



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment #256 Entry Year: 2012
Compartment Acreage: 1001 County: Marquette**

Revision Date: 7/27/2010

Stand Examiner: Dean Wilson

Legal Description: T45N-R27W, section 6, T46N-R27W, sections 31, 32.

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Mixed use.

Management Goals: Forest production.

Soil and Topography: Soils range from gravelly coarse sand to fine sandy loam. Terrain is predominately level with some areas rolling to somewhat hilly.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is bounded by industrial and non-industrial forest ownerships.

Unique, Natural Features: Jack pine plains.

Archeological, Historical, and Cultural Features: N\A

Special Management Designations or Considerations: N\A

Watershed and Fisheries Considerations: N\A

Wildlife Habitat Considerations: Voelker Plains Management Area. Historic fire disturbance maintained the pine and barrens communities found here with a significant portion of the area maintained as large opening complexes. These openings and patchy cover-types historically provided habitat for sharptail grouse, and currently are used by grassland/barrens species such as northern harrier, upland sandpiper, brown thrasher, thirteen-lined ground squirrel, and badger.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. Some of the Granite/Gneiss might be used for dimension stone. A rock (?) quarry is indicated on the topo seven miles to the southwest. Gravel pits are located three miles to the south of the compartment, and potential appears to be good, especially the southern portion. This compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access: Good.

Survey Needs: N\A

Recreational Facilities and Opportunities: There is no developed recreation in this compartment.

Fire Protection: High fire risk and is contained in a zone dispatch area.

Additional Compartment Information:

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

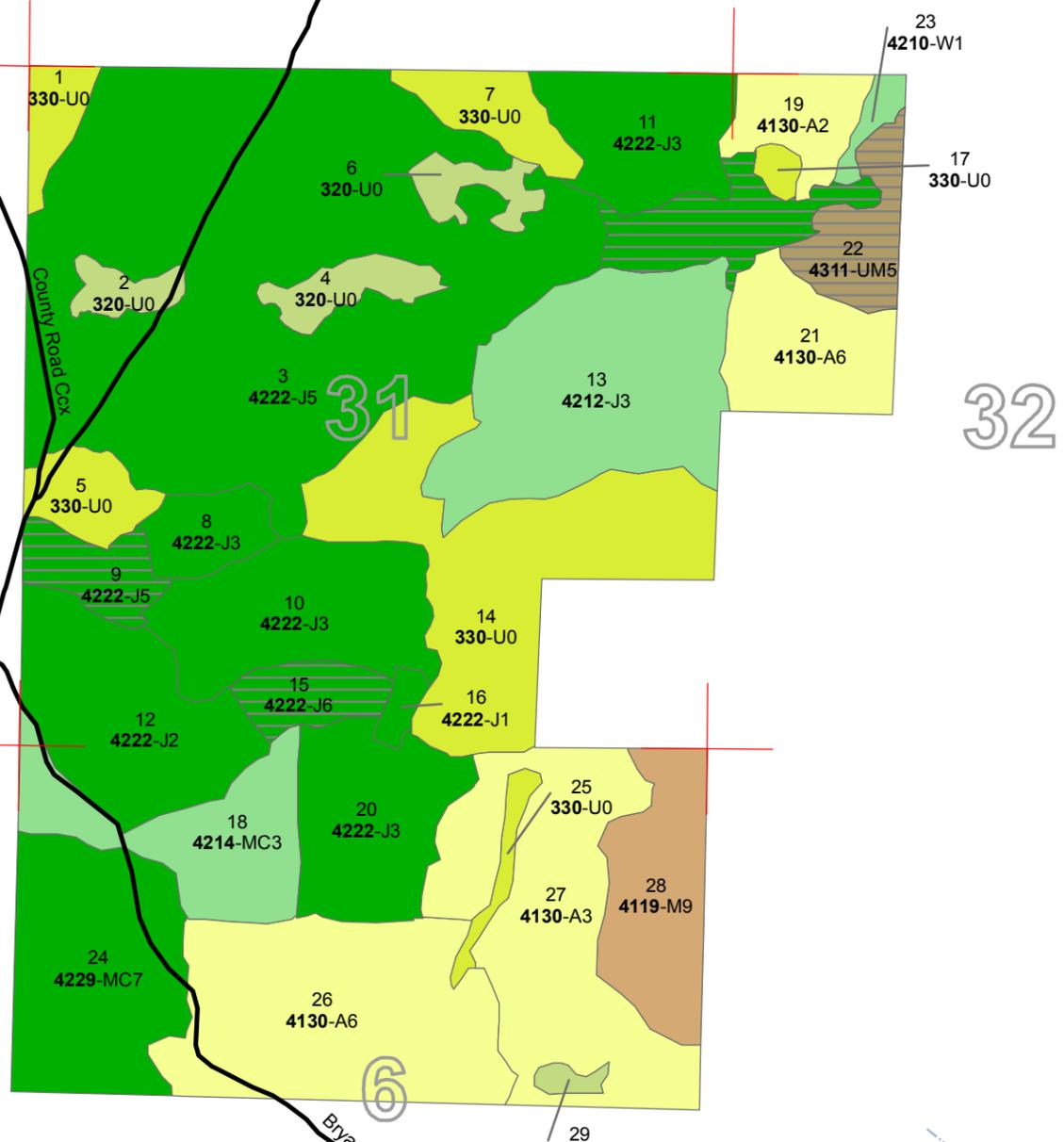
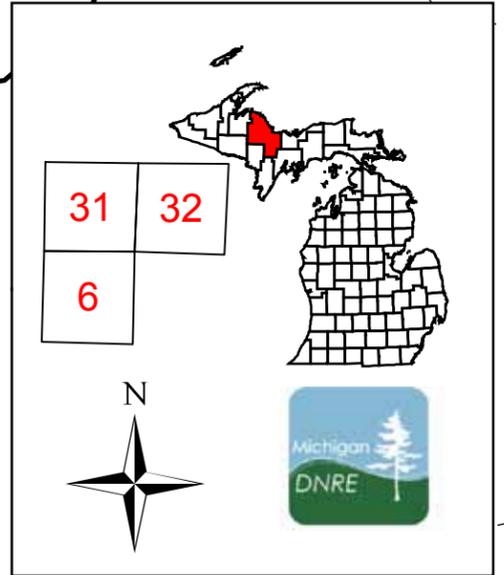
Cover Type & Treatment Map

