



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72302

Entry Year 2024

Acreage: 1,706

County Otsego

Management Area: Camp Grayling

Stand Examiner: Trevor Kubitskey

Legal Description:

T29N R02W Sections 27, 34 & 35.

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and topography:

The area is dominated with a mix of Croswell, Grayling and Graycalm sands with a minor component of Dawson-Loxley Peats and Ausable-Bowstring mucks. These soils are representative of the topography with the higher, better quality Oak/Aspen ridges dominated by Graycalm sands and the more level, flat areas dominated by Croswell and Grayling Sands. The scattered lowland inclusions throughout the compartment are dominated with Dawson-Loxley Peats. Areas along the North Branch are dominated by Ausable-Bowstring mucks. The overall terrain is rolling. Some steep hills along the North Branch corridor.

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

This compartment falls into the Camp Grayling Military Training grounds with Range 40 just to the west. Most land use within the compartment is dominated with Military training activities. There are active gas wells on the adjacent private property. Ownership is dominated by state land with two private ownerships in the NE part of the compartment.

Unique Natural Features:

The North Branch Au Sable River runs along the northern edge of the compartment. This creates a unique river corridor that is heavily used by wildlife. Sand Lake, a small 6.8 acre lake sits right in the middle of the compartment.

Archeological, Historical, and Cultural Features:

Two archeological sites were recorded in Section 27 and one site was recorded in 34.

Special Management Designations or Considerations:

The compartment falls within Military training ground, so any management proposals will be reviewed by Camp Grayling.

Watershed and Fisheries Considerations:

Two water features fall within the compartment; North Branch Au Sable River and Sand Lake. The North Branch is a designated natural river and if any management activities are to take place near it, the appropriate buffers are applied. Sand Lake is a small lake surrounded by non-designated campsites that is frequently used by the public. There are no rivers or creeks that flow in or out from Sand Lake.

Wildlife Habitat Considerations:

There are two National Wild Turkey Federation (NWTf) planted openings in the SE corner of the compartment. The variety of cover types provide good structure and travel corridors for wildlife such as Deer, Elk, Turkey, Coyotes, and even upland game birds. Various soft mast shrubs such as Serviceberry, Cherry, Hawthorn are present throughout the compartment and provide some good food sources in addition to the large Oak presence.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. No known active sand/gravel pits exist in the area. While there appears to be some good potential for sand & gravel within the compartment, I believe sand & gravel rights could only be leased to the DMVA, and surface development is not currently permitted (parcels are classified as Leasable Non-Development). The compartment is within the Antrim Shale gas play, and all parcels are within Antrim unitized production areas. All State-owned mineral rights are currently leased and held by production. It is unlikely that any additional Antrim wells will be drilled in the area in the near future. The compartment is also on the southern margin of the northern Silurian reef trend, and there is some possibility that additional reef discoveries could be made beneath the compartment. There has been no recent well permit activity in the area. The compartment is within the Camp Grayling reservation area and includes lands leased and purchased by the DMVA.

Vehicle Access:

There is an established road system throughout the compartment; however due to the high sand content in the area, some portions of roads are very soft and would require 4-wheel drive. The two best access routes are from the northwest coming from Waters (Marlette Rd) and from the SE from Lovells (Ski Hill Rd).

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

There are no designated recreational facilities or trails in the compartment. Sand Lake provides opportunities for canoeing, kayaking, fishing with scattered non-designated/rustic campsites on either side.

Fire Protection:

Due to increased military training activities in the area, there is a higher potential for wildfires; however due to the cover types being mostly deciduous, there is very little potential for extreme fire behavior.

Additional Compartment Information:**The following reports from the Inventory are attached:**

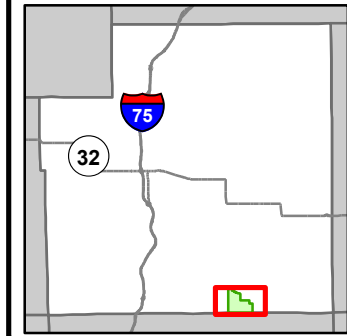
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

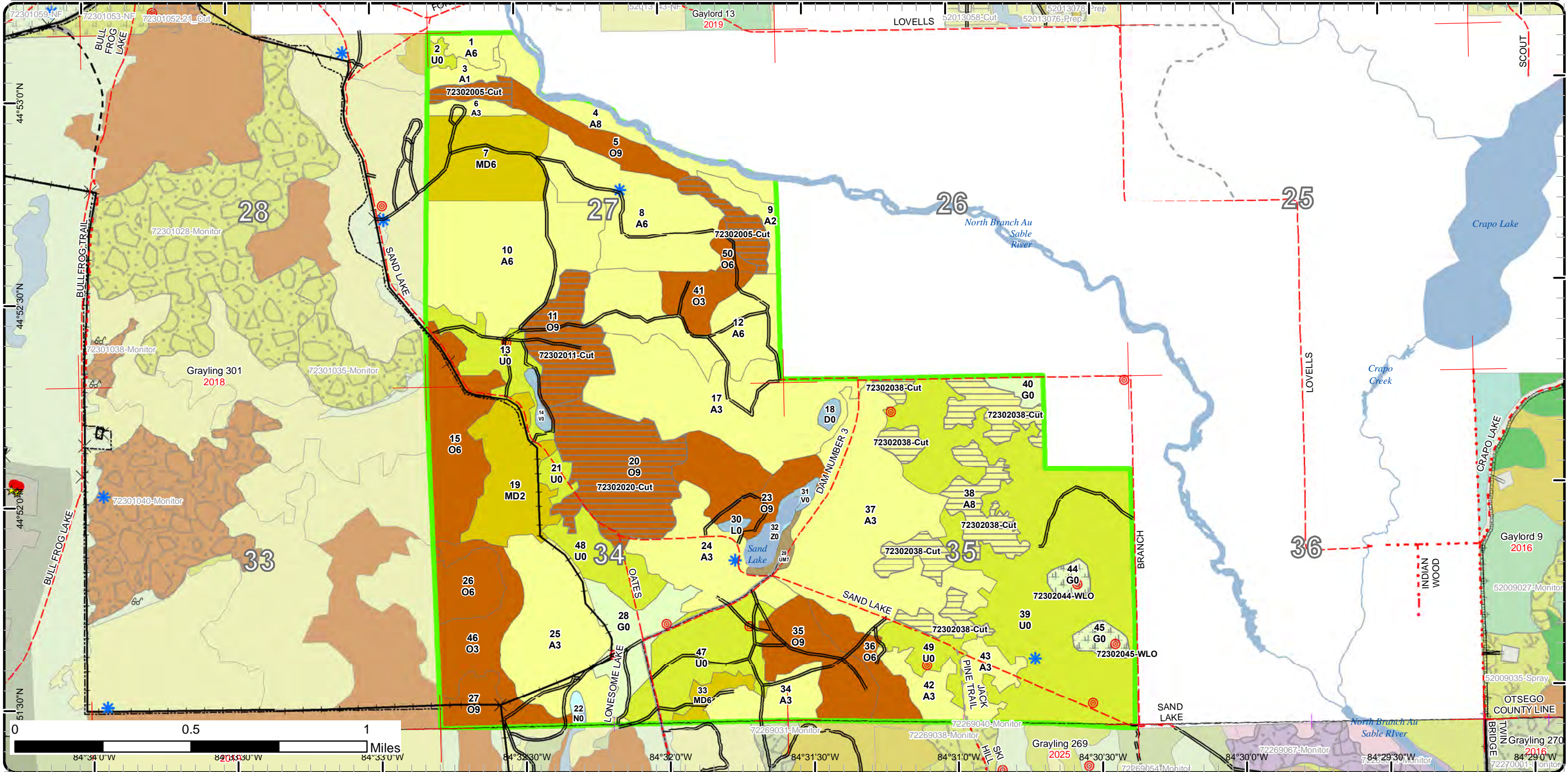
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 302
 T29N, R02W, Sec. 27, 34-35
 County: Otsego
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1705.7 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 12/27/2022
 Map Phase: Post-Review

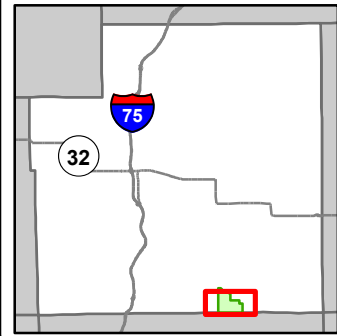


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Pond
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- * Camp Grayling Monitoring Wells
- o Camp Grayling Observation Point
- o Camp Grayling Firing Point
- X Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area

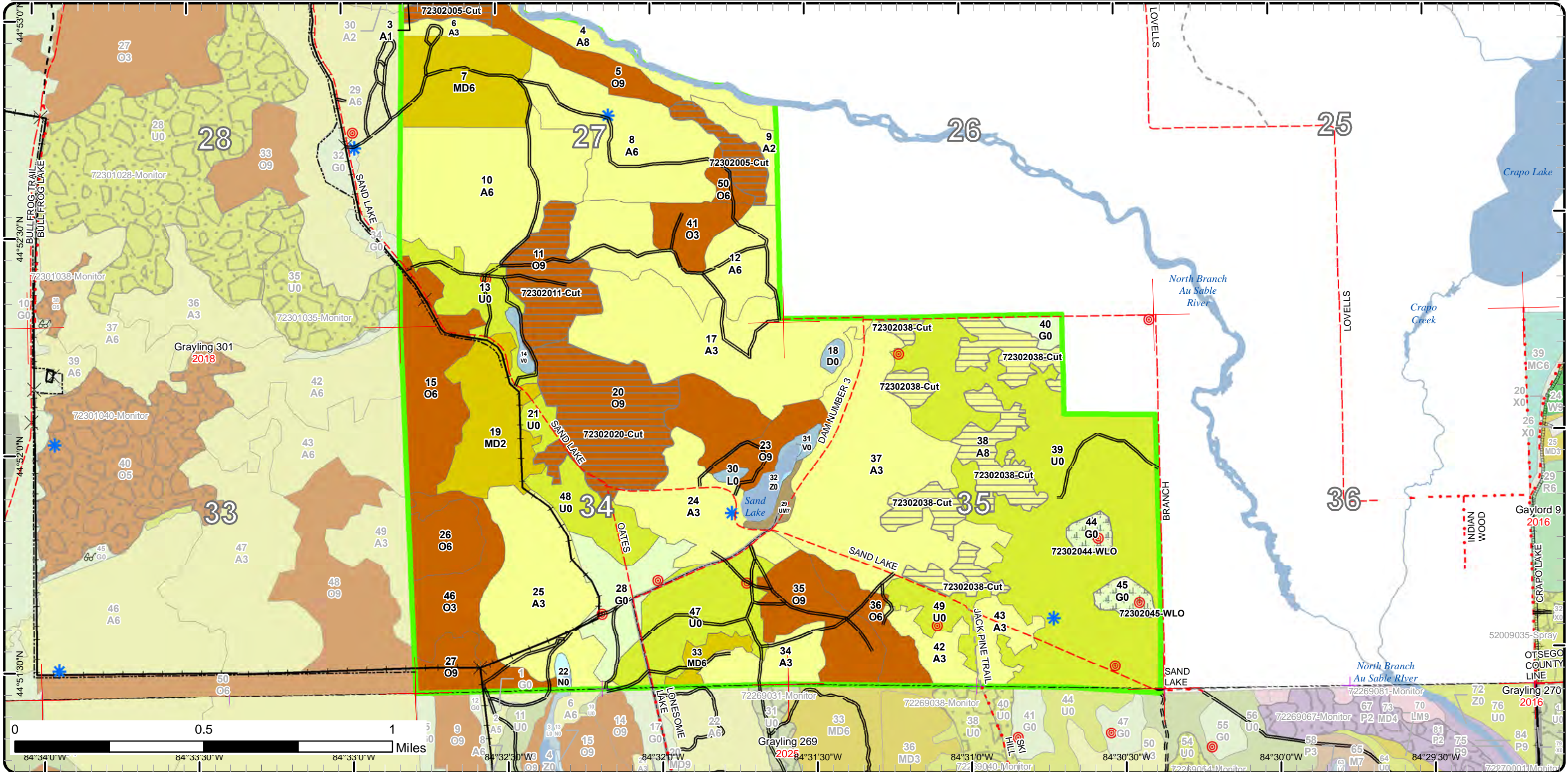


Cover Type & Treatments Map

Compartment: 302
 T29N, R02W, Sec. 27, 34-35
 County: Otsego
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1705.7 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 12/27/2022
 Map Phase: Post-Review

