



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32263

Entry Year 2026

Acreage: 1,266

County Marquette

Management Area: Suomi Till and Outwash Plain

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**Stand Examiner:** Jason Caron

## Legal Description:

T45N R27W Sec 22 and 27

## Identified Planning Goals:

This compartment is part of the Chain Lakes Moraine Management Area as defined in the Regional State Forest Management Plan. Vegetative management in the Chain Lake management area (MA) will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses. Timber management objectives include improving the age-class distribution of aspen, lowland conifer and lowland spruce/fir; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types.

## Soil and topography:

Soils are predominantly Rubicon sand, and Carbondale and Tawas soils. There are some inclusions of the Sayner-Rubicon complex, primarily the hillier sections. The terrain is generally level. Relief exists in correspondence to the Sayner-Rubicon soil series.

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

Ownership around the compartment is a mix of state and private. A large private holding, the Michigan Northwoods Club, is immediately to the north of the compartment. Smaller individual holdings are scattered throughout the remainder of the landscape. Land use is seasonal camps, primarily occupied for hunting and fishing. State land is multiple use, primarily timber production, hunting, and fishing.

## Unique Natural Features:

No Unique Natural Features known.

## Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## Special Management Designations or Considerations:

None.

## Watershed and Fisheries Considerations:

This compartment contains Bryan Creek and Bear Creek which both serve as tributaries to the West Branch Escanaba River. Bryan Creek and Bear Creek are designated Type 1 trout stream less than 50-ft wide with predicted mean July temperatures that range from 61.0 to 63.0 °F (cold streams). 300-foot buffers are recommended for Bryan Creek and Bear 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 Suomi Till and Outwash Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Suomi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

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

No known potential exists for commercial oil & gas production in this part of the state. No active sand/gravel pits are known to occur in the area. There may be some potential for sand & gravel within the compartment on the uplands, but the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much economic value beyond use by the county road commission, logging companies, or DNR for road maintenance. Potential for metallic or critical minerals is relatively unknown but is considered low at this time based on available data. There is no current leasing activity involving State-owned mineral rights in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

## **Vehicle Access:**

There is very good access to the majority of this compartment. Main roads are the Charlie Lakes Road and Kates Grade. Secondary roads branch off of those which provide access to the south and northeast parts of the compartment. Access to the northwest corner of the compartment is off of Co. Rd. PPZ, which branches off of the Bryan Creek Road. From here there are closed roads that provide access.

## **Survey Needs:**

None.

## **Recreational Facilities and Opportunities:**

A single track dirt bike trail has been created to serve as a connector between Bass Lake and Porterfield. This connector trail goes through this compartment. Other recreational opportunities consist of hunting, fishing, trapping, berry picking, hiking, ORV and snowmobile riding.

## **Fire Protection:**

This compartment has good access and water sources for fire needs. There is very little fire prone conifer in and around the compartment.

## **Additional Compartment Information:**

The abandoned ELF ROW traverses this compartment as well as several old logging railroads.

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

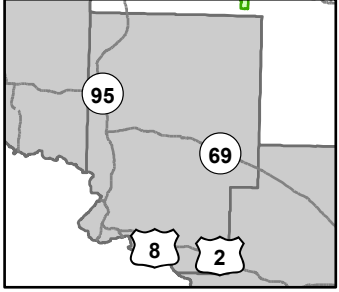
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

