



**Gwinn Forest Management Unit  
Compartment Review Presentation  
Compartment 282 Entry Year: 2014  
Compartment Acreage: 1,208 County: Marquette**

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**Revision Date:** 8/20/2012

**Stand Examiner:** Ben Travis

**Legal Description:** T47N R23W, Sec. 11-14

**RMU (if applicable):** Sand River Lake Plain Management Area

**Management Goals:** Planning will focus on wildlife habitat management, timber management, and fisheries management. Public access, forest roads, forest regeneration, forest health, forest fire management, forest recreation, stream crossings, water quality and any resource damage are critical assessments considered during the forest mapping and inventory process. Overall management strives to provide for a diverse, healthy and productive forest through planning and implementation of sustainable, proper forest treatments.

**Soil and Topography:** Predominantly wet loams in the south grading to coarser sands to north. Sand dune ridges of moderate to steep slopes occur in north. The land is very level from center to south of compartment.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** State land borders the compartment on the south edge. A large, private, commercial gravel pit lies adjacent to the southwest side of the compartment. Small private parcels are against the northwest, north, and northeast edges of the compartment. Another private, large, commercial gravel pit extends between Sand Lake and the compartment boundary to the northeast. Forest Land Group property is adjacent to the southeast edge of the compartment. The Alger county line lies against the east edge of the compartment. Most dwellings are year-around residences.

**Unique, Natural Features:** Osprey and old eagle nest record to the west in section 11. Sand River harbors potential for wood turtle. This compartment contains the James Jeske Sand River Flooding (artificial) and marsh. Potential for marsh birds: american bittern, osprey, yellow rail and black tern.

**Archeological, Historical, and Cultural Features:** There is a HAL database record for an archeological site within compartment.

**Special Management Designations or Considerations:** A special conservation area for wildlife management is designated around the perimeter of the former flooding.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** Featured species include American marten, Blackburnian warbler, and red-shouldered hawk.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel and thin to discontinuous glacial till over bedrock, probably part of an end

moraine of coarse-textured till. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone. A gravel pit is located in Section 14, and potential appears to be good in the southern part of the compartment. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:** Mangum road, Sand River Road and the snowmobile trail provide the main access routes to the compartment. DNR forest roads are fairly limited, and access to the west side of the compartment is restricted by private property and saturated, unstable soils. The Jeske Flooding parking area is serviced by a public easement across private land to the west of Sand River Road.

**Survey Needs:** At least two new survey monuments are needed.

**Recreational Facilities and Opportunities:** A designated snowmobile trail passes through the compartment to the north. The North Country Trail meanders through the north and east portions of the compartment. A parking lot and boat ramp for the Jeske Flooding are located in Section 12. Hunting, fishing, snowmobile riding, birdwatching, berry picking and hiking are important uses of this area.

**Fire Protection:** No special considerations.

**Additional Compartment Information:**

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - ◆ **Cover Type by Age Class**
  - ◆ **Cover Type by Management Objective**
  - ◆ **Compartment Volume Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand numbers, cover types**
  - ◆ **Proposed treatments**
  - ◆ **Proposed road access system**
  - ◆ **Suggested potential old growth**

87°80'W

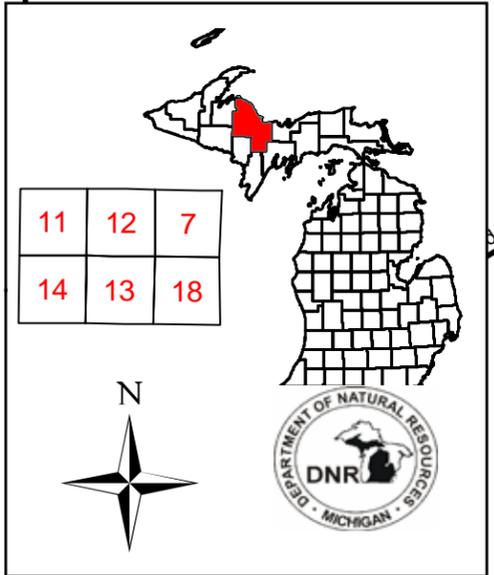
87°70'W

87°60'W

# Cover Type & Treatment Map

Compartment: 282  
 T47N R22W Sec 07, 18  
 T47N R23W Sec. 11-14  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2014  
 Acres: 1,208 GIS Calculated  
 Examiner: Ben Travis  
 Map Revised: 09/21/2012  
 Map Phase: Pre-Review