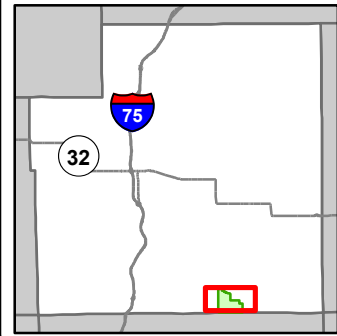


- Miris Corners
- Remonumented Section Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- . - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Intermittent Pond
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- * Camp Grayling Monitoring Wells
- o Camp Grayling Observation Point
- o Camp Grayling Firing Point
- X Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area

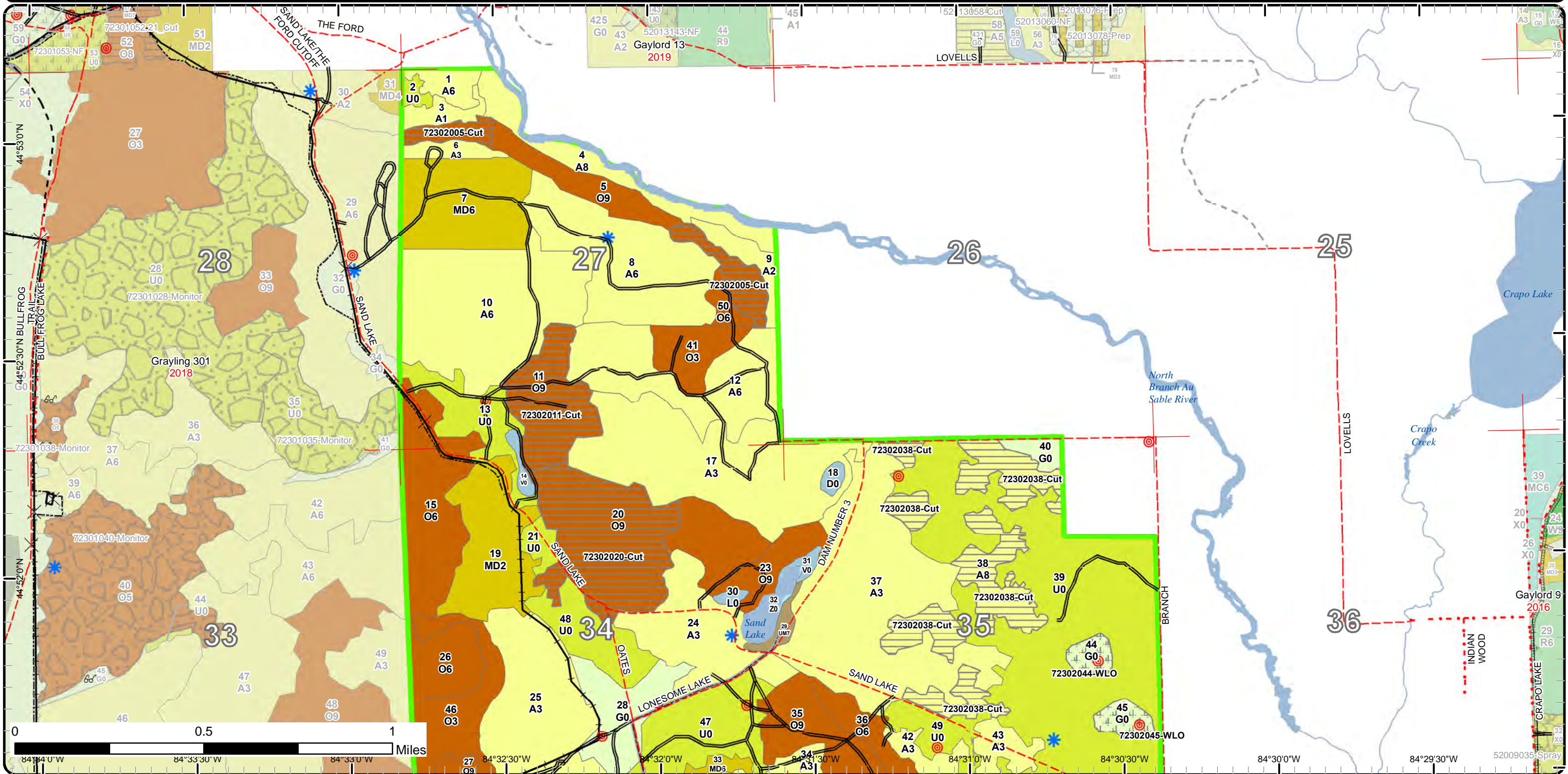


Cover Type & Treatments Map

Compartment: 302
 T29N, R02W, Sec. 27, 34-35
 County: Otsego
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1705.7 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 12/27/2022
 Map Phase: Post-Review

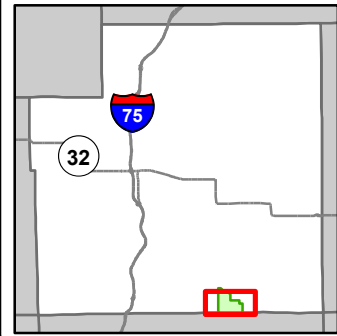


- Miris Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Pond
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Camp Grayling Monitoring Wells
- Camp Grayling Observation Point
- Camp Grayling Firing Point
- Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area

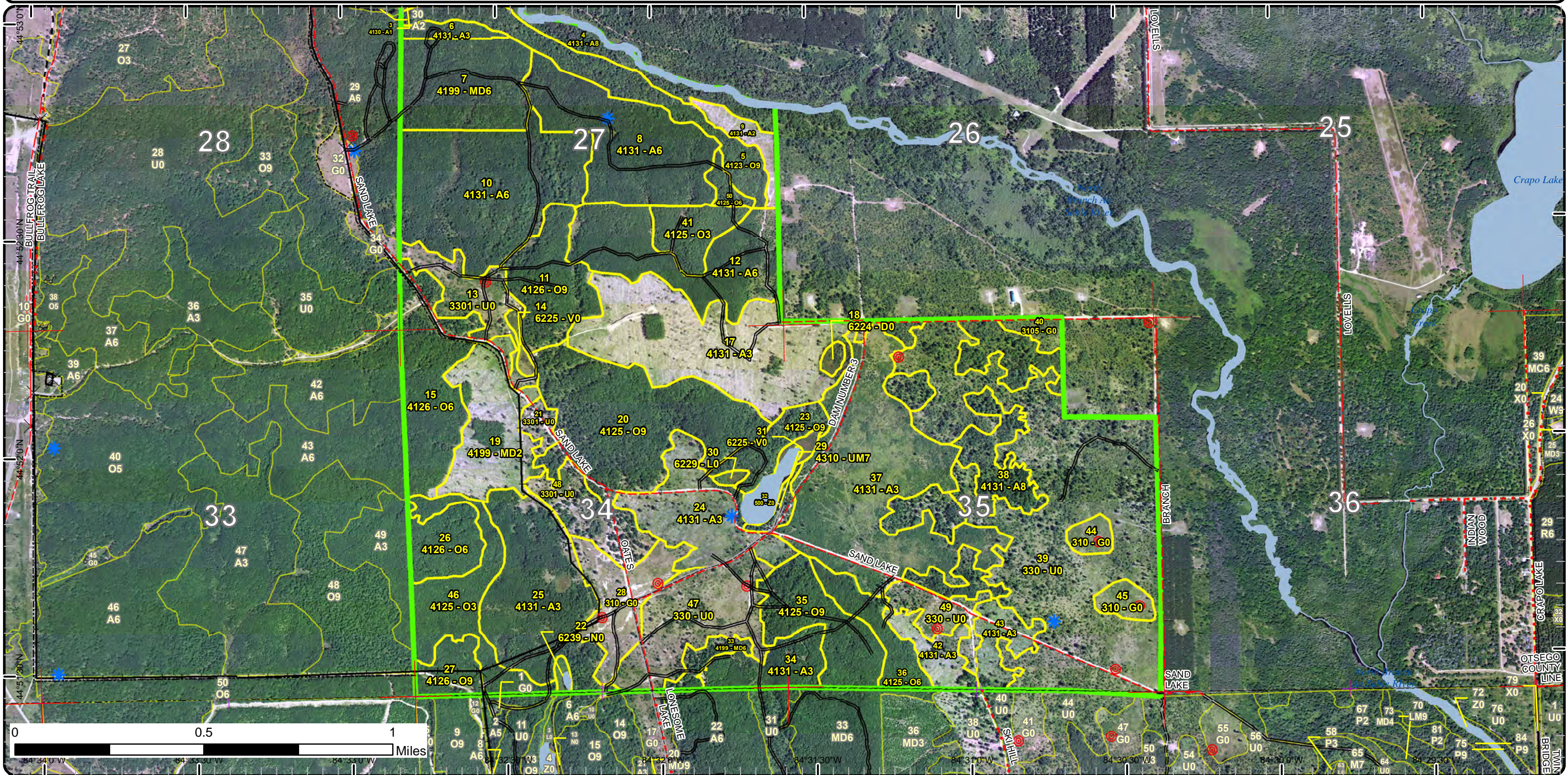


Stand Boundary Map

Compartment: 302
 T29N, R02W, Sec. 27, 34-35
 County: Otsego
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1705.7 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 12/27/2022
 Map Phase: Post-Review

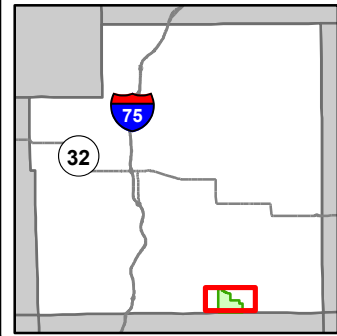


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Pond
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Stand Boundaries
- * 623 - Emergent Wetland
- * Camp Grayling Monitoring Wells
- o Camp Grayling Observation Point
- o Camp Grayling Firing Point
- x Camp Grayling Gates
- + Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

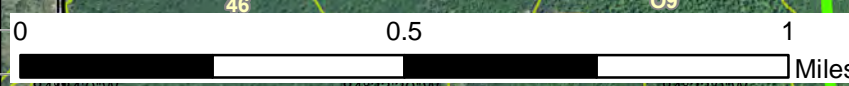
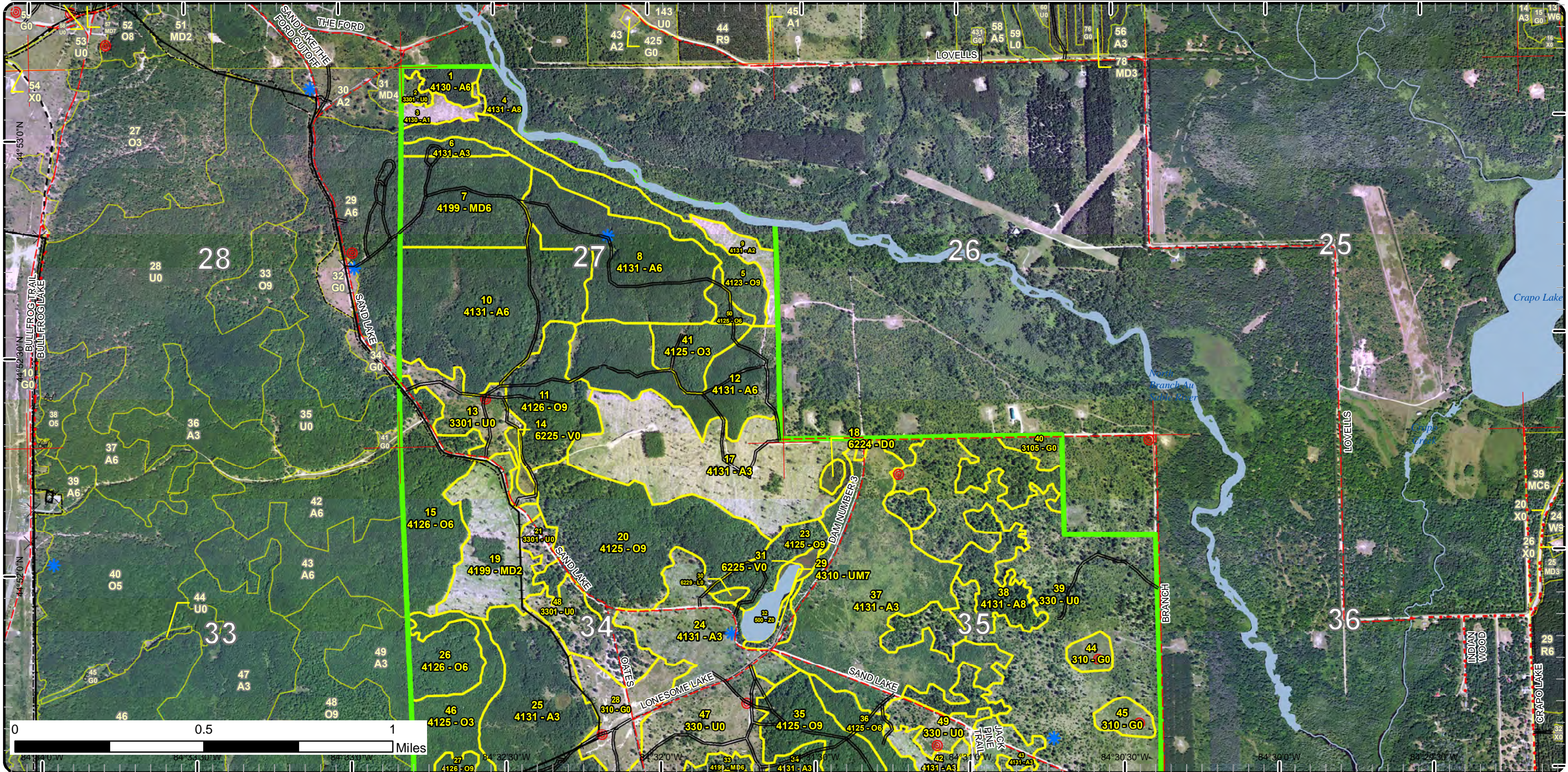