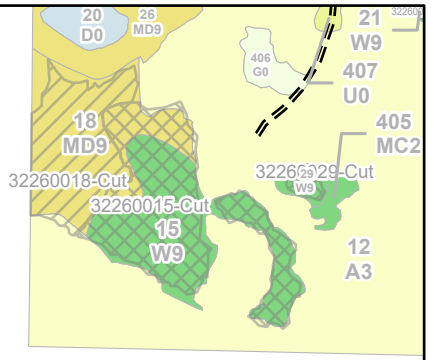
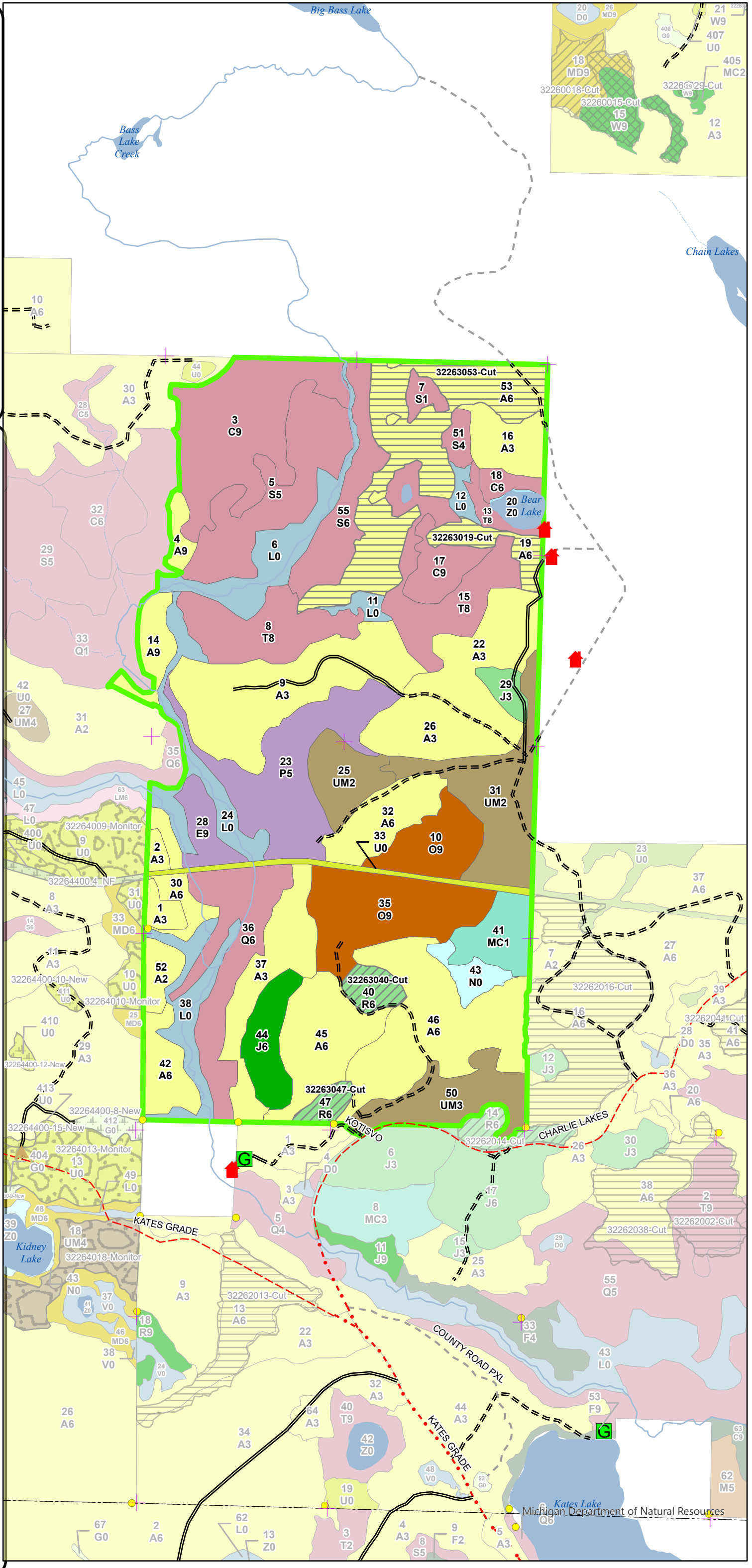
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 32263  
 T45N, R27W, Sec: 21, 22, 27  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Suomi Till and  
 Outwash Plain  
 YOE: 2026  
 Acres: 1266.4 GIS Calculated  
 Examiner: Jason Caron  
 Map Revised: 08/14/2024  
 Map Phase: Web-Post



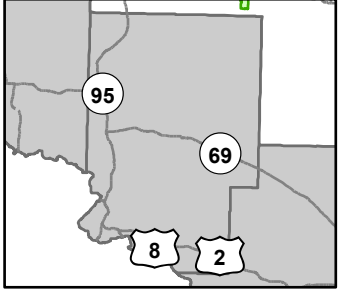
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- ▲ Cabin
- ▲ Berms
- G Gate
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