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



### Legend

- Survey Grade Corners
- Remunemented 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
- Dam
- Recreation
- Bridges
- Stream
- Intermittent Stream
- Hiking Trail
- ORV Trail
- Snowmobile Trail
- Hiking Trails
- ORV Trails
- Snowmobile Trails
- Lakes and Rivers
- State Forest Land

### Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)
- Other Treatment - See Comments

### Forest Stands

**Level 3**

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

### Non-Forest Stands

**Level 3**

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil

46°30'0"N

46°29'0"N

46°28'0"N

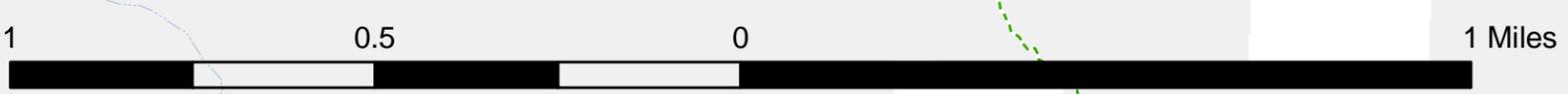
46°27'0"N

46°30'0"N

46°29'0"N

46°28'0"N

46°27'0"N



87°80'W

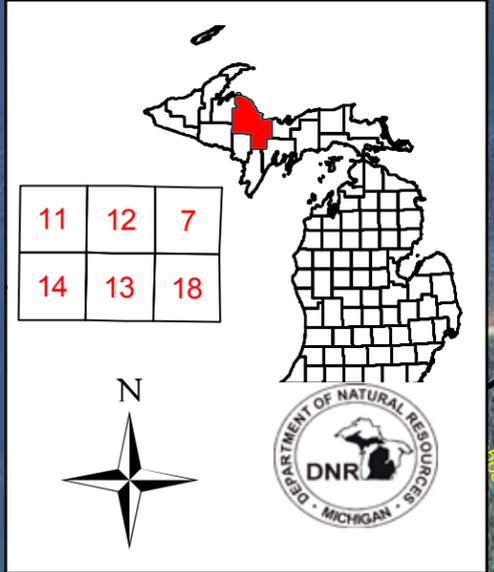
87°70'W

87°60'W

# Stand Boundary Map

Compartment: 282  
 T47N R22W Sec 07, 18  
 T47N R23W Sec. 11-14  
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- Intermittent Stream
- Hiking Trails
- ORV Trails
- Snowmobile Trails
- Hiking Trail
- ORV Trail
- Snowmobile Trail
- Stand Boundaries