Stand Boundary Map

Compartment: 302
 T29N, R02W, Sec. 27, 34-35
 County: Otsego
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1705.7 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 12/27/2022
 Map Phase: Post-Review



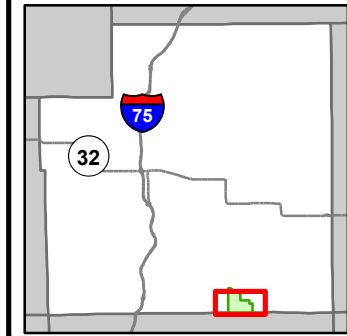
- Miris Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Pond
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- ★ Camp Grayling Monitoring Wells
- ⊙ Camp Grayling Observation Point
- ⊙ Camp Grayling Firing Point
- ✕ Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area



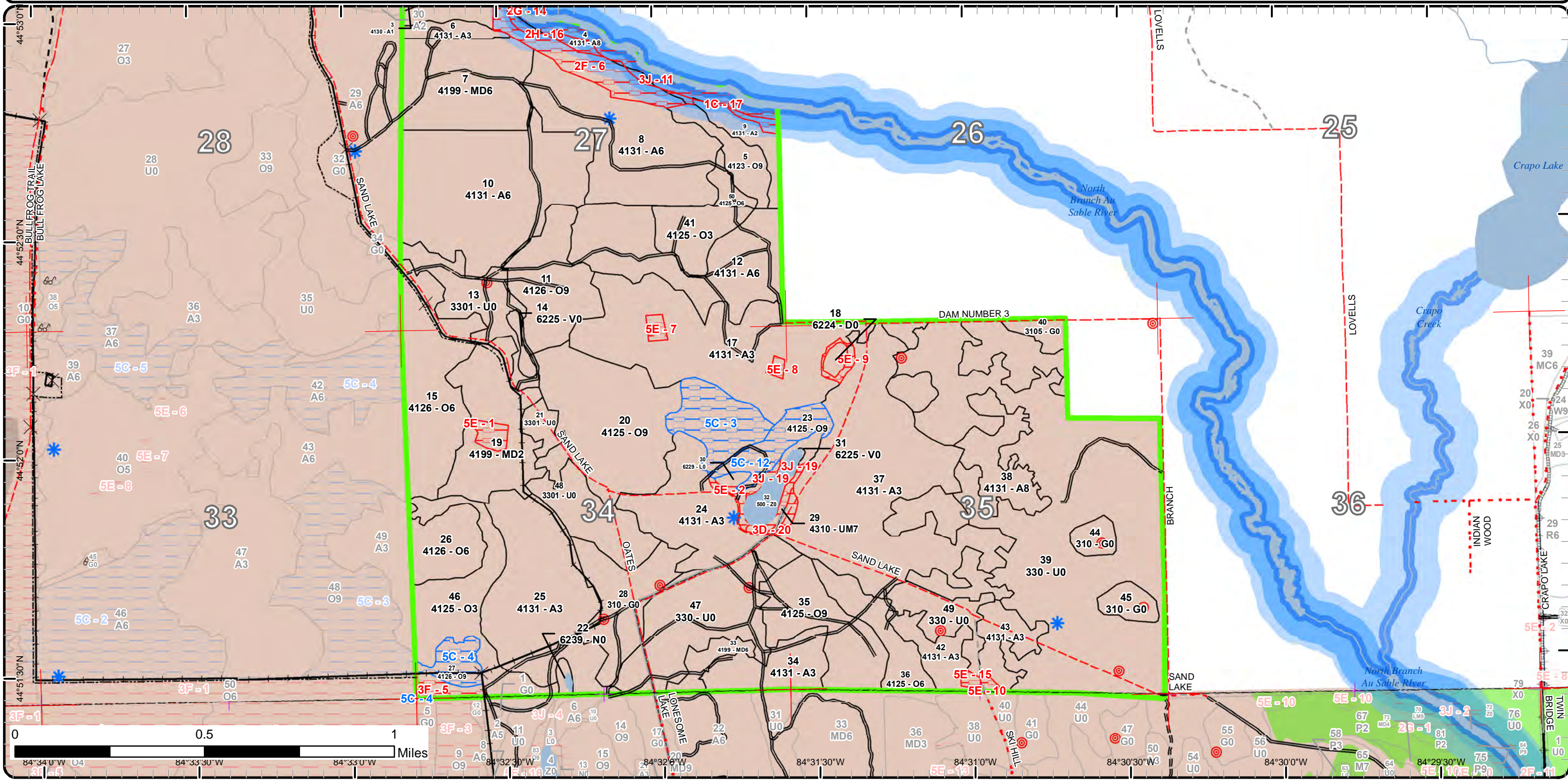
0 0.5 1 Miles

Special Conservation Areas

Compartment: 302
 T29N, R02W, Sec. 27, 34-35
 County: Otsego
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1705.7 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 12/27/2022
 Map Phase: Post-Review

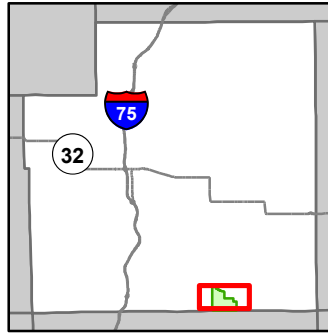


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Pond
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- Military easement / lease
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Camp Grayling Monitoring Wells
- Camp Grayling Observation Point
- Camp Grayling Firing Point
- Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area

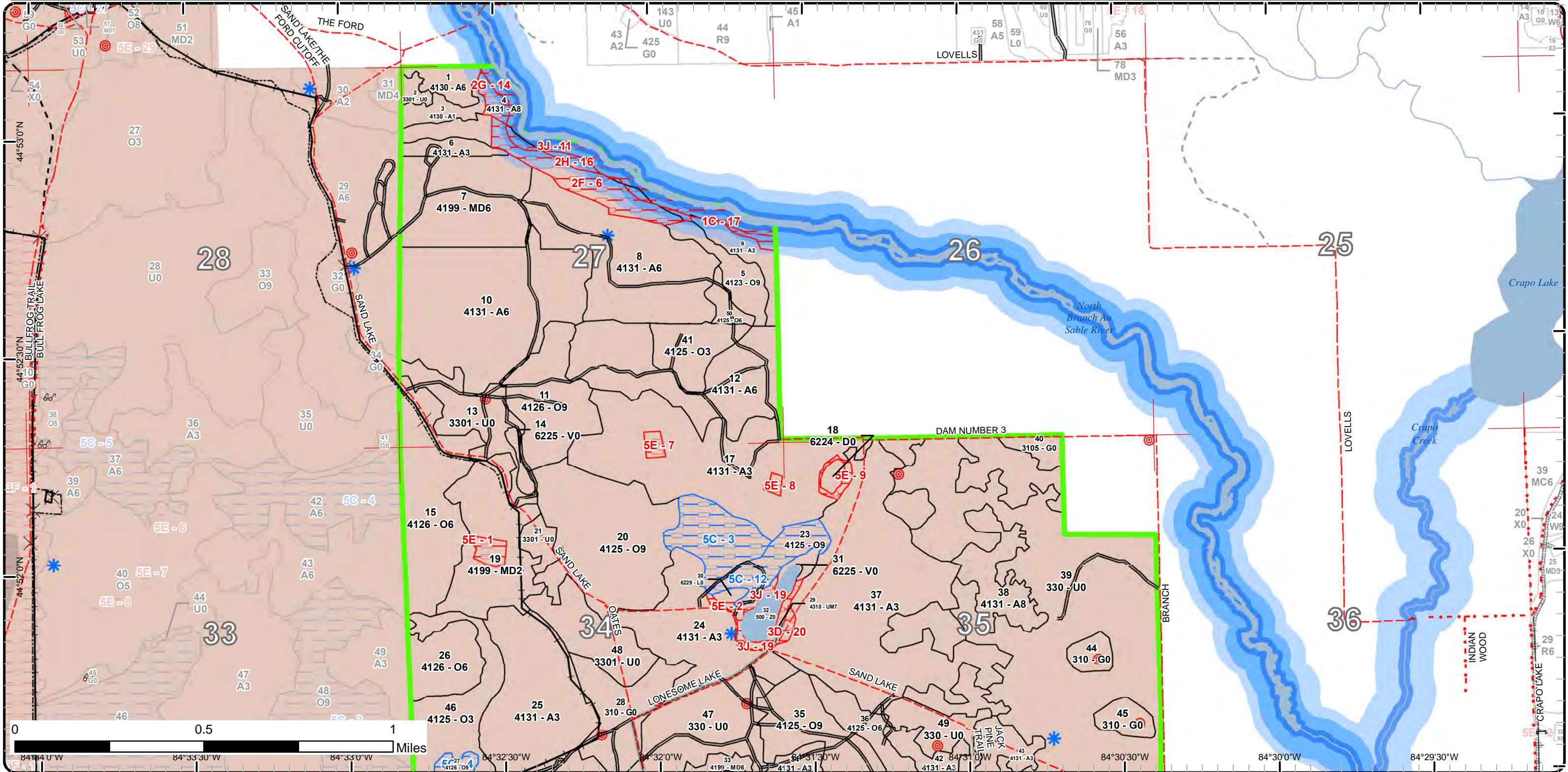


Special Conservation Areas

Compartment: 302
 T29N, R02W, Sec. 27, 34-35
 County: Otsego
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1705.7 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 12/27/2022
 Map Phase: Post-Review



- Miris Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Pond
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Fence
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- * Camp Grayling Monitoring Wells
- o Camp Grayling Observation Point
- o Camp Grayling Firing Point
- x Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area



Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 302 Year of Entry 2024

Trevor Kubitskey : 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	201	125	164	96	80	0	0	75	0	30	0	0	0	0	0	0	0	769
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Herbaceous Openland	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Low-Density Trees	347	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	347
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	47	0	0	8	52	0	0	0	0	0	0	0	0	0	0	0	0	107
Oak	0	0	0	60	0	25	0	0	113	52	111	0	0	43	0	0	0	0	404
Treed Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	421	248	125	224	104	157	0	0	188	57	141	0	0	43	0	0	0	0	1706



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 302
Total Compartment Acres: 1,706

Commercial Harvest - 204
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	75	0	0	0	0	0	0	0	0	75
Oak	129	0	0	0	0	0	0	0	0	129
Total	204	0	0	0	0	0	0	0	0	204

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgr.	Total Acres
Current	204	0	0	0	0	0	0	0	14	218
Next Step	0	0	0	0	0	0	204	0	0	204
Total	204	0	0	0	0	0	204	0	14	422



Standard

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

Approved Treatments:

