Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32233
Entry Year: 2026
Acreage: 1,122
County: Marquette
Management Area: Suomi Till and Outwash Plain

Stand Examiner: Eric Brolin

Legal Description:

T45N, R29W, Sec. 01, 02, 04.

Identified Planning Goals:

Break up aspen age classes for larger mature stands in the area. Look for opportunities to convert poor quality aspen sites or openings to pine types due to areas of droughty soils within the compartment.

Soil and topography:

Surface sediments consist of coarse textured glacial till with peat and muck. There is very little wetland area within this compartment. Some smaller level bogs and fairly level grass openings, most of the ownership consists of rolling hills to only slightly hilly upland terrain.

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

This comparment is bordered by mostly State land on all sides except the West, but has parcels of both corporate and non-industrial small ownerships within and to the west of this compartment. Development is minimal with cottages or dwellings surrounding Helen Lake in section 3. A few seasonal hunting camps occupy the other scattered more remote private parcels. Production of forest products along with low key recreational activities such as hunting, trapping, hiking, berry picking and snowmobiling make up the land uses within this ownership.

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:

Promote and keep intact the buffers around the kettle ponds and lake within this compartment for wildlife and aesthetic purposes.

Watershed and Fisheries Considerations:

This compartment borders the northern shore of Helen Lake. A minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended for Round Lake to protect shoreland areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Soumi 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; course 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 Soumi 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

Surface sediments consist of coarse-textured glacial till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a building or dimension stone. A gravel pit is located in Section10 and potential appears to be good on the uplands. The abandoned Republic iron mine is located three miles to the north. None of the State land in the compartment is leased for metallic exploration, but previous leases in Sections 32 & 36 were located in the townships to the north. There is no

economic oil and gas production in the UP.

Vehicle Access:

County roads FFG & FNN provide primary access with numerous small two track roads scattered within the compartment to provide access to the public.

Survey Needs:

No survey needs are required for this year of entry.

Recreational Facilities and Opportunities:

No developed recreational facilities exist within this compartment. A groomed snowmobile trail does exist within Sections 1 & 2. Other recreational activities that occur within this compartment include hunting, hiking, biking, berry picking, bird watching, trapping, etc.

Fire Protection:

This compartment is included within the "581 Zone Dispatch" area which provides for a pre-planned dispatch of specified fire equipment from within the Gwinn and Crystal Falls Management Units. This dispatch is dependent on the severity of forecast burning conditions for the specified day. Areas of jack pine and red pine cover types with the encroachment of recreational seasonal dwellings have warranted this pre-planning. Mutual aide agreements with local township volunteer fire departments also provide critical fire suppression response, especially in the area of structure fire and/or protection, and evacuations.

Additional Compartment Information:

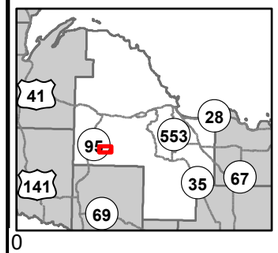
The following reports from the Inventory are attached:

- **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



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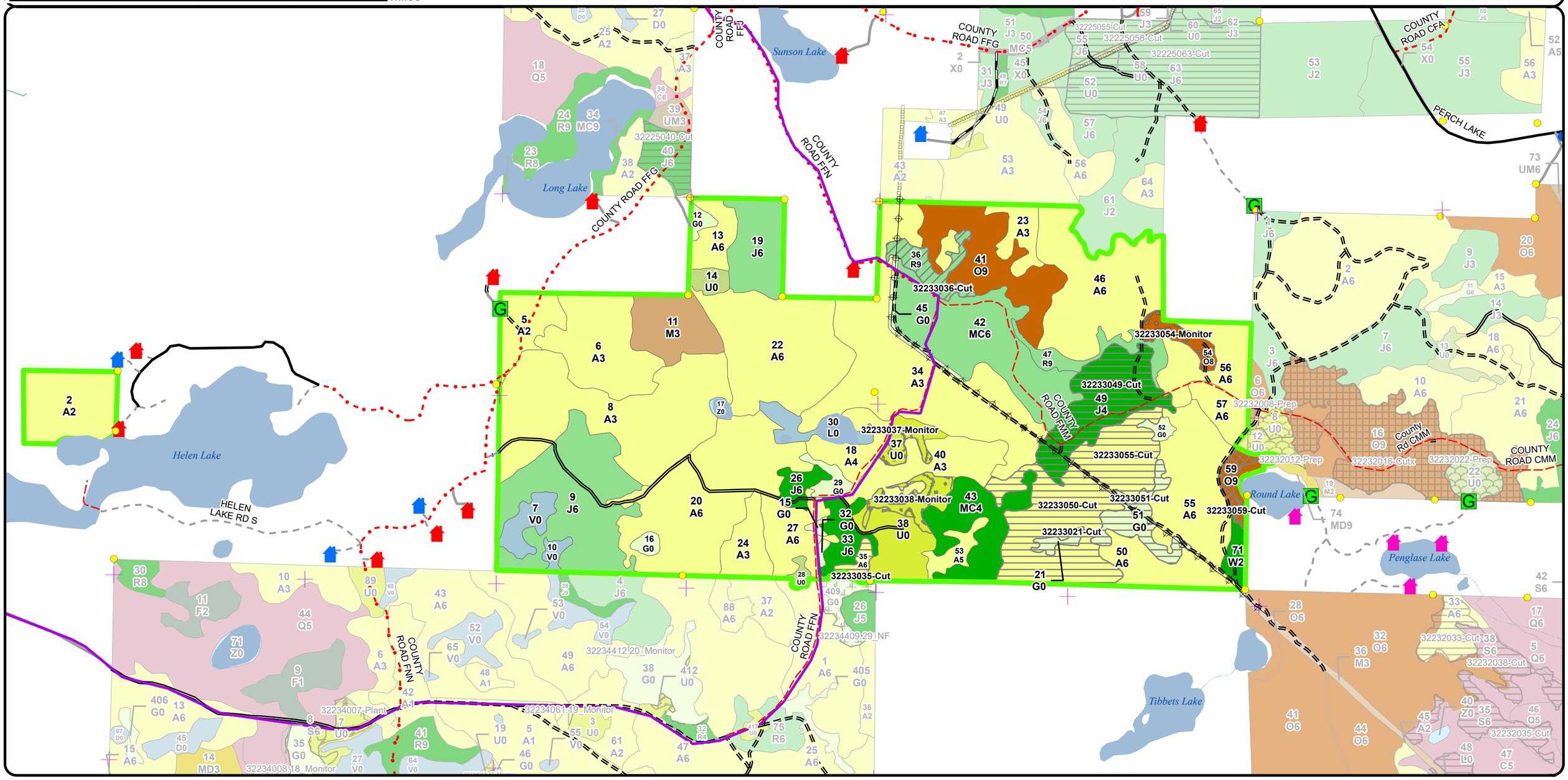
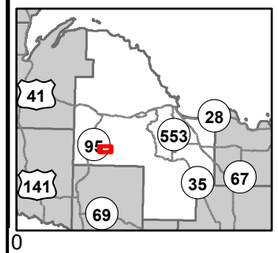
Compartment: 32233
T45N, R29W, Sec: 1, 2, 4
County: Marquette
Unit: Gwinn
Mgmt Area: Suomi Till and Outwash Plain
YOE: 2026
Acres: 1122.1 GIS Calculated
Examiner: Eric Brolin
Map Revised: 10/04/2024
Map Phase: Post Review