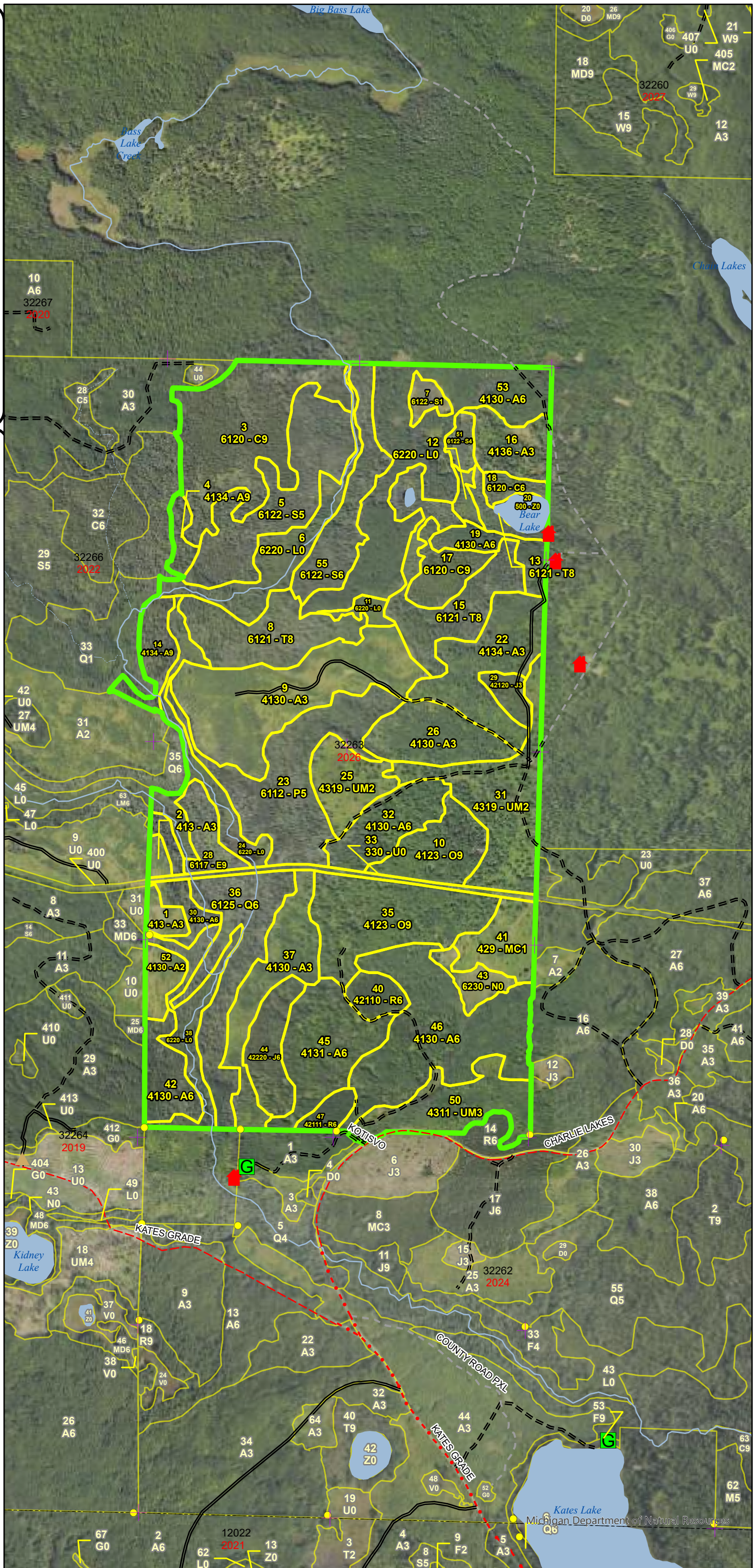


# Stand Boundary Map

Compartment: 32263  
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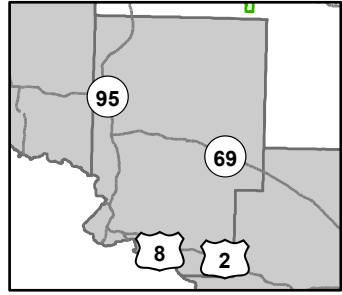
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- 623 - Emergent Wetland
- State Forests