### Forest Stands

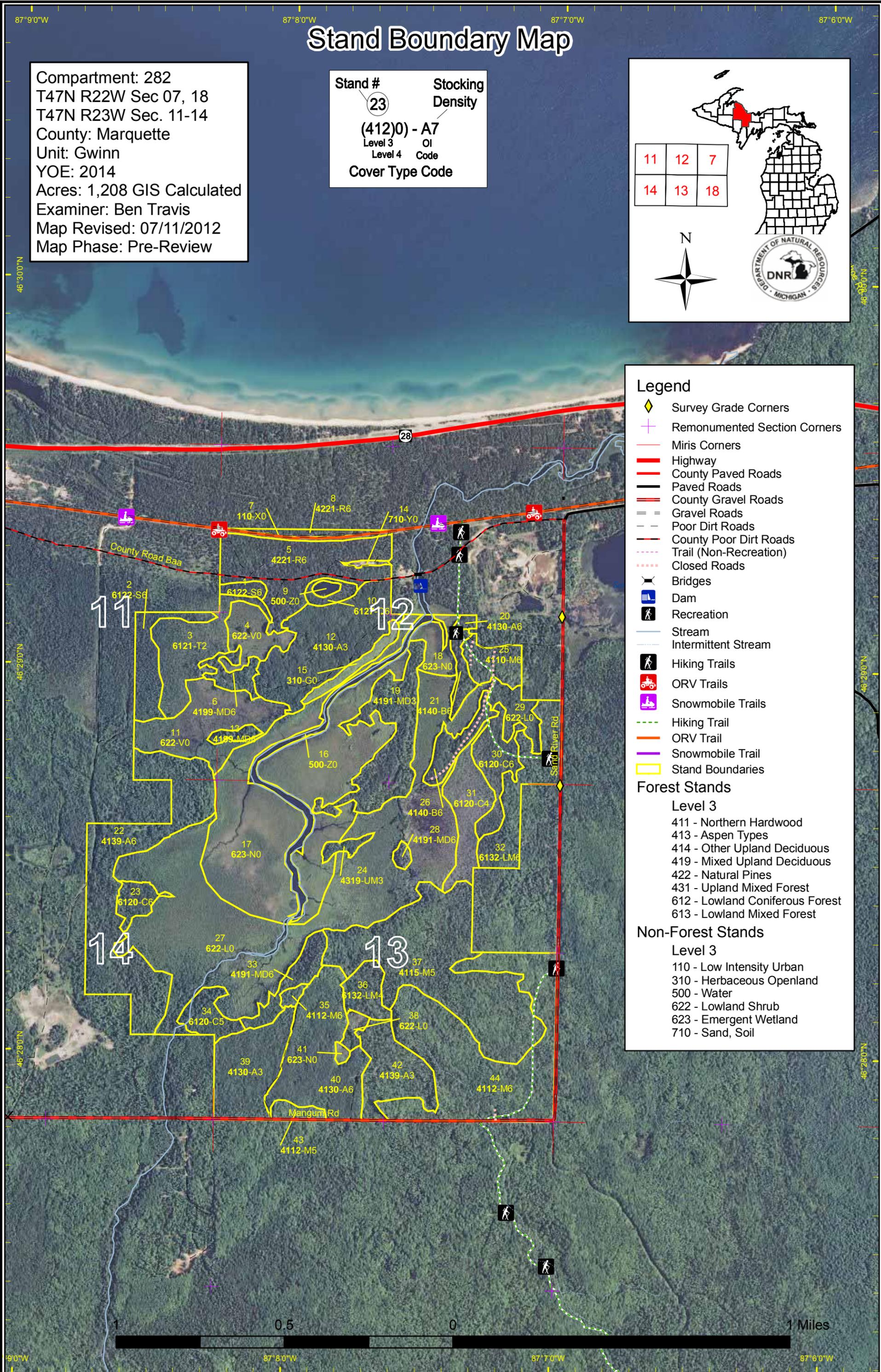
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### Non-Forest Stands

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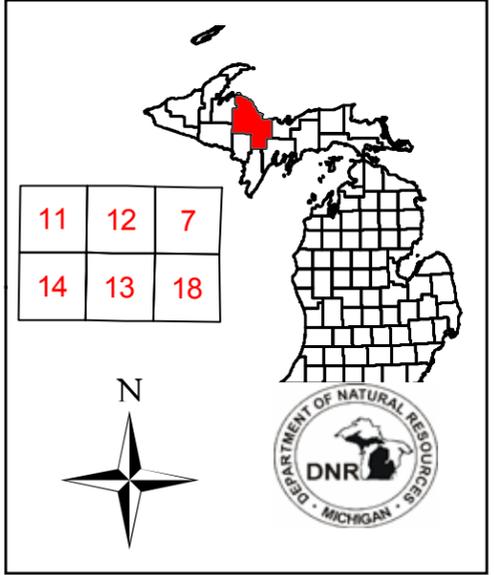
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# Dedicated & Proposed Special Conservation Area Map