5	72302005-Cut	21.4	4123 - Red Oak	Sawtimber Well	120	111-140	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Final harvest all trees 2" DBH and up. Minimum retention placed around larger crowned White Oaks in the SE portion of the treatment where terrain is flatter. Run red line to accommodate equipment turn around on the top of the ridges. This may require to run the red line into the adjacent stand to give enough operability. Add military specs and oak wilt specs. Request chipping exemption from military.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Moderately stocked aspen, red maple stand with a component of mixed Oak. Accept any amount of oak. If Oak dominates, that is OK.</p> <p><u>Other Comment:</u> Treatment is outside the 660 ft (12 chain) buffer for an active Eagle's nest. See locked comments for site condition 2F-6. Verify nesting location and activity during sale prep. Arch hit is outside treatment area and will not be disturbed.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
11	72302011-Cut	37.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	89	141-170	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest 2" DBH and up, Do NOT Cut Red/White Pine. 3-5% retention focused around healthy mast producing mixed oak.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A mix of deciduous species such as maple, aspen, oak, cherry, birch that meets minimum stocking criteria. Expect areas to regenerate more towards aspen. Accept any amount of oak.</p> <p><u>Other Comment:</u> Add Oak wilt and Military restrictions.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
20	72302020-Cut	70.4	4125 - Black, N. Pin Oak	Sawtimber Well	92	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest all trees 2" DBH and up. 3-5% Island retention focused around healthy, large crowned mixed Oak. Do NOT cut pine. Military, and Oak wilt restrictions apply.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of Oak, Cherry, Red Maple, Aspen and Birch that meet minimum stocking criteria. Expect some areas to be heavier stocked with Oak than others.</p> <p><u>Other Comment:</u> MNFI polygon in far SW portion across road. Pale agoseris last Obs in 1979</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



S
t
a
n
d

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

38	72302038-Cut	74.7	4131 - Aspen, Oak	Sawtimber Medium	76	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
-----------	---------------------	------	-------------------	---------------------	----	--------	---------	----------------------------	----------------------------------	-----------	----

Prescription Final Harvest all trees 2" DBH and up. Do NOT cut White Oak. Standard retention focusing around dense pockets of hawthorn or large crowned mast producing Oak. During sale prep, Identify and mark out skid trails from one treatment area to the next.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderately stocked Aspen with a minor component of mixed deciduous such as Oak, birch, cherry, maple and any amount of mixed conifer.
Regen: Expect patchy regen in areas and that is acceptable.

Other Add drumming log spec, wildlife shrub protection, military and oak wilt spec to sale.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

44	72302044-WLO	6.3	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
-----------	---------------------	-----	------------------------------	------------	--	-----------------	--------------	-----------------	---------------------------------	--	----

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, native tree/shrub planting, mowing, brushing, burning and herbicide application

Next Step

Treatments:

Acceptable

Regen:

Other This opening is FP 105 and is part of the DNR/NWTF project.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2020

45	72302045-WLO	7.7	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
-----------	---------------------	-----	------------------------------	------------	--	-----------------	--------------	-----------------	---------------------------------	--	----

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, native tree/shrub planting, mowing, brushing, burning and herbicide application.

Next Step

Treatments:

Acceptable

Regen:

Other This opening is FP 106 and is part of the DNR/NWTF project.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2020

Total Treatment 217.8
Acreage Proposed:

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 302

Trevor Kubitskey : Examiner

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres <i>With Condition</i>	Acres Not Available
770	730	0	40

Dominant Site Conditions

	Total Acres	Acres Available	Acres <i>With Condition</i>	Acres Not Available	Dominant Site Conditions										
					5C	1C	2F	2G	2H	3D	3F	3J	5E		
770	730	0	40		Aspen		2	1	4	2				22	10
6	6	0	0		Bog										
53	53	0	0		Herbaceous Openland										
347	347	0	0		Low-Density Trees										
2	2	0	0		Lowland Shrub										
2	2	0	0		Marsh										
107	104	0	3		Mixed Upland Deciduous										3
403	328	48	27		Oak	48		19				5	4		
3	3	0	0		Treed Bog										
5	0	0	5		Upland Mixed Forest					2			3		
8	8	0	0		Water										
1,706	1,582	48	76		Total Forested Acres	48	2	20	4	2	2	5	28	13	
	93%	3%	4%		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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention		4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 19.								
2	Unavailable	5E: Long-Term Retention		2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 24								

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 302

Trevor Kubitskey : Examiner

Year of Entry: 2024

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand needs more time to gain volume. The avg BA for this portion is 80 sq ft.							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage so treating alone may be difficult. Hold and consider treating with the adjacent stands.							
5	Unavailable	3F: Military easement / lease	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2F: Too steep	20	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Steep and portions fall into the Natural Rivers Buffer.							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Trevor Kubitskey : Examiner

Compartment: 302
Year of Entry: 2024

9	Unavailable	5E: Long-Term Retention	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 43.							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers Buffer.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Northern half of stand has a very nice oak component that is establishing well. Canopy cover is low enough that the majority of the oak is growing into canopy gaps.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Saturated soils. With the low stocking of aspen in the canopy, there is a heavy influence of tag alder in this portion. Not sure if we would be able to obtain adequate regeneration of aspen in this area.							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 42.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 302

Trevor Kubitskey : Examiner

Year of Entry: 2024

16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Relatively operable stand but difficult access due to river and steep slopes on all sides.</p>							
17	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 100 ft RMZ buffer</p>							
20	Unavailable	3D: Recreational / Scenic values	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Rustic Campsite with Natural Boat launch. Heavy public use.</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
----------	--------------	-------------	----------------	-------