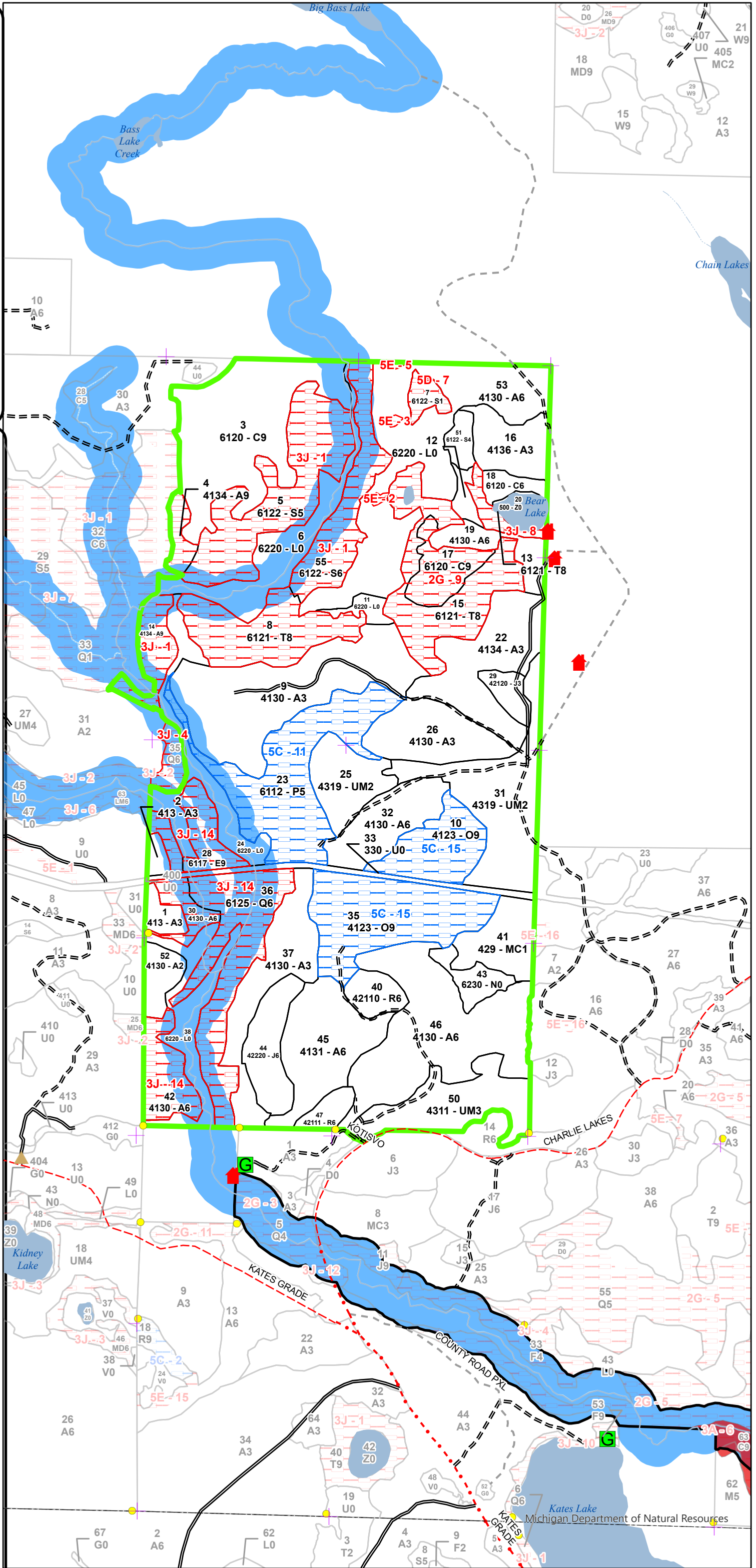


# Special Conservation Areas & Site Conditions Map

Compartment: 32263  
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- + Remonumented Section Corners
  - Survey Grade Corners
  - Counties
  - ▲ Cabin
  - ▲ Berms
  - G Gate
  - DNR - Secondary Forest Road
  - DNR - Forest Access Route
  - County - Gravel Road
  - County - Dirt Road (Seasonal)
  - Private - Dirt / Gravel Road
  - Intermittent Stream
  - Lake/Pond
  - Perennial River
  - Lakes and Rivers
  - Compartment Boundary
  - SCA
  - Available w/ Constraints
  - Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site  
 2G: Too wet (sensitive soils, does not include access issues)  
 3J: Water quality / BMPs (stream, river, or lake)  
 5D: Unproductive Forest Land  
 5E: Long-Term Retention
- Stand Boundaries
  - Ecological Reference Areas
  - Cold Water Streams
  - High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



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	112	78	130	40	95	0	31	0	14	6	0	0	0	0	0	0	0	506
Cedar	0	0	0	0	0	0	0	0	0	0	0	78	0	0	0	0	16	0	94
Jack Pine	0	0	7	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	28
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Aspen/Balsam Poplar	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0	62
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	48
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Lowland Shrub	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Lowland Spruce/Fir	0	0	0	0	0	6	0	0	0	6	86	0	0	0	0	0	0	0	98
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Oak	0	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	0	0	78
Red Pine	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Tamarack	0	0	0	0	0	0	0	0	0	6	81	0	0	0	0	0	0	0	86
Upland Conifers	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	72	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>112</b>	<b>204</b>	<b>120</b>	<b>146</b>	<b>40</b>	<b>184</b>	<b>0</b>	<b>31</b>	<b>0</b>	<b>104</b>	<b>234</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>1267</b>



## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 263

Total Compartment Acres: 1,266

Commercial Harvest - 109  
 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	93	0	0	0	0	0	0	0	0	93
Red Pine	0	0	0	0	16	0	0	0	0	16
<b>Total</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>109</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	109	0	0	0	0	0	0	0	0	109
Next Step	0	0	0	0	0	93	0	0	0	93
<b>Total</b>	<b>109</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>93</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>203</b>



Stand	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:**

19	32263019-Cut	13.1	4130 - Aspen	Poletimber Well	46	Unspecified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Specs: Clearcut with reserves. Red line out an area to serve as retention. Look for vernal ponds to red line out as well. Do not harvest under-represented species such as oak, yellow birch, cedar, and hemlock if it exists. Also, do not harvest legacy tree sized red and white pine should they exist.

Wildlife Comments: In addition: 2 to 3 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.

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

Acceptable Regen: Maple, spruce, fir, pine, oak, hemlock, maple, birch, and cherry.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

40	32263040-Cut	9.5	42110 - Planted Red Pine	Poletimber Well	25	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Third row thin to promote growth on residual trees. Rows may vary in width and direction. Forester will need to determine how best to thin stand during sale prep.

WLD Comments: Do not harvest oak if it exists within the stand.

Next Step Treatments:

Acceptable Regen: Crown thin so objective is not for regeneration for this harvest.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

47	32263047-Cut	6.5	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	26	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Third row thin to promote growth on residual trees. Rows may vary in width and direction. Forester will need to determine how best to thin stand during sale prep.

Next Step Treatments:

Acceptable Regen: Crown thin so regeneration is not the objective for this harvest method.

Other Comment:

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
53 32263053-Cut	80.2	4130 - Aspen	Poletimber Well	46	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves. Red line out an area to serve as retention. Look for vernal ponds to red line out as well. Do not harvest under-represented species such as oak, yellow birch, cedar, and hemlock if it exists. Also, do not harvest legacy tree sized red and white pine should they exist.</p> <p><u>Specs:</u></p> <p>Wildlife Comments: Also include 15 to 16 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.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, maple, spruce, fir, pine, oak, hemlock, birch, and cherry.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