Compartment: 282  
 T47N R22W Sec 07, 18  
 T47N R23W Sec. 11-14  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2014  
 Acres: 1,208 GIS Calculated  
 Examiner: Ben Travis  
 Map Revised: 09/14/2012  
 Map Phase: Pre-Review

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



## Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Proposed Special Conservation Areas**
- SCA - Special Conservation Area
- SCA Removal
- Dedicated Special Conservation Areas**
- Cold Water Streams
- Boat Access Sites

## Forest Stands

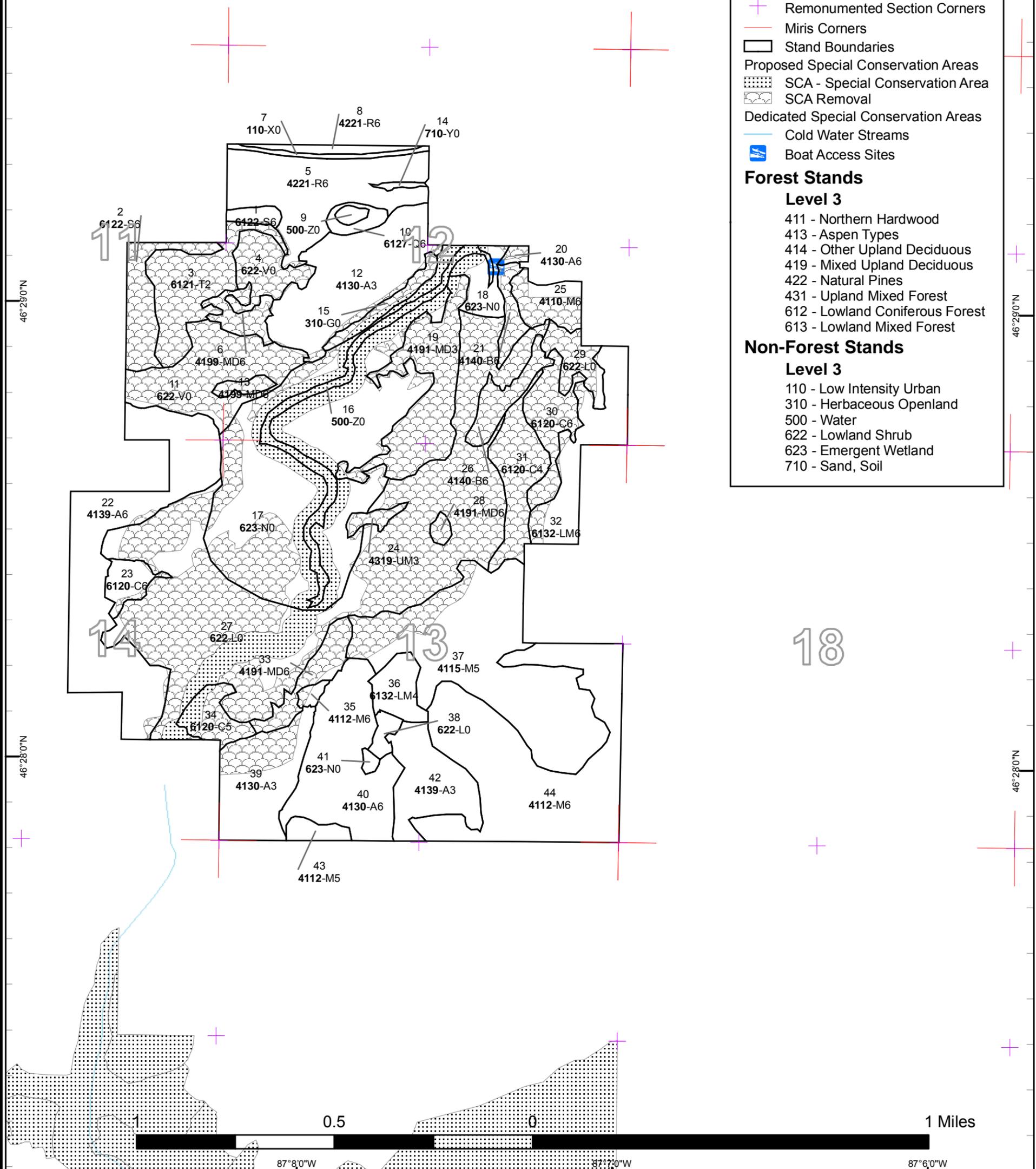
### Level 3

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## Non-Forest Stands

### Level 3

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- 710 - Sand, Soil



**Table 1 – Total Acres by Cover Type and Age Class**



	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	27	34	104	0	0	80	0	0	0	0	0	0	0	0	245
Bog	54	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Cedar	0	0	0	0	0	0	0	25	22	11	0	0	0	0	58
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Lowland Mixed Forest	0	0	0	0	11	30	0	0	0	0	0	0	0	0	41
Lowland Shrub	218	0	0	0	0	0	0	0	0	0	0	0	0	0	218
Lowland Spruce/Fir	0	0	0	0	3	0	17	0	0	0	0	0	0	0	20
Marsh	157	0	0	0	0	0	0	0	0	0	0	0	0	0	157
Mixed Upland Deciduous	0	0	39	0	12	2	0	8	3	0	0	0	0	0	65
Northern Hardwood	0	0	0	0	0	96	2	111	0	0	0	0	0	0	209
Paper Birch	0	0	0	0	0	11	0	0	7	0	0	0	0	0	17
Red Pine	0	0	0	0	5	50	0	0	0	0	0	0	0	0	55
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tamarack	0	0	30	0	0	0	0	0	0	0	0	0	0	0	30
Upland Mixed Forest	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
<b>Total</b>	<b>488</b>	<b>37</b>	<b>173</b>	<b>0</b>	<b>36</b>	<b>268</b>	<b>19</b>	<b>145</b>	<b>32</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1208</b>



## Table 2 – Proposed Treatment Summaries

**Gwinn Mgt. Unit**  
**Year of Entry 2014**

**Compartment 282**  
**Total Compartment Acres: 1208**

### Acres by Treatment Type

Commercial Harvest - 148	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 7	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	80	0	0	0	0	0	80
