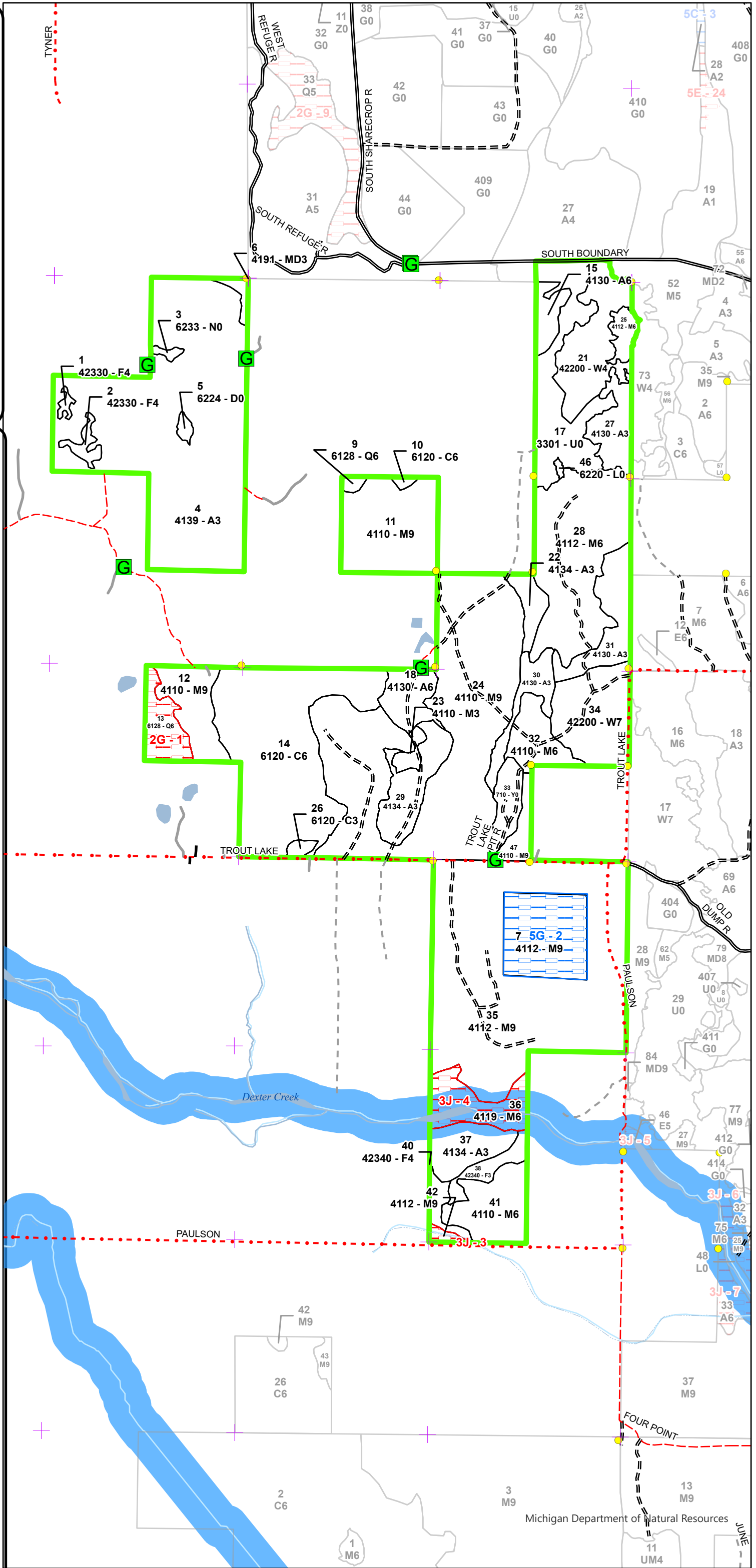


# Special Conservation Areas & Site Conditions Map

Compartment: 32095  
 T44N, R21W, Sec: 2, 3, 10, 11, 14  
 County: Alger  
 Unit: Gwinn  
 Mgmt Area: Menominee-Marquette  
 YOE: 2026  
 Acres: 974.8 GIS Calculated  
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- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- ▲ Berms
- G Gate
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer





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+	Uneven-Aged	Total
Aspen	0	0	31	35	168	0	19	0	0	0	0	0	0	0	0	0	0	0	253
Cedar	0	0	0	0	0	0	0	0	0	0	2	1	85	0	0	0	0	0	88
Low-Density Trees	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Conifers	0	0	0	0	0	0	1	0	0	0	0	0	12	0	0	0	0	0	13
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	3	0	0	0	5	2	48	51	144	18	0	0	0	0	227	498
Sand, Soil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Spruce/Fir	0	0	0	0	4	12	0	0	0	0	0	0	0	0	0	0	0	0	16
White Pine	0	0	0	0	0	0	0	28	0	30	0	0	0	0	0	0	0	0	58
<b>Total</b>	<b>48</b>	<b>0</b>	<b>31</b>	<b>38</b>	<b>174</b>	<b>12</b>	<b>20</b>	<b>33</b>	<b>2</b>	<b>78</b>	<b>53</b>	<b>145</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>227</b>	<b>975</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 95

Total Compartment Acres: 975

Commercial Harvest - 101  
 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	Overstory Removal	Salvage	Other	Total Acres
Aspen	19	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	75	0	0	0	0	0	0	0	75
Upland Spruce/Fir	7	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>26</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>101</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	101	0	0	0	0	0	31	0	0	132
Next Step	0	0	0	0	0	0	101	0	0	101
<b>Total</b>	<b>101</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>132</b>	<b>0</b>	<b>0</b>	<b>233</b>



S t a n d	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:**

11	32095011-Cut	37.8	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark individual trees for harvest to promote an uneven aged stand structure. Residual basal area should be between 80 to 90 square feet. Emphasis will be on improving the timber quality and productivity of the stand by releasing future crop trees. Retain any white pine, cedar, hemlock, oak, or white spruce present. Favor yellow birch, black cherry, and basswood to keep in the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any tree species currently in the overstory is acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

12	32095012-Cut	17.7	4110 - Sugar Maple Association	Sawtimber Well	110	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark individual trees for harvest to promote an uneven aged stand structure. Residual basal area should be between 80 to 90 square feet. Emphasis will be on improving the timber quality and productivity of the stand by releasing future crop trees. Retain any white pine, cedar, hemlock, oak, or white spruce present. Favor yellow birch, black cherry, and basswood to keep in the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree currently in the overstory is acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

15	32095015-Cut	6.9	4130 - Aspen	Poletimber Well	54	81-110	Harvest	Clearcut	413 - Aspen	Uneven-Aged	No
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Prescription Cut all merchantable species, do not cut white pine and basswood. No retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory is acceptable.

Regen:

Other

Comment: WLD Comments: Retain Basswood (9%) for cavity nesters, pollinators, and seed production for small mammals and White Pine (2%) -bear refuge trees, and wildlife nesting.

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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<b>18</b>	<b>32095018-Cut</b>	11.9	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all merchantable species, do not cut Hemlock, Cedar, Black Cherry and Yellow Birch. Leave 3 -10 % retention.  
Specs:

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

Acceptable Any tree species currently in the overstory is acceptable  
Regen:

Other WLD Comments: Also include 1 to 2 drumming logs of any species (9–15-inch DBH) at least 8 ft long immediately adjacent to a stump lying flat on the ground should be randomly left in the stand.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>32</b>	<b>32095032-Cut</b>	13.5	4110 - Sugar Maple Association	Poletimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark individual trees for harvest to promote an uneven aged stand structure. Residual basal area should be between 80 to 90 square feet. Emphasis will be on improving the timber quality and productivity of the stand by releasing future crop trees. Retain any white pine, cedar, hemlock, oak, or white spruce present. Favor yellow birch, black cherry, and basswood to keep in the stand.  
Specs:

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

Acceptable Any tree species currently in the overstory is acceptable.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>38</b>	<b>32095038-Cut</b>	6.7	42340 - Upland Spruce/Fir	Sapling Well	46	171-200	Harvest	Clearcut	42330 - Upland Fir	Even-Aged	No
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Prescription Cut all merchantable species, do not cut Hemlock, Cedar, Black Cherry, and Yellow Birch. No retention is needed due to small size of the stand.  
Specs:

