



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32238

Entry Year 2018

Acreage: 1,572

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2016-08-09

Stand Examiner: Rick Hill

Legal Description:

T45N, R28W, Sec. 22, 27, and 34 .

Identified Planning Goals:

Vegetative management in the Chain Lake management area will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses.

Soil and topography:

Ranging from relatively level creek bottoms, swamp conifer, tag alder, and bog/ marshlands, to upland which is only rolling to moderately hilly. Generally good logging chance throughout, though access is somewhat lengthy and most roads are in need of upgrading with gravel, etc.

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

State ownership here is generally blocked in quite well on all sides except the east, which does border some relatively small private forest holdings, mostly non-industrial private owners with recreational objectives. St. John Real Estate is the largest of these private owners with 1200+ acres, but even here the hunting rights are leased. Development is very limited with a few seasonal cottages or hunting camps widely distributed. Production of forest products along with low key recreational activities such as hunting, mushroom & berry picking, riding ORV's, hiking, fishing, and trapping make up the land uses here.

Unique Natural Features:

The Wild West Creek and its tributaries make up the unique natural features on State land here.

Archeological, Historical, and Cultural Features:

Under review by staff.

Special Management Designations or Considerations:

There are no special designations present within the compartment.

Watershed and Fisheries Considerations:

This compartment contains Wild West Creek which is a Type 1 designated trout stream less than 50' width. Wild West Creek is a tributary to the West Branch of the Escanaba River. A 300' buffer is recommended for Wild West Creek in riparian areas adjacent to stands which include Aspen. For all other riparian areas, Best Management Practices should be followed to reduce erosion into waterbodies

Wildlife Habitat Considerations:

Compartment 238 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; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

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

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as dimension stone. Gravel pits are not located in this area, but there should be potential on the uplands. The abandoned

Republic iron mine is located ten miles to the northwest. Section 34 was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

The Camp Hope Road (a through road connected to the Flat Rock County Rd CAA on both ends) provides vehicle access to that part of the compartment lying west of the Wild West Creek. Various internal two track, narrow roads (some of which are bermed), complete the access network to reach parts of the compartment off of the Camp Hope Rd. Another un-named road leads into the part of the compartment east of the Wild West Creek, this road exiting the Flat Rock Rd in Section 10 from the north. Temporary roads are established for timber removal, but these are bermed, and often seeded for wildlife, or obliterated following timber sale completion. All roads in this compartment are in need of upgrading with gravel in at least key areas to make them useable in wet weather, etc.

Survey Needs:

Some survey may be need to complete needed timber sales requests will be submitted after the compartment review.

Recreational Facilities and Opportunities:

A network of “hunter walking trails” was established dating back to the 1970’s in Sec 34 from former logging trails, being disked and seeded and bermed upon completion. Currently they have been growing in or reverting to a somewhat natural condition. In addition to this, only low key recreational opportunities for activities such as hunting, trapping, fishing, hiking, mushroom & berry picking, etc. exist in this compartment.

Fire Protection:

This compartment has fair access with some areas being problematic to access. Vegetation types here do not lend themselves to large fire growth.

Additional Compartment Information:

The following reports from the Inventory are attached:

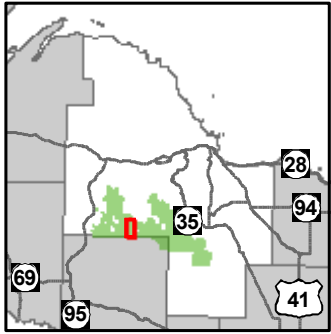
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

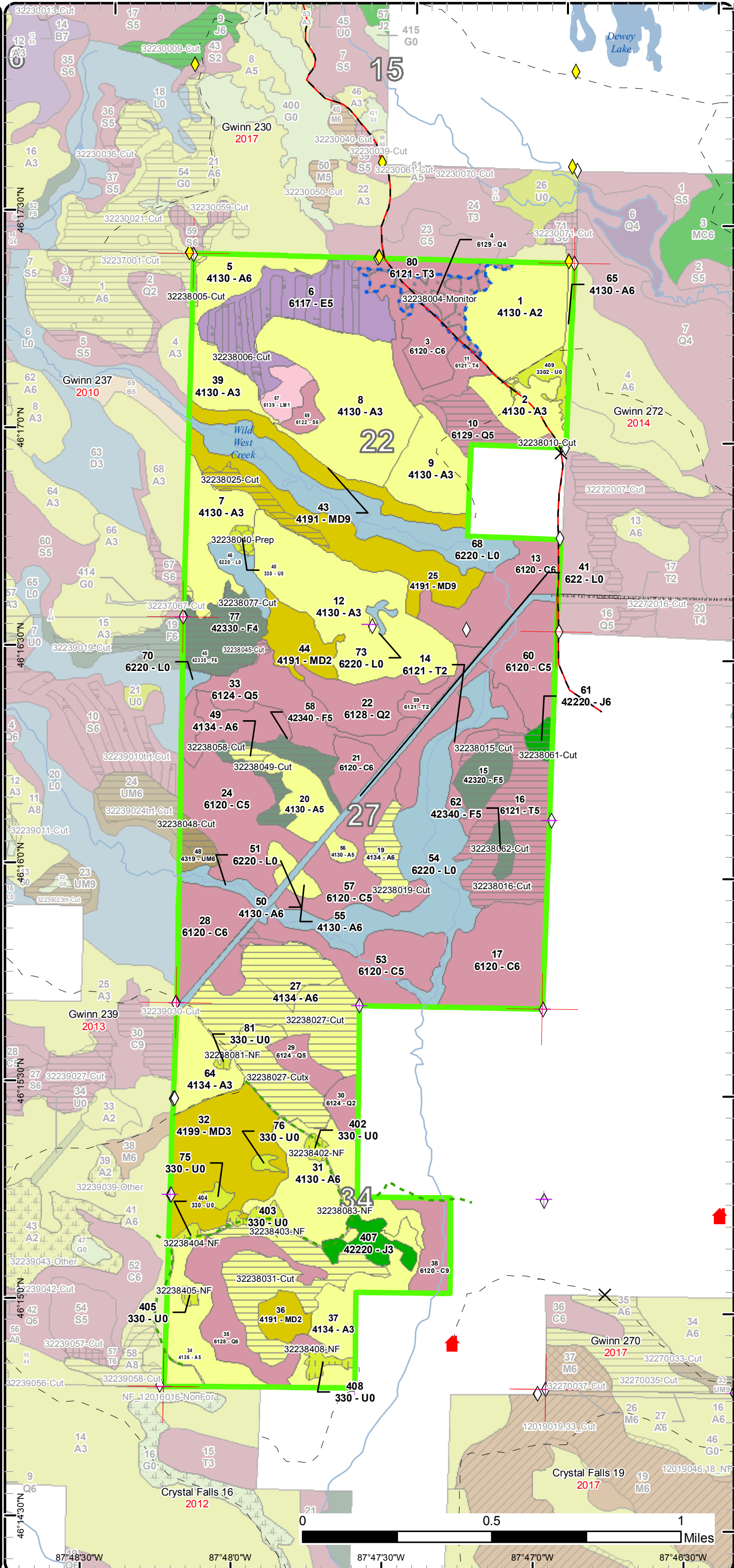
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 238
 T45N, R28W, Sec. 22, 27, 34
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2018
 Acres: 1572 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 2/8/2017
 Map Phase: Post-Review