<b>Northern Hardwood</b>	0	12	0	0	0	0	12
<b>Paper Birch</b>	0	0	7	0	0	0	7
<b>Red Pine</b>	0	0	0	50	0	0	50
<b>Total</b>	80	12	7	50	0	0	148



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	32282005-Cut	49.9	42210 - Natural Red Pine	High Density Pole	50	111-140	Harvest	Shelterwood	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription --Ben Travis : 08/20/2012 comments: It was determined at pre-review to leave some large bigtooth aspen if present.

Specs:

Mark overstory down to 10 to 50 square feet of residual stems. Patches of shelterwood will be interspersed with seed tree areas to release the well-stocked advance pine regeneration. Areas of denser red pine poletimber may be marked to a higher residual stocking. Some scattered white birch, aspen and spruce will be left. All oak will be retained. White pine may be marked for removal, but will be favored if possible. Cedar, hemlock and yellow birch will be retained if present. Areas with steep ridges may be excluded from the sale.

Other --Ben Travis : 08/20/2012 comments: It was determined at pre-review to not allow chipping due to wildlife feature species concerns.

Comments:

Harvest will occur during the snow-free period to avoid potential conflicts with snowmobile trail. Special concern will be given for the advance pine regeneration during the logging operation.

Next Follow-up treatment with a regeneration survey as provided for in "Work Instruction 2.1 Reforestation". Red pine, white pine, jack pine and aspen are acceptable regeneration.

Steps:

Proposed  
Start Date: 10/01/2013

21	32282021-Cut	6.6	4140 - Other Upland Deciduous	High Density Pole	82	111-140	Harvest	Seed Tree with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
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Prescription --Ben Travis : 08/20/2012 comments: A decision was reached at the pre-review to retain some large bigtooth aspen.