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

Acceptable Any tree species currently in the overstory is acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>47</b>	<b>32095047-Cut</b>	6.4	4110 - Sugar Maple Association	Sawtimber Well	105	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark individual trees for harvest to promote an uneven aged stand structure. Residual basal area should be between 80 to 90 square feet. Emphasis will be on improving the timber quality and productivity of the stand by releasing future crop trees. Retain any white pine, cedar, hemlock, oak, or white spruce present. Favor yellow birch, black cherry, and basswood to keep in the stand.  
Specs:

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

Acceptable Any tree species currently in the overstory is acceptable.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



S t a n d	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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**Approved Treatments:**

7	<b>32095007-Monitor</b>	30.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> MWR project.  <u>Specs:</u> MSU crew will monitor site per study specs.  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> A diverse mix of northern hardwood species.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u> Research Study  <u>Proposed Start Date:</u> 10/1 /2020</p>											
25	<b>32095025-Monitor</b>	0.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	65	81-110	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u>  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Maple, fir, spruce, black cherry, pine, hemlock, and birch.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 3 /23/2018</p>											

**Total Treatment Acreage Proposed: 132.1**

## Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 95

Peter Holodnick: Examiner

Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5G	2G	3J
		With Condition	Not Available				
253	253	0	0	Aspen			
88	88	0	0	Cedar			
35	35	0	0	Low-Density Trees			
13	1	0	12	Lowland Conifers		12	
1	1	0	0	Lowland Shrub			
1	1	0	0	Marsh			
2	2	0	0	Mixed Upland Deciduous			
497	448	31	19	Northern Hardwood	31		19
9	9	0	0	Sand, Soil			
1	1	0	0	Treed Bog			
16	16	0	0	Upland Spruce/Fir			
57	57	0	0	White Pine			
975	913	31	31	Total Forested Acres	31	12	19
	94%	3%	3%	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	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Its mostly Cedar and Dead Black Ash							
2	Available	5G: Research Study	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> MWR Hardwood Study							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 95

Peter Holodnick: Examiner

Year of Entry: 2026

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> buffer for the creek. It goes steeply down to the creek							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Dexter creek buffer.							

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

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**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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																											
1	42330 - Upland Fir	Poletimber Poor	1.1	33	Unspecified	N/A																																																																												
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2	42330 - Upland Fir	Poletimber Poor	3.3	33	Unspecified	N/A	Stand approximately 75% open. Raspberries and tansy in herbaceous layer.																																																																											
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3	6233 - Wet Meadow	Nonstocked	1.2		Unspecified	No	Some ponding. Fir and white pine saplings present. Willow.																																																																											
4	4139 - Aspen, Mixed Deciduous	Sapling Well	153.4	33	Unspecified	N/A	Stand was harvested in in 1990. Very satisfactory stocking levels. 6 small patches of mature timber were left throughout the stand for diversity. Very diverse species composition. Areas where aspen is up to 6 inches Dbh and 1/2 to 1 stick tall. 16 to 18 inch Dbh white spruce, trembling aspen, fir, bigtooth aspen, black cherry and sugar maple comprise the retention patches. American elm poles and saplings are infrequently found.																																																																											
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5	6224 - Treed Bog	Nonstocked	1.5		Unspecified	No	Nearly pure black spruce - 3 to 4 inch Dbh. Infrequent white pine and tamarack saplings. Sedge and willow present.																																																																											
6	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	2.4	33	81-110	N/A	Hilly area. Heavy stocking. Small inclusion of mature hardwoods to south. White birch poles and saplings present.																																																																											
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7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	30.2	85	51-80	N/A	12/3/2020 KM: Walters crew reports that spraying (7/11/2020) and scarification are both complete. Portion of stand is part of Walters-Rolloff study which was harvested fall/winter of 2017/2018. Red maple stump sprouts over 10 feet tall. Patches of heavy ironwood regeneration. Lot of leatherwood. High levels of raspberry, particularly to the south. Couple ridges in stand. Cedar and white spruce are uncommon overstory associates. Fir saplings found. Crown gaps common. High quality timber stand.																																																	
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9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	1.4	55	Unspecified	N/A	Many pools. Sphagnum moss common. Blueberry and Labrador tea present. Low timber quality and site productivity.																																																	
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11	4110 - Sugar Maple Association	Sawtimber Well	37.8	95	111-140	N/A	Rolling hills. Found several 12 inch to 19 inch Dbh American elm. High quality timber on good site.																																																	
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12	4110 - Sugar Maple Association	Sawtimber Well	17.7	110	111-140	N/A	Uncertain if permission to cross private lands with logging equipment would be granted. High quality timber stand. Cherry infrequent overstory associate.																																																	
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Red Maple	Low	< 5 feet	Sapling																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**13** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 12.0 115 51-80 N/A Scattered white birch in overstory. Pockets of thicker cedar. Ponding of water common.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Pole	6	
Balsam Fir	10	Pole	8	55
Black Spruce	10	Pole	8	
Black Ash	25	Pole	8	
Tamarack	5	Pole	8	
Northern White Cedar	45	Log/Pole	10	115