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4130 - Aspen	Poletimber Well	8.9	45	111-140	N/A	Remarkably pure to aspen with trace paper birch on the edges. Definitely wetter ground due to sub-canopy species. Appears to be seasonally wet in some portions especially portions to the east. Stand is on edge of log, but still overall large pole.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		100	Pole/Log	9	45	Black/Red (Hybrid) Oak		Low	10 - 20 feet	Sapling
						Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub
						Nannyberry		Low	5 - 10 feet	Tall Shrub
						Hawthorn (spp.)		Low	< 5 feet	Tall Shrub
						Dogwood (spp.)		Medium	5 - 10 feet	Tall Shrub
						White Oak		Trace	10 - 20 feet	Sapling
						Tag Alder		Low	5 - 10 feet	Tall Shrub
						Black Cherry		Low	5 - 10 feet	Sapling
2	3301 - Low Density Deciduous Trees	Nonstocked	3.1		Unspecified	No	Non-merchantable upland shrub/low density tree stand. A few scattered Log Pin Oak on the edges but mostly dominated by cherry brush and service berry.			
Sub-Canopy Species		Density	Avg. Height	Size						
Black Cherry		Medium	5 - 10 feet	Tall Shrub						
Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub						
Northern Pin Oak		Low	Variable	Pole						
Hawthorn (spp.)		Low	< 5 feet	Tall Shrub						
White Oak		Trace	>20 feet	Pole						
3	4130 - Aspen	Sapling Poor	7.7	6	Immature	N/A	Harvested in December 2016 under contract 52-618-14 Close Call Mix. Small portion of this treatment was carried into the adjacent A9 stand which is now regenerating to Tag alder. Overall not impressed with the regeneration in this stand. It is very patchy and contains better regen moving to the east. Heavy browse present on the Oak and red maple stems. A lot of good stump sprouts that are now level with the ground due to pressure.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak		1	Sapling	1		White Oak		Trace	< 5 feet	Sapling
Red Maple		5	Sapling	1		Black Cherry		Low	< 5 feet	Sapling
Northern Pin Oak		7	Sapling	1		Northern Pin Oak		Low	< 5 feet	Sapling
Black Cherry		5	Sapling	1						
Bigtooth Aspen		82	Sapling	1	6					
4	4131 - Aspen, Oak	Sawtimber Medium	30.3	93	81-110	N/A	Transitional stand with lots of variability. Would be difficult to separate due to small acreages and the majority of the stand being within the Natural Rivers Buffer. Heavy use by wildlife. North end is dominated by quaking and some balsam poplar that is starting to die out due to increased water table. The thin sliver along the river in the central portion is on a slope that drains down into the river consisting of overmature aspen and some oak. Areas right by the river flatten out to a birch, tag, cedar lowland type stand. Moving down to the east/se portions are more scrubby/brushy upland opening appearance with smaller diameter oak, aspen and cherry. Variable BA.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Oak		10	Log/Pole	12		Beech		Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		25	Log/Pole	12		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub
Quaking Aspen		15	Log/Pole	10		Red Maple		Medium	10 - 20 feet	Sapling
Bigtooth Aspen		30	Log	12	93	White Oak		Low	5 - 10 feet	Sapling
Balsam Poplar		5	Pole/Sapling	6		Tag Alder		Low	5 - 10 feet	Tall Shrub
Red Maple		5	Pole/Log	9		Balsam Poplar		Low	5 - 10 feet	Sapling
Northern White Cedar		3	Pole/Log	9		White Pine		Low	5 - 10 feet	Sapling
White Pine		2	Log/Pole	12		Black Cherry		Medium	Variable	Sapling
Paper Birch		5	Pole/Log	9						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
5	4123 - Red Oak	Sawtimber Well	42.6	120	111-140	N/A	Relatively North/NE facing Oak slope. Some harvestable areas in the far west and east side. Very steep terrain in the central portions with a lot of declining aspen and beech. Far east/southeast portions flatten out. Severe porcupine damage on the hard maple saplings in the sub-canopy as well as some canopy oak. True Reds in stand. Very nice logs.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Pine</td><td>1</td><td>Log</td><td>15</td><td></td></tr> <tr><td>White Oak</td><td>5</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Red Maple</td><td>10</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Paper Birch</td><td>2</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Red Oak</td><td>64</td><td>Log</td><td>13</td><td>120</td></tr> <tr><td>Bigtooth Aspen</td><td>15</td><td>Log/Pole</td><td>12</td><td></td></tr> <tr><td>Beech</td><td>3</td><td>Log</td><td>12</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	1	Log	15		White Oak	5	Log/Pole	12		Red Maple	10	Pole	7		Paper Birch	2	Pole	7		Red Oak	64	Log	13	120	Bigtooth Aspen	15	Log/Pole	12		Beech	3	Log	12		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Sugar Maple</td><td>Low</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Witch Hazel</td><td>High</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	Sapling	Beech	Low	5 - 10 feet	Sapling	Sugar Maple	Low	10 - 20 feet	Sapling	Witch Hazel	High	5 - 10 feet	Tall Shrub	Black/Red (Hybrid) Oak	Medium	Variable	Sapling	White Pine	Low	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Pine	1	Log	15																																																																				
White Oak	5	Log/Pole	12																																																																				
Red Maple	10	Pole	7																																																																				
Paper Birch	2	Pole	7																																																																				
Red Oak	64	Log	13	120																																																																			
Bigtooth Aspen	15	Log/Pole	12																																																																				
Beech	3	Log	12																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Red Maple	Medium	10 - 20 feet	Sapling																																																																				
Beech	Low	5 - 10 feet	Sapling																																																																				
Sugar Maple	Low	10 - 20 feet	Sapling																																																																				
Witch Hazel	High	5 - 10 feet	Tall Shrub																																																																				
Black/Red (Hybrid) Oak	Medium	Variable	Sapling																																																																				
White Pine	Low	5 - 10 feet	Sapling																																																																				
6	4131 - Aspen, Oak	Sapling Well	6.8	28	Immature	N/A	**Stand needs update**Harvested in 1994																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>10</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>35</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>40</td><td>Sapling/Pole</td><td>4</td><td>28</td></tr> <tr><td>White Oak</td><td>15</td><td>Sapling/Pole</td><td>3</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling/Pole	3		Black/Red (Hybrid) Oak	35	Sapling/Pole	3		Bigtooth Aspen	40	Sapling/Pole	4	28	White Oak	15	Sapling/Pole	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Witch Hazel</td><td>Medium</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>White Oak</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling	Witch Hazel	Medium	5 - 10 feet	Tall Shrub	Beech	Low	5 - 10 feet	Sapling	White Oak	Medium	5 - 10 feet	Sapling																							
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Maple	10	Sapling/Pole	3																																																																				
Black/Red (Hybrid) Oak	35	Sapling/Pole	3																																																																				
Bigtooth Aspen	40	Sapling/Pole	4	28																																																																			
White Oak	15	Sapling/Pole	3																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling																																																																				
Witch Hazel	Medium	5 - 10 feet	Tall Shrub																																																																				
Beech	Low	5 - 10 feet	Sapling																																																																				
White Oak	Medium	5 - 10 feet	Sapling																																																																				
7	4199 - Other Mixed Upland Deciduous	Poletimber Well	52.2	45	81-110	N/A	Stand was harvested in 1977 with species removal of Red Maple, Aspen and Birch. Very nice Oak found in the stand, varying between multi-stem stump sprout and single stem. These Oak are within the co-dominant/dominant canopy class. This portion was broken out of a larger aspen stand due to the potential future management of the nicer pole, small log oak. The aspen is in patches and is competing with the co-dominant/dominant oak. Overall BA 92																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>20</td><td>Pole/Log/Sap</td><td>7</td><td></td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>30</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Quaking Aspen</td><td>5</td><td>Pole</td><td>6</td><td>45</td></tr> <tr><td>Bigtooth Aspen</td><td>30</td><td>Pole/Log</td><td>8</td><td>45</td></tr> <tr><td>White Oak</td><td>10</td><td>Pole</td><td>9</td><td></td></tr> <tr><td>Paper Birch</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole/Log/Sap	7		Black/Red (Hybrid) Oak	30	Log/Pole	10		Quaking Aspen	5	Pole	6	45	Bigtooth Aspen	30	Pole/Log	8	45	White Oak	10	Pole	9		Paper Birch	5	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Ironwood</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Witch Hazel</td><td>High</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>White Oak</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Low	5 - 10 feet	Sapling	Witch Hazel	High	5 - 10 feet	Tall Shrub	White Oak	Low	5 - 10 feet	Sapling	Black Cherry	Low	Variable	Sapling	Black/Red (Hybrid) Oak	Medium	Variable	Sapling	Beech	Low	5 - 10 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Maple	20	Pole/Log/Sap	7																																																																				
Black/Red (Hybrid) Oak	30	Log/Pole	10																																																																				
Quaking Aspen	5	Pole	6	45																																																																			
Bigtooth Aspen	30	Pole/Log	8	45																																																																			
White Oak	10	Pole	9																																																																				
Paper Birch	5	Pole/Sapling	6																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Ironwood	Low	5 - 10 feet	Sapling																																																																				
Witch Hazel	High	5 - 10 feet	Tall Shrub																																																																				
White Oak	Low	5 - 10 feet	Sapling																																																																				
Black Cherry	Low	Variable	Sapling																																																																				
Black/Red (Hybrid) Oak	Medium	Variable	Sapling																																																																				
Beech	Low	5 - 10 feet	Sapling																																																																				
8	4131 - Aspen, Oak	Poletimber Well	71.1	45	81-110	N/A	Stand was originally merged with stand 7 but broken out due to species composition and future management potential. Nice, well established oak pockets but overall dominated by bigtooth and some clones of quaking aspen. Some rolling topography. Overall good quality and healthy. Some larger diameter log/xlog oaks in the NE.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>15</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Quaking Aspen</td><td>20</td><td>Pole</td><td>6</td><td>45</td></tr> <tr><td>Bigtooth Aspen</td><td>40</td><td>Pole/Log</td><td>8</td><td>45</td></tr> <tr><td>White Oak</td><td>5</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td>Pole/Log</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole	7		Quaking Aspen	20	Pole	6	45	Bigtooth Aspen	40	Pole/Log	8	45	White Oak	5	Pole	7		Black/Red (Hybrid) Oak	20	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Oak</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Witch Hazel</td><td>High</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	5 - 10 feet	Sapling	Black/Red (Hybrid) Oak	Medium	Variable	Sapling	White Oak	Low	Variable	Sapling	Witch Hazel	High	5 - 10 feet	Tall Shrub																		
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Maple	15	Pole	7																																																																				
Quaking Aspen	20	Pole	6	45																																																																			
Bigtooth Aspen	40	Pole/Log	8	45																																																																			
White Oak	5	Pole	7																																																																				
Black/Red (Hybrid) Oak	20	Pole/Log	8																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Black Cherry	Medium	5 - 10 feet	Sapling																																																																				
Black/Red (Hybrid) Oak	Medium	Variable	Sapling																																																																				
White Oak	Low	Variable	Sapling																																																																				
Witch Hazel	High	5 - 10 feet	Tall Shrub																																																																				
9	4131 - Aspen, Oak	Sapling Medium	10.5	7	Immature	N/A	Harvested in fall of 2015 under contract 52-618-14 Close Call Mix. Heavy deer browse throughout on stems under 5-6 ft. Oak will be a minor component of stand.																																																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Bigtooth Aspen</td><td>40</td><td>Sapling</td><td>1</td><td>7</td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td>Sapling</td><td>1</td><td></td></tr> <tr><td>Red Maple</td><td>20</td><td>Sapling</td><td>1</td><td></td></tr> <tr><td>Black Cherry</td><td>15</td><td>Sapling</td><td>1</td><td></td></tr> <tr><td>Beech</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	40	Sapling	1	7	Black/Red (Hybrid) Oak	20	Sapling	1		Red Maple	20	Sapling	1		Black Cherry	15	Sapling	1		Beech	5	Sapling	1		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Low</td><td>< 5 feet</td><td>Sapling</td></tr> <tr><td>Blackberry/Raspberry</td><td>Medium</td><td>< 5 feet</td><td>Tall Shrub</td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>< 5 feet</td><td>Tall Shrub</td></tr> <tr><td>Red Maple</td><td>Medium</td><td>< 5 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	< 5 feet	Sapling	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub	Black/Red (Hybrid) Oak	Medium	< 5 feet	Tall Shrub	Red Maple	Medium	< 5 feet	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Bigtooth Aspen	40	Sapling	1	7																																																																			
Black/Red (Hybrid) Oak	20	Sapling	1																																																																				
Red Maple	20	Sapling	1																																																																				
Black Cherry	15	Sapling	1																																																																				
Beech	5	Sapling	1																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Black Cherry	Low	< 5 feet	Sapling																																																																				
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub																																																																				
Black/Red (Hybrid) Oak	Medium	< 5 feet	Tall Shrub																																																																				
Red Maple	Medium	< 5 feet	Sapling																																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
10	4131 - Aspen, Oak	Poletimber Well	96.4	36	81-110	N/A	Aspen with some intermixed oak pockets. Large diameter oak was left (20-60 BA) in the East Southeast portions of the stand. Sub-canopy oak stocking variable. Very brushy understory. Rolling terrain with a series of small ridges and valleys running north/south, most of the quaking aspen found in the small valleys/drainages. Better timber on the ridges.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		20	Pole/Sap/Log	6		Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		40	Pole	6	36	Black/Red (Hybrid) Oak		Low	Variable	Sapling	
White Oak		5	Pole/Sap/Log	5		White Oak		Medium	5 - 10 feet	Sapling	
Red Maple		15	Pole	5		White Pine		Trace	< 5 feet	Seeding	
Quaking Aspen		20	Pole	5	36	Black Cherry		Low	5 - 10 feet	Sapling	
						Witch Hazel		High	5 - 10 feet	Tall Shrub	
						Red Maple		Medium	10 - 20 feet	Sapling	
						Beech		Low	10 - 20 feet	Sapling	
11	4126 - White, Black, N. Pin Oak	Sawtimber Well	37.3	89	141-170	N/A		Nice oak ridge with intermixed aspen clones throughout. Far south portions are poorer quality oak (wolfy, open grown) then moves into better quality to the north. Better sub-canopy development of oak saps in the southern portion. Stand contains a good amount of crop trees of good form. Heavy use by wildlife. Some areas heavy to larger poles/small logs.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Bigtooth Aspen		15	Log/Pole	11	55	Serviceberry (Juneberry)			Medium	5 - 10 feet	Sapling
Red Pine		2	Log	13		White Oak			Low	Variable	Sapling
Red Maple		10	Pole	7		Red Maple			Low	Variable	Sapling
White Oak		20	Log/Pole	13		Black Cherry			Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		53	Log	12	89	Black/Red (Hybrid) Oak			Medium	5 - 10 feet	Sapling
						Hawthorn (spp.)			Low	< 5 feet	Tall Shrub
12	4131 - Aspen, Oak	Poletimber Well	59.8	28	1-50	N/A	Harvested in 1994. Overall site quality and oak stocking increases moving west. Clones of quaking aspen in the far east transitioning uphill to oak ridges with dense aspen intermixed. The majority of the oak in the canopy appears to be keeping up with the aspen but next entry will be able to tell if it outcompetes the aspen in places. Stand is just entering pole size.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		50	Pole/Sapling	6	28	Red Maple		Medium	10 - 20 feet	Sapling	
Black Cherry		8	Sapling/Pole	4		Serviceberry (Juneberry)		Low	5 - 10 feet	Tall Shrub	
Red Maple		10	Pole/Sapling	5		Black/Red (Hybrid) Oak		Low	Variable	Sapling	
White Oak		7	Sapling/Pole	4		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Black/Red (Hybrid) Oak		20	Pole	5		White Oak		Medium	10 - 20 feet	Sapling	
Quaking Aspen		5	Sapling/Pole	3		Black Cherry		Medium	5 - 10 feet	Sapling	
13	3301 - Low Density Deciduous Trees	Nonstocked	26.1		Unspecified	No	Upland brush, low-density tree stand with scattered cherry brush, wildlife shrubs and occasional oak and aspen. Some areas are mostly barren with heavy ORV use as well as it being used as firing point 122 by the Military. Scattered old plow lines traverse the stand.				
Sub-Canopy Species		Density	Avg. Height	Size							
Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub							
Northern Pin Oak		Medium	Variable	Sapling							
Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub							
Black Cherry		Medium	5 - 10 feet	Tall Shrub							
Quaking Aspen		Medium	10 - 20 feet	Sapling							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
14	6225 - Bog	Nonstocked	3.1		Unspecified	No	Lowland inclusion of tag alder, blueberry, leatherleaf and some sedge mats.		
		Sub-Canopy Species	Density	Avg. Height	Size				
		Leatherleaf	Medium	< 5 feet	Tall Shrub				
		Jack Pine	Low	10 - 20 feet	Sapling				
		Tag Alder	Low	5 - 10 feet	Tall Shrub				
		Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub				
15	4126 - White, Black, N. Pin Oak	Poletimber Well	53.9	76	111-140	N/A	Small log/large pole oak stand that falls within the military fence. Aspen in the northern portions as well as the small two islands that are outside the fence are of poorer quality and contain a broken canopy with a thick understory. Moving south gives way to better quality aspen stems and nice single stem white and black oak. Appears to be the parent stand to the harvest to the east (stand 19). There are some XLog Oak found in the far northern portions near stand 13. Northern part of stand contains Military gate #7.		
		Canopy Species	% Cover	Size Class	DBH	Age			
		Black/Red (Hybrid) Oak	52	Log/Pole/XLog	10	76			
		White Oak	20	Log/Pole	10				
		Bigtooth Aspen	15	Pole/Log	9				
		Red Maple	8	Pole	7				
		Paper Birch	5	Sapling/Pole	3				
		Sub-Canopy Species	Density	Avg. Height	Size				
		White Oak	Low	10 - 20 feet	Sapling				
		Black/Red (Hybrid) Oak	Low	Variable	Sapling				
		White Pine	Trace	10 - 20 feet	Sapling				
		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub				
		Red Maple	Medium	Variable	Sapling				
		Black Cherry	Medium	5 - 10 feet	Sapling				
17	4131 - Aspen, Oak	Sapling Well	102.1	7	Immature	N/A	Stand harvested in Fall of 2015 under contract 52-618-14 Close Call Mix. Very good oak regen in pockets especially in the far west and east portions. On some of the better ground aspen and red maple dominate. Oak is present throughout, but either the aspen has overtaken it in the canopy position or the deer have browsed the oak back down. Good vigorous sprouting on the oak stumps. Heavy porcupine damage on oak saplings as well as the scattered supercanopy oaks that were left. Some rolling terrain in the central portion.		
		Canopy Species	% Cover	Size Class	DBH	Age			
		Quaking Aspen	5	Sapling	1				
		Northern Pin Oak	30	Sapling	1				
		Red Maple	15	Sapling	1				
		White Oak	8	Sapling/Pole/Log	3				
		Bigtooth Aspen	40	Sapling	1	7			
		Black Cherry	2	Sapling	1				
		Sub-Canopy Species	Density	Avg. Height	Size				
		White Oak	Medium	< 5 feet	Sapling				
		Black Cherry	Medium	5 - 10 feet	Sapling				
		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub				
		Red Maple	Medium	< 5 feet	Sapling				
		Northern Pin Oak	Medium	< 5 feet	Tall Shrub				
		Witch Hazel	Low	5 - 10 feet	Tall Shrub				
18	6224 - Treed Bog	Nonstocked	2.6		Unspecified	No	Small blueberry/leatherleaf bog with scattered black spruce. Edges are mostly jack pine with some tag alder and quaking aspen saplings. Nice stand for habitat and structural diversity.		
		Sub-Canopy Species	Density	Avg. Height	Size				
		Tag Alder	Low	5 - 10 feet	Tall Shrub				
		Leatherleaf	High	< 5 feet	Tall Shrub				
		Jack Pine	Low	10 - 20 feet	Pole				
		Sedges	Low	5 - 10 feet	Non-Wood				
		Quaking Aspen	Low	5 - 10 feet	Sapling				