Specs:

Leave enough scattered white birch to create a seed tree distribution where possible. Leave most spruce. Leave some scattered overstory cherry and maple. Leave any white pine, cedar, hemlock, yellow birch or oak if present. Retain some small clumps of aspen and those stems with cavities or other attributes which promote wildlife. Leave a buffer along the west edge of stand and parking area. Provide for scattered trees to be left along the North Country Trail.

Other --Ben Travis : 08/20/2012 comments: A decision was reached at the pre-review to not allow chipping due to wildlife feature species concerns.

Comments:

This stand is currently coded as potential old growth. This designation should be changed to a Special Conservation Area which promotes game and non-game wildlife habitat along the Sand River. Harvest operations will be limited to the winter to avoid possible conflicts with recreational users.

Next Follow-up treatment with a regeneration survey as provided for in "Work Instruction 2.1 Reforestation". Aspen, maple, white birch, yellow birch, cherry, white pine, fir, spruce and oak are considered acceptable regeneration.

Steps:

Proposed  
Start Date: 10/01/2013

22	32282022-Cut	78.0	4139 - Aspen, Mixed Deciduous	High Density Pole	57	81-110	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove aspen leaving some small retention patches. Incorporate some mature spruce, aspen, cherry and white birch into the retention patches and red line. Leave all white pine. Retain cedar, hemlock, yellow birch and oak if present.

Specs:

Other Permission to use private roads to access sale needs to be secured.

Comments:

Next Follow-up treatment with a regeneration survey as provided for in "Work Instruction 2.1 Reforestation". Aspen, white birch, maple, fir, spruce, oak and pine are considered acceptable regeneration.

Steps:

Proposed  
Start Date: 10/01/2013



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	32282025-Cut	12.2	4110 - Sugar Maple Association	High Density Pole	75	141-170	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription: Selectively mark individual trees for harvest to promote an all-aged stand structure. Target basal areas will be 80 to 90 square feet of residual stocking. Leave spruce unless needed for logging equipment operability. Favor retaining basswood and black cherry where possible. Retain cedar, white pine, hemlock or oak if present. Provide for cavity development where possible.

Other  
Comments: --Ben Travis : 08/20/2012 comments: A decision was reached at the pre-review to not allow chipping due to wildlife feature species concerns.

Stand is currently considered as potential old-growth. It is recommended that this designation be removed. Special consideration will be given to protecting the North Country Trail. The harvest will occur during the winter to avoid potential conflicts with recreational users.

Next  
Steps: Follow-up treatment with a regeneration survey provided for in "Work Instruction 2.1 Reforestation". Acceptable regeneration includes maple, cherry, birch, spruce, hemlock and oak.

Proposed  
Start Date: 10/01/2013

15	NF_32282015- NonFor	6.8	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	3205 - Mixed Upland Shrub	Cmpt. Review Proposal
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Prescription: If funds or personnel are available, this opening will be scheduled for maintenance. Maintenance may include wildlife plantings (rye or other suitable wildlife mix), shrub or tree plantings, required yearly maintenance, brush removal, and/or other maintenance practices (mowing, etc.) as required.

Other  
Comments: Possible location for a cooperative project with hunters or sportsmen groups.

Next  
Steps:

Proposed  
Start Date: 10/01/2013

**Total Treatment  
Acreage Proposed: 153.4**

**Table 4 -- Treatments Prescribed with a Limiting Factor**



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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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#Error

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

**Total Treatment Acreage Proposed: 0**

Out of YOE -- Treatments  
Prescribed with No Limiting Factor

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<u>Prescription</u> <u>Specs:</u>									
<u>Other</u> <u>Comments:</u>									
<u>Next</u> <u>Steps:</u>									
<u>Proposed</u> <u>Start Date:</u> #Error									

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**Total Treatment  
Acreage Proposed: 0**