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Black Ash	Low	5 - 10 feet	Sapling

**14** 6120 - Lowland Cedar Poletimber Well 85.3 115 111-140 N/A Stocking levels lower to south. Cedar saplings found. Not seeing any flooding damage. Webber creek flows through southeast portion of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	61	Pole/Log	8	115
Hemlock	2	Pole/Log	8	
Black Ash	6	Sapling/Pole	5	
Yellow Birch	10	Log/Pole	12	
Balsam Fir	6	Pole	6	
Black Spruce	15	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

**15** 4130 - Aspen Poletimber Well 6.9 54 81-110 N/A Sparse serviceberry. Fir, white pine, ironwood and elm are uncommon overstory associates.

Canopy Species	% Cover	Size Class	DBH	Age
American Elm	2	Pole	7	
White Pine	2	Log/Pole	14	
Ironwood	2	Sapling/Pole	4	
Red Maple	10	Pole	8	
Basswood	9	Log/Pole	12	
Black Cherry	5	Pole	8	
Quaking Aspen	65	Pole	8	54
White Spruce	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	Sapling
Ironwood	Medium	>20 feet	Sapling

**17** 3301 - Low Density Deciduous Trees Nonstocked 35.0 Unspecified No Wildlife Division planted large red oak saplings Spring of 2013. North south running ridge along west side of stand. Cherry brush and aspen saplings prevalent. Also fir, white spruce and white pine saplings present. Black cherry, white pine and white spruce poles present. Stand semi-open.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	4130 - Aspen	Poletimber Well	11.9	50	81-110	N/A	Sparse elm saplings.
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	2	Sapling/Pole	4				
Quaking Aspen	63	Pole/Log	8	50			
Balsam Poplar	15	Pole/Log	8				
Balsam Fir	10	Pole	7				
Black Cherry	8	Pole	7				
White Spruce	2	Log/Pole	9				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Low	>20 feet	Sapling				
Sugar Maple	Medium	>20 feet	Sapling				
21	42200 - Natural White Pine	Poletimber Poor	27.7	64	1-50	N/A	Harvested by St John Logging under 32-030-16 AuTrain Fir Mix SBW.
Canopy Species	% Cover	Size Class	DBH	Age			
White Pine	100	Log/Pole	12	64			
Sub-Canopy Species	Density	Avg. Height	Size				
White Pine	Low	< 5 feet	Sapling				
Quaking Aspen	Medium	5 - 10 feet	Sapling				
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub				
White Spruce	Low	5 - 10 feet	Sapling				
22	4134 - Aspen, Spruce/Fir	Sapling Well	6.8	27	51-80	N/A	Sparse white pine and red maple poletimber. Red maple and black cherry saplings present.
Canopy Species	% Cover	Size Class	DBH	Age			
Quaking Aspen	60	Pole/Sapling	5	27			
Balsam Fir	30	Sapling/Pole	5				
Red Maple	5	Log/Pole	10				
White Pine	5	Log/Pole	12				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Medium	10 - 20 feet	Sapling				
23	4110 - Sugar Maple Association	Sapling Well	3.1	26	81-110	N/A	Elm saplings present.
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	75	Sapling/Pole	4	26			
Black Cherry	10	Sapling	4				
Red Maple	10	Sapling	4				
Quaking Aspen	5	Sapling/Pole	5				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Low	5 - 10 feet	Sapling				
24	4110 - Sugar Maple Association	Sawtimber Well	137.4	105	81-110	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	71	Log/Pole	12	105			
Red Maple	10	Pole/Log	8				
Basswood	10	Log/Pole	12				
Black Cherry	5	Pole	8				
White Spruce	2	Log/Pole	14				
Yellow Birch	2	Log/Pole	12				
Sub-Canopy Species	Density	Avg. Height	Size				
Ironwood	Medium	10 - 20 feet	Sapling				
Balsam Fir	Low	10 - 20 feet	Sapling				
Black Cherry	Low	10 - 20 feet	Sapling				
Sugar Maple	Medium	< 5 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
25	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.0	65	81-110	N/A	Straight maple boles. White spruce and hemlock are uncommon overstory associates. Harvested under 32-030-16 AuTrain Fir Mix SBW.																																										