		Black Spruce	Medium	Variable	Pole				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
19	4199 - Other Mixed Upland Deciduous	Sapling Medium	47.0	7	Immature	N/A	Stand final harvested 11/15 as part of Razorwire Mix (52-617-14-01). Majority of stand falls within the small military fence. Far east portions are outside the fence and contain more of the quaking aspen component. Quality of oak seems to increase moving west but overall is closer to Black/Pin rather than true Red. Heavy deer browse present. Scattered mixed oak logs were left from the harvest. Noticeable white oak establishment under canopies of residual oak.																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>16</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Oak</td> <td>7</td> <td>Sapling/Pole/Log</td> <td>2</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Northern Pin Oak</td> <td>30</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>32</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	16	Sapling	1		Quaking Aspen	5	Sapling	1		White Oak	7	Sapling/Pole/Log	2		Black Cherry	10	Sapling	1		Northern Pin Oak	30	Sapling	1	7	Bigtooth Aspen	32	Sapling	1	7	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Hawthorn (ssp.)</td> <td>Trace</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	< 5 feet	Sapling	Hawthorn (ssp.)	Trace	< 5 feet	Tall Shrub	White Oak	Low	< 5 feet	Seeding	Northern Pin Oak	Medium	< 5 feet	Sapling	Red Maple	Medium	< 5 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Maple	16	Sapling	1																																																												
Quaking Aspen	5	Sapling	1																																																												
White Oak	7	Sapling/Pole/Log	2																																																												
Black Cherry	10	Sapling	1																																																												
Northern Pin Oak	30	Sapling	1	7																																																											
Bigtooth Aspen	32	Sapling	1	7																																																											
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Black Cherry	Low	< 5 feet	Sapling																																																												
Hawthorn (ssp.)	Trace	< 5 feet	Tall Shrub																																																												
White Oak	Low	< 5 feet	Seeding																																																												
Northern Pin Oak	Medium	< 5 feet	Sapling																																																												
Red Maple	Medium	< 5 feet	Sapling																																																												
20	4125 - Black, N. Pin Oak	Sawtimber Well	93.8	92	81-110	N/A	Site quality increases moving east. Lower quality pin oak transitions more into better quality black oak. Significant decline in the pin/black oak in the west. Mortality seems to start being noticeable from the 2014 imagery and seems to have expanded from a possible campsite or firewood cutting site. Does appear that part of the stand was set up with the cut to the north but never was harvested. Most of the oak regeneration is in the west under the dying oak.																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>15</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>62</td> <td>Log</td> <td>12</td> <td>92</td> </tr> <tr> <td>White Oak</td> <td>13</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	15	Log/Pole	10		Black/Red (Hybrid) Oak	62	Log	12	92	White Oak	13	Log	12		Red Maple	10	Sapling/Pole	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	Sapling	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling	White Oak	Low	Variable	Sapling	Black Cherry	Low	5 - 10 feet	Sapling	Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub										
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Bigtooth Aspen	15	Log/Pole	10																																																												
Black/Red (Hybrid) Oak	62	Log	12	92																																																											
White Oak	13	Log	12																																																												
Red Maple	10	Sapling/Pole	3																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Red Maple	Medium	10 - 20 feet	Sapling																																																												
Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling																																																												
White Oak	Low	Variable	Sapling																																																												
Black Cherry	Low	5 - 10 feet	Sapling																																																												
Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub																																																												
21	3301 - Low Density Deciduous Trees	Nonstocked	6.4		Unspecified	No	Scattered xlog Oak with intermixed cherry brush, oak saps and service berry. Oak is currently more beneficial to wildlife and habitat as the trees are extremely open grown and wolfy.																																																								
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>Variable</td> <td>Pole</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Medium</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>>20 feet</td> <td>Log</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen		Low	Variable	Pole	Black Cherry	Medium	5 - 10 feet	Tall Shrub	Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub	Jack Pine	Low	10 - 20 feet	Sapling	Northern Pin Oak	High	5 - 10 feet	Sapling	Northern Pin Oak	Medium	>20 feet	Log	Red Pine	Trace	>20 feet	Log																													
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Quaking Aspen	Low	Variable	Pole																																																												
Black Cherry	Medium	5 - 10 feet	Tall Shrub																																																												
Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub																																																												
Jack Pine	Low	10 - 20 feet	Sapling																																																												
Northern Pin Oak	High	5 - 10 feet	Sapling																																																												
Northern Pin Oak	Medium	>20 feet	Log																																																												
Red Pine	Trace	>20 feet	Log																																																												
22	6239 - Mixed Emergent Wetland	Nonstocked	2.2	0	Unspecified	No	Small lowland inclusion. Inventory done with snow on conditions but appears that there is open in water in portions.																																																								
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Leatherleaf</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Blueberry/Bilberry/Cranberry</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Leatherleaf		Medium	< 5 feet	Tall Shrub	Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub	Tag Alder	Low	5 - 10 feet	Tall Shrub																																													
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Leatherleaf	Medium	< 5 feet	Tall Shrub																																																												
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub																																																												
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																												
23	4125 - Black, N. Pin Oak	Sawtimber Well	16.9	90	51-80	N/A	Variable stand. Portions between stand 30 and 32 contain a scrubby oak understory with scattered aspen clones and some mixed overstory pine and oak. Central portions are a true oak stand with a clean sub-canopy. This area is used heavily by campers, day-use and other rec users. Firewood cutting present as well. NE half drops down into a lower O7 appearance with significant oak regen. Small lowland inclusion along edge of stand 17.																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>7</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>58</td> <td>Log/Pole/XLog</td> <td>13</td> <td>90</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	7	Pole/Log	8		Black/Red (Hybrid) Oak	58	Log/Pole/XLog	13	90	Red Maple	10	Pole/Log	8		White Oak	15	Log/Pole	11		Bigtooth Aspen	10	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Serviceberry (Juneberry)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub	Black/Red (Hybrid) Oak	High	10 - 20 feet	Sapling	Red Pine	Low	< 5 feet	Sapling	White Oak	Medium	10 - 20 feet	Sapling	Red Maple	Medium	10 - 20 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Pine	7	Pole/Log	8																																																												
Black/Red (Hybrid) Oak	58	Log/Pole/XLog	13	90																																																											
Red Maple	10	Pole/Log	8																																																												
White Oak	15	Log/Pole	11																																																												
Bigtooth Aspen	10	Log/Pole	10																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub																																																												
Black/Red (Hybrid) Oak	High	10 - 20 feet	Sapling																																																												
Red Pine	Low	< 5 feet	Sapling																																																												
White Oak	Medium	10 - 20 feet	Sapling																																																												
Red Maple	Medium	10 - 20 feet	Sapling																																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
24	4131 - Aspen, Oak	Sapling Well	47.8	6	Immature	N/A	Final harvested 10/15 as part of Razorwire Mix (52-617-14-01). Fairly consistent throughout with a heavier oak component moving west. Some scattered log large canopy Pin Oaks with a minor component of Red/White Pine that was left. Smaller depression/drainage in areas near stand 32. This area has aspen regen throughout but has a presence of tag alder and Nannyberry.																																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>5</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>White Pine</td><td>2</td><td>Pole/Log</td><td>10</td><td></td></tr> <tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>2</td><td></td></tr> <tr><td>Northern Pin Oak</td><td>15</td><td>Sapling/Pole/Log</td><td>2</td><td></td></tr> <tr><td>White Oak</td><td>5</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>Quaking Aspen</td><td>50</td><td>Sapling</td><td>2</td><td>6</td></tr> <tr><td>Red Pine</td><td>3</td><td>Log/Pole</td><td>10</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Black Cherry	10	Sapling	1		Bigtooth Aspen	5	Sapling	2		White Pine	2	Pole/Log	10		Red Maple	10	Sapling	2		Northern Pin Oak	15	Sapling/Pole/Log	2		White Oak	5	Sapling/Pole	3		Quaking Aspen	50	Sapling	2	6	Red Pine	3	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Jack Pine</td><td>Low</td><td>< 5 feet</td><td>Seeding</td></tr> <tr><td>Northern Pin Oak</td><td>Medium</td><td>< 5 feet</td><td>Tall Shrub</td></tr> <tr><td>Black Cherry</td><td>Medium</td><td>< 5 feet</td><td>Tall Shrub</td></tr> <tr><td>Hawthorn (spp.)</td><td>Low</td><td>< 5 feet</td><td>Tall Shrub</td></tr> <tr><td>Serviceberry (Juneberry)</td><td>Low</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Quaking Aspen</td><td>Low</td><td>< 5 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low	< 5 feet	Seeding	Northern Pin Oak	Medium	< 5 feet	Tall Shrub	Black Cherry	Medium	< 5 feet	Tall Shrub	Hawthorn (spp.)	Low	< 5 feet	Tall Shrub	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub	Quaking Aspen	Low	< 5 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																																									
Black Cherry	10	Sapling	1																																																																										
Bigtooth Aspen	5	Sapling	2																																																																										
White Pine	2	Pole/Log	10																																																																										
Red Maple	10	Sapling	2																																																																										
Northern Pin Oak	15	Sapling/Pole/Log	2																																																																										
White Oak	5	Sapling/Pole	3																																																																										
Quaking Aspen	50	Sapling	2	6																																																																									
Red Pine	3	Log/Pole	10																																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																																										
Jack Pine	Low	< 5 feet	Seeding																																																																										
Northern Pin Oak	Medium	< 5 feet	Tall Shrub																																																																										
Black Cherry	Medium	< 5 feet	Tall Shrub																																																																										
Hawthorn (spp.)	Low	< 5 feet	Tall Shrub																																																																										
Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub																																																																										
Quaking Aspen	Low	< 5 feet	Sapling																																																																										
25	4131 - Aspen, Oak	Sapling Well	74.4	25	1-50	N/A	Stand harvested in 1997. Overall lower terrain and quality than stand 46 to the west. Small wet holes present throughout. Rolling topography with some higher quality ridges with larger diameter bigtooth. Majority of the stand falls within the small military fence except portions to the far south around stand 22. Some larger quaking, oak and red pine are found in the SE corner of the stand.																																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Bigtooth Aspen</td><td>15</td><td>Sapling/Pole</td><td>4</td><td></td></tr> <tr><td>Red Maple</td><td>10</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>20</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>White Oak</td><td>20</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>Quaking Aspen</td><td>35</td><td>Sapling/Pole</td><td>4</td><td>25</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	15	Sapling/Pole	4		Red Maple	10	Sapling/Pole	3		Black/Red (Hybrid) Oak	20	Sapling/Pole	3		White Oak	20	Sapling/Pole	3		Quaking Aspen	35	Sapling/Pole	4	25	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black Cherry</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Trace</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>White Oak</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Serviceberry (Juneberry)</td><td>Low</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Red Maple</td><td>High</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Red Pine</td><td>Trace</td><td>10 - 20 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	5 - 10 feet	Sapling	White Pine	Trace	10 - 20 feet	Sapling	Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling	White Oak	Low	5 - 10 feet	Sapling	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub	Red Maple	High	10 - 20 feet	Sapling	Red Pine	Trace	10 - 20 feet	Sapling											
Canopy Species	% Cover	Size Class	DBH	Age																																																																									
Bigtooth Aspen	15	Sapling/Pole	4																																																																										
Red Maple	10	Sapling/Pole	3																																																																										
Black/Red (Hybrid) Oak	20	Sapling/Pole	3																																																																										
White Oak	20	Sapling/Pole	3																																																																										
Quaking Aspen	35	Sapling/Pole	4	25																																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																																										
Black Cherry	Medium	5 - 10 feet	Sapling																																																																										
White Pine	Trace	10 - 20 feet	Sapling																																																																										
Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling																																																																										
White Oak	Low	5 - 10 feet	Sapling																																																																										
Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub																																																																										
Red Maple	High	10 - 20 feet	Sapling																																																																										
Red Pine	Trace	10 - 20 feet	Sapling																																																																										
26	4126 - White, Black, N. Pin Oak	Poletimber Well	21.4	77	111-140	N/A	Thinned in 1997 removing all the aspen and red maple. Very clean sub-canopy. Stand is essentially ridges and valleys with nicer oak on the southern facing slopes and the ridges. The valleys appear to have more of the red maple regeneration. BA's are variable with some reaching 180 and the lowest at 70. Avg height on the oak is 35-40 ft tall. Some single tree Oak decline present but appears to be in the intermediate canopy class possibly from competition.																																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>White Oak</td><td>25</td><td>Pole/Log</td><td>8</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>2</td><td>Pole</td><td>5</td><td></td></tr> <tr><td>Red Maple</td><td>3</td><td>Pole</td><td>5</td><td></td></tr> <tr><td>Paper Birch</td><td>2</td><td>Pole</td><td>5</td><td></td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>68</td><td>Log/Pole</td><td>10</td><td>77</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Oak	25	Pole/Log	8		Bigtooth Aspen	2	Pole	5		Red Maple	3	Pole	5		Paper Birch	2	Pole	5		Black/Red (Hybrid) Oak	68	Log/Pole	10	77	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Black/Red (Hybrid) Oak</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Oak</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Witch Hazel</td><td>Low</td><td>5 - 10 feet</td><td>Tall Shrub</td></tr> <tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	Low	Variable	Sapling	White Oak	Low	Variable	Sapling	Witch Hazel	Low	5 - 10 feet	Tall Shrub	Red Maple	Medium	10 - 20 feet	Sapling																							
Canopy Species	% Cover	Size Class	DBH	Age																																																																									
White Oak	25	Pole/Log	8																																																																										
Bigtooth Aspen	2	Pole	5																																																																										
Red Maple	3	Pole	5																																																																										
Paper Birch	2	Pole	5																																																																										
Black/Red (Hybrid) Oak	68	Log/Pole	10	77																																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																																										
Black/Red (Hybrid) Oak	Low	Variable	Sapling																																																																										
White Oak	Low	Variable	Sapling																																																																										
Witch Hazel	Low	5 - 10 feet	Tall Shrub																																																																										
Red Maple	Medium	10 - 20 feet	Sapling																																																																										
27	4126 - White, Black, N. Pin Oak	Sawtimber Well	14.5	85	81-110	N/A	Mixed Oak stand with some aspen. Some aspen beginning to fall apart. South half of the stand lies within the tall military fence. Oak is healthy.																																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>5</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>White Oak</td><td>40</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>15</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>40</td><td>Log/Pole</td><td>12</td><td>85</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Pole/Log	9		White Oak	40	Log/Pole	10		Bigtooth Aspen	15	Log/Pole	10		Black/Red (Hybrid) Oak	40	Log/Pole	12	85	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>Sapling</td></tr> <tr><td>Black/Red (Hybrid) Oak</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Oak</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> <tr><td>Black Cherry</td><td>Low</td><td>5 - 10 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	Sapling	Black/Red (Hybrid) Oak	Medium	Variable	Sapling	White Oak	Low	5 - 10 feet	Sapling	Black Cherry	Low	5 - 10 feet	Sapling																												
Canopy Species	% Cover	Size Class	DBH	Age																																																																									
Red Maple	5	Pole/Log	9																																																																										
White Oak	40	Log/Pole	10																																																																										
Bigtooth Aspen	15	Log/Pole	10																																																																										
Black/Red (Hybrid) Oak	40	Log/Pole	12	85																																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																																										
Red Maple	Medium	10 - 20 feet	Sapling																																																																										
Black/Red (Hybrid) Oak	Medium	Variable	Sapling																																																																										
White Oak	Low	5 - 10 feet	Sapling																																																																										
Black Cherry	Low	5 - 10 feet	Sapling																																																																										
28	310 - Herbaceous Openland	Nonstocked	33.0		Unspecified	No	Military Firing point 107. Scattered vegetation. Heavy vehicle traffic throughout.																																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
29	4310 - Pine, Oak Mix	Sawtimber Poor	4.7	85	51-80	N/A	Stand surrounds Sand Lake and contains non-designated campsites as well as a small natural boat launch for the lake.																																																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>45</td> <td>Log/Pole/XLog</td> <td>15</td> <td>85</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Log</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>White Oak</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>35</td> <td>Log/Pole/XLog</td> <td>15</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	45	Log/Pole/XLog	15	85	Bigtooth Aspen	5	Log	10		White Pine	5	Log/Pole	12		Red Maple	5	Log/Pole	14		White Oak	5	Pole/Log	9		Black/Red (Hybrid) Oak	35	Log/Pole/XLog	15		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Low	5 - 10 feet	Sapling	Bigtooth Aspen	Low	10 - 20 feet	Sapling	Black/Red (Hybrid) Oak	Medium	Variable	Sapling																					
