



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 285

Entry Year 2015

Acreage: 1,252

County Marquette

Management Area: Sand River Lake Plain

Revision Date: 08/05/2013

Stand Examiner: Jennifer Burnham

Legal Description:

T47N R23W Sections 20, 21 and 29; T47N R24W Section 24

Identified Planning Goals:

The goal is to manage for all uses simultaneously and to provide, enhance and perpetuate their uses through proper management. Proposed forest treatments will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

Soil and topography:

Compartment is mainly flat with several small creeks/seasonal drains in the lowland areas. The Chocolay River is found in the small part of the compartment in section 24. Soils are mainly Skanee-Gay and Zeba-Jacobsville Complex soils, both somewhat poorly drained with wind throw potential moderate to severe, 0-3% slopes. Stands with the better quality hardwood are found on the Munising-Skanee Complex having moderately well drained soils with 0-6% slopes.

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

The compartment consists of one main block with good access off a country road, forest roads and one road with a management easement on it. The small area in section 24 has walking access on an old railroad grade. This part of the compartment also contains a lease with the US Fish and Wildlife Service, historically a sea lamprey weir was operated at that location. The compartment is surrounded by State and PVT ownership.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The western portion of this compartment contains the Chocolay River. Stands located near the Chocolay River are not prescribed with any treatments in this YOE, so Fisheries has no concerns for that portion of the compartment at this time. The eastern portion of the compartment contains Le Vasseur Creek and East Branch. Both streams are warm transitional streams, but may serve as spawning reaches for warmwater species from Lake Le Vasseur. Any treatments near Le Vasseur Creek and East Branch should maintain a minimum of 100-ft buffers from the creeks. Any prescribed clear-cuts in stands along the creeks should maintain a minimum 200-ft buffer.

Wildlife Habitat Considerations:

Compartment 285 is found within the Sand River Lake Plain Management Area which is on a Till-floored Lake Plain in northeastern Marquette County. The State Forest covers about 15,900 acres and is mostly contiguous. The dominant natural communities are mesic northern forest and poor conifer swamps. Major forest cover types include northern hardwoods, aspen, and hemlock. This management area has many opportunities to enhance biodiversity. The management priorities for this area are to preserve and enhance the native biodiversity. Wildlife species considerations in the Sand River Lake Plain include managing to provide coniferous thermal cover for deer wintering complexes. The emphasis should be on hemlock in this management area as it represents approximately 20% of the WUP hemlock resource and is one of the few management areas where hemlock reliably regenerates and recruits reasonably well. Maintaining wildlife movement corridors along vernal and permanent riparian watercourses is also very important. Some of the most significant wildlife management issues in the management area are: habitat fragmentation; coarse woody debris; retain or develop large living and dead standing trees (for cavities); mesic conifer; mature forest; within-stand diversity; and deer wintering complexes.

The following have been identified as featured species for the Sand River Lake Plain Management Area: American Marten, Blackburnian Warbler, Red-Shouldered Hawk, and White-Tailed Deer. However, the featured species concept does not preclude the management for other wildlife species within a particular MA, rather it is simply intended to be as a tool to help prioritize or focus habitat management.

For lands purchased with Pittman–Robertson Act or Game and Fish funds, the primary objective of vegetative management must be wildlife restoration.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subgroups below the glacial drift. The Jacobsville was previously used as a building stone. A gravel pit is located in Section 17, and potential appears to be good. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

The compartment has one main block with good access off a country road and one road on the west side with a management easement on it. The small area in section 24 has walking access on an old railroad grade or through the leased land.

Survey Needs:

None

Recreational Facilities and Opportunities:

Lake Kawbawgam is just north of the compartment. The area is mainly used by small game hunters and trappers.

Fire Protection:

The compartment is under the Gwinn Management Unit for fire protection. The area has low potential for large fires because of the timber types.