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26	6120 - Lowland Cedar	Sapling Well	1.8	90	Unspecified	N/A	Cedar healthy and around 20 feet tall. very wet ground.																																										
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27	4130 - Aspen	Sapling Well	13.0	16	51-80	N/A	Regeneration is adequate. Raspberry present. Red maple and ironwood saplings present. White pine poletimber found.																																										
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28	4112 - Maple, Beech, Cherry Association	Poletimber Well	60.4	88	81-110	N/A																																											
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29	4134 - Aspen, Spruce/Fir	Sapling Well	17.7	26	Unspecified	N/A	Some pools of water at south end of stand. Small patch of white pine, yellow birch and red maple saplings around this water.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
31	4130 - Aspen	Sapling Well	18.4	16	Unspecified	N/A	Very good aspen stocking. Few white pine poles and sawlogs present.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		83	Sapling	1	16	Quaking Aspen	Low	5 - 10 feet	Sapling
White Pine		2	Log/Pole	12					
Balsam Fir		10	Sapling	3					
Black Cherry		5	Sapling	2					
32	4110 - Sugar Maple Association	Poletimber Well	13.5	95	111-140	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		20	Pole	8		Balsam Fir	Low	< 5 feet	Sapling
Sugar Maple		80	Pole/Log	8	95				
33	710 - Sand, Soil	Nonstocked	9.0		Unspecified	Managed Opening	Fringe of balsam poplar saplings and chokecherry. South end seasonally floods across forest road. This is an old state gravel pit.		
34	42200 - Natural White Pine	Sawtimber Poor	29.6	80	1-50	N/A	Very good aspen regeneration. White pine have healthy crowns. White pine range from 10 to 16 inch Dbh. Retention patch left. Red maple saplings found. Aspen 1 to 2 inches Dbh.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		100	Log/Pole	10	80	Black Cherry	Low	10 - 20 feet	Sapling
						Quaking Aspen	High	10 - 20 feet	Sapling
						Sugar Maple	Low	10 - 20 feet	Sapling
						Balsam Fir	Low	5 - 10 feet	Sapling
35	4112 - Maple, Beech, Cherry Association	Sawtimber Well	145.6	85	81-110	N/A	Red maple stump sprouts over 10 feet tall. Patches of heavy ironwood regeneration. Cedar and white spruce are uncommon overstory associates. Fir saplings found. Crown gaps common. High quality timber stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Sugar Maple		40	Log/Pole	14	85	Red Maple	Medium	5 - 10 feet	Sapling
Basswood		4	Log	14		Ironwood	Low	10 - 20 feet	Sapling
Yellow Birch		6	Log	12		Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple		30	Log/Pole	14		Sugar Maple	High	< 5 feet	Seeding
Black Cherry		20	Pole/Log	8					
36	4119 - Mixed Northern Hardwoods	Poletimber Well	17.4	82	51-80	N/A	Riparian corridor for Dexter Creek. Yellow birch, black cherry and basswood are overstory associates.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Northern White Cedar		5	Log/Pole	12		Balsam Fir	Medium	10 - 20 feet	Sapling
Black Cherry		5	Pole/Log	8					
Yellow Birch		5	Pole/Log	8					
Sugar Maple		71	Pole/Log	9	82				
Balsam Fir		10	Pole	6					
White Spruce		4	Log/Pole	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>37</b>	4134 - Aspen, Spruce/Fir	Sapling Well	14.8	35	81-110	N/A	Good stocking levels. Sugar maple saplings found.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	15	Pole	8		White Spruce	Low	5 - 10 feet	Sapling
Bigtooth Aspen	5	Sapling	4	35	Black Cherry	Low	10 - 20 feet	Sapling
Balsam Fir	10	Pole/Sapling	6		Sugar Maple	Low	< 5 feet	Sapling
Quaking Aspen	70	Pole/Sapling	5	35	Balsam Fir	Medium	10 - 20 feet	Sapling