**Total Treatment Acreage Proposed: 109.3**

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Jason Caron : Examiner

Compartment: 263  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions					
		With Condition	Not Available		5C	2G	3J	5D	5E
505	452	0	53	Aspen			51		2
94	78	0	16	Cedar		16			
28	28	0	0	Jack Pine					
9	9	0	0	Low-Density Trees					
61	0	61	0	Lowland Aspen/Balsam Poplar	61				
48	0	0	48	Lowland Conifers			48		
13	0	0	13	Lowland Deciduous			13		
88	88	0	0	Lowland Shrub					
97	6	0	91	Lowland Spruce/Fir			85	5	
9	9	0	0	Marsh					
78	0	78	0	Oak	78				
16	16	0	0	Red Pine					
87	0	0	87	Tamarack		43	44		
20	20	0	0	Upland Conifers					
106	106	0	0	Upland Mixed Forest					
6	6	0	0	Water					
1,266	819	140	307	Total Forested Acres	140	58	242	5	2
	65%	11%	24%	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	3J: Water quality / BMPs (stream, river, or lake)	144	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stands act as a buffer for bass creek. Ground is very wet.							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet area excluded from stand. Long Term Retention.							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Jason Caron : Examiner

Compartment: 263  
Year of Entry: 2026

3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 300ft. buffer on Bryan and North Branch Creek.							
5	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	5D: Unproductive Forest Land	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	59	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Jason Caron : Examiner

Compartment: 263  
Year of Entry: 2026

11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	62	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Very poor and sparse timber. Hold until adjacent stands are prescribed. Re-evaluate to see if some of the stand could be harvested then.</p>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	92	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stands act as a riparian buffer for bass and bryan creeks.</p>							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	78	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Holding oak stands until next YOE due to basal area densities.</p>							