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**

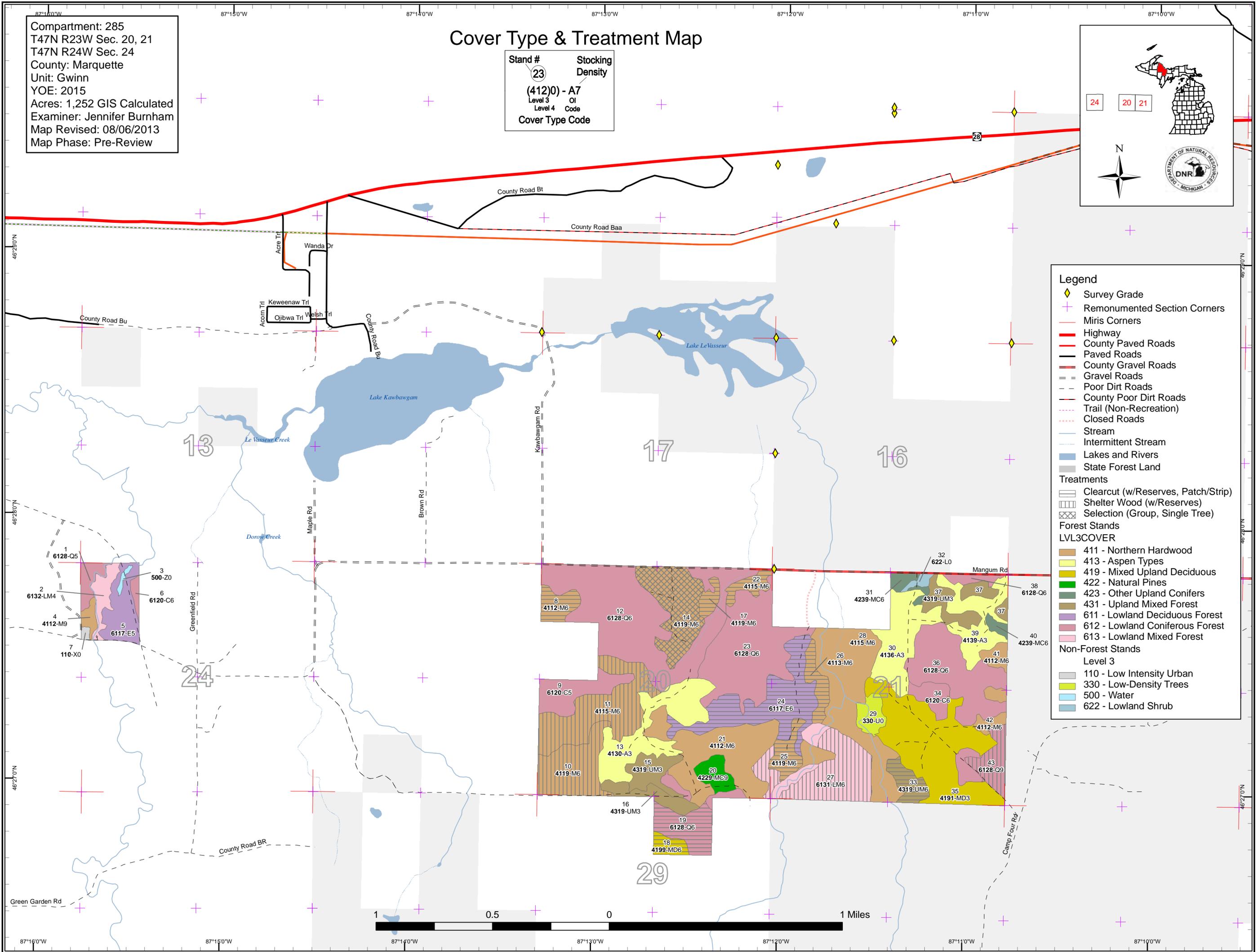
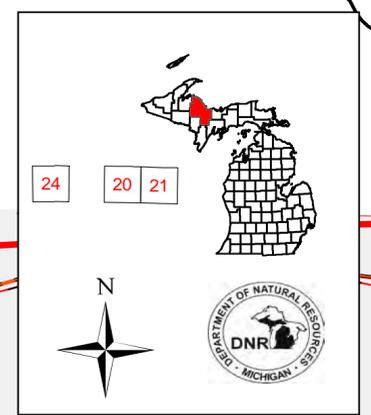
The following information is displayed, where pertinent, on the attached compartment maps:

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

Compartment: 285
 T47N R23W Sec. 20, 21
 T47N R24W Sec. 24
 County: Marquette
 Unit: Gwinn
 YOE: 2015
 Acres: 1,252 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 08/06/2013
 Map Phase: Pre-Review

Cover Type & Treatment Map

Stand #
 23
 Stacking
 Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Survey Grade
- Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)

Forest Stands

LVL3COVER

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 110 - Low Intensity Urban
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub



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Stand Boundary Map

Stand # 23
 Stacking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- ◆ Survey Grade
- ✚ Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

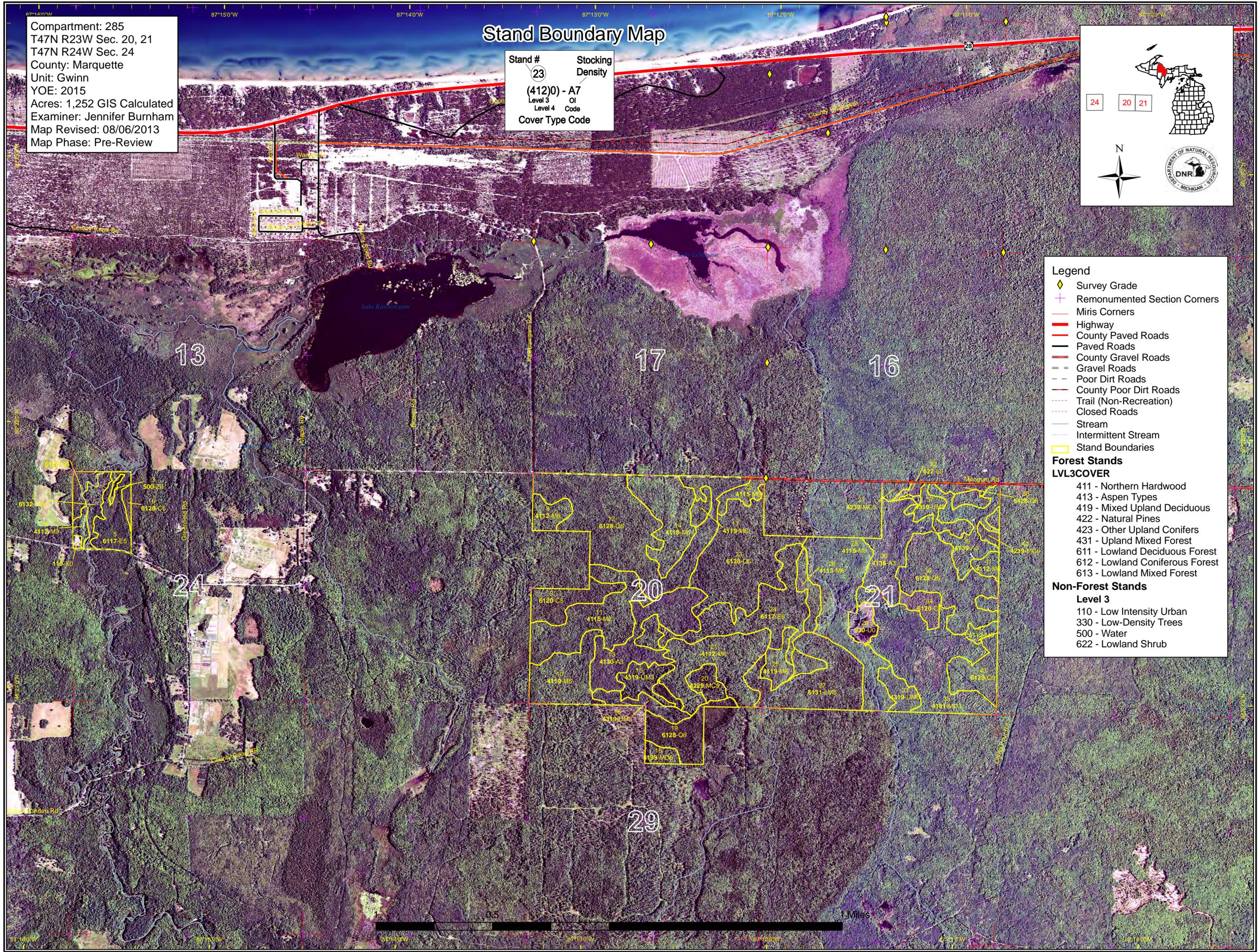
LVL3COVER

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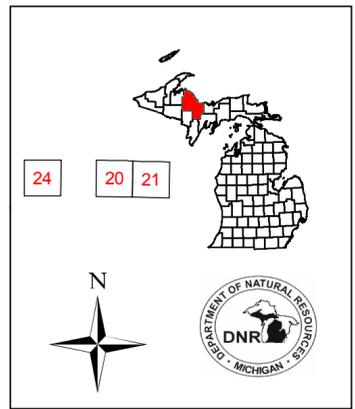