Compartment 256
 T45N, R27W, Sec. 6
 T46N, R27W, Sec. 31, 32
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 1,001 GIS Calculated
 Stand Examiner: Dean Wilson
 Map Revised: 8/30/2010
 Map Phase: Pre-Review

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

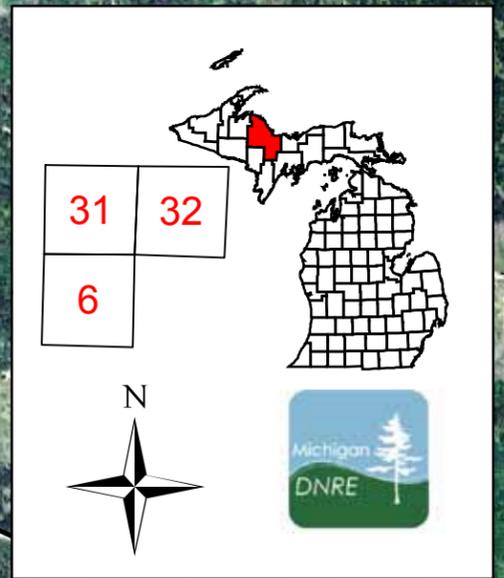
Legend

- Miris Corners
 - Paved Roads
 - - - Poor Dirt Roads
 - · - · - Intermittent Stream/Drain
 - Stream
- Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Forest Stands
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
- Non-Forest Stands
- Level 3
- 320 - Upland Shrub
 - 330 - Low-Density Trees



Stand Boundary Map

Compartment 256
 T45N, R27W, Sec. 6
 T46N, R27W, Sec. 31, 32
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Legend