0 0.5 1 Miles

- Cabin
- House
- Structure, Seasonal Dwelling
- Gate
- Tower
- Survey Grade Corners
- Remonumented Section Corners
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- 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
- Island in Lake or River
- Lake/Pond
- Perennial River
- Pipeline
- Powerline
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



Stand Boundary Map



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DEPARTMENT OF NATURAL RESOURCES · DNR · MICHIGAN

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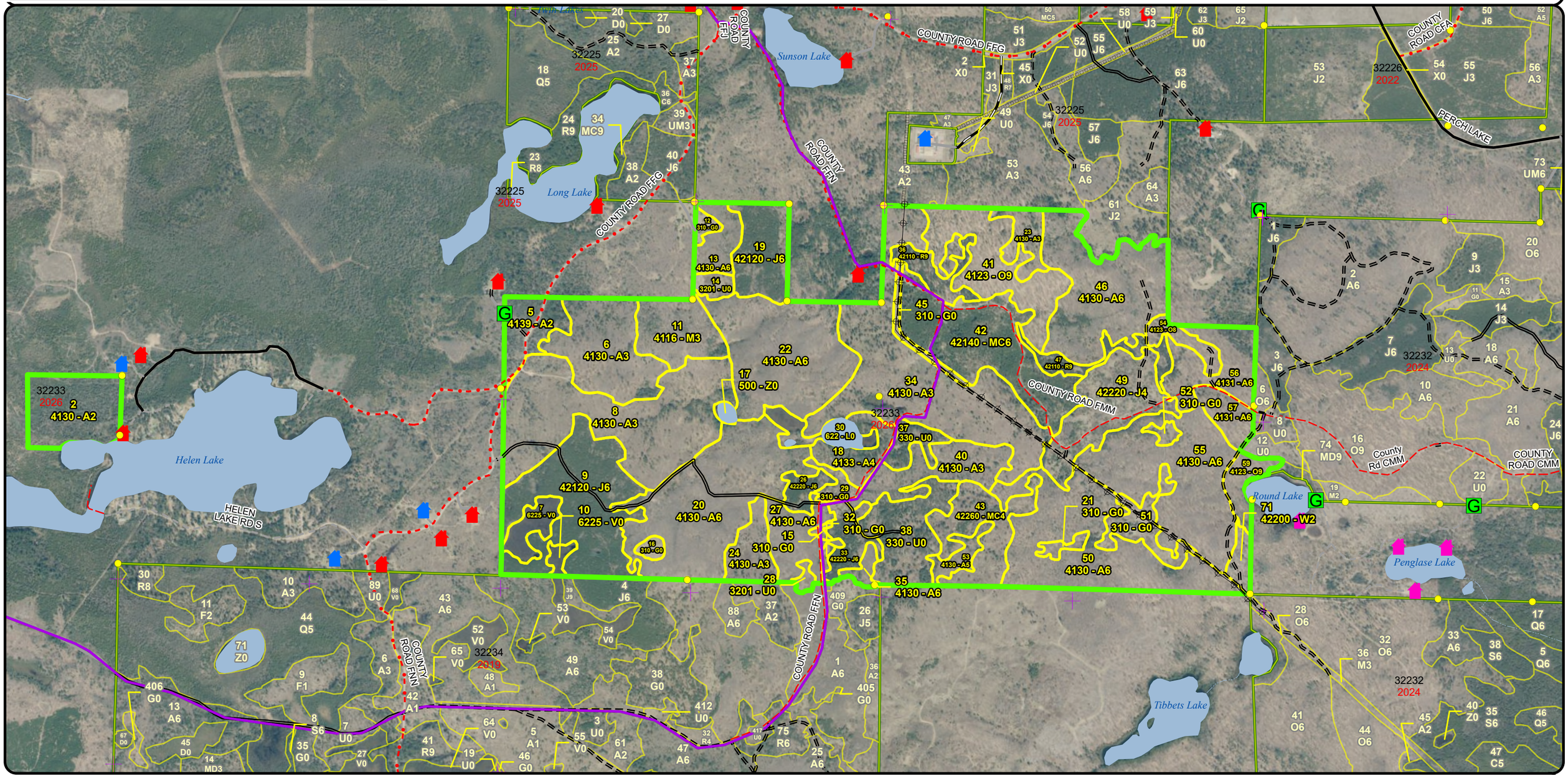
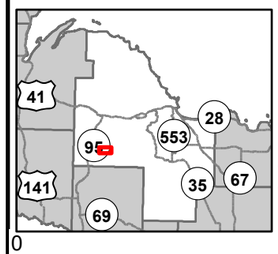