0.5 1 Miles

Compartment: 285
 T47N R23W Sec. 20, 21
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 County: Marquette
 Unit: Gwinn
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 Acres: 1,252 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 08/09/2013
 Map Phase: Pre-Review

Special Conservation Areas & Site Conditions Map

Stand # Stacking
 Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- + Remonumented Section Corners
- + Miris Corners
- Stand Boundaries
- ▭ Unavailable (Factor - Number)

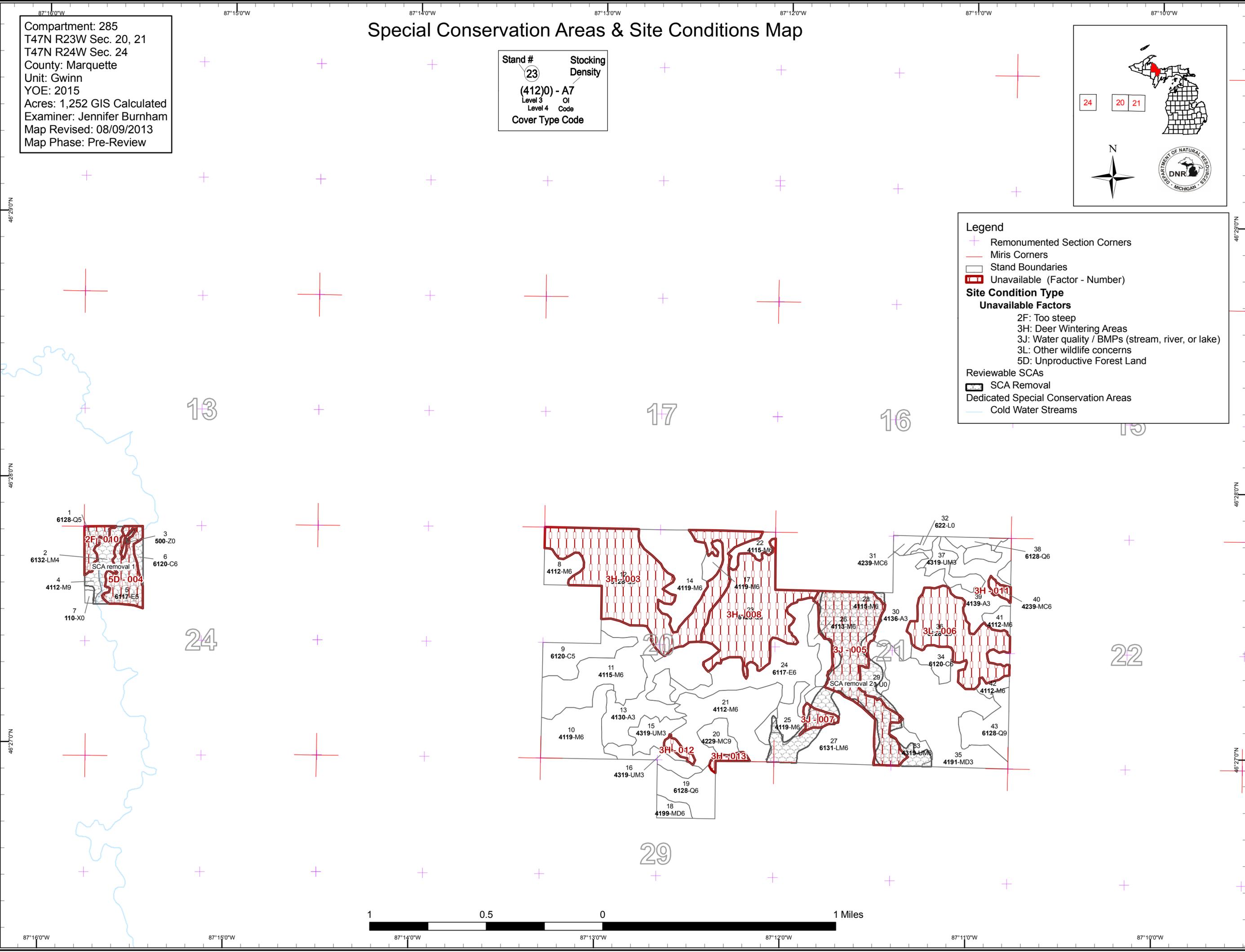
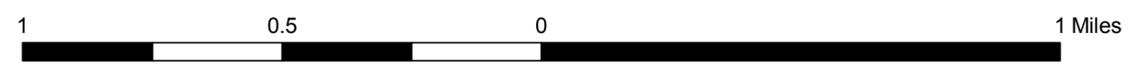
Site Condition Type