- Miris Corners
- Paved Roads
- Poor Dirt Roads
- Stand Boundaries

Forest Stands

Level 3

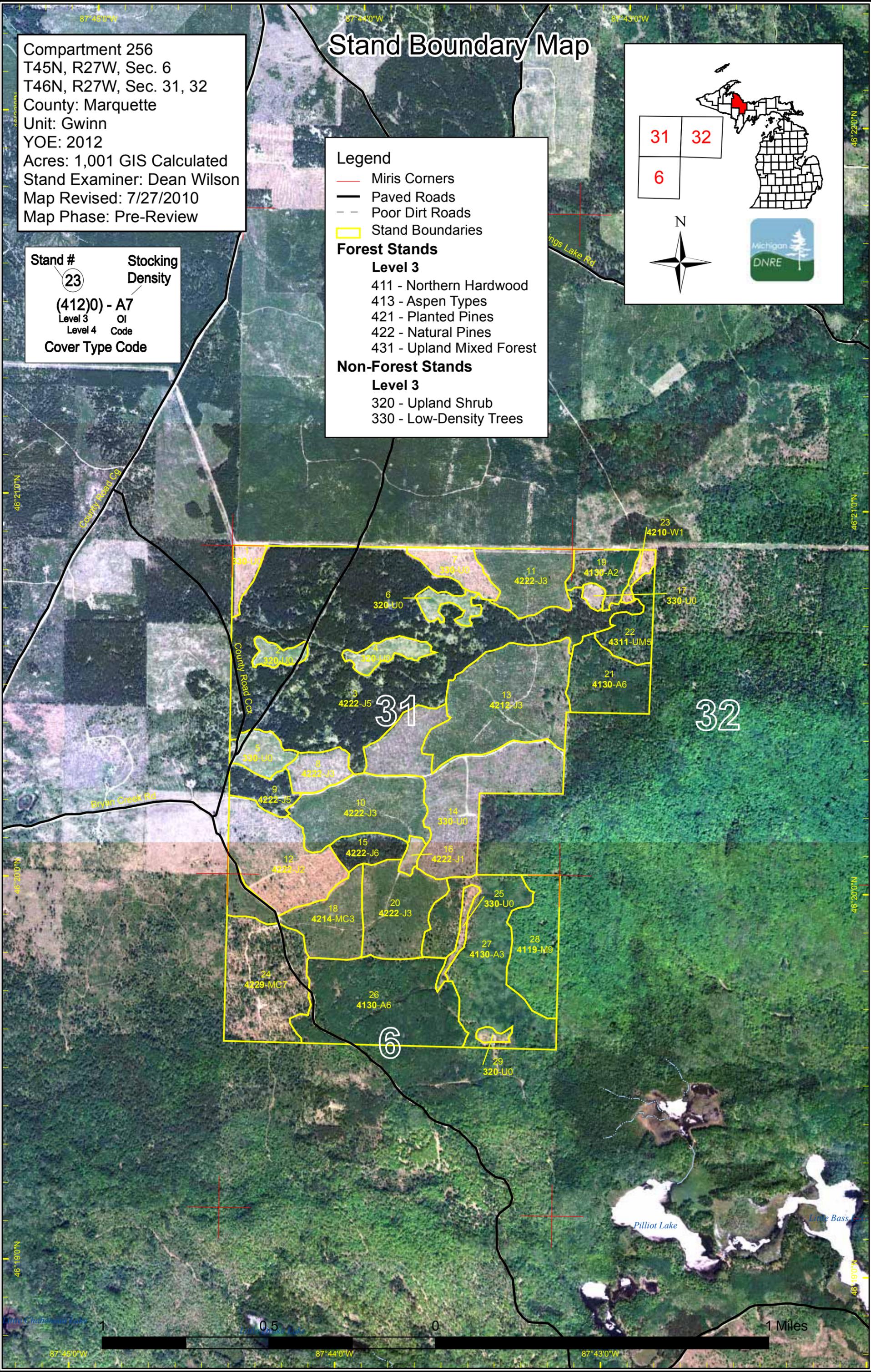
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest

Non-Forest Stands

Level 3

- 320 - Upland Shrub
- 330 - Low-Density Trees

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



87°45'W

Dedicated & Proposed Special Conservation Area Map

Compartment 256
 T45N, R27W, Sec. 6
 T46N, R27W, Sec. 31, 32
 County: Marquette
 Unit: Gwinn
 YOE: 2012
 Acres: 1,001 GIS Calculated
 Stand Examiner: Dean Wilson
 Map Revised: 7/27/2010
 Map Phase: Pre-Review