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6122 - Black Spruce	High Density Pole	3.5	40	111-140	healthy black spruce canopy.
2	6122 - Black Spruce	High Density Pole	16.9	65		
3	6121 - Tamarack	Medium Density	29.8	25		Site is too poorly drained to be productive.
5	42210 - Natural Red Pine	High Density Pole	49.9	50	111-140	Heavy huckleberry cover.
6	4199 - Other Mixed Upland Deciduous	High Density Pole	8.4	78	81-110	Overall, site is upland, though some low areas with tag alder. Very thick understory. Very mixed composition to overstory. Black spruce, cedar and white pine poles present. White pine saplings found.
8	42210 - Natural Red Pine	High Density Pole	4.8	42		
10	6127 - Lowland Pine	High Density Pole	4.2	45		Stand encircles small pond. Scenic. Jack pine poles are present. Tamarack, white birch and trembling aspen saplings found.
12	4130 - Aspen	High Density Sapling	52.8	24	1-50	1/3 to 1/2 of aspen stems per plot are sub-merchantable size. Sugar maple saplings show up towards north end of stand.
13	4199 - Other Mixed Upland Deciduous	High Density Pole	3.2	85	81-110	"Island" surrounded by non-forested lowlands. Scattered red and white pine in overstory.
19	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	38.8	29		"Island" surrounded by non-forested lowlands. Very densely stocked. Overstory ranges from 24 to 30 feet tall. Stand will type out as a F6 next entry. White pine, red pine and black cherry saplings present.
20	4130 - Aspen	High Density Pole	1.7	55	51-80	Boat launch and parking area for Sand River Flooding. James Jeske memorial boulder at trailhead. Aspen snags. White pine poles found.
21	4140 - Other Upland Deciduous	High Density Pole	6.6	82	111-140	White birch is in decline/overmature. with top die-back and snags. White birch are smaller diameter to southeast. Black cherry poles found.
22	4139 - Aspen, Mixed Deciduous	High Density Pole	78.0	57	81-110	Pockets of elevated aspen mortality. Aspen is overmature. Aspen range from 3 to 4 sticks tall. White pine, sugar maple and black cherry poles present. White birch, white spruce, white pine, sugar maple, black cherry and beech saplings found.
23	6120 - Lowland Cedar	High Density Pole	7.7	75		Fringe of C3 extending out into lowland to east, White birch and white pine saplings found. White birch, red maple and white pine poles present.
24	4319 - Mixed Upland Forest	High Density Sapling	3.4	15		"Island" within wetland. Very thick stocking.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4110 - Sugar Maple Association	High Density Pole	12.2	75	141-170	Aspen is large diameter and overmature. Nice sugar maple sawlogs. White spruce, ironwood and basswood are infrequent overstory associates.
26	4140 - Other Upland Deciduous	High Density Pole	10.8	54	81-110	Overall, white birch are healthy. Nice form to white birch. Average diameter of white birch declines to north. Small patches of F2 in understory to north. Small wetland inclusion of tamarack poles. White spruce and cedar poles present. White spruce, sugar maple and black cherry saplings found.
28	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.0	57		"Island" in lowland.
30	6120 - Lowland Cedar	High Density Pole	17.5	71	51-80	Sparse crowns on many cedar. Cedar healthier to north. Poor form to cedar boles.
31	6120 - Lowland Cedar	Low Density Pole	22.1	85		Flooded stand. Around 60% of the cedar is dead. The live cedar have very sparse crowns.
32	6132 - Mixed Lowland Forest with Cedar	High Density Pole	29.8	57	141-170	Stand is roughly 50% upland, 50% lowland. Patches of Canada yew. Groves of hemlock and cedar with mix of red maple, yellow birch and fir in-between. Hemlock crowns very healthy. Nice patches of cedar and hemlock saplings. Cedar well-represented in all forest strata. Black spruce poles present.
33	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	12.1	40	51-80	1 to 3 stick fir. Cedar poles present. Yellow birch saplings found.
34	6120 - Lowland Cedar	Medium Density Pole	10.8	92	200+	Healthy, full cedar crowns. Most cedar trunks have sweep. Pockets of nice cedar regeneration. White birch poles found. Pocket of black ash poletimber to northeast.
35	4112 - Maple, Beech, Cherry Association	High Density Pole	2.1	60	81-110	Cedar, hemlock, black cherry and white birch are infrequent overstory associates.
36	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	11.0	45		Very patchy timber, within E3. Yellow birch and white pine saplings found. 3 to 6 foot tall cedar regeneration present.
37	4115 - Y.Birch, Hemlock NH	Medium Density Pole	95.6	50		Very thick fir understory.
39	4130 - Aspen	High Density Sapling	33.9	15		Aspen range from 24 to 30 feet tall. Good stocking levels. Infrequent aspen and red maple poles. Tag alder and cedar saplings found to north. White birch and black cherry saplings present. Hemlock poles and sawtimber located.
40	4130 - Aspen	High Density Pole	51.2	25	51-80	1 stick aspen. High quality aspen stand. White spruce poles found. Black cherry spalings present.
42	4139 - Aspen, Mixed Deciduous	High Density Sapling	27.2	7		Aspen is around 24 feet tall. Overall stocking of regeneration adequate. White birch, hemlock and white spruce saplings present. Hemlock poles found. Mountain maple.