Unavailable Factors

- 2F: Too steep
- 3H: Deer Wintering Areas
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land

Reviewable SCAs

- ▭ SCA Removal
- ▭ Dedicated Special Conservation Areas
- Cold Water Streams

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 285 Year of Entry 2015

Jennifer Burnham : Examiner



	Age Class													Total	
	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 +		Uneven Age
Aspen	0	0	75	54	0	0	0	0	0	0	0	0	0	0	129
Cedar	0	0	0	0	0	0	0	0	11	29	0	0	0	0	40
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Conifers	0	0	0	0	0	6	0	24	192	41	86	0	0	0	349
Lowland Deciduous	0	0	0	0	0	0	0	0	85	0	0	0	0	0	85
Lowland Mixed Forest	0	0	0	0	0	0	0	64	0	11	0	0	0	0	76
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	94	0	0	0	0	0	7	0	0	0	0	0	102
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
Northern Hardwood	0	0	0	0	0	0	0	84	206	5	0	0	0	76	370
Upland Conifers	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	30	21	0	0	0	0	13	0	0	0	0	0	0	64
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	16	30	191	54	0	16	0	185	501	85	86	0	0	87	1252



Report 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2015

Compartment 285
Total Compartment Acres: 1,252

Acres by Treatment Type

Commercial Harvest - 376 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Coniferous Forest	25	0	0	17	0	0		42
Lowland Deciduous Forest	61	0	0	0	0	0		61
Lowland Mixed Forest	0	0	0	54	0	0		54
Mixed Upland Deciduous	7	0	0	0	0	0		7
Northern Hardwood	53	46	0	101	0	0		199
Upland Mixed Forest	13	0	0	0	0	0		13
Total	159	46	0	172	0	0		376



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	32285008-Cut	12.5	4112 - Maple, Beech, Cherry Association	High Density Pole	83	111-140	Harvest	Clearcut with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription do not cut hemlock, yellow birch, cedar or white pine.

Specs:

Other Stand on contract #32-322-06-01. Sale will need to be readvertised.

Comments:

Next

Steps:

Proposed

Start Date: 05/21/2013

10	32285010-Cut	39.7	4119 - Mixed Northern Hardwoods	High Density Pole	88	81-110	Harvest	Shelterwood	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
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Prescription Final harvest stand leaving cedar, hemlock, white pine and yellow birch. Winter harvest, no chipping.

Specs:

Other There are some pockets of lowland consider harvesting in winter or a dry summer to protect these soils.

Comments:

Next Regeneration count

Steps:

Proposed

Start Date: 10/01/2014

11	32285011- Cut_exp-0	60.8	4115 - Y.Birch, Hemlock NH	High Density Pole	88	81-110	Harvest	Shelter Wood with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Final harvest leaving hemlock, cedar, white pine and poor quality yellow birch. Winter harvest

Specs:

Other Some of the area has lowland indicators a winter harvest or harvesting during the dry time of the year should occur to protect the soils.

Comments:

Next Regeneration Check

Steps:

Proposed

Start Date: 10/01/2014

14	32285014-Cut	45.6	4119 - Mixed Northern Hardwoods	High Density Pole	86	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription Treat following the hardwood management guidelines. Do not cut the hemlock, cedar, poor quality yellow birch and green ash, but remove other conifer species present. Open area up around yellow birch and other shade intolerant species to add some diversity to the stand.