Special Conservation Areas & Site Conditions Map



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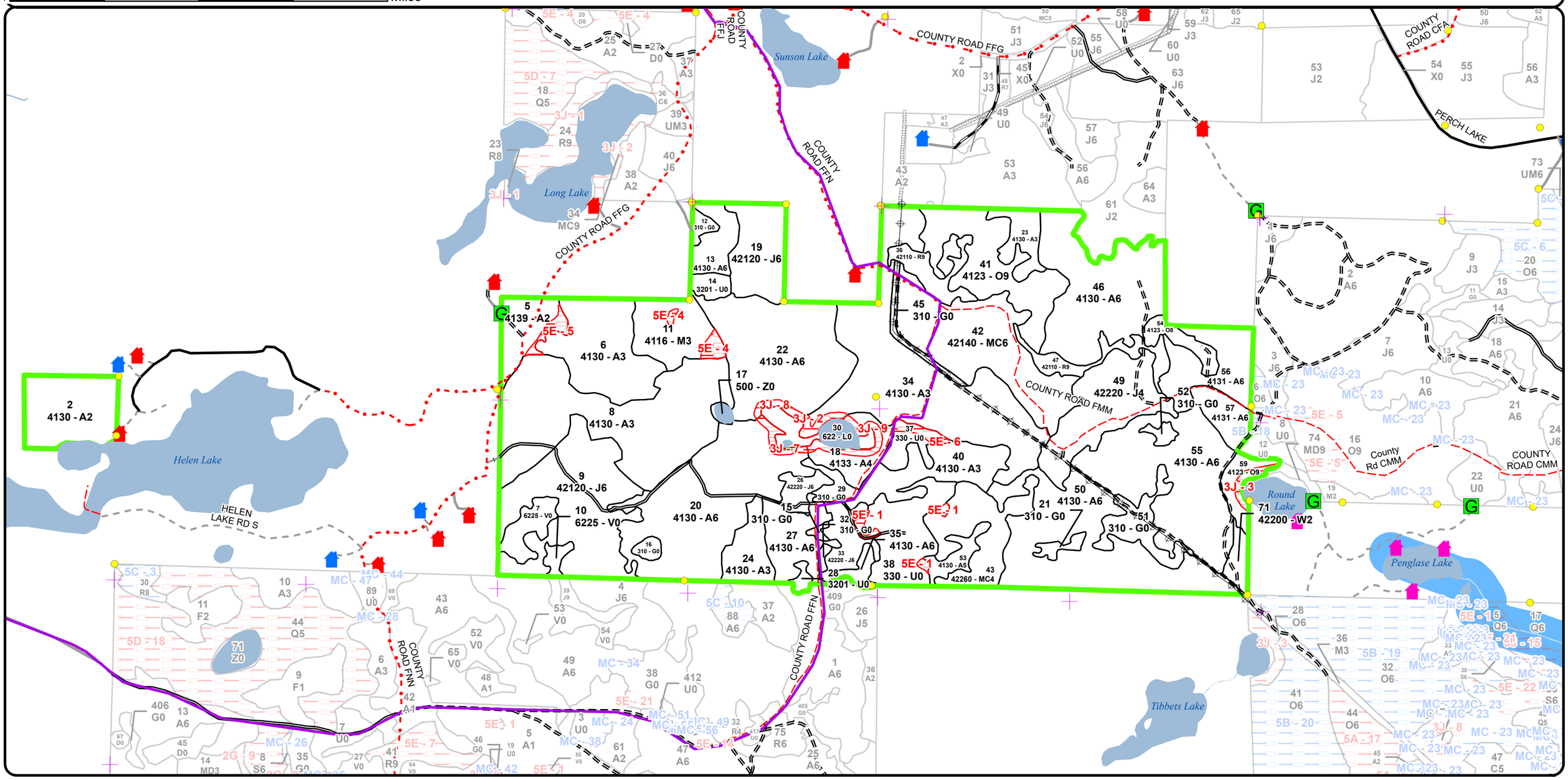
- Island in Lake or River
- Lake/Pond
- Perennial River
- Pipeline
- Powerline
- Lakes and Rivers

- Cold Water Streams
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit **Compartment 233** **Year of Entry 2026**

Eric Brolin: Examiner

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	69	203	61	208	165	0	0	0	0	0	0	0	0	0	0	0	0	**706**
Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**34**
Jack Pine	0	0	0	0	119	17	0	0	0	0	0	0	0	0	0	0	0	0	**136**
Low-Density Trees	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**36**
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**10**
Natural Mixed Pines	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	**27**
Northern Hardwood	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**22**
Oak	0	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	**54**
Planted Mixed Pines	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**54**
Red Pine	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	**20**
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**6**
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
White Pine	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**5**
Total	**100**	**96**	**203**	**115**	**354**	**182**	**0**	**20**	**0**	**0**	**54**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1124**

Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 233

Total Compartment Acres: 1,122

Commercial Harvest - 141

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	73	0	0	0	0	0	0	0	0	**73**
Herbaceous Openland	16	0	0	0	0	0	0	0	0	**16**
Jack Pine	35	0	0	0	0	0	0	0	0	**35**
Oak	0	6	0	0	0	0	0	0	0	**6**
Red Pine	0	0	0	0	0	10	0	0	0	**10**
Total	**125**	**6**	**0**	**0**	**0**	**10**	**0**	**0**	**0**	**141**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	141	0	0	0	0	0	21	0	0	**162**
Next Step	0	103	117	0	0	27	197	0	0	**444**
Total	**141**	**103**	**117**	**0**	**0**	**27**	**217**	**0**	**0**	**606**

Proposed Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21	32233021-Cut	2.6	310 - Herbaceous Openland	Nonstocked		Unspecified	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to establish site for planted jack pine. Leave oak if present.

Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; ; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: jack pine

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
35	32233035-Cut	3.4	4130 - Aspen	Poletimber Well	40	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to promote aspen regeneration. Leave red pine, white pine, and oak if present.

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

Acceptable Regen: aspen, pine

Other Comment: No retention due to small size. Harvest younger stand to create some more aspen age class diversity in the area. Include Spec 5.2.4.2 - (9"-15", at least 8' long by stump, 1 per acre).

Site Condition:

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36	32233036-Cut	9.9	42110 - Planted Red Pine	Sawtimber Well	63	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No

Prescription Specs: Mark stand to 100 BA. Focus on improving quality and creating even crown spacing across the stand. Leave all red oak.

Next Step Treatments:

Acceptable Regen: red pine

Other Comment: Some patches may be "walk-through" areas. Focus on creating even canopy spacing across the stand.

Site Condition:

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
49	32233049-Cut	35.3	42220 - Natural Jack Pine	Poletimber Poor	35	1-50	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to establish site for planted jack pine. Leave oak if present.

Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; ; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: jack pine

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
50	32233050-Cut	47.8	4130 - Aspen	Poletimber Well	40	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No

Prescription Specs: Harvest all merchantable trees to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Leave red pine, white pine, white spruce, and oak.

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

Acceptable Regen: aspen, pine, oak

Other Comment: Use caution during sale administration. A fair amount of pole sized oak trees may be present across the stand. Include Spec 5.2.4.2 - (9"-15", at least 8' long by stump, 1 per every 5-6 acres,
evenly scattered across treatment)."

Site Condition:

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
51	32233051-Cut	13.6	310 - Herbaceous Openland	Nonstocked		Unspecified	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No

Prescription Specs: Harvest to a 2" spec to establish site for planted jack pine. Leave oak if present.

Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Site Prep

Acceptable Regen: jack pine

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
54	32233054-Monitor	6.9	4123 - Red Oak	Sawtimber Medium	92	51-80	Monitoring	Natural Regen (Re-Inventory)	4123 - Red Oak	Two-Aged	No

Prescription Specs: Spring, 2024 - Regen success is heavily browsed. Allow more time for regen success. Continue to monitor next YOE.

Next Step Treatments:

Acceptable Regen: Oak

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
55	32233055-Cut	22.2	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No

Prescription Specs: Harvest all merchantable trees to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Leave red pine, white pine, white spruce, and oak.

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

Acceptable Regen: Aspen, oak, pine

Other Comment: Use caution during sale administration. A fair amount of pole sized oak trees may be present across the stand. Include Spec 5.2.4.2 - (9"-15", at least 8' long by stump, 1 per every 5 acres,
evenly scattered across treatment).

Site Condition:

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
59	32233059-Cut	6.3	4123 - Red Oak	Sawtimber Well	92	81-110	Harvest	Single Tree Selection	4122 - Oak, Pine	Two-Aged	No

Prescription Specs: Mark stand to 60 - 80 BA. Focus on improving oak quality while creating canopy gaps where more oak/pine regeneration is present. Remove all aspen. Leave pine.

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

Acceptable Regen: oak, mixed pine

Other Comment: Lake is buffered 100'.

Site Condition:

Proposed Start Date: 10/1 /2025

Approved Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
37	32233037-Monitor	4.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No

Prescription Specs: Monitor

Next Step Treatments: Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; ; Planting, Replant

Acceptable Regen: Red Pine.

Other Comment: Percent to Treat = 100%

Site Condition:

Proposed Start Date: 10/1 /2025

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
38	32233038-Monitor	9.3	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No

Prescription Specs: Monitor

Next Step Treatments: Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; Planting, Replant

Acceptable Regen: Red Pine.

Other Comment: Percent to Treat = 100%

Site Condition:

Proposed Start Date: 10/1 /2025

Total Treatment Acreage Proposed: 161.8

Report 4 – Site Conditions

Gwinn Mgt. Unit

Eric Brolin: Examiner

Compartment: 233

Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions 3J	5E
705	692	*0*	13	**Aspen**	11	2
12	12	*0*	0	**Bog**		
34	34	*0*	0	**Herbaceous Openland**		
136	136	*0*	0	**Jack Pine**		
36	31	*0*	5	**Low-Density Trees**		5
10	10	*0*	0	**Lowland Shrub**		
27	27	*0*	0	**Natural Mixed Pines**		
22	19	*0*	3	**Northern Hardwood**		3
49	46	*0*	2	**Oak**	2	
54	54	*0*	0	**Planted Mixed Pines**		
20	20	*0*	0	**Red Pine**		
6	6	*0*	0	**Upland Shrub**		
2	2	*0*	0	**Water**		
5	5	*0*	0	**White Pine**		
1,117	1,094		23	Total Forested Acres	13	10
	98%		2%	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**	**5E: Long-Term Retention**	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Long term retention patch for Stand 38.						
2	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	2	2F: Too steep	Unspecified	Unspecified	Unspecified
	Comments: 100' buffer around low water/bog area to protect water quality and most slope along edges is too steep to operate.						

3	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified

Comments:
100' buffer for lake and long term retention for Stand 59.