Legend

-  Miris Corners
-  Stand Boundaries
-  Cold Water Streams

Forest Stands

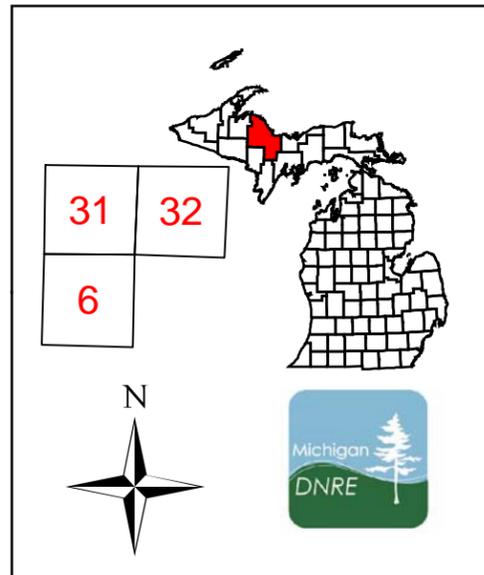
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest

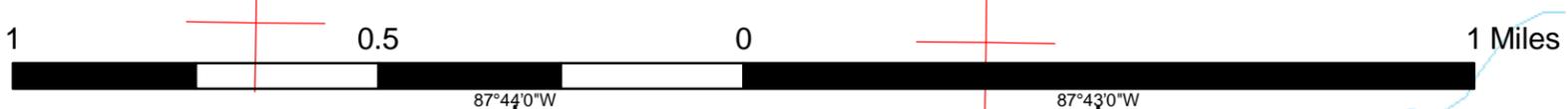
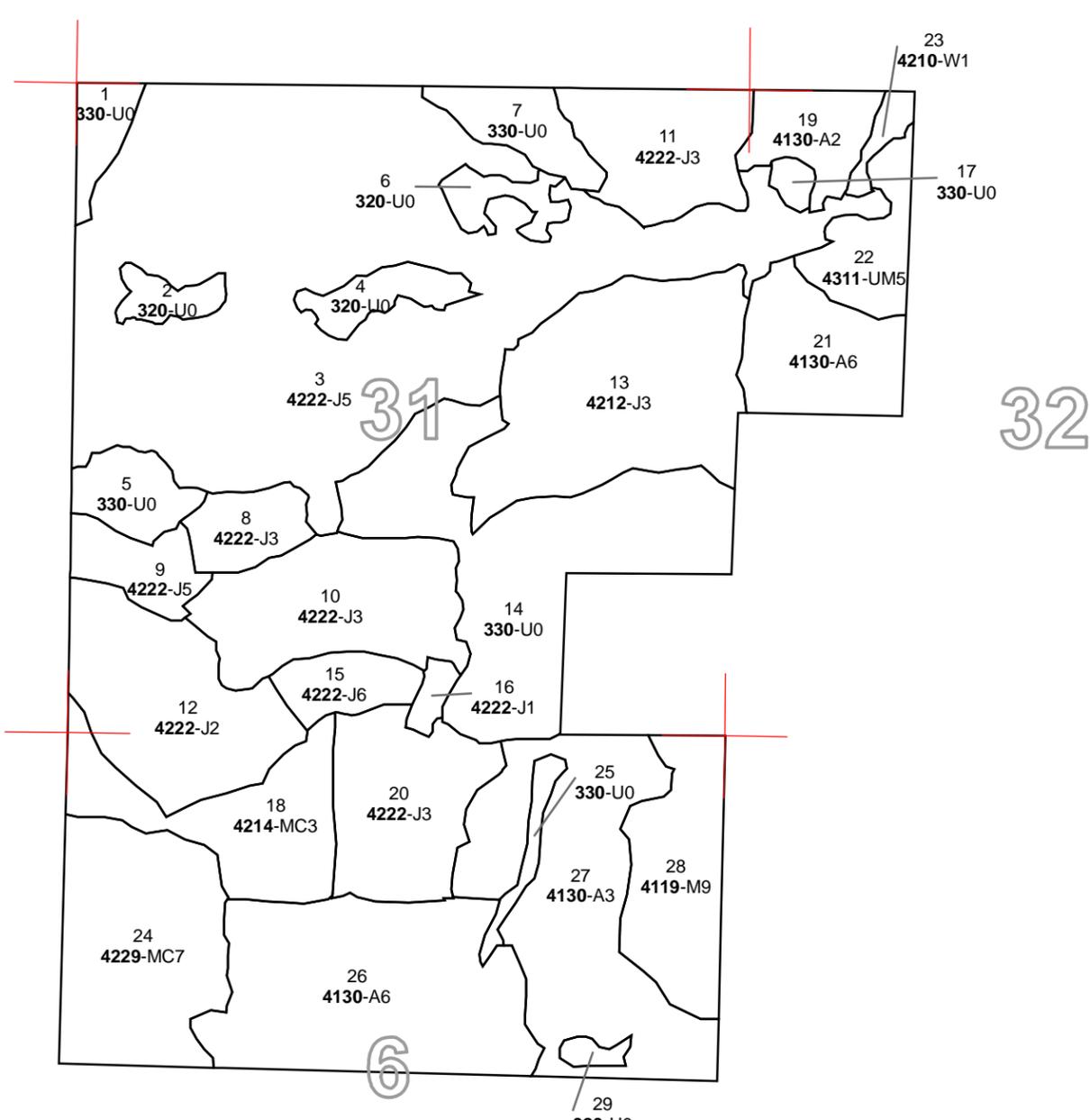
Non-Forest Stands