<b>38</b>	42340 - Upland Spruce/Fir	Sapling Well	6.7	46	171-200	N/A	Very dense stocking. Alternate leaved dogwood found.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	2	Pole/Sapling	6		Black Cherry	Medium	10 - 20 feet	Sapling
Northern White Cedar	1	Pole/Sapling	6		Sugar Maple	Medium	10 - 20 feet	Sapling
Sugar Maple	5	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling
Quaking Aspen	20	Pole/Sapling	6					
Red Maple	5	Log/Pole	10					
Balsam Fir	47	Pole/Sapling	7	46				
White Spruce	20	Pole/Log	8					

<b>40</b>	42340 - Upland Spruce/Fir	Poletimber Poor	4.6	40	1-50	N/A	Former opening. Rough ground. Found white pine and aspen saplings. Sugar maple and trembling aspen poles present. Small patch of mature upland cedar within SE corner of stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	35	Sapling/Pole	4		White Spruce	Medium	5 - 10 feet	Sapling
Quaking Aspen	5	Pole/Sapling	5		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Balsam Fir	15	Pole/Sapling	8		Sugar Maple	Trace	< 5 feet	Sapling
White Spruce	45	Pole/Log	9	40				

<b>41</b>	4110 - Sugar Maple Association	Poletimber Well	21.2	75	81-110	N/A	Many large canopy gaps with associated raspberry. Sparse leatherwood. Some fir and white spruce poles along south edge. Scars upland overstory cedar. Black cherry saplings found. Quality timber potential.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	2	Pole/Log	9		Black Cherry	Low	10 - 20 feet	Sapling
Black Cherry	4	Log/Pole	12		Ironwood	Low	5 - 10 feet	Sapling
Balsam Fir	2	Sapling/Pole	4		Sugar Maple	Medium	>20 feet	Sapling
White Spruce	2	Pole/Sapling	7					
Sugar Maple	87	Pole/Log	9	75				
Yellow Birch	2	Pole/Log	9					
Northern White Cedar	1	Pole/Log	8					

<b>42</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.8	75	81-110	N/A	Scattered aspen poles. This stand is steep down to the river.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log/Pole	10		Sugar Maple	Low	10 - 20 feet	Sapling
Sugar Maple	78	Log/Pole	16	75	Black Cherry	Low	10 - 20 feet	Sapling
Balsam Fir	8	Pole	8					
White Spruce	4	Pole	8					
Red Maple	5	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	6220 - Alder/willow	Nonstocked	0.5	0	Unspecified	No	Lowland excluded from surrounding sale.

47	4110 - Sugar Maple Association	Sawtimber Well	6.4	105	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	71	Log/Pole	12	105	Sugar Maple	Medium	< 5 feet	Sapling
Yellow Birch	2	Log/Pole	12		Black Cherry	Low	10 - 20 feet	Sapling
Basswood	10	Log/Pole	12		Ironwood	Medium	10 - 20 feet	Sapling
Black Cherry	5	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling
White Spruce	2	Log/Pole	14					
Red Maple	10	Pole/Log	8					