4	**Unavailable**	**5E: Long-Term Retention**	3	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Long term retention for Stand 11.

5	**Unavailable**	**5E: Long-Term Retention**	2	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Long term retention for Stand 5.

6	**Unavailable**	**5E: Long-Term Retention**	3	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Long term retention for Stand 37.

7	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	2	2F: Too steep	Unspecified	Unspecified	Unspecified

Comments:
100' buffer around low water/bog area to protect water quality and most slope along edges is too steep to operate.

8	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	2	2F: Too steep	Unspecified	Unspecified	Unspecified

Comments:
100' buffer around low water/bog area to protect water quality and most slope along edges is too steep to operate.

9	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	5	2F: Too steep	Unspecified	Unspecified	Unspecified

Comments:
100' buffer around low water/bog area to protect water quality and most slope along edges is too steep to operate.

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

Comments

Mgt. Unit **Compartment:**

Year of Entry

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
2	4130 - Aspen	Sapling Medium	29.2	4	Immature	N/A	Cut in 2019. Aspen regen patchy in areas. Lowland patches and upland patches left around all edges.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling	1	4

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
5	4139 - Aspen, Mixed Deciduous	Sapling Medium	15.8	4	1-50	N/A	Sparse stocking yet in areas. Small aspen clones are 10'+ tall, red maple stump sprouts abundant and browsed shorter. Scattered residual pine and oak. Stand was harvested in the fall of 2019 as part of the Jumpin' Juneberry sale. 122-16 Currently regeneration is patchy, but should fill in over time.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling	2	
Red Maple	30	Sapling	1	4
Quaking Aspen	47	Sapling	1	4
Red Oak	5	Log/Pole	12	
White Pine	2	XLog	18	
Red Pine	3	XLog	18	
Paper Birch	3	Sapling	2	
Black Cherry	5	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	4130 - Aspen	Sapling Well	37.2	25	1-50	N/A	Bigtooth aspen stand transitioning to pole sized trees. A fair amount of oak is competing, same age as the aspen, some are topped and some are dominant. Cut in 1998. Thick big tooth aspen regeneration! East edge of stand contains a few red oak that have regenerated and are keeping up with the aspen regeneration!

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	3	
Red Pine	4	Log	16	
Red Oak	15	Log/Pole/XLog	14	
Bigtooth Aspen	76	Sapling/Pole	4	25

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	Variable	Sapling
Red Maple	High	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	6225 - Bog	Nonstocked	8.9			No	Bog

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4130 - Aspen	Sapling Well	82.3	14	1-50	N/A	Dense aspen saplings with conifer saplings mixed in and in the understory. Large residual mixed pine and oak scattered across the stand. A few acres in the NW is heavy to jack pine saplings. Some denser red pine patches in the far east.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	41	Sapling	2	14
Bigtooth Aspen	25	Sapling	2	14
Red Pine	6	Log/XLog	17	
White Pine	3	Log/XLog	17	
Balsam Fir	2	Sapling/Pole	3	
Red Maple	10	Sapling	2	
Jack Pine	5	Sapling	2	
Red Oak	6	Log	15	
Paper Birch	2	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	42120 - Planted Jack Pine	Poletimber Well	61.2	33	51-80	N/A	Dense stand of jack pine poles. Trenched and planted in 1990. Jack Pine is in good condition. Tree density is high!

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	3	Pole/Sapling	7	
Red Pine	1	Pole	7	
Jack Pine	96	Pole/Sapling	6	33

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	Variable	Sapling
Red Maple	Trace	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	6225 - Bog	Nonstocked	2.7			No	Bog

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	4116 - Mixed N. Hardwood - Aspen	Sapling Well	22.1	4	Immature	N/A	Small patches are denser to aspen. Otherwise, dominant to red maple stump sprouts and individual stems. Closer to 75% stocking at this time but should fill in well with time. Scattered residual mixed pine and oak. Beefy oak saplings abundant in areas averaging 2' tall, should succeed. Stand was harvested in late fall of 2019 as part of the Jumpin' Juneberry sale. 122-16. Stand contained a fair amount of paper birch therefore the natural regeneration may take awhile to show up. 10-4-2021: Did a walk through of the stand and was impressed by the amount of oak and red maple saplings that are within the sapling size. Also noticed some paper birch regeneration. Most are less than a foot tall at this point. Pockets of fully stocked aspen exist in the 4-5' range. Stand looks on track to regenerate naturally. Some areas will take longer than others but overall stand looks alot better than it did a year ago. This year is another good acorn year and the scattered mature oak within the stand will provide yet another good seed source for oak to re-establish.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	3	Log	14	
Bigtooth Aspen	20	Sapling	1	4
White Pine	3	Log	14	
Red Pine	3	Log	14	
Red Maple	71	Sapling	1	4

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Medium	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	310 - Herbaceous Openland	Nonstocked	2.5		Unspecified	No	Grass opening with scattered trees.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4130 - Aspen	Poletimber Well	10.8	35	51-80	N/A	North seems to be poorer quality aspen site with more quaking. Good aspen throughout with mixed oak and conifer. Cut in 1988. Stand has pockets of decent quality aspen and pockets of poor quality. It appears that soil quality may be poor in some areas causing some small pockets of mortality, nothing major however.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	4	Log	16	
Quaking Aspen	25	Pole	5	
Bigtooth Aspen	68	Pole	6	35
White Pine	3	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Quaking Aspen	Low	Variable	Sapling
Jack Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen	Medium	>20 feet	Sapling
Hazelnut (Spp.)	High	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	3201 - Sweet Fern	Nonstocked	4.2		Unspecified	No	
15	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified	No	Grass opening with scattered saplings.
16	310 - Herbaceous Openland	Nonstocked	2.3			No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	500 - Water	Nonstocked	1.6		Unspecified	No	
18	4133 - Aspen, Mixed Pine	Poletimber Poor	13.3	40	81-110	N/A	The SW area includes part of an opening that was merged in as it contains a dense enough component of aspen and mixed pine poles to become forested. The remaining narrow strip contains mature mixed aspen, maple, and pine.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Pole/Log	9	
Jack Pine	5	Pole	8	40
White Pine	20	Log/Pole/XLog	16	95
Red Maple	20	Pole/Log	9	
Red Pine	15	Log/Pole/XLog	16	
Quaking Aspen	20	Pole/Log	8	40