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Gwinn Mgt. Unit

## 5 – Forested Stands

Compartment: 282

Year of Entry: 2014



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4112 - Maple, Beech, Cherry Association	Medium Density Pole	4.8	70	51-80	Yellow birch and trembling aspen poles present. Also found hemlock sawtimber.
44	4112 - Maple, Beech, Cherry Association	High Density Pole	94.5	72	81-110	Nice white pine saplings, 3 to 6 feet tall. Scattered, small hemlock groves. Hemlock crowns vigorous. Scattered white ash sawtimber and poletimber along NCT to east. 24 inch diameter beech with no sign of BBD. Many 1/2 stick sugar maple "poles" to east. Striped maple. Very diverse species composition in all strata. Pockets of F3 understory.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	6225 - Bog	15.0	No	Unspecified	Leatherleaf. Widely spaced white pine, red pine and black spruce saplings.
7	11 - Low Intensity Urban	3.7	N/A	Unspecified	Former railroad grade. Snowmobile trail.
9	50 - Water	1.9	No	Unspecified	Bog pond.
11	6225 - Bog	39.1	No	Unspecified	Leatherleaf.
14	710 - Sand, Soil	1.1	No	Unspecified	Sand borrow pit. Widely scattered red pine and white pine sawtimber. ATV usage is high.
15	3105 - Mixed Upland Herbaceous	6.8	Yes	Unspecified	Scattered ninebark bushes. High quality forage - birdsfoot trefoil and timothy. Some black cherry saplings. Thimbleberry.
16	50 - Water	17.9	No	Unspecified	Sand River.
17	6233 - Wet Meadow	146.2	No	Unspecified	
18	6233 - Wet Meadow	10.0	No	Unspecified	
27	6220 - Alder/willow	203.7	No	Unspecified	Bog birch and meadowsweet found in patches. Patches of marsh grass. Nice cedar regeneration (10 feet tall) along west edge.
29	6220 - Alder/willow	10.6	No	Unspecified	Black ash saplings and widely spaced black spruce and red maple poletimber.
38	6220 - Alder/willow	3.6	No	Unspecified	Narrow stream. Sparse 6 to 8 inch dbh black ash.
41	6233 - Wet Meadow	1.3	No	Unspecified	Old beaver dam and small pond of water. Infrequent white birch, red maple, fir and balsam poplar saplings.

**7 – 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.

<b>Stand</b>	<b>SCA Type</b>	<b>SCA Name</b>	<b>Acres</b>	<b>Comments</b>
multiple - see	Unique Site - SCA	32282_SCA	84.5	RAU added SCA
multiple - see	SCA Removal	32282_SCA_Removal	487.2	RAU added SCA



**8 – 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.