Specs:

Other

Comments:

Next Regeneration check

Steps:

Proposed

Start Date: 10/01/2014



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	32285017-Cut	6.4	4119 - Mixed Northern Hardwoods	High Density Pole	86	81-110	Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Do not cut hemlock, yellow birch, white pine or cedar										
<u>Specs:</u>										
<u>Other</u> Old stand 13, sale under contract 32-322-06-01. Sale will need to be readvertised										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 05/21/2013										
18	32285018-Cut	7.2	4199 - Other Mixed Upland Deciduous	High Density Pole	88	81-110	Harvest	Clearcut with Reserves	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Final harvest leaving hemlock and cedar.										
<u>Specs:</u>										
<u>Other</u> PVTto the south has been cut - regeneration looks good. N/S line was flagged in on the west side of the 40.										
<u>Comments:</u>										
<u>Next</u> Regeneration Check										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
19	32285019-Cut	25.0	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	95	111-140	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Final harvest the stand leaving hemlock and cedar, in the areas heavy to Pine mark leaving windfirm seedtrees for regeneration.										
<u>Specs:</u>										
<u>Other</u> The small northern part of the stand can be left for age diversity.										
<u>Comments:</u>										
<u>Next</u> Regeneration Check										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
22	32285022-Cut	9.0	4115 - Y.Birch, Hemlock NH	High Density Pole	83	111-140	Harvest	Clearcut with Reserves	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
<u>Prescription</u> Do not cut hemlock, cedar, yellow birch or white pine										
<u>Specs:</u>										
<u>Other</u> Old stand 8, sale under contract 32-322-06-01. Sale will need to be readvertised										
<u>Comments:</u>										
<u>Next</u> monitor for regeneration										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 05/21/2013										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	32285024-Cut	61.2	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	86	111-140	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Prescription</u> leave hemlock, cedar, yellow birch and white pine <u>Specs:</u> <u>Other</u> Old stand 36, 35, sale under contract 32-322-06-01- sale was given back and will need to readvertised <u>Comments:</u> <u>Next</u> monitor for regeneration <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 05/21/2013										
25	32285025-Cut	12.8	4119 - Mixed Northern Hardwoods	High Density Pole	86		Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Reserve all hemlock, yellow birch, cedar, white pine and ash if present. No chipping of tops. <u>Specs:</u> <u>Other</u> Old stand 34, 37, sale under contract 32-322-06-01 <u>Comments:</u> <u>Next</u> Monitor for regeneration <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 05/21/2013										
26	32285026-Cut	12.0	4113 - R.Maple, Conifer	High Density Pole	86	81-110	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
<u>Prescription</u> Reserve all Hemlock, yellow birch, cedar, black cherry, white pine and ash. No chipping. <u>Specs:</u> <u>Other</u> Old stand 10, sale under contract 32-322-06-01 <u>Comments:</u> <u>Next</u> Monitor for regeneration <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 05/21/2013										
27	32285027-Cut	54.4	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	78	81-110	Harvest	Shelter Wood with Reserves	6131 - Hemlock, White Pine, Maple, Birch	Cmpt. Review Proposal
<u>Prescription</u> Final harvest stand leaving cedar, hemlock, white pine and poor poor quality yellow birch. There is a small hardwood knob, when cut this area should be final harvested being mainly over mature red mape. <u>Specs:</u> <u>Other</u> Could be considered upland but there are some places of wet area where there is tag alder especially in the northern dogleg. Winter cut or dry <u>Comments:</u> year would be best for harvesting. <u>Next</u> Regeneration check <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	32285033-Cut	12.6	4319 - Mixed Upland Forest	High Density Pole	78	111-140	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Remove all species except the cedar, hemlock and white pine. Reserve elm and green ash

Specs:

Other Good species diversity, stand will come back like adjacent stand to the east.

Comments:

Next Regeneration check

Steps:

Proposed

Start Date: 10/01/2014

43	32285043-Cut	16.9	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	75	81-110	Harvest	Shelter Wood with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove all spp except for the hemlock and cedar, there is occasional Lg wp and those can be left. Could mark some residual deciduous

Specs: especially in the hemlock clumps.

Other

Comments:

Next Regeneration check

Steps:

Proposed

Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 376.0**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

**Total Treatment
Acreage Proposed: 0**

Report 5 – Site Conditions

Gwinn Mgt. Unit

Jennifer Burnham : Examiner

Compartment 285

Year of Entry 2015

Availability for Management

Total Acres	Acres			Dominant Site Conditions						
	Available	Not Available		No	5D	5C	3L	3J	3H	2F
129	129		Aspen	129						
40	40		Cedar	40						
349	62	287	Lowland Conifers	55		7	62		217	9
85	61	24	Lowland Deciduous	61	24					
76	76		Lowland Mixed Forest	76						
102	102		Mixed Upland Deciduous	102						
11	11		Natural Mixed Pines	11						
370	286	84	Northern Hardwood	286				84		
10	10		Upland Conifers	7		3				
64	64		Upland Mixed Forest	64						
1,235	841	394	Total Forested Acres	830	24	10	62	84	217	9
	68%	32%	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
003	Not Available	3H: Deer Wintering Areas	130				
Comments:							
004	Not Available	5D: Unproductive Forest Land	24				
Comments: Mainly Willow spp. very open and wet							
005	Not Available	3J: Water quality / BMPs (stream, river, or lake)	77	3L: Other wildlife concerns			
Comments: some areas could be treated later - leaving these areas for wildlife corridor areas until other harvests have regenerated.							

Report 5 – Site Conditions

Gwinn Mgt. Unit

Jennifer Burnham : Examiner

Compartment 285

Year of Entry 2015

006	Not Available	3L: Other wildlife concerns	62	5C: Delay treatment for age/size class diversity or exceptional site quality
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Comments:

Wait 10 more years for dbh to get better in the maple stems.

007	Not Available	3J: Water quality / BMPs (stream, river, or lake)	7	
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Comments:

008	Not Available	3H: Deer Wintering Areas	86	
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Comments:

010	Not Available	2F: Too steep	9	3J: Water quality / BMPs (stream, river, or
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Comments:

Steep slope to the river, the area on the top of the ridge is smaller sized timber and small acreage. Leave to protect soil.

011	Not Available	3H: Deer Wintering Areas	3	5C: Delay treatment for age/size class diversity or exceptional site quality
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Comments:

012	Not Available	3H: Deer Wintering Areas	4	5C: Delay treatment for age/size class diversity or exceptional site quality
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Comments:

Report 5 – Site Conditions

Gwinn Mgt. Unit

Compartment 285

Jennifer Burnham : Examiner

Year of Entry 2015

013	Not Available	3H: Deer Wintering Areas	3	5C: Delay treatment for age/size class diversity or exceptional site quality
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Comments:



Report 6 – 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
SCA removal 1	Potential Old Growth		SCA Removal	51.3
Comments area does not have Type I or II characteristics; remove and area will be protected by BMP's				
SCA removal 2	Potential Old Growth		SCA Removal	110.8
Comments does not meet type I or II POG, areas will be protected by BMP's				



Report 7 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	8.5	96	51-80	Area was cut over, old stumps still showing through the snow. Spruce and cedar good quality but not a heavily stocked stand with the amount of water in the area will not be heavily stocked. Most ash dead but not bugs, poor quality stand. The west edge has a steep slope with hardwoods. Not sure if this is a lowland or upland, it depends where you stand.
2	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	11.4	95		dock, marsh grasses through snow, very open grown spp
4	4112 - Maple, Beech, Cherry Association	High Density Log	4.6	96	81-110	40% slope or greater on 1/2 stand. Level area on the top of the hill has same spp but logged before and sm dbh. No tmt possible. Old notes say POG however there are signs of past cutting, with the slope and BMP issues there is potential for it to grown into POG.
5	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	23.8	86	1-50	Unproductive stand
6	6120 - Lowland Cedar	High Density Pole	3.0	91	51-80	Cedar doing best. wb,fir,ash unless in understory dead or dying. could treat if some cedar cut or if sm jobber looking for this kind of wood. Red oaser dogwd scattered. Old barb fence by grade, no sign of pvt line on east side.
8	4112 - Maple, Beech, Cherry Association	High Density Pole	12.5	83	111-140	
9	6120 - Lowland Cedar	Medium Density Pole	25.5	95	51-80	Signs of old harvest area, the larger diameter cedar present is what was not cut in the past. High water table in the stand which is making for slower growth- poor to fair quality. Not much deer use in this stand and those farther to the south. West side has an area of fully stocked cedar 15-20' tall.
10	4119 - Mixed Northern Hardwoods	High Density Pole	39.7	88	81-110	Final harvest stand leaving cedar, hemlock, white pine and poor quality yellow birch. Stand is over mature with spp starting to fall out because of age.
11	4115 - Y.Birch, Hemlock NH	High Density Pole	67.9	88	81-110	Final harvest leaving hemlock, cedar, white pine and poor quality yellow birch. Some of the area has lowland indicators a winter harvest or harvesting during the dry time of the year should occur to protect the soils.
12	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	130.2	83	81-110	There are some areas where blow down in clumps or single tree is occurring. Great regeneration of hemlock in these areas. Would like to do some cuts in the stand to perpetuate the regeneration and break up the age class.
13	4130 - Aspen	High Density Sapling	53.8	37		
14	4119 - Mixed Northern Hardwoods	High Density Pole	45.6	86	111-140	
15	4319 - Mixed Upland Forest	High Density Sapling	16.6	15		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4319 - Mixed Upland Forest	High Density Sapling	13.7	15	1-50	Stand cut under TS #17-95. Regeneration is 10-40' tall, healthy with residual large white pine and other conifers.
17	4119 - Mixed Northern Hardwoods	High Density Pole	6.4	86	81-110	
18	4199 - Other Mixed Upland Deciduous	High Density Pole	7.2	88	81-110	Final harvest leaving hemlock and cedar.
19	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	32.1	95	111-140	Final harvest the stand leaving hemlock and cedar, in the areas heavy to Pine mark leaving windfirm seedtrees for regeneration. Nice quality pine - spruce is fair. The small northern part of the stand can be left for age diversity.
20	42290 - Natural Mixed Pine	High Density Log	11.5	Uneven Age	51-80	
21	4112 - Maple, Beech, Cherry Association	High Density Pole	61.0	Uneven Age	81-110	looks good.
22	4115 - Y.Birch, Hemlock NH	High Density Pole	9.0	83	111-140	
23	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	86.4	100	141-170	
24	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	61.2	86	111-140	
25	4119 - Mixed Northern Hardwoods	High Density Pole	12.8	86		
26	4113 - R.Maple, Conifer	High Density Pole	12.0	86	81-110	
27	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	64.3	78	81-110	
28	4115 - Y.Birch, Hemlock NH	High Density Pole	83.6	78	111-140	many parts of this stand could be treated. Should be removed from POG status as all the area was cut over 80-100 years ago. There would be some areas that could not be cut b/c of BMP issues. Regeneration will not be a problem.
30	4136 - Aspen, Mixed Conifer	High Density Sapling	42.2	22		Cut at the same time as the other imature aspen to the east however trees per acre are a bit lower, there is more ground that is wet where conifer trees are more the dominate spp, there are also areas where the canopy closure is pretty low. Still the regenertion is more than acceptable. The very southern tip some cedar was cut out. There was regenertion present but b/c of the snow not sure how much.
31	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	6.7	54	1-50	

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Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 285
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	4319 - Mixed Upland Forest	High Density Pole	12.6	78	111-140	
34	6120 - Lowland Cedar	High Density Pole	11.5	87	51-80	
35	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	94.4	20		
36	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	61.7	88	81-110	would be nice to cut but the rm in some reas is 6-8dbh, could wait 10 more yrs to see if it gets bigger
37	4319 - Mixed Upland Forest	High Density Sapling	21.4	21		Stand cut in 1992 with sale #03-86, the same sale that is with the adjacent stand. These two stands are were the same but this area came in thicker to conifer. There is some slight elevation changes and larger white pine and hemlock that were there and left.
38	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	5.7	59	1-50	
39	4139 - Aspen, Mixed Deciduous	High Density Sapling	32.8	21		Stand was cut in 1991, sale # 03-86. Stand came back very well. Good mix of species, not just aspen. Past notes mention hybrid aspen planted along the road; did not see any aspen that looked better than the other regeneration in the middle of the stand.
40	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	3.4	59	111-140	In the more open canopy areas regeneration of cedar, hemlock and other species taking place.
41	4112 - Maple, Beech, Cherry Association	High Density Pole	6.4	Uneven Age	81-110	Potential for final harvest with reserves to release regeneration from '99 timber sale.
42	4112 - Maple, Beech, Cherry Association	High Density Pole	8.2	Uneven Age	81-110	Stands were treated with adjacent compartment timber sale 29-98-01, continue to treat with Cmppt 288 in 2018. Good regeneration, scattered hemlock along the edges with a couple lg white pine.
43	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	24.1	75	81-110	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	50 - Water	1.5	No	Unspecified	
7	11 - Low Intensity Urban	1.3	No	Unspecified	
29	3303 - Mixed Low Density Trees	10.6	No	Unspecified	old cut slowwwwwlly coming back b/c of water table. there is an area that holds water
32	6220 - Alder/willow	3.0	No	Unspecified	Hlستosols soils, holds water - some pockets of poor quality wp, hem, red maple.