Canopy Species	% Cover	Size Class	DBH	Age																																																																							
Red Pine	45	Log/Pole/XLog	15	85																																																																							
Bigtooth Aspen	5	Log	10																																																																								
White Pine	5	Log/Pole	12																																																																								
Red Maple	5	Log/Pole	14																																																																								
White Oak	5	Pole/Log	9																																																																								
Black/Red (Hybrid) Oak	35	Log/Pole/XLog	15																																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																																								
Red Pine	Low	5 - 10 feet	Sapling																																																																								
Bigtooth Aspen	Low	10 - 20 feet	Sapling																																																																								
Black/Red (Hybrid) Oak	Medium	Variable	Sapling																																																																								
30	6229 - Mixed lowland shrub	Nonstocked	1.7		Unspecified	No	Lowland shrub dominated by tag alder and sedge.																																																																				
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Nannyberry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> <tr> <td>Tag Alder</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Nannyberry	Low	5 - 10 feet	Tall Shrub	Quaking Aspen	Low	>20 feet	Pole	Tag Alder	High	5 - 10 feet	Tall Shrub																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																																								
Nannyberry	Low	5 - 10 feet	Tall Shrub																																																																								
Quaking Aspen	Low	>20 feet	Pole																																																																								
Tag Alder	High	5 - 10 feet	Tall Shrub																																																																								
31	6225 - Bog	Nonstocked	3.0		Unspecified	No	Blueberry, Leatherleaf bog. Some tag and sedge mats present.																																																																				
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Blueberry/Bilberry/Cranberry</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Sedges</td> <td>Medium</td> <td>Unspecified</td> <td>Non-Wood</td> </tr> <tr> <td>Leatherleaf</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub	Sedges	Medium	Unspecified	Non-Wood	Leatherleaf	High	< 5 feet	Tall Shrub	Tag Alder	Low	5 - 10 feet	Tall Shrub																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																								
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub																																																																								
Sedges	Medium	Unspecified	Non-Wood																																																																								
Leatherleaf	High	< 5 feet	Tall Shrub																																																																								
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																																								
32	500 - Water	Nonstocked	7.8		Unspecified	No	Sand Lake.																																																																				
33	4199 - Other Mixed Upland Deciduous	Poletimber Well	8.1	35	51-80	N/A	Mixed stand with some areas treated in 1994 along with stand 34. Seems to have a multi-aged appearance with large supercanopy oak and pine in the west and southwest, with a consistent 35-28 y.o old canopy of mixed pine and deciduous poles with a younger sub-canopy developing with mixed pine and oak. Relic pine are present; flat topped, fire scarred, rigid bark in the west ~110-120 y.o . Bigtooth in west and central moving to scattered quaking in the east.																																																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Pole</td> <td>6</td> <td>35</td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>15</td> <td>Log/Pole/Sap</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Sapling/Pole/Log</td> <td>4</td> <td>35</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole	6	35	White Oak	15	Pole/Log	9		Quaking Aspen	15	Pole	7		Bigtooth Aspen	20	Pole	7		Red Pine	5	Log/Pole/XLog	14		Black/Red (Hybrid) Oak	15	Log/Pole/Sap	12		White Pine	10	Sapling/Pole/Log	4	35	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	Sapling	Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling	Red Pine	Medium	Variable	Sapling	Black Cherry	Low	5 - 10 feet	Sapling	White Pine	Medium	5 - 10 feet	Sapling	White Oak	Low	10 - 20 feet	Sapling	Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																																							
Red Maple	20	Pole	6	35																																																																							
White Oak	15	Pole/Log	9																																																																								
Quaking Aspen	15	Pole	7																																																																								
Bigtooth Aspen	20	Pole	7																																																																								
Red Pine	5	Log/Pole/XLog	14																																																																								
Black/Red (Hybrid) Oak	15	Log/Pole/Sap	12																																																																								
White Pine	10	Sapling/Pole/Log	4	35																																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																																								
Red Maple	Medium	10 - 20 feet	Sapling																																																																								
Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling																																																																								
Red Pine	Medium	Variable	Sapling																																																																								
Black Cherry	Low	5 - 10 feet	Sapling																																																																								
White Pine	Medium	5 - 10 feet	Sapling																																																																								
White Oak	Low	10 - 20 feet	Sapling																																																																								
Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
34	4131 - Aspen, Oak	Sapling Well	22.9	28	1-50	N/A	Stand harvested in 1994. Rolling terrain with a valley running north/south in the middle where the two -track is. From here quality increases moving towards the east and west portions. Quaking aspen, and more oak, cherry brush are in the central and better bigtooth and oak in the west and east. White oak is present but appears that it wasn't able to establish very well in the canopy. Currently, it's mostly within the intermediate to sub-canopy class.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		6	Pole/Sapling	5		Red Pine		Low	10 - 20 feet	Sapling
Black Cherry		4	Sapling	3		Red Maple		Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		25	Sapling/Pole	3		Black Cherry		Low	5 - 10 feet	Sapling
White Oak		5	Sapling/Pole	2		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub
Quaking Aspen		20	Sapling/Pole	3	28	White Pine		Low	5 - 10 feet	Sapling
Bigtooth Aspen		30	Sapling/Pole	4	28	White Oak		Medium	Variable	Sapling
Red Maple		10	Sapling/Pole	3						
35	4125 - Black, N. Pin Oak	Sawtimber Well	38.1	76	111-140	N/A		Nice mixed oak stand. Overall rolling terrain with some valleys and ridges. Overall a west facing aspect. Oak diameters are somewhat variable but overall diameters increasing moving north. Scattered aspen clones throughout that are doing ok. Some single tree oak mortality noted.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Oak		15	Log/Pole	11		Black/Red (Hybrid) Oak	Medium		Variable	Sapling
Bigtooth Aspen		15	Log/Pole	10		White Oak	Medium		5 - 10 feet	Sapling
Red Maple		5	Pole/Log	8		Red Pine	Trace		< 5 feet	Sapling
Black/Red (Hybrid) Oak		65	Log/Pole	10	76	White Pine	Low		5 - 10 feet	Sapling
						Witch Hazel	Medium		5 - 10 feet	Tall Shrub
36	4125 - Black, N. Pin Oak	Poletimber Well	20.0	46	111-140	N/A	East facing slope. Very nice pole, small log Oak stand. Good mixed oak poles in the intermediate class as well. Areas in the south are more operable with some more gradual slopes with steeper slopes moving north. Could TSI the southern portion to help thin out and put some volume on the residual stems. Higher aspen component moving north.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole/Sapling	6		Witch Hazel		Medium	5 - 10 feet	Tall Shrub
Red Maple		5	Pole	6		Black/Red (Hybrid) Oak		Low	5 - 10 feet	Sapling
White Oak		15	Log/Pole	10		Bigtooth Aspen		Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		50	Pole/Log	8	46	White Oak		Low	Variable	Sapling
Bigtooth Aspen		25	Pole/Log	8	46					
37	4131 - Aspen, Oak	Sapling Well	124.5	12	Immature	N/A	Harvest complete in 2010 under contract 52-601-08 Panicula Aspen. Sale was originally set up in 2004 and then resold in 2008. Large stand dominated by quaking with small clones of bigtooth. Better aspen stocking in SW near Sand Lake with lesser stocked areas dominated with shrubby Oak regen and cherry brush. Scattered Red Pine left from previous harvest range from small poles to large logs. Scattered overstory oak left as well.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		55	Sapling/Pole	2	12	Northern Pin Oak		Medium	< 5 feet	Tall Shrub
Red Pine		5	Log/Pole/Sap	10		Red Pine		Low	< 5 feet	Seeding
Bigtooth Aspen		5	Sapling/Pole	3		Black Cherry		Medium	Variable	Sapling
Red Maple		10	Sapling	2		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub
White Pine		1	Log/Pole	12		Jack Pine		Low	< 5 feet	Seeding
White Oak		4	Sapling/Pole	4						
Northern Pin Oak		20	Sapling/Pole/Log	2						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
38	4131 - Aspen, Oak	Sawtimber Medium	74.7	76	81-110	N/A	Somewhat variable Multi-polygon stand. Merged together due to similar management considerations and overall stocking and composition. Codes out to an Aspen but overall has a significant Oak/MD appearance. Bigtooth is dominant in the northern polygons with quaking scattered throughout. Oak overall is doing well with pockets of decline. No history of treatment in these areas. Most open areas within the stand canopy is dominated by soft mast producing species. A8/A5, O7				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		15	Log/Pole	10		Black Cherry		Medium	10 - 20 feet	Sapling	
Northern Pin Oak		20	Log/XLog/Pole	13		Serviceberry (Juneberry)		Medium	5 - 10 feet	Tall Shrub	
Quaking Aspen		27	Pole	7	44	Northern Pin Oak		Medium	Variable	Sapling	
Bigtooth Aspen		28	Log/XLog	15	76	White Oak		Trace	5 - 10 feet	Sapling	
White Oak		10	Pole/Log	9		Hawthorn (spp.)		High	< 5 feet	Tall Shrub	
39	330 - Low-Density Trees	Nonstocked	215.8		Unspecified	No	Large variable low density trees/upland brush stand. Overall dominated by cherry and service berry with pockets of merchantable Oak, red maple and aspen. Unique travel corridor/habitat structure for wildlife in the northern half due to the variable stocking and species composition of soft and hard mast species. Transitions out of a low density tree stand and into an upland brush type moving south. Contains Firing Point 108 in SE corner.				
Sub-Canopy Species		Density	Avg. Height	Size							
Northern Pin Oak		Medium	>20 feet	Log							
Quaking Aspen		Low	>20 feet	Pole							
Red Maple		Medium	>20 feet	Log							
Hawthorn (spp.)		High	Variable	Tall Shrub							
White Oak		Low	Variable	Sapling							
Northern Pin Oak		Medium	Variable	Sapling							
White Pine		Trace	< 5 feet	Sapling							
Serviceberry (Juneberry)		High	5 - 10 feet	Sapling							
Red Pine		Trace	< 5 feet	Sapling							
Jack Pine		Low	5 - 10 feet	Sapling							
Black Cherry		High	5 - 10 feet	Sapling							
40	3105 - Mixed Upland Herbaceous	Nonstocked	6.3		Unspecified	No	Brushy opening. Mostly scrubby cherry brush.				
Sub-Canopy Species		Density	Avg. Height	Size							
Black Cherry		Medium	5 - 10 feet	Tall Shrub							
Hawthorn (spp.)		Medium	< 5 feet	Tall Shrub							
Red Maple		Low	5 - 10 feet	Sapling							
41	4125 - Black, N. Pin Oak	Sapling Well	18.8	28	1-50	N/A	Harvested in 1994. This stand is essentially an Oak ridge that extends from the pole size stand to the north. Overall height is 20-30 feet. White Oak is mostly in the co-dominant to intermediate class with the black/red oak being dominant. Nice established white oak sub-canopy. Areas of aspen have significantly higher sub-canopy development, the majority of the sub-canopy under the established oak is very clean.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Sapling	2		Black Cherry		Low	< 5 feet	Sapling	
Black/Red (Hybrid) Oak		50	Sapling/Pole	4	28	Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling	
White Oak		15	Sapling/Pole	3		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		20	Sapling/Pole	4	28	Red Maple		Low	10 - 20 feet	Sapling	
Beech		5	Sapling/Pole	2		White Oak		Medium	5 - 10 feet	Sapling	
Black Cherry		5	Sapling/Pole	3							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
42	4131 - Aspen, Oak	Sapling Well	15.3	7	Immature	N/A	Stand final harvested 10/15 as part of Razorwire Mix Sale (52-617-14-01). Retention left in the SE corner around mature white pine and mixed oak. Original objective for stand was Oak. Stand will ultimately become aspen with mixed oak. There are scattered pole/log white oak scattered. Heavy slash in areas. Browse significant on stems under 6'. Oak seems to be establishing well on edges.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Oak</td> <td>10</td> <td>Sapling/Pole/Log</td> <td>2</td> <td></td> </tr> <tr> <td>Northern Pin Oak</td> <td>15</td> <td>Sapling/Pole/Log</td> <td>2</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>40</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Red Maple</td> <td>30</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Pine</td> <td>1</td> <td>Sapling/Pole/Log</td> <td>2</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>4</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Oak	10	Sapling/Pole/Log	2		Northern Pin Oak	15	Sapling/Pole/Log	2		Quaking Aspen	40	Sapling	1	7	Red Maple	30	Sapling	1		White Pine	1	Sapling/Pole/Log	2		Black Cherry	4	Sapling	1		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Witch Hazel</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Witch Hazel	Low	< 5 feet	Tall Shrub	Northern Pin Oak	Medium	< 5 feet	Sapling	White Pine	Low	< 5 feet	Seeding	White Oak	Low	< 5 feet	Seeding		
Canopy Species	% Cover	Size Class	DBH	Age																																																									
White Oak	10	Sapling/Pole/Log	2																																																										
Northern Pin Oak	15	Sapling/Pole/Log	2																																																										
Quaking Aspen	40	Sapling	1	7																																																									
Red Maple	30	Sapling	1																																																										
White Pine	1	Sapling/Pole/Log	2																																																										
Black Cherry	4	Sapling	1																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Witch Hazel	Low	< 5 feet	Tall Shrub																																																										
Northern Pin Oak	Medium	< 5 feet	Sapling																																																										
White Pine	Low	< 5 feet	Seeding																																																										
White Oak	Low	< 5 feet	Seeding																																																										
43	4131 - Aspen, Oak	Sapling Well	16.3	6	Immature	N/A	Stand final harvested 10/15 as part of Razorwire Mix Sale (52-617-14-01). Stand was harvested leaving all Oak. The overstory oak that is present is in fair shape. Does appear that it is declining. Areas variable with some heavier to oak and some heavier to aspen. Overall regen looks good.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>45</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Red Maple</td> <td>7</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Northern Pin Oak</td> <td>30</td> <td>Sapling/Pole</td> <td>2</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Oak</td> <td>3</td> <td>Sapling/Pole</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	45	Sapling	1	6	Red Maple	7	Sapling	1		Northern Pin Oak	30	Sapling/Pole	2		Black Cherry	15	Sapling	1		White Oak	3	Sapling/Pole	2		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Serviceberry (Juneberry)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Hawthorn (spp.)</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Trace</td> <td>< 5 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub	Northern Pin Oak	Medium	< 5 feet	Sapling	Hawthorn (spp.)	High	< 5 feet	Tall Shrub	White Pine	Low	5 - 10 feet	Sapling	White Oak	Trace	< 5 feet	Seeding			
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Quaking Aspen	45	Sapling	1	6																																																									
Red Maple	7	Sapling	1																																																										
Northern Pin Oak	30	Sapling/Pole	2																																																										
Black Cherry	15	Sapling	1																																																										
White Oak	3	Sapling/Pole	2																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub																																																										
Northern Pin Oak	Medium	< 5 feet	Sapling																																																										
Hawthorn (spp.)	High	< 5 feet	Tall Shrub																																																										
White Pine	Low	5 - 10 feet	Sapling																																																										
White Oak	Trace	< 5 feet	Seeding																																																										
44	310 - Herbaceous Openland	Nonstocked	6.3		Unspecified	Managed Opening	Part of the NWTF Planted Openings. Firing point 105.																																																						
45	310 - Herbaceous Openland	Nonstocked	7.7		Unspecified	Managed Opening	Part of the NWTF Planted Openings. Firing point 106																																																						
46	4125 - Black, N. Pin Oak	Sapling Well	40.9	25	1-50	N/A	Originally merged with stand 25 to the east. This portion of the stand seems to have regenerated heavy to oak and was split into it's own stand for future management and mapping standards. Some aspen clones are intermixed but oak has established well into the canopy. White oak is somewhat 'behind' in areas. more of an intermediate class and co-dominant. Rolling topography.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>65</td> <td>Sapling/Pole</td> <td>4</td> <td>25</td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	5	Sapling/Pole	4		Bigtooth Aspen	15	Sapling/Pole	4		Black/Red (Hybrid) Oak	65	Sapling/Pole	4	25	White Oak	15	Sapling/Pole	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Witch Hazel</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Hawthorn (spp.)</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Smooth Sumac</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Witch Hazel	Low	5 - 10 feet	Tall Shrub	Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub	White Oak	Low	5 - 10 feet	Sapling	Black/Red (Hybrid) Oak	Medium	Variable	Sapling	Black Cherry	Low	5 - 10 feet	Sapling	Hawthorn (spp.)	Low	< 5 feet	Tall Shrub	Smooth Sumac	Trace	5 - 10 feet	Tall Shrub
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	5	Sapling/Pole	4																																																										
Bigtooth Aspen	15	Sapling/Pole	4																																																										
Black/Red (Hybrid) Oak	65	Sapling/Pole	4	25																																																									
White Oak	15	Sapling/Pole	3																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Witch Hazel	Low	5 - 10 feet	Tall Shrub																																																										
Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub																																																										
White Oak	Low	5 - 10 feet	Sapling																																																										
Black/Red (Hybrid) Oak	Medium	Variable	Sapling																																																										
Black Cherry	Low	5 - 10 feet	Sapling																																																										
Hawthorn (spp.)	Low	< 5 feet	Tall Shrub																																																										
Smooth Sumac	Trace	5 - 10 feet	Tall Shrub																																																										
47	330 - Low-Density Trees	Nonstocked	52.8		Unspecified	No	Low density tree opening. Contains mostly scrub cherry, oak, serviceberry. Scattered Larger Oaks and aspen. Small pockets of aspen clones.																																																						
<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Northern Pin Oak</td> <td>Low</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Hawthorn (spp.)</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine		Low	5 - 10 feet	Sapling	Northern Pin Oak	Medium	Variable	Sapling	Black Cherry	Medium	5 - 10 feet	Tall Shrub	Northern Pin Oak	Low	>20 feet	Log	Hawthorn (spp.)	Low	< 5 feet	Tall Shrub	Quaking Aspen	Low	5 - 10 feet	Sapling																															
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Jack Pine	Low	5 - 10 feet	Sapling																																																										
Northern Pin Oak	Medium	Variable	Sapling																																																										
Black Cherry	Medium	5 - 10 feet	Tall Shrub																																																										
Northern Pin Oak	Low	>20 feet	Log																																																										
Hawthorn (spp.)	Low	< 5 feet	Tall Shrub																																																										
Quaking Aspen	Low	5 - 10 feet	Sapling																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