Level 3

- 320 - Upland Shrub
- 330 - Low-Density Trees



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



46°20'00\"/>

46°21'00\"/>

46°20'00\"/>

87°45'0\"/>

87°44'0\"/>

87°43'0\"/>

46°22'00\"/>

46°21'00\"/>

46°20'00\"/>

Table 1 – Total Acres by Cover Type and Age Class

Data updated before 2:00 PM



	Age Class														Total	
	Non-Forested	1-9	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	0	88	104	0	0	0	0	0	0	0	0	0	0	192
Jack Pine	0	60	186	0	0	0	259	0	12	0	0	0	0	0	0	516
Low-Density Trees	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	55
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	34	0	0	0	34
Planted Mixed Pines	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	36
Upland Mixed Forest	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17
Upland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Total	148	60	221	88	104	0	259	0	28	0	0	34	0	0	58	1001



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Gwinn Mgt. Unit
Year of Entry 2012

Compartment 256
Total Compartment Acres: 1001

Acres by Treatment Type

Commercial Harvest - 62	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 48
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Jack Pine	46	0	0	0	0	0	46
Upland Mixed Forest	17	0	0	0	0	0	17
Total	62	0	0	0	0	0	62

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Data updated before 2:00 PM

	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	32256003_sm all-Cut	21.3	42220 - Natural Jack Pine	Medium Density Pole	53	Harvest	Clearcut	Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Silvicultural clearcut of jack pine.									
<u>Specs:</u>									
<u>Other</u> A few redwhite pine to be marked for retention in eastern portion of stand.									
<u>Comments:</u>									
<u>Next</u> Disk trench and direct seed jack pine. Herbicide as necessary.									
<u>Steps:</u>									
9	32256009-Cut	12.9	42220 - Natural Jack Pine	Medium Density Pole	53	Harvest	Clearcut	Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut jack pine and other short lived intolerants if they occur..									
<u>Specs:</u>									
<u>Other</u> Red and white pine if present will be left.									
<u>Comments:</u>									
<u>Next</u> Disk trench and direct seed to jack pine. Herbicide as necessary.									
<u>Steps:</u>									
15	32256015-Cut	11.5	42220 - Natural Jack Pine	High Density Pole	70	Harvest	Clearcut	Natural Jack Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut jack pine and other intolerant species if they occur.									
<u>Specs:</u>									
<u>Other</u> If present red and white pine will be retained.									
<u>Comments:</u>									
<u>Next</u> Disk trench and direct seed jack pine. Herbicide as necessary.									
<u>Steps:</u>									
22	32256022-Cut	16.7	4311 - Pine, Aspen Mix	Medium Density Pole	75	Harvest	Clearcut with Reserves	Planted Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Clearcut all jack pine and aspen and white birch. Mark for harvest defective red and white pine.									
<u>Specs:</u>									
<u>Other</u> Mark 3 to 6 white birch per acre where possible for retention.									
<u>Comments:</u>									
<u>Next</u> Disk trench and plant red pine. Herbicide as necessary using glyphosate in the fall to protect existing coniferous regeneration.									
<u>Steps:</u>									
Total Treatment Acreage Proposed:		62.5							