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 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	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	413 - Aspen	Sapling Well	6.0	4	Immature	N/A	This stand was harvested in the winter of 2019-2020. Hot Dam Pulp sale.  2024 Inventory - I put a remote call on the stand but plan to get to it before pre-review.			
2	413 - Aspen	Sapling Well	3.4	4	Immature	N/A	Stand was cut in the winter of 2019-2020. Hot Dam Pulp sale.  2024 Inventory - I put a remote call on the stand but plan to look at it before pre-review.			
3	6120 - Lowland Cedar	Sawtimber Well	72.3	100	81-110	N/A	Stand is the same coverytype as stand (cedar stand) in adjacent compartment 266. Area is heavily used by deer during the early winter months. North end has a small patch of high ground with white pine on it. This stand was previously listed as POG for influence on Bryan Creek.  2024 Inventory - Stand of cedar that is decent quality. Cedar appears healthy. Mature balsam has died due to the budworm outbreak. The understory of the stand is sparse with fir and tag alder filling in amongst the canopy gaps. I did notice some cedar regeneration on the east edge of the stand, adjacent to stand 5. I'm guessing there is more regeneration here due to more sunlight. Cedar is not tall however as it averages 1'. Deer browse may be an issue here.			
		<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	88	Log	16	100	Balsam Fir	Medium	Variable	Sapling
		Balsam Poplar	2	Log/Pole	11		Tag Alder	Low	5 - 10 feet	Tall Shrub
		Black Spruce	10	Log	14					
4	4134 - Aspen, Spruce/Fir	Sawtimber Well	6.4	96	Unspecified	N/A	Previously typed out as a POG stand. Old notes state that fir has essentially fallen out and young balsam is regenerating in the understory.			
5	6122 - Black Spruce	Poletimber Medium	54.6	91	Unspecified	N/A	Stand is in poor condition due to heavy snow damage in previous winters. In some areas 50% or more of the black spruce has been snapped off due to heavy snow. As a result the understory is getting more sunlight and balsam fir is prevalent. A thick understory of 3-4' fir exists. Some 2-3' cedar is mixed in with the balsam as well.			
		<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	10		Tag Alder	Low	< 5 feet	Tall Shrub
		Black Spruce	95	Pole	8	91	Balsam Fir	High	5 - 10 feet	Sapling
6	6220 - Alder/willow	Nonstocked	30.2		Unspecified	No	Bryan Creek and the riparian area surrounding it.			
7	6122 - Black Spruce	Sapling Poor	5.5	80	1-50	N/A	Part of the stand was harvested in the winter of 2018. The stand graded into a stagnant spruce type with little to no merchantability. I told producer to leave the remainder rather than cause excessive ground disturbance.  2024 Inventory - The mature black spruce is falling apart due to wet soils and age. The mature stand will likely die completely which will encourage new growth within the understory.			
		<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>
		Tamarack	40	Sapling	4					
		Black Spruce	60	Sapling	4	80				
8	6121 - Tamarack	Sawtimber Medium	37.7	90	Unspecified	N/A	Stand consists of a low-quality lowland stand. A fair amount of the tamarack has died due to either high water, age, or the case bearer outbreak from years ago.			
		<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>
		Black Spruce	5	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub
		Tamarack	80	Log/Pole	11	90	Balsam Fir	Medium	10 - 20 feet	Sapling
		Northern White Cedar	15	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
9	4130 - Aspen	Sapling Well	73.3	7	Immature	N/A	Stand was harvested in 2017 - Bear Lake Aspen. TS# 114-16. Stand consists of fully stocked aspen. A few small lowland patches have not fully regenerated but should within the next 10 years.																																
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10	4123 - Red Oak	Sawtimber Well	25.2	85	81-110	N/A	Stand was selectively thinned in 2017 under TS# 32-115-16-01 Bear Lake Mix. Stand is in good condition. Some areas contain a higher basal area but overall the basal area averages 80-90 square feet. Hold stand for another 10 years to allow basal area to increase.																																
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11	6220 - Alder/willow	Nonstocked	4.4		Unspecified	No	Small flowage with water moving through it.																																
12	6220 - Alder/willow	Nonstocked	4.3		Unspecified	No	Lowland stand with cattail throughout. Stand is filling in with a mix of cedar, tamarack, fir, and black spruce.																																
13	6121 - Tamarack	Sawtimber Medium	6.3	89	81-110	N/A	Small stand which contains good quality tamarack. More cedar exists on the south end of the stand.																																
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14	4134 - Aspen, Spruce/Fir	Sawtimber Well	14.4	87	Unspecified	N/A	Stand listed as POG. OI comments note long term objective is to let succeed to spruce-fir-pine as the stand influence's North Branch Creek.																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
15	6121 - Tamarack	Sawtimber Medium	42.8	90	81-110	N/A	Stand consists of wet ground with a couple of small upland knobs that contain very old aspen and a few paper birch. Some areas are very wet with a tag alder and balsam fir understory. Some tamarack is declining but other areas the tamarack looks good. A small bog lake/pond exists within the far north corner. Within this part of the stand more black spruce exists which is mixed with tamarack. I did notice some mistletoe damage within the spruce around this small pond.																																							
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16	4136 - Aspen, Mixed Conifer	Sapling Well	19.4	6	Immature	N/A	Stand harvested in the winter of 2018. Bear Lake Sale. TS# 113-16. Stand consists of a fully stocked aspen stand. Scattered mature red & white pine throughout the stand. Some young red pine regeneration exists in a couple locations.																																							
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17	6120 - Lowland Cedar	Sawtimber Well	15.7	160	111-140	N/A	Stand consists of primarily cedar with very little understory. Cedar boles are straight and appear to be good quality.																																							
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18	6120 - Lowland Cedar	Poletimber Well	6.0	109	81-110	N/A	Stand consists of poorer quality cedar. Stand contains a mix of pole and log sized trees. Ground is very wet. Labrador tea exists within the understory.																																							
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19	4130 - Aspen	Poletimber Well	13.1	46	Unspecified	N/A	Stand was cut in 1977 by Ed Havel from Big Bay for Escanaba Paper Co. (Mead) Permit # 20-73A, "Bear Lake Block". 2024 Inventory - Stand consists of mature, good quality, aspen.																																							
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20	500 - Water	Nonstocked	6.4		Unspecified	No	Bear Lake.																																							
22	4134 - Aspen, Spruce/Fir	Sapling Well	42.3	16	Immature	N/A	Harvested (seed tree) in 2008: TS#108-06-01. Left oak and cherry along with birch seed trees. 2024 - stand is more sparse to the south with more balsam fir and red maple stump sprouts. More dense aspen regeneration has occurred within the north part of the stand.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
23	6112 - Lowland Aspen	Poletimber Medium	61.5	49	Unspecified	N/A	Large lowland complex with scattered trees or pockets of trees. The budworm outbreak has killed all of the mature balsam fir and white spruce which creates a very open canopy in some locations. Some pockets of aspen and balm exist. Overall the stand is very sparse. Cattail exists in some parts of the stand due to a high water table. Forest canopy is at the low end of 50-75 percent.																																											
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24	6220 - Alder/willow	Nonstocked	25.7		Unspecified	No																																												
25	4319 - Mixed Upland Forest	Sapling Medium	21.8	6	Immature	N/A	Stand was harvested by JM Longyear under Bear Lake Mix Sale 32-115-16-01 in the summer/ fall of 2016. Under FTP for red pine regen 32-890. Site trenched in 2018 plant site in 2019. Stand was planted in the spring of 2019. Stand passed regen check in fall of 2019. stand failed check in 2021 natural regen should fill in gaps.  2024 Inventory - Stand is regenerating back to a mix of deciduous and conifer. Stand can be considered fully stocked and will continue to fill in as it ages.																																											
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26	4130 - Aspen	Sapling Well	29.1	24	Immature	N/A	2/11/14: Mixed stand of aspen, red maple, spruce-fir, and red pine. Red pine is seeding in on it's own. Was commercially cut in 1999 by Marvin Nelson Forest Prod., under permit #11-96-01, "Oak Shelterwood North Sale". Birch seed trees were marked with green paint to leave. Also all oak and red & white pine was left. In June of 2004, it seems red maple reproduction is the most prevalent, followed by aspen, fir, and some birch. Future stand will definitely be a mixture.  2024 - Stand consists of fully stocked upland species growing on poor soil.																																											
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28	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	13.4	90	Unspecified	N/A	Long term objective is to let stand succeed to spruce-fir-pine as it influence's North Branch and Bryan Creek.																																											
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29	42120 - Planted Jack Pine	Sapling Well	7.1	13	Immature	N/A	Harvested in 2008: TS#108-06-01. Herbicide applied August 2009, trenched and direct seeded June 2010 FTP# 32-721, Regen survey from summer 2012 indicates approx. 800 tpa.  2024 - Stand has been damaged from past heavy snow events. Some trees have been laid down flat due to the heavy snow.																																											
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<b>30</b>	4130 - Aspen	Poletimber Well	12.6	60	Unspecified	N/A	Stand was left as a buffer against adjacent lowland stand, stand 36. Do not harvest.																																							
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<b>31</b>	4319 - Mixed Upland Forest	Sapling Medium	49.9	6	Immature	N/A	Stand was harvested by JM Longyear under Bear Lake Mix Sale 32-115-16-01 in the summer/ fall of 2016. Under FTP for red pine regen 32-890. Site trenched in 2018 plant site in 2019. Stand was planted in the spring of 2019. Stand passed regen check in fall of 2019. stand failed check in 2021 natural regen should fill in gaps.  2024 Inventory - A considerable amount of mature oak exists within the stand. Stand is regenerating back to a mix of conifer and deciduous species.																																							
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<b>32</b>	4130 - Aspen	Poletimber Well	25.4	25	111-140	N/A	Stand was commercially cut in 1999 by Marvin Nelson Forest Prod, permit #11-96-01. Aspen, birch, and maple was cut while all oak was left per Wildlife input for mast production. Red & white pine and cherry was left as well.  2024 - Stand consists of scattered mature oak with good aspen regen mixed with red maple stump sprouts and scattered pine. Manage this stand as a young mixed deciduous.  September 2022 - Jason Caron: Took a walk through this stand knowing that some oak was cut during the thinning in 2017. When walking I noticed 2 dead oak trees that were side by side. Both oaks were roughly 15" dbh and in good condition. Pete Holodnick and I went out and took a sample of the one oak to see if it had oak wilt. Results came back in early October and the results were negative. Stand should continue to be monitored. I took a hike through the entire stand and did not see any other areas of concern. I will add a monitoring treatment on this stand for monitoring.  GPS Coordinates of dead trees: 46.271612 87.660872																																							
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<b>33</b>	330 - Low-Density Trees	Nonstocked	9.0		Unspecified	No	Abandoned ELF ROW. Stand is filling in with a mix of species.																																							