48	3301 - Low Density Deciduous Trees	Nonstocked	25.8		Unspecified	No	Border of forested/non-forested stand. Heavy use by ORV users and military. Oaks within the stand are very open grown and wolfy. Scattered lowland inclusions with some leatherleaf/blueberry and quaking aspen clones. Firewood cutting is present within the stand. Stand also borders a larger firing point within the area so it does provide shade for military training operations.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Pine	Low	< 5 feet	Sapling
								Black Cherry	Medium	5 - 10 feet	Tall Shrub
								Quaking Aspen	Low	Variable	Pole
								Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
								Northern Pin Oak	Medium	>20 feet	Log
								White Oak	Low	>20 feet	Pole
Northern Pin Oak	Low	5 - 10 feet	Sapling								

49	330 - Low-Density Trees	Nonstocked	16.8	0	Unspecified	No	Upland brush, low density tree stand that is used for Military training. Firing point 108. Could split out areas of higher density trees to code as own stand. Some aspen encroachment from adjacent harvest.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Northern Pin Oak	Low	Variable	Sapling
								Jack Pine	Low	Variable	Sapling
								White Pine	Low	>20 feet	Pole
								Quaking Aspen	Low	5 - 10 feet	Sapling
								Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
								Hawthorn (spp.)	Low	< 5 feet	Tall Shrub
Black Cherry	Medium	5 - 10 feet	Tall Shrub								

50	4125 - Black, N. Pin Oak	Poletimber Well	5.2	45	81-110	N/A	Stand appears to have been harvested in 1977 removing all aspen, red maple and birch. This was broken out of the larger aspen block due to it being a good quality oak pole stand. Wanted to break stand out as well for next yoe to re-evaluate this particular area for different management opportunities.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Pole/Sapling	6	
								Black/Red (Hybrid) Oak	60	Pole	7	45
								White Oak	10	Pole/Sapling	6	
Bigtooth Aspen	20	Pole	7									

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub