



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32231

Entry Year 2021

Acreage: 1,294

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2019-07-25

Stand Examiner: Rick Hill

Legal Description:

T45N R28W Sec 8, 17, and 18

Identified Planning Goals:

Vegetative management in the Chain Lake management area (MA) will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses. Timber management objectives for the 10-year planning period include improving the age-class distribution of aspen, lowland conifer and lowland spruce/fir; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types. Wildlife management objectives include increasing diversity and long-term oak sustainability through under planting white and red pine; and to maintain or increase wildlife corridors especially along riparian areas. Management activities may be constrained by site conditions and the skewed age-class distributions. Balancing age classes and oak regeneration will be priority issues in this 10-year planning period.

Soil and topography:

This compartment is relatively flat to gently rolling and occurs within a larger sandy outwash plain. Soils are composed of mucks and sands. Depressions and drainages consist of Carbondale and Tawas mucks. Uplands are composed of Rubicon sands.

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

Ownership in the area is almost entirely state forest with some private non industrial land owners and two larger hunting clubs. Vary little development occurs in this area besides camps.

Unique Natural Features:

None known at this time

Archeological, Historical, and Cultural Features:

Abandoned railroad grades exist in this compartment and surrounding area from the pine logging era. Frenchy Lake was historically used for commercial ice production.

Special Management Designations or Considerations:

Flatrock creek and associated tributaries are trout streams that require buffers for management.

Watershed and Fisheries Considerations:

This compartment contains Frenchy Lake, Heart Lake, as well as Flat Rock Creek. Flat Rock Creek is designated a Type 1 trout stream less than 50' width and serves as a tributary to the West Branch of the Escanaba River. A 300' buffer is recommended for Flat Rock Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

For Frenchy Lake and Heart Lake: 100' plus 5' per 1% increase in slope; buffers are recommended to protect shoreline areas in accordance with Best Management Practices .

Wildlife Habitat Considerations:

Compartment 231 is found within the Chain Lakes Moraine Management Area; on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; course woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits do not exist in this area. There appears to be some sand & gravel potential within the compartment, but any development could be inhibited by wetlands. Abandoned iron mines are located more than six miles to away, and there has been little documented mineral exploration in the area. There has been past metallic mineral leasing activity within and around the compartment, but nothing within the past 30 years. There is no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

Access to this compartment is limited. The Flat Rock provides the primary access to the compartment. The rest of the compartment is accessed by forest access routes and private roads. Much of the compartment is only accessible by use of temporary bridges or culverts.

Survey Needs:

Any survey needs for timber sale work will be requested well before sale work begins.

Recreational Facilities and Opportunities:

There are no current recreational opportunities in this area beyond dispersed activities. There is little potential for future development.

Fire Protection:

The south west portion of this compartment is in the 581 South Ishpeming zone dispatch area. is accessible via the Flat Rock Road and can be worked by equipment. The rest of this compartment is outside of the zone boundaries. Access to the majority of this compartment by mechanical fire equipment is quite limited due to rivers and low marshy ground.

Additional Compartment Information:

The following reports from the Inventory are attached:

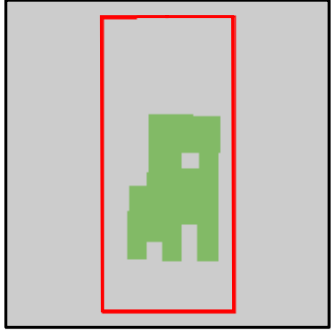
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

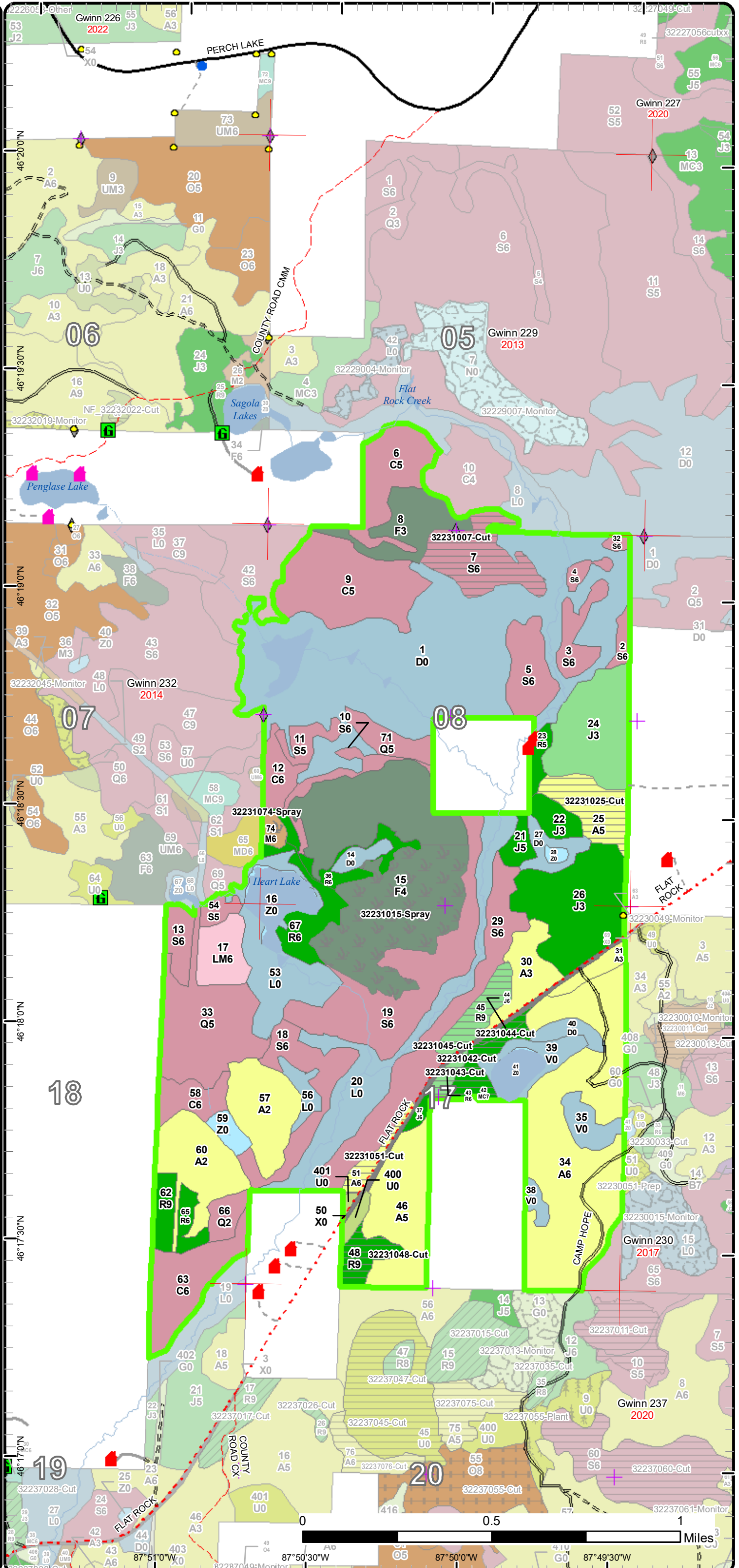
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 231
 T45N, R28W, Sec. 08, 17
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2021
 Acres: 1,294 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/5/2019
 Map Phase: Web-Post

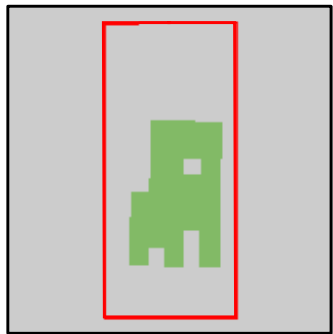


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Cabin
- Structure, Seasonal Dwelling
- G Gate
- Structures
- Tower
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- Lakes

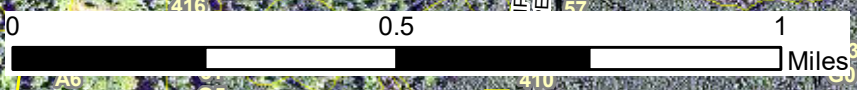
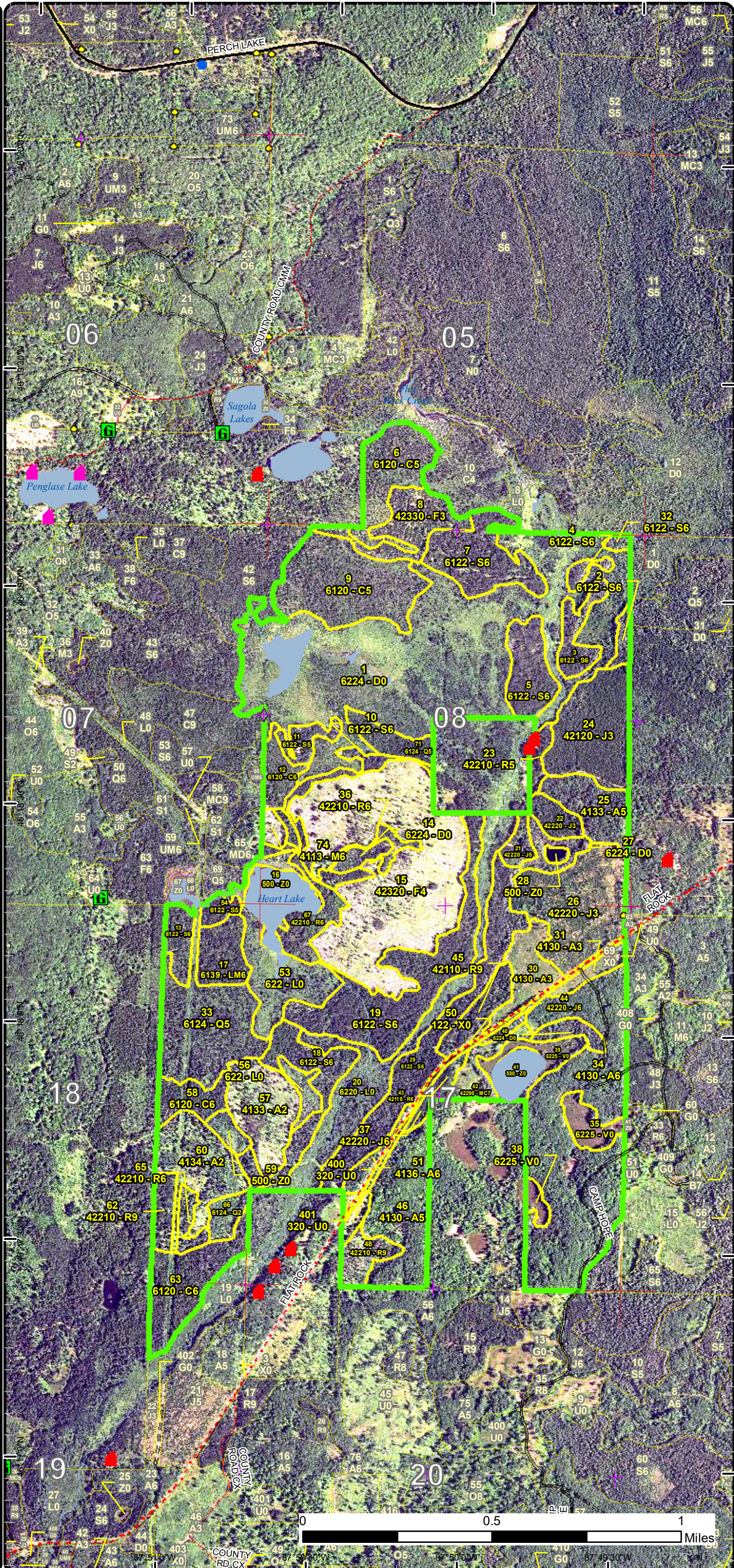


Stand Boundary Map

Compartment: 231
 T45N, R28W, Sec. 08, 17
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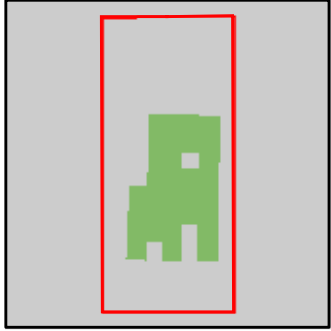


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- Survey Grade Corners
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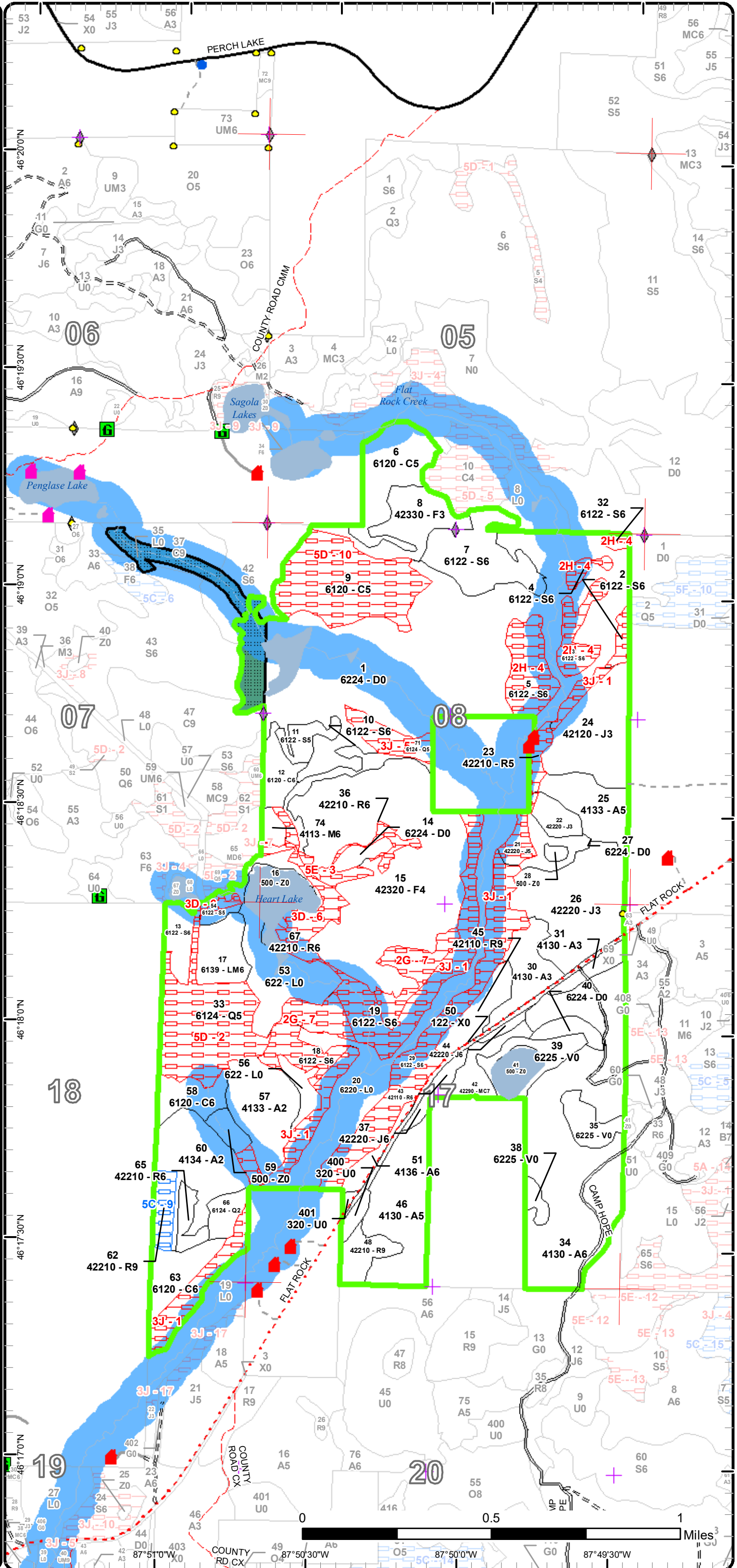


Special Conservation Areas & Site Conditions Map

Compartment: 231
 T45N, R28W, Sec. 08, 17
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2021
 Acres: 1,294 GIS Calculated
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- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Cabin
- Structure, Seasonal Dwelling
- Gate
- Structures
- Tower
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 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)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- High Priority Trout Stream Buffer
- Habitat Corridor



Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment 231 Year of Entry 2021



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	46	28	0	101	36	0	24	0	0	0	0	0	0	0	0	0	0	235
Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Cedar	0	0	0	0	0	0	0	0	0	54	0	38	0	25	0	0	0	0	116
Jack Pine	0	0	44	44	0	0	2	5	0	0	0	0	0	0	0	0	0	0	95
Lowland Conifers	0	0	0	6	0	0	0	0	0	10	0	43	0	0	0	0	0	0	58
Lowland Mixed Forest	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Lowland Shrub	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
Lowland Spruce/Fir	0	0	0	0	0	0	0	2	23	111	42	30	0	0	0	0	0	0	208
Natural Mixed Pines	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	0	19	0	7	24	0	0	0	0	0	0	0	15	65
Treed Bog	215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	215
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	21	0	112	0	0	0	0	0	0	0	0	0	0	0	0	133
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Total	360	46	72	71	101	148	21	41	47	199	42	111	0	25	0	0	0	15	1296



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 231

Total Compartment Acres: 1,294

Commercial Harvest - 86
 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	24	0	0	0	0	0	0	0	0	24
Jack Pine	2	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	27	0	0	0	0	0	0	0	0	27
Natural Mixed Pines	10	0	0	0	0	0	0	0	0	10
Red Pine	24	0	0	0	0	0	0	0	0	24
Total	86	0	0	0	0	0	0	0	0	86

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	86	0	0	0	0	66	0	0	0	152
Next Step	0	93	240	98	0	117	455	0	0	1003
Total	86	93	240	98	0	183	455	0	0	1155



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	Approval Status
7	32231007-Cut	27.1	6122 - Black Spruce	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all trees leaving only red pine and white pine. Winter cut only, place retention on east side as river buffer. Insure some mature black spruce is included in retention area for red crossbill and black bear habitat.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Hand Seed
Treatments:

Acceptable Black Spruce, fir, mixed hardwood.
Regen:

Other Due to small size start date is set to coincide with C229 where more spruce will be harvested. DEQ permit will be needed significant road building
Comment: needed to access stand. This stand was purchased by state game funds.

Proposed Start Date: 10/1 /2022

15	32231015-Spray	62.4	42320 - Upland Spruce	Poletimber Poor	45	Unspec ified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Helicopter spray stand, some of the stand may not be sprayed due to residual trees these areas flat plated if there is no current regeneration.

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Seeding, Machine Seed; Planting, Initial Plant; Planting, Replant;
Treatments: Monitoring, Herbicide Use; Monitoring, Direct Seeding

Acceptable Red pine, jack pine, spruce, fir
Regen:

Other Due to the need for a temporary bridge helicopter spray for site prep. Will have ATV access to plant red pine plugs.
Comment:

Proposed Start Date: 10/1 /2019

25	32231025-Cut	18.0	4133 - Aspen, Mixed Pine	Poletimber Medium	62	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand while leaving only white pine. Retention will be placed on the west of the stand. Retention will include aspen and red pine providing habitat for ruffed grouse and black bear. Use stump height spec to allow for cultivation after the harvest. Use a 2-inch spec to improve conditions for red pine establishment.

Specs:

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

Acceptable Red pine
Regen:

Other Stand will be converted to red pine as it's a failed red pine plantation.
Comment:

Proposed Start Date: 10/1 /2020

42	32231042-Cut	9.7	42290 - Natural Mixed Pine	Sawtimber Poor	65	Unspec ified	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand while leaving only white pine and oak. Retention will be a lake buffer on east side of the treatment. Use stump height spec to allow for cultivation after the harvest. Use a 2-inch spec to improve conditions for jack pine establishment.

Specs:

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

Acceptable jack pine
Regen:

Other Regenerate stand by trenching and seeding or planting stand. Herbicide if necessary. Include Stands 42, 43, and 44 in reforestation treatments.
Comment:

Proposed Start Date: 10/1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
43	32231043-Cut	3.5	42110 - Planted Red Pine	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut stand while leaving only white pine and oak. No retention due to small treatment size. Use stump height spec to allow for cultivation after the harvest. Use a 2-inch spec to improve conditions for jack pine establishment.

Next Step SitePrep, Trenching; Seeding, Machine Seed; Planting, Initial Plant; Planting, Replant; Pesticide, Skidder - Site Prep; Monitoring, Artificial Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Direct Seeding; Monitoring, Herbicide

Acceptable Jack pine, red pine
Regen:

Other Regenerate stand by trenching and seeding or planting stand. Herbicide if necessary. Include Stands 42, 43, and 44 in reforestation treatments.
Comment:

Proposed Start Date: 10/1 /2020

44	32231044-Cut	1.8	42220 - Natural Jack Pine	Poletimber Well	54	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand while leaving only white pine and oak. No retention due to small treatment size. Use stump height spec to allow for cultivation after the harvest. Use a 2-inch spec to improve conditions for jack pine establishment.

Next Step SitePrep, Trenching; Planting, Initial Plant; Planting, Replant; Seeding, Machine Seed; Pesticide, Skidder - Site Prep; Monitoring, Artificial Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Direct Seeding; Monitoring, Herbicide

Acceptable Jack pine, red pine
Regen:

Other Regenerate stand by trenching and seeding or planting stand. Herbicide if necessary. Include Stands 42, 43, and 44 in reforestation treatments.
Comment:

Proposed Start Date: 10/1 /2020

45	32231045-Cut	11.4	42110 - Planted Red Pine	Sawtimber Well	54	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand while leaving only white pine and red maple. Retention will be placed on the southwest corner of the stand. Use stump height spec to allow for cultivation after the harvest. Use a 2-inch spec to improve conditions for red pine establishment.

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

Acceptable Red pine
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

48	32231048-Cut	9.2	42210 - Natural Red Pine	Sawtimber Well	82	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand while leaving only white pine, paper birch, and oak if present. Also leave any red pine larger than 25 inches on the stump.

Specs: Retention will be placed on the northeast corner of the stand. Use stump height spec to allow for cultivation after the harvest. Use a 2-inch spec to improve conditions for red pine establishment.

Next Step SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Treatments: Planting, Replant; Pesticide, Skidder - Site Prep; Monitoring, Herbicide Use

Acceptable red pine
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020



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	Approval Status
51	32231051-Cut	5.5	4136 - Aspen, Mixed Conifer	Poletimber Well	69	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all trees leaving only white pine and oak. Leave a retention pocket along the northeast edge. Retention will include some wind firm spruce and larger paper birch. Use a 2-inch spec to improve conditions for aspen regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, fir, spruce, mixed hardwood

Regen:

Other Treatment will improve or protect habitat for gray jay, pileated woodpecker, northern goshawk.

Comment:

Proposed Start Date: 10/1 /2020

74	32231074- Spray	3.3	4113 - R.Maple, Conifer	Poletimber Well	75	Unspec ified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Helicopter spray stand, some of the stand may not be sprayed due to residual trees these areas flat plated if there is no current regeneration.

Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Seeding, Machine Seed; Planting, Replant

Treatments:

Acceptable Red pine, jack pine, spruce, fir

Regen:

Other Due to the need for a temporary bridge helicopter spray for site prep. Will have ATV access to plant red pine plugs.

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 151.9**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 231
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5C	2G	2H	3D	3J	5D	5E	
234	234	0	0	Aspen								
22	22	0	0	Bog								
125	66	0	59	Cedar					14	45		
95	85	0	9	Jack Pine					9			
58	6	0	52	Lowland Conifers					9	43		
14	14	0	0	Lowland Mixed Forest								
83	83	0	0	Lowland Shrub					0			
207	52	0	156	Lowland Spruce/Fir		32	32	2	89			
10	10	0	0	Natural Mixed Pines								
3	3	0	0	Northern Hardwood								
65	29	7	28	Red Pine	7			14	4		10	
215	215	0	0	Treed Bog								
4	4	0	0	Upland Shrub								
133	133	0	0	Upland Spruce/Fir								
8	8	0	0	Urban								
27	27	0	0	Water								
1,302	992	7	303	Total Forested Acres	7	32	32	16	126	87	10	
	76%	1%	23%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	117	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 231
Year of Entry: 2021

3	Unavailable	5E: Long-Term Retention	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3D: Recreational / Scenic values	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 231
Year of Entry: 2021

10	Unavailable	5D: Unproductive Forest Land	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
1	6224 - Treed Bog	Nonstocked	198.2		Unspecified	No	Large area of lowlands with a mix of bog, lowland brush, and open marsh grass. there are also a few beaver dams present in the area.																																				
2	6122 - Black Spruce	Poletimber Well	3.6	84	81-110	N/A	Black Spruce, adjacent to marsh complex best left for BMP values.																																				
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3	6122 - Black Spruce	Poletimber Well	10.3	85	81-110	N/A	Black spruce island in a marsh, small tributary flows though stand.																																				
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4	6122 - Black Spruce	Poletimber Well	2.9	106	81-110	N/A	Spruce island within a marsh.																																				
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6	6120 - Lowland Cedar	Poletimber Medium	24.5	120	Unspecified	N/A																																					
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7	6122 - Black Spruce	Poletimber Well	27.1	86	81-110	N/A	Hard to access.																																				
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8	42330 - Upland Fir	Sapling Well	21.0	27	Immature	N/A	Cut in 1991-91 by Holli Forest Products, permit #38-89, Sagola Lakes Block. Was accessed from the north via frozen road and culvert across tributary. Stand has been hit hard by SBW not much to be done due to small size.																																				
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9	6120 - Lowland Cedar	Poletimber Medium	44.6	87	51-80	N/A	Larger swamp conifer stand on the edge of a marsh complex. Birch has died out, only a few remain. Was hit by budworm in the past as well.																																				
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14	6224 - Treed Bog	Nonstocked	4.2		Unspecified	No																																																							
15	42320 - Upland Spruce	Poletimber Poor	111.7	45	Unspecified	N/A	Stand was cut in the winter of 2015. TS# 105-11. Pockets of residual timber exist for a seed source. Regeneration is still sparse in many areas the stand should be flat planter to fill in areas of low stocking.																																																						
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16	500 - Water	Nonstocked	14.0		Unspecified	No	Heart Lake																																																						
17	6139 - Mixed Lowland Forest	Poletimber Well	13.7	75	81-110	N/A																																																							
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18	6122 - Black Spruce	Poletimber Well	23.4	105	81-110	N/A	Larger swamp conifer stand. Birch is dying out. Scattered spruce and cedar heavier along western edge. Lots of tag alder throughout stand.																													
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20	6220 - Alder/willow	Nonstocked	46.8		Unspecified	No	Low area bordering Flat Rock Creek.																													
21	42220 - Natural Jack Pine	Poletimber Medium	4.9	69	51-80	N/A	Patchy stand of jack pine and aspen.																													
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22	42220 - Natural Jack Pine	Sapling Well	7.0	24	Immature	N/A	Jack pine volunteers are taking over this stand from the planted red pine. Stand is well stocked with both red pine and jack pine, jack pine being the dominant species.																													
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23	42210 - Natural Red Pine	Poletimber Medium	4.4	59	1-50	N/A	Old opening filling in along historic railroad grade.																													
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24	42120 - Planted Jack Pine	Sapling Well	35.3	24	Immature	N/A	Was commercially cut in Fall of 1993 by Holli Forest Products, permit #11-91, "Camp A Jack Pine Block". Was planted in May 1995, FTP #C31-311.																													
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25	4133 - Aspen, Mixed Pine	Poletimber Medium	18.0	62	81-110	N/A	Mixed stand of aspen, jack and red pine. Stand was planted in 1957 to red pine, which is now being suppressed by the jack pine and aspen.																													
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26	42220 - Natural Jack Pine	Sapling Well	43.5	16	Immature	N/A																														
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27	6224 - Treed Bog	Nonstocked	7.3		Unspecified	No																																		
28	500 - Water	Nonstocked	1.4		Unspecified	No																																		
29	6122 - Black Spruce	Poletimber Well	42.1	91	81-110	N/A	Sand along the Flat Rock Creek. Stand is predominately spruce and balsam with areas mixed with cedar, tamarack, balm, and a few white birch.																																	
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30	4130 - Aspen	Sapling Well	14.8	6	Immature	N/A	Harvested in 2013: TS# 104-11-01.																																	
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31	4130 - Aspen	Sapling Well	5.6	6	Immature	N/A	Harvested in 2013: TS# 104-11-01. Stand was flat planted under 32-891. The stand has flushed back to aspen and require a large investment to convert to jack pine. The MO of the stand will now be mixed aspen and jack.																																	
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33	6124 - Lowland Spruce-Fir	Poletimber Medium	42.5	105	1-50	N/A																																		
34	4130 - Aspen	Poletimber Well	101.0	35	Unspecified	N/A	A mix of pulp sized aspen varying in size density and quality. There are scattered red and jack pine as well as some spruce/fir/oak and red maple. There is a band of jack pine around the bog as well, but not big enough to be it's own stand.																																	
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35	6225 - Bog	Nonstocked	8.9		Unspecified	No																																		



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36	42210 - Natural Red Pine	Poletimber Well	9.6	87	51-80	N/A	This stand was created from the adjacent stand 17 during the pre-review for 2011. Stand is to be 300 ft. wide using Heart Lake as the west boundary.																																						
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40	6224 - Treed Bog	Nonstocked	5.5		Unspecified	No																																							
41	500 - Water	Nonstocked	6.8		Unspecified	No	Frenchy Lake																																						
42	42290 - Natural Mixed Pine	Sawtimber Poor	9.7	65	Unspecified	N/A	Harvested in 2013: TS# 104-11-01. This stand was flat planted at a rate of 1000 trees per acre. total cost of the planting is \$1120.00. a subsequent count did not find many seedlings. Stand will need more work to regenerate.																																						
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46	4130 - Aspen	Poletimber Medium	35.9	41	51-80	N/A																																									
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48	42210 - Natural Red Pine	Sawtimber Well	9.2	82	51-80	N/A	Stands was cut under contract #105-11-1 by Holli Forest Products. Cultivation work never ocured.																																								
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50	122 - Road/Parking Lot	Nonstocked	7.6		Unspecified	No	Flat Rock Road																																								
51	4136 - Aspen, Mixed Conifer	Poletimber Well	5.5	69	81-110	N/A																																									
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53	622 - Lowland Shrub	Nonstocked	31.1		Unspecified	No																																									
54	6122 - Black Spruce	Poletimber Medium	4.0	105	1-50	N/A																																									
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56	622 - Lowland Shrub	Nonstocked	5.4		Unspecified	No																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
57	4133 - Aspen, Mixed Pine	Sapling Medium	25.6	5	1-50	N/A	Stand was cut in the winter of 2015. Red pine was left as a no-cut species. TS# 105-11.																																
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58	6120 - Lowland Cedar	Poletimber Well	10.8	105	111-140	N/A																																	
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Northern White Cedar	85	Pole	8	105																																			
59	500 - Water	Nonstocked	4.6		Unspecified	No	Beaver pond																																
60	4134 - Aspen, Spruce/Fir	Sapling Medium	27.7	16	Immature	N/A	It was cut in the fall of 2003 by Roy Nelson, III, timber sale #107-01-01, Coniber ELF Sale. Birch seed trees were left as well as any oak, cherry, and cedar as well as 1 to 3 stick spruce.																																
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Red Maple	Low	5 - 10 feet	Sapling																																				
62	42210 - Natural Red Pine	Sawtimber Well	7.3	75	141-170	N/A	Stand was cut during the fall of 2003 by Roy Nelson, III, timber sale #107-01-01.																																
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63	6120 - Lowland Cedar	Poletimber Well	26.9	105	111-140	N/A																																	
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65	42210 - Natural Red Pine	Poletimber Well	5.4	82	81-110	N/A	Patchy stand of red pine.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
66	6124 - Lowland Spruce-Fir	Sapling Medium	6.4	24	Immature	N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	10	Sapling	2		
		Balsam Fir	35	Sapling	2		
		Black Spruce	35	Sapling	2	24	
		Red Maple	10	Sapling	2		
		Tamarack	10	Sapling	2		
		Canopy Species	Density	Avg. Height	Size		
		Tag Alder	Low	5 - 10 feet	Tall Shrub		
67	42210 - Natural Red Pine	Poletimber Well	13.9	87	51-80	N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	8	Log/Pole	10		
		Paper Birch	10	Log/Pole	12		
		Black Spruce	8	Log	10		
		Red Pine	68	Log/Pole	14	87	
		Canopy Species	Density	Avg. Height	Size		
		Balsam Fir	Medium	5 - 10 feet	Sapling		
		Red Pine	Medium	10 - 20 feet	Sapling		
		Red Maple	Medium	>20 feet	Sapling		
71	6124 - Lowland Spruce-Fir	Poletimber Medium	9.5	87	51-80	N/A	
		Canopy Species	% Cover	Size Class	DBH	Age	
		Balsam Fir	10	Pole	8		
		Black Spruce	45	Pole	8	87	
		Northern White Cedar	35	Sapling	8		
74	4113 - R.Maple, Conifer	Poletimber Well	3.3	75	Unspecified	N/A	Stand was cut in the winter of 2015. TS# 105-11. Pockets of residual timber exist for a seed source. Monitor the stand to see how the stand regenerates.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	60	Pole	8	75	
		Black Spruce	25	Sapling/Pole/Log	3		
		Paper Birch	8	Log/Pole	10		
400	320 - Upland Shrub	Nonstocked	2.9		Unspecified	Managed Opening	
401	320 - Upland Shrub	Nonstocked	1.0		Unspecified	Managed Opening	