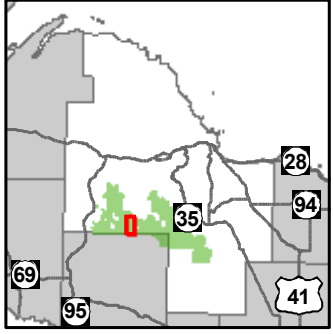


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- X Gate
- Cabin
- - - Designated Hiking Trails
- County Poor Dirt Roads
- - - Poor Dirt Roads
- Rivers
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Patch/Strip Cut (Femelschlag)
- Site Prep
- Clearcut (w/Reserves)
- Opening Maintenance
- Regeneration Survey
- Mowing
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes

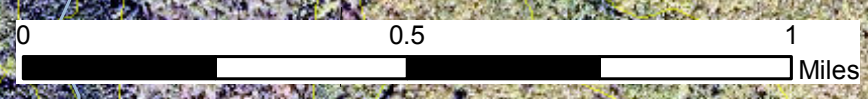
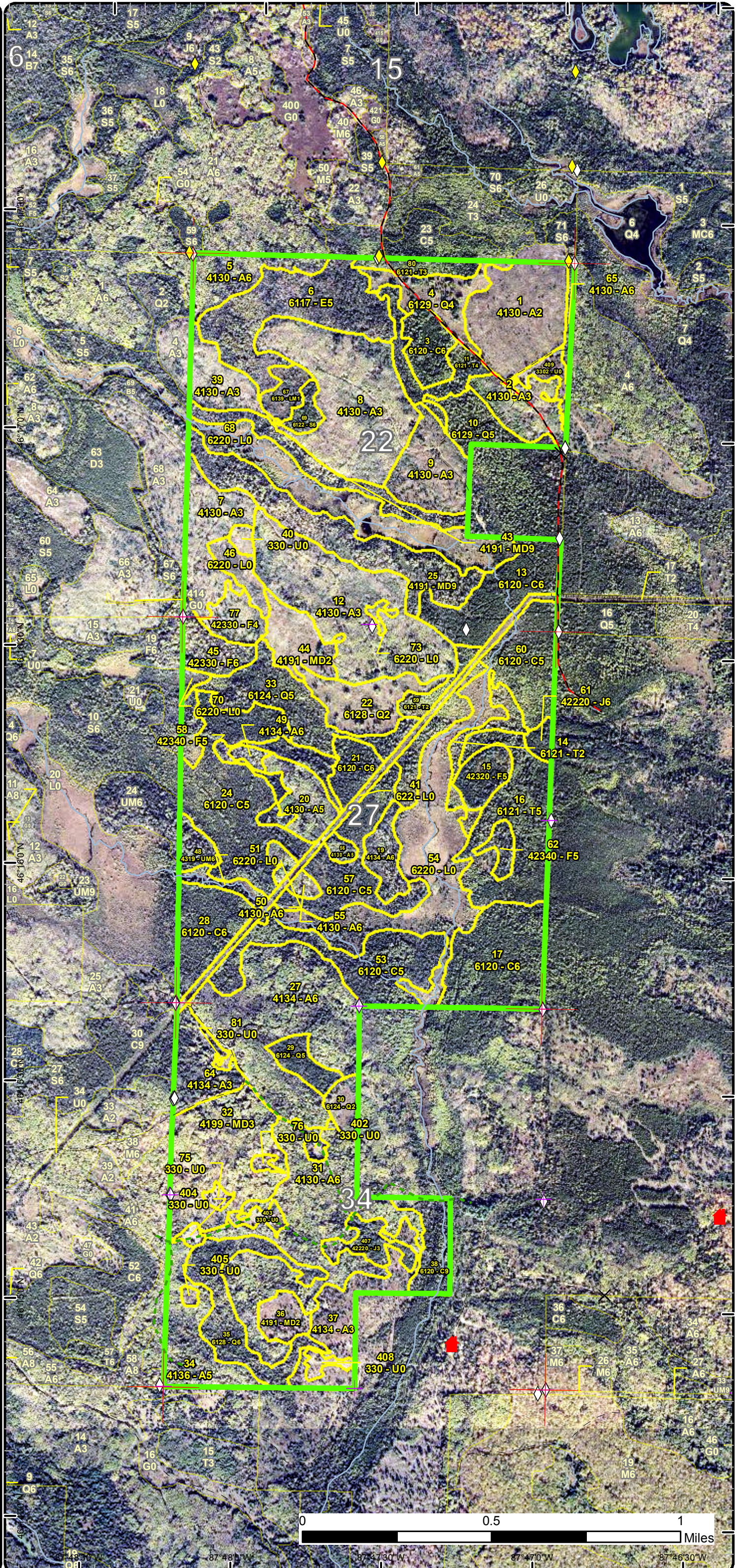


Stand Boundary Map

Compartment: 238
 T45N, R28W, Sec. 22, 27, 34
 County: Marquette
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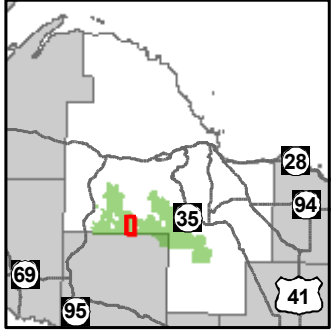
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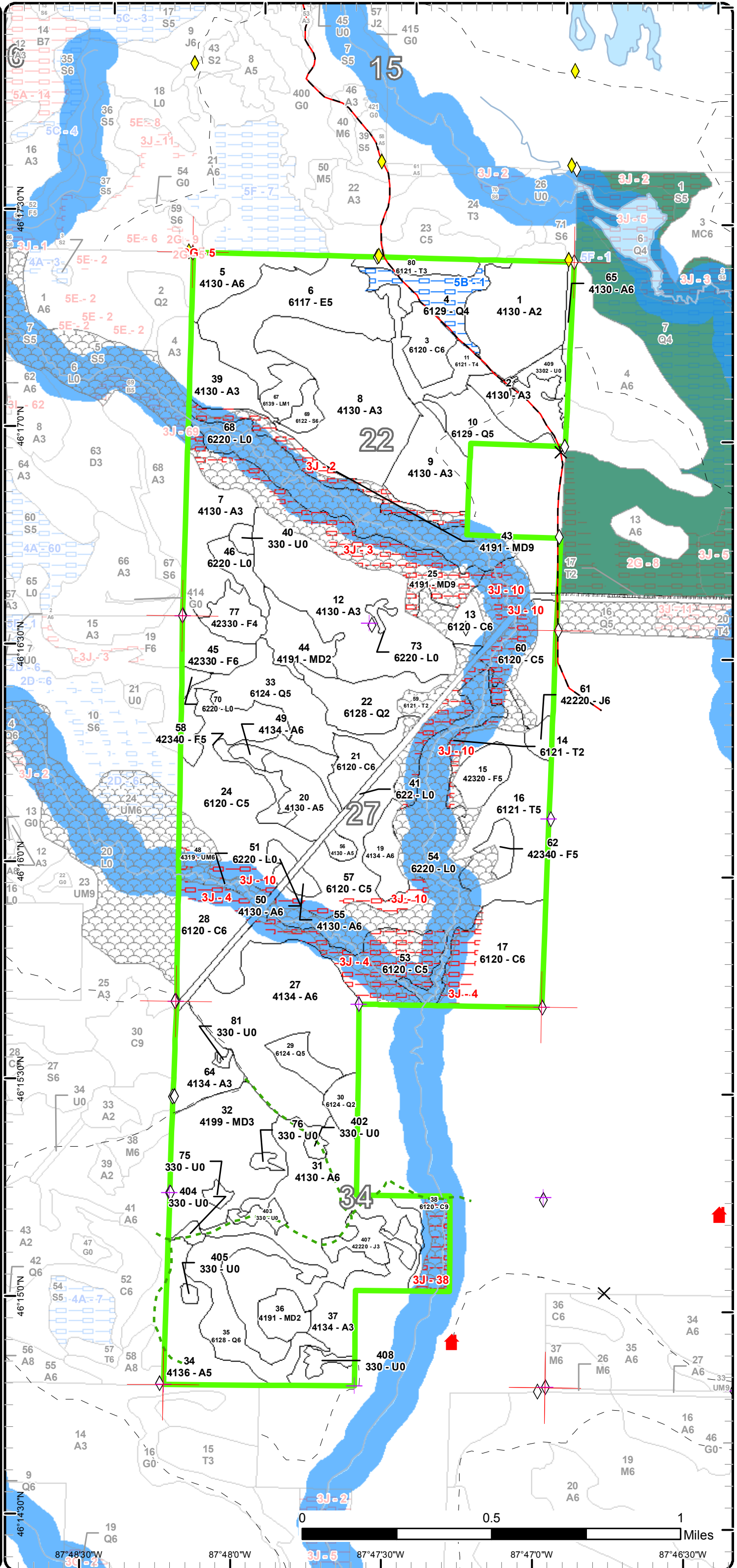
87°48'0"W 87°47'30"W 87°47'0"W 87°46'30"W

Special Conservation Areas & Site Conditions Map

Compartment: 238
 T45N, R28W, Sec. 22, 27, 34
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
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- Miris Corners
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- ◆ Survey Grade GPS Corners
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- ✕ Gate
- Cabin
- - - Designated Hiking Trails
- County Poor Dirt Roads
- - - Poor Dirt Roads
- Rivers
- Pipeline
- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- ▭ Unavailable
- 5B: Maintain for regeneration purposes
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor



Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment 238 Year of Entry 2018



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	70	70	179	0	156	80	0	0	11	3	0	0	0	0	0	0	0	569
Cedar	0	0	0	0	0	0	0	0	0	0	0	106	14	0	0	0	0	176	296
Jack Pine	0	0	0	10	0	0	4	0	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	30	0	0	0	0	9	0	38	34	0	0	0	0	0	0	0	31	142
Lowland Deciduous	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	53
Lowland Mixed Forest	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	151
Lowland Spruce/Fir	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	26	0	53	0	0	0	0	0	67	0	0	0	0	0	0	0	0	146
Tamarack	0	0	0	8	30	16	0	0	0	46	0	0	0	0	0	0	0	0	100
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Upland Spruce/Fir	0	0	11	0	0	27	0	0	0	16	0	0	0	0	0	0	0	0	54
Total	177	126	81	250	30	212	146	0	38	181	3	106	14	0	0	0	0	207	1571



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 238

Total Compartment Acres: 1,572

Commercial Harvest - 201
 Harvests with Site Condition - 88
 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	134	0	0	0	0	0	0	0	0	134
Jack Pine	4	0	0	0	0	0	0	0	0	4
Lowland Conifers	15	0	0	0	0	0	0	0	0	15
Lowland Deciduous	0	0	24	0	0	0	0	0	0	24
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Tamarack	44	0	0	0	0	0	0	0	0	44
Upland Mixed Forest	4	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	54	0	0	0	0	0	0	0	0	54
Total	265	0	24	0	0	0	0	0	0	289

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	289	3	0	0	0	19	0	15		325
Next Step	0	10	13	43	0	304	0	0		371
Total	289	13	13	43	0	323	0	15		696



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4	32238004-Monitor	18.7	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	86	1-50	Monitoring	Natural Regen (Intermediate)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:** Shelterwood/Seed Source

Prescription Check this stand for regeneration in before next YOE

Specs:

Next Step

Treatments:

Acceptable Lowland conifers and lowland hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/01/2022

5	32238005-Cut	0.9	4130 - Aspen	Poletimber Well	42	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Final harvest leaving one 1/20th acre patch.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Spruce, Fir

Regen:

Other

Sale prepped in 2016 due to Budworm

Comment:

Proposed Start Date: 10/01/2017

6	32238006-Cut	24.3	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	57	1-50	Harvest	Strip/Patch/Gap Cut (Femelschlag)	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Cut strips 50-100 feet wide leaving the same between strips. Leave all white pine in the strips. The goal is to harvest about half the stand, Leave a seed source for birch, and to maintain sufficient forest cover to prevent water levels from rising. long term retention should be positioned adjacent to stand 4 to prevent any green up issues.

Specs:

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

Treatments:

Acceptable .Paper Birch, Aspen, Maple, spruce, fir and other lowland species

Regen:

Other

If regeneration fails consider seeding black spruce.

Comment:

Proposed Start Date: 10/01/2017

10	32238010-Cut	15.1	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	87	1-50	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:** Survey Needed

Prescription Clearcut stand leave a pocket with some mature tamarack near the north end of the stand (3%-10% of the stand area). Also leave all cedar unless needed for operations.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Aerial Seed

Treatments:

Acceptable spruce, tamarack, red maple, aspen, cedar, and fir

Regen:

Other

Use harvest exception spec if needed, if used make sure cedar price is set appropriately to discourage harvest.

Comment:

Mature tamarack should be included in the retention- Gray Jay, There 20% Cedar in this stand cedar it should not be cut (State Game Fund)

Proposed Start Date: 10/01/2017



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
15	32238015-Cut	11.2	42320 - Upland Spruce	Poetimber Medium	88	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut this stand, leave some spruce seed trees in small clumps leave one area of 3-10 percent on the west edge of the stand. Leave all white pine.
Specs:

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

Acceptable spruce, fir, aspen, birch, other mixed hardwood and conifer.
Regen:

Other Retain all White Pine (5%) – Black Bear, Cross Bill along with 15+ tree spruce clumps in the treatment. (State Game Fund)
Comment:

Proposed Start Date: 10/01/2017

16	32238016-Cut	44.1	6121 - Tamarack	Poetimber Medium	87	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand leavening all cedar possible (some may need to be harvested for operations however this is a minimal amount.) Leave Multiple small pockets scattered around the stand of around 10% of the stand area. to provide seed and serve as retention.
Specs:

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

Acceptable tamarack, spruce, fir, cedar, mixed lowland conifer, and mixed hardwood.
Regen:

Other Access will be needed though St John lands to the east of the compartment. Cut with all other stands in the area.
Comment:

Retention should include mature tamarack-Gray Jay, Cedar is only 5% of stand there should be no harvest and if possible include them in the retention areas. (State Game Fund)

Proposed Start Date: 10/01/2017

19	32238019-Cut	11.2	4134 - Aspen, Spruce/Fir	Poetimber Well	88	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Portable Bridge Needed**

Prescription Clearcut this stand cutting all trees greater than 2-inches dbh. Leave Retention on the east end of stand as a buffer to the wild west creek.
Specs:

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

Acceptable Aspen, Spruce, fir, mixed hardwood, mixed conifer.
Regen:

Other Retention should include mature aspen- Pileated woodpecker, and other cavity nesters.
Comment:

Proposed Start Date: 10/01/2017

25	32238025-Cut	9.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	84	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary - Ready for VMS
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all species except do not cut white pine, red pine, or oak if present. buffer any drainages and vernal ponds present. retention will be made up of the wild west creek buffer and any other buffers needed to protect sensitive areas.
Specs:

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

Acceptable aspen, maple, birch, spruce, and fir
Regen:

Other
Comment:

Proposed Start Date: 07/01/2016



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
27	32238027-Cut	41.1	4134 - Aspen, Spruce/Fir	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition: Survey Needed

Prescription Clearcut stand, leave oak, white pine, cedar and black cherry if present. Focus retention in areas with high concentrations of reserve species and
Specs: wet areas, buffers.

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

Acceptable Aspen, fir, mixed hardwood, mixed conifer.
Regen:

Other This applies to all 3 cut areas. Retention should include all White Pine (5%) and Black Cherry (2%) – Bear, crossbill, and Cedar and Oak if
Comment: present. Retention areas should include some large BT aspen for nesting trees and cavity nesters N. goshawk

Proposed Start Date: 10/01/2017

27	32238027- Cutx	40.3	4134 - Aspen, Spruce/Fir	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Clearcut stand, Focus retention along creek buffer, also leave a few 1/20 acre patches for future drumming logs.
Specs:

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

Acceptable Aspen, mixed hardwood, mixed conifer.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2022

31	32238031-Cut	37.5	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Clearcut stand, focus retention along wet drains, and in patches along edges and interior not to exceed 10% of the sale area. Include some large
Specs: birch in these areas. Leave all white pine, red pine, and oak if present.

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

Acceptable Aspen, mixed hardwood, mixed conifer.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

40	32238040- Prep	2.6	330 - Low-Density Trees	Nonstocked	0	Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Trench and plant red pine.
Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
45	32238045-Cut	13.8	42330 - Upland Fir	Poletimber Well	42	111-140	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Field Boundary - Ready for VMS

Habitat Cut: No**Site Condition:**

Prescription Cut all trees except red pine, white pine and oak if present. Retention should be left along lowland type to the south.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, fir, spruce, and mixed hardwood

Regen:OtherComment:

Proposed Start Date: 10/01/2017

48	32238048-Cut	4.3	4319 - Mixed Upland Forest	Poletimber Well	89	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Portable Bridge Needed**

Prescription Clearcut this stand cutting all trees greater than 2-inches dbh. Leave scattered trees along the southern edge of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir, mixed hardwood, mixed conifer.

Regen:OtherComment:

Proposed Start Date: 10/01/2017

49	32238049-Cut	2.7	4134 - Aspen, Spruce/Fir	Poletimber Well	92	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Portable Bridge Needed**

Prescription Clearcut this stand cutting all trees greater than 2-inches dbh. Leave a small area of retention in the center of stand, also leave all white pine, and red pine if present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir and mixed hardwood and conifer

Regen:Other

Leave all cedar (5%) of stand

Comment:

Proposed Start Date: 10/01/2017

58	32238058-Cut	13.7	42340 - Upland Spruce/Fir	Poletimber Medium	45	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Portable Bridge Needed**

Prescription Clearcut this stand cutting all trees greater than 2-inches dbh. Leave a pocket of no more than 10 percent of the stand on the northern edge of the stand. Leave all white pine, red pine, cedar and tamarack.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, fir, aspen, mixed hardwood, mixed conifer

Regen:Other

Retention should include all cedar (2%) and Tamarack (3%) gray jay, crossbill

Comment:

Proposed Start Date: 10/01/2017



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
61	32238061-Cut	4.0	42220 - Natural Jack Pine	Poletimber Well	59	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut this stand leave a pocket for retention. Leave all red and white pine leave some spruce as well.

Specs:

Next Step Seeding, Machine Seed; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable jack pine, spruce, fir, and mixed hardwood and aspen.

Regen:

Other Retention should be a pocket around a sensitive vsite on the west end of the stand.

Comment:

Proposed Start Date: 10/01/2017

62	32238062-Cut	5.1	42340 - Upland Spruce/Fir	Poletimber Medium	88	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand leave scattered pockets of spruce and fir as seed trees. leave one pocket for area retention on the west arm of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable spruce, fir, aspen, mixed hardwood, and mixed conifer.

Regen:

Other Agree with Treatment but look for opportunities to leave large diameter W. Birch – Pileated woodpecker (State Game Fund)

Comment:

Proposed Start Date: 10/01/2017

77	32238077-Cut	10.2	42330 - Upland Fir	Poletimber Poor	18	Immature	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Field Boundary - Ready for VMS
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Habitat Cut: No**Site Condition:**

Prescription Clearcut any fir and spruce that is of size, leave pockets of aspen where they exist. trench and replant to red pine regeneration in this stand has failed.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Red pine, spruce, aspen, fir

Regen:

Other

Comment:

Proposed Start Date: 07/01/2016

81	32238081-NF	0.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Manage per WLD specs

Specs:

Next Step

Treatments:

Acceptable Mast producing shrubs, forbs

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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
31	32238083-NF	1.9	4130 - Aspen	Poletimber Well	42	51-80	NonForestMgt	Mowing	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Maintain old hunter walking trail per WLD specs.

Specs:

Next Step

Treatments:

Acceptable Grass

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

402	32238402-NF	2.1	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3301 - Low Density Deciduous Trees		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Maintain wildlife opening per WLD specs.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

403	32238403-NF	3.8	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Maintain wildlife opening per WLD specs.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

404	32238404-NF	1.9	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Maintain wildlife opening per WLD specs.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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
405	32238405-NF	1.3	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Maintain old opening per WLD specs.

Specs:

Next Step

Treatments:

Acceptable Grass

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

408	32238408-NF	3.1	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Maintain wildlife opening per WLD specs.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 325.2**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 238
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2D	2I	5B	2G	3J
570	514	55	0	Aspen	14	41		0	0
296	209	0	87	Cedar					87
14	14	0	0	Jack Pine					
26	26	0	0	Low-Density Trees					
142	109	32	0	Lowland Conifers		15	17		
53	53	0	0	Lowland Deciduous					
8	8	0	0	Lowland Mixed Forest					
151	151	0	0	Lowland Shrub					
5	5	0	0	Lowland Spruce/Fir					
146	90	0	57	Mixed Upland Deciduous					57
101	85	0	15	Tamarack					15
7	0	4	2	Upland Mixed Forest	4				2
54	40	14	0	Upland Spruce/Fir	14				0
1,572	1,305	105	162	Total Forested Acres	32	56	17	0	161
	83%	7%	10%	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	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 238
Year of Entry: 2018

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 238
Year of Entry: 2018

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2I: Survey needed	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							



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
	Potential Old Growth		SCA Removal	12
Comments				
This area no longer meets the criteria to be classified as a Special Conservation Area.				
Unspecified	Unspecified		SCA Removal	23
Comments				
This area no longer meets the criteria to be classified as a Special Conservation Area.				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Sapling Medium	41.4	7	Immature	Stand harvested in fall of 2009 by Mark Anderson for Verso Paper, TS#32-110-08-01 (Cold Toes Sale). White birch seed trees were left, approx. 10/acre. Any oak, cherry, red and white pine were left.
2	4130 - Aspen	Sapling Well	18.9	27	Immature	Stand was commercially cut in Fall of 1990 by Jay Mattila of Republic, permit # 21-88-01, "old Railroad Grade Block". A 2 inch cutting spec was used plus all oak & cherry was left.
3	6120 - Lowland Cedar	Poletimber Well	13.9	117	111-140	
4	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	18.7	86	1-50	Stand is still regenerating, judging by nearby stands this stand will be fine it will just take a little more time. Stand harvested winter 2009-2010 by Mark Anderson for Verso Paper, TS#32-110-08-01 (Cold Toes Sale). 15 groups of approx. 1/10 of an acre in size were left as a seed source for black spruce, tamarack and cedar. 2006 Comments: Cedar is essentially lacking on this side of the road - perhaps it was cut out in the past (eg. for underground mine lagging, etc).
5	4130 - Aspen	Poletimber Well	18.4	42	Unspecified	Stand was commercially cut around 1975 as part of an adjacent sale.
6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	52.9	57	1-50	A swamp lowland birch/balm/black ash type.
7	4130 - Aspen	Sapling Well	27.2	18	Immature	Stand was commercially cut in summer of 1999 by Minerick Logging, Inc., permit # 105-98-01, "Wild West Creek South Sale". Oak, cherry, cedar, red & white pine was left. Shortwood operation to protect fir regen. Access was from the northwest off Camp Hope Road. This cutting included adjacent acreage to the west in Cmpt 237. Conifer is a component of this stand but not the dominant species.
8	4130 - Aspen	Sapling Well	67.7	25	Immature	Was commercially cut in Nov. 1991 by Minerick Logging, Inc., permit #08-88-01 "Wild West Creek Block". Cedar & cherry was left (very little if any oak present in sale) and a 2 inch spec was used for the hardwood. Access was from the east off of "Dave Morcom's driveway". New road was bermed.
9	4130 - Aspen	Sapling Well	26.2	16	Immature	Stand was commercially cut in Dec. 2000 by Minerick Logging, Inc., permit # 101-98-01, "Wild West Creek North Sale". Oak, cherry, red & white pine, and birch marked with green paint (for aesthetics near private forty) were left. Access from the east off Dave Morcom's driveway.
10	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	15.1	87	1-50	Dave Morcom's "driveway" passes through this stand.
11	6121 - Tamarack	Poletimber Poor	16.1	46	1-50	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4130 - Aspen	Sapling Well	73.4	25	Immature	Was commercially cut in 1991-92 by Minerick Logging, Inc., permit #08-88-01, "Wild West Creek Block". Cedar & cherry were left (very little if any oak present) and a 2 inch spec was used on hardwood. Access was from the northwest off the Camp Hope Road, a newly built road that was closed afterwards.
13	6120 - Lowland Cedar	Poletimber Well	31.9	107	111-140	
14	6121 - Tamarack	Sapling Medium	23.9	36	Unspecified	
15	42320 - Upland Spruce	Poletimber Medium	11.2	88	51-80	An "island" of high ground surrounded by swamp & marsh. This would necessitate a winter cutting with frozen access from the Northeast. Only about 4 chains or so of swamp to cross - shouldn't be too difficult. Getting permission from private land to the east for access may be more difficult. Much of the fir is in bad shape there has been much wind damage over the last ten years.
16	6121 - Tamarack	Poletimber Medium	46.3	87	51-80	Old winter road passes north-south through stand on east edge of stand. Under permit #36/62A, issued to Herbert Rombach of Princeton, all fir 6 inch & larger, and all black spruce 8 inch & larger in stump diameter were to be cut in the winters of 1963-64. Presently the spruce averages fairly small diameters, 4 to 6 inch. Trace of cedar and some tamarack also. A recent cutting on private land in the NWNW of Sec 26 came back to a flush of tamarack regeneration.
17	6120 - Lowland Cedar	Poletimber Well	42.7	107	81-110	Herbert Rombach of Princeton under permit # 36/62A. , no cutting in the leave strips. All merchantable cedar, spruce, & tamarack were cut in these strips. He was working for Arvid Nyland. not all of the stand was completed though the 2 age structure is present though the majority of the stand.
19	4134 - Aspen, Spruce/Fir	Poletimber Well	11.2	88	81-110	Essentially an island of high ground in a swamp except only a very narrow neck of swamp to reach this from the west.
20	4130 - Aspen	Poletimber Medium	15.2	45	1-50	Was commercially cut in 1972 (winter cut) by Holli Forest Products, Inc., permit # 19-70A "Wild West Block". Beaver had flooded the creek to the south of stand 55 since this sale, making access a problem.
21	6120 - Lowland Cedar	Poletimber Well	10.7	92	111-140	
22	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	22.8	7	Immature	Stand harvested winter of 2009 by Heidtman Logging, TS#32-111-08-01. Finished cutting just before spring breakup. 16, approx. .1-.25 acre patches (amounting to 1.63 acres) were retained for a seed source. Checked the area in winter of 2010-2011 and the integrity of they patches was pretty good. Old railroad grade runs thru stand east-west.
24	6120 - Lowland Cedar	Poletimber Medium	58.4	92	111-140	
25	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	47.3	84	111-140	This stand was left when stand 12 was cut in 1991-92 as a riparian buffer along Wild West Creek.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4134 - Aspen, Spruce/Fir	Poletimber Well	80.3	54	81-110	Was commercially cut around 1963 under permit #45/62A by Kroon Forest Products, Inc. from Ishpeming. Ellsworth & Lloyd Kroon (father & son). Best or larger aspen seems to be on the west side. There is a fair amount of fir present in the understory and in a few pure pockets.
28	6120 - Lowland Cedar	Poletimber Well	23.7	107	81-110	Some of this stand buffers a tributary of wild west creek. there is a small pocket of Tamarack along the elf line that could be harvested next entry period.
29	6124 - Lowland Spruce- Fir	Poletimber Medium	9.0	54	1-50	Lots of fir in stand but vast majority is sub four inch spruce and cedar should respond well if the fir falls out of the stand.
30	6124 - Lowland Spruce- Fir	Sapling Medium	7.2	6	Immature	Stand harvested January 2011 Minerick Logging, TS#32-119-08-01 "Trash Can Fir Sale". Patches (1/20-1/10 acre) were left for retention and a seed source. Cedar was crushed and amounted to 30 sq. ft/ac, but not well distributed. Regeneration is present and looks good though it should be monitored for a few more years to make sure it becomes well established.
31	4130 - Aspen	Poletimber Well	81.8	42	51-80	Was commercially cut by Holli Forest Products under permit #19-70A, around 1975. Harvest was by hand piececutters, and a tree length operation utilizing a Hahn Harvester processor at the landing. Some remnant older scattered trees that were missed in 1975 (white spruce, birch, aspen/balm, etc). Has some small patches of conifer inclusions in NESW (between stands 403 & 407). Simply evaluate and treat with stand 31.
32	4199 - Other Mixed Upland Deciduous	Sapling Well	53.2	26	Immature	Was commercially cut in May/June of 1991 by Jim Carey under permit #27-88, "Hunter Walking Trail Block". All oak, cherry, ironwood, & cedar was left, as well as marked birch seed trees. Birch regeneration was not successful and balm be came the dominant species in this new stand. Perhaps deer browsing was a factor in birch failure here.
33	6124 - Lowland Spruce- Fir	Poletimber Medium	37.8	72	51-80	
34	4136 - Aspen, Mixed Conifer	Poletimber Medium	27.8	43	51-80	This stand was commercially cut in about 1974 by Holli Forest Products, Inc, permit # 19-70A , "Wild West Block". The access road used for logging has since been converted into a disked & seeded hunter walking trail.
35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	31.3	72	51-80	Drainage, ground is soft Could harvest to salvage fir.
36	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	9.0	6	Immature	Stand harvested January 2011 by Minerick Logging, TS#32-119-08-01 "Trash Can Fir Sale". 6 sq. ft. of white birch was left as was 14 sq. ft. of red pine. 2006: Stand consists of a knob or hill with larger birch dominating with a heavy fir understory. We will remove most of the overstory to release the fir, leaving a few birch for diversity and leaving the red/white pine as well. Leave potential cavity nesting site (large diameter often defective or with holes or cracks, dead limbs or tops, etc.) trees of any species.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4134 - Aspen, Spruce/Fir	Sapling Well	28.9	6	Immature	Stand cut in December-January of 2010-11 by Minerick Logging, TS#32-119-08-01 "Trash Can Fir Sale". Some smaller fir had to be cut to maneuver through the sale.
38	6120 - Lowland Cedar	Sawtimber Well	15.1	101	141-170	Maintain as a riparian buffer along Wild West Creek. This creek is a brook trout stream of historical significance.
39	4130 - Aspen	Sapling Well	16.3	17	Immature	Was commercially cut in May 2000 by Minerick Logging, Inc., permit # 101-98-01, "Wild West Creek North". Access was from the north on high ground. Oak, cherry, red & white pine were left. Road was bermed in Sec 16 where it forks from old RR grade road, following sale completion. Sale extended into Sec 21.
43	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	19.9	84	51-80	This stand was left in 1991 when stand 8 was cut to function as a riparian buffer.
44	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	16.8	6	Immature	Stand harvested during the winter's of 2009 and 2011 by Heidtman Logging, TS#32-111-08-01.
45	42330 - Upland Fir	Poletimber Well	13.1	42	111-140	This is simply natural regeneration not associated with any cutting. It may have been initiated by spruce budworm mortality of older fir in the area, or simply seeding in of once semi-open areas. It extends into the crmpt adjacent to the west.
48	4319 - Mixed Upland Forest	Poletimber Well	6.7	89	1-50	
49	4134 - Aspen, Spruce/Fir	Poletimber Well	2.7	92	81-110	This stand should have been cut under commercial sale # 19/70A when stand 20 was cut (in 1972), but spring breakup interrupted the harvest and this patch of timber was left. A rock outcrop occurs in stand also. Perhaps this stand could be reached from north or northeast when stand 44 or 22 is cut, but would require winter cutting.
50	4130 - Aspen	Poletimber Well	3.3	45	81-110	Was commercially cut in 1972 (winter cut) by Holli Forest Products, Inc., permit # 19-70A "Wild West Block". Beaver had flooded the creek to the south of stand 55 since this sale, making access a problem.
53	6120 - Lowland Cedar	Poletimber Medium	40.0	107	81-110	Most of this stand is cedar of varying in density. Fir understory is heavy in places.
55	4130 - Aspen	Poletimber Well	2.8	45	111-140	Was commercially cut in 1972 (winter cut) by Holli Forest Products, Inc., permit # 19-70A "Wild West Block". Beaver had flooded the creek to the south of stand 55 since this sale, making access a problem.
56	4130 - Aspen	Poletimber Medium	2.9	45	1-50	Was commercially cut in 1972 (winter cut) by Holli Forest Products, Inc., permit # 19-70A "Wild West Block".
57	6120 - Lowland Cedar	Poletimber Medium	32.2	92	111-140	Cedar stand, Density is variable and most trees are in the 1 to 2 stick range, some also have tag alder coverage.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	42340 - Upland Spruce/Fir	Poletimber Medium	13.7	45	81-110	Was commercially cut in 1972 (winter cut) by Holli Forest Products, Inc., permit # 19-70A "Wild West Block". Beaver had flooded the creek to the south of stand 55 since this sale, making access a problem.
59	6121 - Tamarack	Sapling Medium	6.5	36	51-80	
60	6120 - Lowland Cedar	Poletimber Medium	27.4	107	51-80	
61	42220 - Natural Jack Pine	Poletimber Well	4.0	59	81-110	Private land east of this stand has been cutover fairly recently, except for planted red pine which is 6 to 8 inch dbh at present. An old blue paint line is still visible, north-south. We should cut this stand in 2008 since we will want to access stand 15 through this stand. Note: The road on map traveling north-south down the Section line from the north is a winter road only. Best access would be from the east where ever the recent logging operation gained access (possibly the Tower Road). Due to the small acreage. Old railroad grade (Kates Grade) passing east-west through stand is quite grown over now. Sandy soil here.
62	42340 - Upland Spruce/Fir	Poletimber Medium	5.1	88	81-110	Small island of high ground in the swamp. Winter access needed. Cut with stand 15. Note that seed trees will be left.
64	4134 - Aspen, Spruce/Fir	Sapling Well	19.4	26	Immature	Was commercially cut in May/June 1991 by Jim Carey, under permit # 027-88-01, "Hunter Walking Trail Block". All oak, cherry, ironwood, & cedar was left as well as marked birch seed trees (but not in this stand). Some older aspen saplings did exist in the southwest part of this stand, dating back to Holli's 1975 cut. Somewhat two age classes of aspen/balm - some dating from 1975 cut & some from the 1991 cut. Almost a tossup in places with younger fir (in northeast portion of stand) as it could be typed F2 in places also.
65	4130 - Aspen	Poletimber Well	3.6	41	111-140	Harvested in 1976: TS# 18-74A.
67	6139 - Mixed Lowland Forest	Sapling Poor	8.1	49	Unspecified	Natural stand in that it didn't result from any cutting that the State did. Perhaps some natural event such as windthrow, etc. initiated this stand, or simply natural succession.
69	6122 - Black Spruce	Poletimber Well	5.2	49	Unspecified	Natural stand in that it didn't result from any cutting that the State did. Perhaps some natural event such as windthrow, etc. initiated this stand, or simply natural succession.
77	42330 - Upland Fir	Poletimber Poor	10.8	18	Immature	Was commercially cut in summer of 1999 by Minerick Logging, Inc., permit # 105-98-01, "Wild West Creek South Sale". Oak, cherry, cedar, red & white pine was left.
80	6121 - Tamarack	Sapling Well	7.8	23	Immature	This stand was cut with the timber to the north in the winter of 1993-94 by Minerick Logging, Inc., permit 014-87-01, "Swamp Stripcut Block". Heavy tamarack regen about 10-15 ft tall with spruce/fir understory beneath. Mostly grass ground cover.
407	42220 - Natural Jack Pine	Sapling Well	10.2	25	Immature	Very rocky soil. Opening is being invaded by conifers - mostly jack pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
40	330 - Low-Density Trees	2.6	No	Stand harvested during the winter's of 2009 and 2011 by Heidtman Logging, TS#32-111-08-01. Stand regeneration is sparse at this time.
41	622 - Lowland Shrub	16.3	No	Until 2005 when it was abandoned, this was the 100 foot wide cleared ELF row established around 1985 for submarine communication by the Navy. It is primarily wetland so, I didn't separate out the small acreages of high ground as grass openings. Undoubtedly some swamp conifers are regenerating naturally along this route and in time without interference they will restock portions of this stand.
46	6220 - Alder/willow	8.2	No	
51	6220 - Alder/willow	5.5	No	
54	6220 - Alder/willow	70.9	No	Buffer the riparian area along the Wild West Creek and its' tributary. Lowland brush/alder.
68	6220 - Alder/willow	46.3	No	lowland creek bottomland (brush/alder) serving as a riparian buffer to Wild West Creek.
70	6220 - Alder/willow	2.0	No	Lowland brush/alder. Water drains south across the old RR grade from this stand. (This is an extension of old Kates Grade).
73	6220 - Alder/willow	1.6	No	
75	330 - Low-Density Trees	2.1	No	Maintain opening as a wildlife opening per WLD spec.
76	330 - Low-Density Trees	1.5	Yes	Maintain as wildlife opening per WLD spec.
81	330 - Low-Density Trees	0.9	No	
402	330 - Low-Density Trees	2.1	Yes	Hunter walking trail passes through stand. Very rocky soil (I believe some rocks are just the tip of the iceberg). Opening being invaded by conifers - mostly jack pine.
403	330 - Low-Density Trees	3.8	Yes	Hunter walking trail passes through stand.
404	330 - Low-Density Trees	1.9	Yes	Hunter walking trail passes through stand.
405	330 - Low-Density Trees	1.3	Yes	
408	330 - Low-Density Trees	3.1	No	Very rocky soil. Opening being invaded by conifers - mostly jack pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
409	3302 - Low Density Conifer Trees	6.7	No	This stand was included in the commercial cut made in 1990 by Jay Mattila, permit #21-88, but for some reason it did not regenerate to aspen, and remained fairly open with a few upland conifers. Thus it was seperated out and typed as a grass opening. Oak & cherry were left in that cutting.