19	42120 - Planted Jack Pine	Poletimber Well	22.4	33	51-80	N/A	Nice jack pine pole stand. Veins of aspen in the south and along the east edge.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	6	Pole/Sapling	5	
Jack Pine	92	Pole	7	33
Bigtooth Aspen	2	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	10 - 20 feet	Sapling

20	4130 - Aspen	Poletimber Well	73.4	34	81-110	N/A	Good quality aspen stand heavy to big tooth with very dense understory of red maple saplings. Some open patchy areas in the NE starting to grow in. Cut in 1989. Aspen is decent quality. A few stems are falling out of the stand but nothing major at this time.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling/Pole	4	
Quaking Aspen	26	Pole/Sapling	6	34
Red Oak	5	Log/XLog	17	
Paper Birch	2	Pole	6	
Red Pine	1	Log/Pole	10	
Jack Pine	2	Pole	7	
White Pine	1	Pole	7	
Bigtooth Aspen	53	Pole/Sapling	7	34

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	Variable	Pole
Bigtooth Aspen	Low	Variable	Sapling
Quaking Aspen	Low	Variable	Sapling
Red Maple	High	Variable	Sapling

21	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	No	Opening growing in with some saplings and scattered pine. Some terrain with a large elevation bowl in the center.

22	4130 - Aspen	Poletimber Well	60.9	35	51-80	N/A	Nice aspen pole stand heavy to bigtooth. Scattered mixed pine within. Cut in 1988. Well stocked, healthy aspen regeneration throughout!

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2	Log	15	
White Pine	2	Log	15	
Bigtooth Aspen	86	Pole	6	35
Quaking Aspen	10	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	High	>20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	4130 - Aspen	Sapling Well	12.1	15	1-50	N/A	Aspen Sapling stand with a good mix of residual oak and pine. Sections of this stand were broken out from the original surrounding oak stand with a lesser oak canopy and dense aspen success from past harvest in 2008.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	45	Sapling	3	15
Red Pine	3	Log/Pole	13	
Paper Birch	3	Sapling	2	
Red Maple	5	Sapling	2	
Red Oak	8	Log/Pole	13	
Quaking Aspen	30	Sapling	2	15
White Pine	6	Log/Pole	13	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	4130 - Aspen	Sapling Well	12.7	14	Immature	N/A	Aspen sapling stand. Some open patchy areas in the SW and north growing in with some saplings. Cut in 2009. Aspen regeneration looks good. A few scattered red pine exist throughout the stand. A few red pine and oak have blowdown in the summer 2013 wind storm.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	6	Log/XLog	17	
Black Cherry	3	Sapling	2	
White Pine	2	Log/Pole	13	
Red Maple	20	Sapling	2	
Quaking Aspen	24	Sapling	2	
Bigtooth Aspen	45	Sapling	3	14

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	42220 - Natural Jack Pine	Poletimber Well	6.0	40	81-110	N/A	Dense jack pine pole stand. OI has the stand origin as 1983. Dense stand of jack pine, stem quality is good.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	95	Pole	8	40
Quaking Aspen	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	Variable	Pole

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	4130 - Aspen	Poletimber Well	17.8	44	81-110	N/A	Good quality aspen pole stand. Densely grown trees are smaller than average diameter for similar stands in the area.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Pole	7	44
Red Pine	2	Pole/Log	9	
Bigtooth Aspen	30	Pole	8	
Jack Pine	3	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	3201 - Sweet Fern	Nonstocked	1.9		Unspecified	No	Opening with almost no saplings or encroachment from surrounding stands.
29	310 - Herbaceous Openland	Nonstocked	4.6	0	Unspecified	No	Small opening to be included in future jack pine harvest along the west edge and re-planted. Currently has scattered open grown jack pine with low branching and short heights.
30	622 - Lowland Shrub	Nonstocked	10.1		Unspecified	No	Low area holding water in most spots.
32	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified	No	Grass opening with scattered saplings.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	42220 - Natural Jack Pine	Poletimber Well	11.0	40	81-110	N/A	Nice jack pine poles. Some patchier areas along the edges. OI states the stand is most likely the result of a Rx burn. Stand origin is 1983. Decent stand of dense jack pine. Stem quality is good.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	100	Pole	7	40

34 4130 - Aspen — Sapling Well — 86.1 — 15 — 1-50 — N/A

Good aspen saplings with a fair amount of residual oak/pine left from past harvest. Approximately 20 acres along the south edge of the ELF line was planted to jack pine. This area has been merged in as it has been mostly out competed by aspen. This can be reevaluated next YOE to determine if a separate jack pine stand should be delineated out. Cut in 2008. North half of stand was trenched and seeded in 2009. Not enough of a difference right now to split, check in 10 yrs! A fair amount of retention left in the stand of oak and pine. The aspen regeneration looks ok in some spots and poor in others. Count shows 565 trees/acre on north end ok to close FTP 32-727.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	7	Log/Pole/XLog	15	
Bigtooth Aspen	30	Sapling	3	
Red Pine	7	Log/XLog	16	
Jack Pine	6	Sapling	2	
Quaking Aspen	34	Sapling	2	15
Paper Birch	2	Sapling	2	
White Pine	6	Log/Pole	13	
Red Maple	5	Sapling	1	
Black Cherry	3	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling

35 4130 - Aspen — Poletimber Well — 3.5 — 40 — 81-110 — N/A

Good quality aspen poles. Tall and larger diameter for age.