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<b>35</b>	4123 - Red Oak	Sawtimber Well	53.2	85	81-110	N/A	<p>Previously had been two stands that were cut in two different entry periods (west 2010 TS#32-106-01 and east 2002 #32-124-01-01). All oak were left and only aspen, red maple, white birch and some spruce and fir were harvested. Canopy is all oak with some scattered red and white pine.</p> <p>2024 Inventory - Stand is healthy. Basal area averages 83 square feet. Hold another 10 years and manage with stand 10.</p>																																		
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<b>36</b>	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	47.8	95	Unspecified	N/A	<p>Stand is a buffer along Bryan Creek. Stand is upland along the eastern fringe and grades to lowland as the stand progresses to the west. Stand consists of black spruce and tamarack. Quality is poor due to age and previous heavy snow damage. Overall, the stand quality is poor. Most of the fir has fallen over due to the previous budworm outbreak.</p>																																		
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<b>37</b>	4130 - Aspen	Sapling Well	35.6	14	Unspecified	N/A	<p>Stand was harvested in 2010 TS#32-130-06-01. South end of stand had originally been prescribed to convert to red pine, however it is primarily a hill side which prohibits any site prep activity. The remainder of the stand is relatively flat and operable, however the entire stand has regenerated to aspen, spruce, fir, and some jack pine. It was decided to accept this as the new stand as efforts to control aspen would have been futile.</p> <p>2024 Inventory - Stand is healthy. Aspen is in good condition. Pockets of older fir exist within the stand that were left after the harvest. Fir is in poor condition due to the recent budworm outbreak. The understory contains a decent amount of balsam fir. Scattered mature red oak exists within the north part of the stand.</p>																																		
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<b>40</b>	42110 - Planted Red Pine	Poletimber Well	9.5	25	111-140	N/A	<p>Stand planted in spring 1999 FTP#31-384. Red pine with a mix of balsam fir and red oak.</p> <p>2024 Inventory - Stand is healthy but basal area is high. Crowns are crowded.</p>																																		
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<b>41</b>	429 - Mixed Upland Conifers	Sapling Poor	20.1	7	Immature	N/A	<p>Cut by JM Longyear under Bear Lake Mix Sale 32-115-16-01 in the summer/ fall of 2016. Under FTP for red pine regen 32-890. Site trenched in 2018 plant site in 2019. Stand was planted in the spring of 2019. Stand passed regen check in fall of 2019. Site failed 2021 count. 2024 Inventory - Stand was planted to red pine but has had poor success in survival &amp; recruitment. Stand is regenerating back to a mix of aspen, fir, and red pine. Stand will continue to fill in over time.</p>																																		
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Quaking Aspen	40	Sapling	1	7																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>42</b>	4130 - Aspen	Poletimber Well	18.1	60	Unspecified	N/A	Schedule for treatment with the adjacent compartment, C-264, stand 29 when ready for a final harvest.
Canopy Species	% Cover	Size Class	DBH	Age			
Balsam Poplar	16	Pole/Log	8				
Quaking Aspen	75	Pole/Log	8	60			
Balsam Fir	2	Pole	7				
Black Spruce	5	Pole	7				
White Spruce	2	Pole/Log	10				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Medium	5 - 10 feet	Sapling				
Tag Alder	Low	5 - 10 feet	Tall Shrub				

<b>43</b>	6230 - Cattail	Nonstocked	9.3	0	Unspecified	612 - Lowland Coniferous Forest	Stand harvested under sale 32-115-16-01. cut in the summer of 2018. 2024 Inventory - Stand has filled in completely to cattail.
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<b>44</b>	42220 - Natural Jack Pine	Poletimber Well	20.8	40	Unspecified	N/A	Stand is a result of a prescribed burn in June of 1982, FTP#W31-49. Stand is predominantly jack pine mixed with aspen and northern red oak. Some portions of the stand were damaged due to heavy snow while other areas look good.
Canopy Species	% Cover	Size Class	DBH	Age			
Jack Pine	70	Pole	9	40			
Bigtooth Aspen	10	Pole	8				
Red Pine	5	Log	12				
Red Oak	5	Pole/Log	8				
Quaking Aspen	10	Pole	8				
Sub-Canopy Species	Density	Avg. Height	Size				
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub				
Balsam Fir	Medium	Variable	Sapling				

<b>45</b>	4131 - Aspen, Oak	Poletimber Well	39.7	30	51-80	N/A	Stand is predominantly a mix of red oak, aspen, and jack pine. Some areas of this stand are also planted with red pine as a result of FTP#31-348. These areas had also been trenched and seeded with white pine and red oak acorns with poor to no results. Some areas are very heavy to beaked hazel. Stand appears to have been shelterwood cut quite some time ago. Allow aspen and jack pine to mature before harvesting.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Oak	20	Log/Pole	16	94			
Red Maple	15	Pole	7				
Bigtooth Aspen	45	Pole	8	30			
Quaking Aspen	5	Pole	8				
Jack Pine	10	Pole	8				
Balsam Fir	5	Pole	8				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Low	Variable	Sapling				
Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub				
Jack Pine	Low	Variable	Sapling				
Red Pine	Low	10 - 20 feet	Sapling				

<b>46</b>	4130 - Aspen	Poletimber Well	75.2	27	Unspecified	N/A	Stand portion residing east of road was cut in the summer of 1996 (south part) and fall (north part) of 1998, TS#8-96-01 "Oak Shelterwood South Block". All oak, cherry, red and white pine were left. West of the road was part of a larger complex that is now more defineable. Heavier amounts of jack and red pine west of the road. A small portion is planted red pine. 2024 Inventory - Stand consists of a healthy mix of both quaking and big tooth aspen. Scattered red oak exists within the stand.
Canopy Species	% Cover	Size Class	DBH	Age			
Bigtooth Aspen	65	Pole	9	27			
Red Oak	5	Log	17				
Quaking Aspen	30	Pole	9	27			
Sub-Canopy Species	Density	Avg. Height	Size				
Red Maple	Low	>20 feet	Pole				
Jack Pine	Low	>20 feet	Pole				
Red Pine	Low	>20 feet	Pole				
Balsam Fir	Low	>20 feet	Pole				

<b>47</b>	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	6.5	26	111-140	N/A	Stand planted to red pine via FTP#31-366 (located in Comp 262 records). Release sprayed in 2002 with glyphosate. 2024 Inventory - Stand has a high basal area and the crowns of the trees are crowded. Perform a third row thin on the stand to release the crowns.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Pine	100	Pole	7	26			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
<b>50</b>	4311 - Pine, Aspen Mix	Sapling Well	34.5	17	Immature	N/A	Stand harvested in 2008, TS#32-109-06-01, all oak and cherry were left. Scattered spruce and balsam pockets. Jack pine is about 3ft. Aspen is 6-7 ft. Jack Pine is filling in sparse areas. Monitor stocking of this stand. Abundance of dead standing snags post harvest.																																													
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<p>2024 Inventory - stand is now fully stocked and consists of a mix of deciduous and conifer. A couple small openings exist within the stand that are now filling in to mostly conifer.</p>																																																				
<b>51</b>	6122 - Black Spruce	Poletimber Poor	5.8	45	1-50	N/A	A very small strip was cut along the west side of this sale during the Bear Lake Sale. TS# 113-16. Stand consists of lowland conifer of poor quality due to the budworm outbreak and high water conditions. Stand will eventually regenerate to a mix of younger species.																																													
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<b>52</b>	4130 - Aspen	Sapling Medium	9.6	4	Immature	N/A	This stand was cut in the winter of 2019-2020. Hot Dam pulp sale.																																													
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<b>53</b>	4130 - Aspen	Poletimber Well	81.7	46	51-80	N/A	Was commercially cut in 1977 by Ed Havel from Big Bay for Escanaba Paper Co. (Mead) Permit # 20-73A, "Bear Lake Block". This was a large sale, approx 210 acres. Most big tooth is in the northern part of the stand. Soil is drier in this portion of the stand. Evidence of old grade traverses stand in an east-west direction in the northern 1/4 of the stand. More balsam is present in the lower 1/2 of the stand.																																													
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<p>2024 - Stand is in good condition but ready for harvest. Most of the understory fir has died due to the budworm outbreak. A few small vernal ponds exist within the stand. The southern part of the stand contains an old logging road.</p>																																																				
<b>55</b>	6122 - Black Spruce	Poletimber Well	30.6	91	Unspecified	N/A	Stand consists of poorer quality black spruce due to recent heavy snow damage in previous winters. In some areas 30-40% of the black spruce tops are broken off which has resulted in tree mortality. Mature cedar clumps exist within the stand. Stand acts as a filter to the adjacent Bryan Creek flowage.																																													
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