OI states the stand is most likely the result of a Rx burn. Decent stand of aspen, a few stems have fallen out off stand most likely due to droughty soils.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Pole	8	
Quaking Aspen	75	Pole	8	40
Jack Pine	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Sapling
White Pine	Low	Variable	Sapling

36 42110 - Planted Red Pine — Sawtimber Well — 9.9 — 63 — 111-140 — N/A

Red pine stand with small sawlog to pole sized trees. Fairly open understory. Density varies in areas across the stand ranging from dense canopy to sparser stocking patches. Overall BA is high in dense areas.

Small red pine plantation. Jack pine and aspen cut out in 2008. Parts of the stand are low basal area while other parts decent basal area. Let the stand grow for 10 years and thin again.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	98	Log/Pole	12	63
Red Oak	2	Log/Pole	13	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling
Quaking Aspen	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling

37 330 - Low-Density Trees — Nonstocked — 7.7 — 0 — Unspecified — No

January 2024, some seedlings visible above snow. Few large scattered residual pine within.

Stand Cut by Minerick logging in 2019

Site planted spring 2023.

38 330 - Low-Density Trees — Nonstocked — 27.9 — 0 — Unspecified — 4211 - Planted Red Pine

EB, 2024. Exact planted areas unclear and did not get a good look at planting success with snow cover.

Stand Cut by Minerick logging in 2019 Under Jumpin juneberry 32-122-16

Site planted Spring 2023.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	4130 - Aspen	Sapling Well	23.7	4	Immature	N/A	Mostly dense aspen saplings with some conifer and red maple. Large scattered pine mixed in. Stand was harvested in the fall of 2019 as part of the Jumpin' Juneberry sale: 122-16. Stand has scattered mature oak throughout and should regenerate back to a mix of deciduous and conifer.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Sapling	2	
White Pine	4	Log/Pole/Sap	15	
Jack Pine	8	Sapling	2	
Quaking Aspen	71	Sapling	1	4
Red Pine	4	Log/Pole/Sap	15	
Red Maple	10	Sapling	3	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	4123 - Red Oak	Sawtimber Well	37.9	92	81-110	N/A	Dense oak canopy in most areas. Multiple small canopy gaps are dominated by aspen saplings. Understory has a fair amount of mixed pine. Red maple saplings found more around canopy gap edges. A high amount of oak seedlings / beefy saplings present in a lot of areas across the stand, more vigorous in areas that allow more sunlight. Cut in the summer of 2008. All oak, red and white pine were left. Stand is regenerating back to a mix of red maple and aspen. Some oak regeneration here and there. Red oak is the dominant stand but regeneration underneath makes it interesting for future management.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log/Pole	11	
Red Pine	5	Log/Pole	10	
Red Oak	91	Log/Pole	11	92
Paper Birch	1	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Pine	Medium	Variable	Sapling
Red Oak	Medium	< 5 feet	Sapling
Red Maple	Medium	Variable	Sapling
Quaking Aspen	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	42140 - Planted Mixed Pine	Poletimber Well	54.2	23	1-50	N/A	Dense mixed pine. Areas of aspen mixed in along some edges. Scattered residual larger pine with some strips of small sawlog red pine that was left. Some aspen along edges. Stand seems to be heavier to a jack pine component. Planted in 2000. A mix of jack pine and red pine within the stand, very high tress per acre. Looks like red pine was planted and jack pine filled in. The plantation looks good. A couple of small patches of mature red pine exists in the south east corner of stand, but too small to delineate out.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log/Pole	13	
Red Pine	37	Pole/Sap/Log	5	23
Quaking Aspen	3	Sapling/Pole	4	
Red Maple	2	Sapling	3	
Jack Pine	50	Sapling	4	23
Red Oak	2	Log/Pole	12	
Bigtooth Aspen	3	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Medium	Variable	Sapling
Jack Pine	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	27.2	34	1-50	N/A	Very patchy opening area. Includes small dense patches of jack pine, scattered aspen/red/white pine, and open areas with cherry saplings. Stand was cut in 1989. OI notes say that a review was held on 9-9-04, it was agreed to at the time to leave this stand as is for wildlife purposes, and have a management objective of grass. Stand has regenerated back but in clumps. Openings still exists throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	7	Pole/Log	9	
Red Oak	3	Log	15	
Black Cherry	15	Sapling	3	
Red Maple	2	Pole/Log	9	
Jack Pine	48	Pole/Sapling	5	34
Red Pine	15	Log/Pole/Sap	10	
Quaking Aspen	10	Pole/Sap/Log	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Managed Site	General Comments
45	310 - Herbaceous Openland	Nonstocked	4.0	No	Saplings growing in areas.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	4130 - Aspen	Poletimber Well	56.8	37	51-80	N/A	Aspen stand of small pole sized trees. Patch of jack pine in the SW area and scattered oak across the stand.Cut in 1986. Stand of decent quality big tooth aspen with a few scattered larger diameter red oak here and there.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	7	Sapling	3	
Red Pine	2	Pole/Sapling	7	
Quaking Aspen	15	Pole	6	
Red Oak	8	Log/Pole	12	
Jack Pine	7	Pole/Sapling	6	
Bigtooth Aspen	59	Pole	6	37
Paper Birch	2	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Oak	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	42110 - Planted Red Pine	Sawtimber Well	10.0	61	81-110	N/A	Recently thinned red pine. Stand was thinned in the fall of 2019 as part of the Jumpin' Juneberry sale: 122-16

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	3	Log/Pole	13	
Red Pine	97	Log/Pole	12	61

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	42220 - Natural Jack Pine	Poletimber Poor	35.3	35	1-50	N/A	Patchy opening growing in with trees. Scattered small aspen patches withing. Evenly scattered open grown jack pine with low branching and shorter heights. Most trees are minimum merchantable size at this time.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Pole	8	
Jack Pine	79	Pole	6	35
Black Cherry	3	Sapling	2	
Red Pine	3	Log/Pole	12	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
50	4130 - Aspen	Poletimber Well	66.8	40	81-110	N/A	Good quality aspen stand. The west half contains more quaking aspen with a very open understory. With elevation change in the east half, bigtooth becomes more of a component and a denser understory of saplings. Larger diameter aspen found in the west half, even log sized diameter trees, and less dense stocking than the east half. Some jack pine poles along openings on the far edges. Scattered white spruce poles and a few interior pine.An escaped Rx burn burned this stand in 1977. Parts of the stand were treated with a KG blade to promote regeneration. Poorer quality quaking aspen with a few big tooth aspen. Poorer quality red oak scattered throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	2	Pole	8	
White Pine	1	Log/Pole	12	
Red Oak	8	Log	14	
Bigtooth Aspen	40	Pole/Log	9	
Jack Pine	3	Pole	7	
Quaking Aspen	46	Pole	8	40

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	310 - Herbaceous Openland	Nonstocked	13.6		Unspecified	No	Opening growing in with some saplings and scattered pine.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	310 - Herbaceous Openland	Nonstocked	2.2		Unspecified	No	Opening growing in with some saplings and scattered pine.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
53	4130 - Aspen	Poletimber Medium	6.1	34	51-80	N/A	This stand has dense enough aspen to be broken out from the original Stand 43 to become an aspen stand on it's own. Mix of aspen sizes from open grown log sized to larger sapling size trees. Patchy openings with some scattered mixed pine within. Stand was cut in 1989. OI notes say that a review was held on 9-9-04, it was agreed to at the time to leave this stand as is for wildlife purposes, and have a management objective of grass. Stand has regenerated back but in clumps. Openings still exists throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole/Log	9	
White Pine	2	Pole/Log	9	
Red Pine	3	Log/Pole/Sap	10	
Quaking Aspen	83	Pole/Sap/Log	7	34
Red Oak	2	Log	15	
Jack Pine	3	Pole/Sapling	5	34
Black Cherry	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	4123 - Red Oak	Sawtimber Medium	6.9	92	51-80	N/A	Current shelterwood harvest left red oak averaging small sawlog sized trees. New regeneration includes mainly red maple with a lesser amount of red oak, all heavily browsed and under 4' tall. This stand was shelterwood harvested in the fall of 2019 as part of the Jumpin' Juneberry sale - 122-16. A timber trespass occurred in which the processor operator mistakenly cut all of the no-cut (marked) trees and left the remainder. Needless to say the residual stand of oak is poorer quality than what was intended.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	100	Log/Pole	12	92

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Oak	Low	< 5 feet	Sapling
Jack Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	4130 - Aspen	Poletimber Well	63.6	44	81-110	N/A	Aspen poles with a majority being bigtooth. Larger diameter trees in the west half with the higher elevation, appears to decrease a bit in diameter in the east. The west half has a fairly open understory with some jack pine poles mixed in along the far edge. The east half understory becomes denser with saplings. Large oak residuals were left across the stand. A fair amount of stand age oak is mixed in and competing very well with the aspen either as individual stems or stump sprout origin. Oak poles seem to be more abundant in the east half with declining terrain and a E/S facing aspect. An escaped Rx burn burned this stand in 1977. Parts of the stand were treated with a KG blade to promote regeneration. Stand of well stocked aspen, good quality as well.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole	8	
Jack Pine	4	Pole/Sapling	7	
Red Oak	18	Log/Pole/Sap	13	44
Paper Birch	1	Pole/Sapling	6	
Bigtooth Aspen	72	Pole/Log	8	44

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Red Oak	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	4131 - Aspen, Oak	Poletimber Well	23.7	26	1-50	N/A	Stand consists of patches of mature oak amongst patches of nice big tooth aspen regeneration. Aspen and maple were cut out of the stand in 1998.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	50	Sapling/Pole	4	26
Red Pine	10	Log/Pole	13	
Red Oak	30	Log/Pole	13	92
Quaking Aspen	10	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Red Oak	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
57	4131 - Aspen, Oak	Poletimber Well	9.6	16	1-50	N/A	Denser red oak patches otherwise mix of saplings, heavy to aspen. Stand cut in 2008. Red oak was left.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	35	Sapling	2	16
Balsam Fir	2	Pole/Sapling	7	
Quaking Aspen	10	Sapling	2	16
Red Maple	18	Sapling	2	16
Red Oak	35	Log	14	95

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
Red Oak	Medium	Variable	Sapling
Bigtooth Aspen	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
59	4123 - Red Oak	Sawtimber Well	8.7	92	81-110	N/A	Dense oak canopy. A good number of mixed pine saplings in the understory as well as some maple and oak less abundant.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	90	Log/Pole	13	92
Paper Birch	8	Pole/Log	8	
Bigtooth Aspen	2	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
Red Pine	Medium	Variable	Sapling
Red Oak	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
71	42200 - Natural White Pine	Sapling Medium	5.1	9	1-50	N/A	Stand is growing in thick with white pine saplings. Some red maple saplings scattered. Residual trees from past harvest include some white pine and oak. Stand was shelterwood harvested in summer/fall of 2015. TS#106-14

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	1	9
White Pine	2	XLog/Log/Pole	18	
White Pine	75	Sapling	1	9
Red Oak	8	Log	15	92