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Data updated before 2:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acres Proposed: 0

Data updated before 2:00 PM

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2012



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Gwinn Mgt. Unit

5 – Forested Stands
Data updated before 2:00 PM

Compartment: 256
Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	42220 - Natural Jack Pine	Medium Density Pole	245.7	53	81-110	East side and small pockets internally of 70 to 80 year old jack pine. Bulk of stand originated as a result of a prescribed burn in 1957.
8	42220 - Natural Jack Pine	High Density Sapling	12.5	5		Harvested in 2004: TS#112-02-01. Trenched and direct seeded.
9	42220 - Natural Jack Pine	Medium Density Pole	12.9	53	200+	Contains some semi-open areas. A few aspen clones occur. Two age classes prevalent. Stand is 50 to 80 years old.
10	42220 - Natural Jack Pine	High Density Sapling	44.2	14		Harvested in 1995: TS#2-92. Direct seeded: FTP#C31-339. A few aspen clones occur in this stand.
11	42220 - Natural Jack Pine	High Density Sapling	29.7	15		Harvested in 1995: TS#1-92. Direct seeded.
12	42220 - Natural Jack Pine	Medium Density	47.9	5		Harvested in 1995 then direct seeded: FTP#C31-340. Appears to have some regeneration failure in south central portions of the stand. Some white pine included in red pine call.
13	42120 - Planted Jack Pine	High Density Sapling	71.6	15		Harvested in 1995: TS#1-92. Reforested: FTP#C-31-340. A few white pine included in red pine canopy call.
15	42220 - Natural Jack Pine	High Density Pole	11.5	70	81-110	Moderate to heavy mortality.
16	42220 - Natural Jack Pine	Low Density Sapling	3.3	10		Natural regeneration in a wildlife opening that was created in 1996. Approximately 200 trees per acre.
18	42140 - Planted Mixed Pine	High Density Sapling	35.6	14		Harvested in 1995: TS#2-92. Planted to red pine: FTP#C31-339. Naturally regenerated jack pine dominates in significant portions of this stand.
19	4130 - Aspen	Medium Density	15.4	23	1-50	Harvested in 1987: TS#5-82. Could call a small pole stand.
20	42220 - Natural Jack Pine	High Density Sapling	36.8	14		Harvested in 1995: TS#2-92. Direct seeded: FTP#C31-339.
21	4130 - Aspen	High Density Pole	28.7	31	51-80	Harvested in 1979: TS#15-78A. A few balsam fir included in the spruce canopy call.
22	4311 - Pine, Aspen Mix	Medium Density Pole	16.7	75	51-80	Significant mortality due to overmaturity. White pine heavily weeviled.
23	42100 - Planted White Pine	Low Density Sapling	3.9	Uneven Age	1-50	Harvested in 2005: TS#113-02-01. Northern portion trenched and planted to red pine: FTP#C32-638.
24	42290 - Natural Mixed Pine	Low Density Log	54.5	Uneven Age	1-50	Harvested in 2004: TS#110-02-01. Wide ranging stocking due to harvest history. Well stocked aspen understory. Light densities of 5 to 10 foot red and white present.

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Gwinn Mgt. Unit

5 – Forested Stands

Compartment: 256

Year of Entry: 2012



Data updated before 2:00 PM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4130 - Aspen	High Density Pole	75.6	34	1-50	Harvested in 1976: TS#19-72A. Scattered spruce present in stand.
27	4130 - Aspen	High Density Sapling	72.3	28	1-50	Harvested in 1982: TS#17-81A.
28	4119 - Mixed Northern Hardwoods	High Density Log	33.6	100	81-110	Harvested in 1982: TS#20-81.



Stand	Cover Type	Acres	Gen Cmts:
1	3302 - Low Density Conifer Trees	8.1	Harvested in 2005: TS#113-02-01 followed by direct seeding: FTP#C32-638.
2	3201 - Sweet Fern	6.1	Prescribe Burned in 2002.
4	3201 - Sweet Fern	9.5	Prescribed burned in 2002.
5	3302 - Low Density Conifer Trees	12.4	Semi-open area clear cut in 2001 followed by a prescribed burn to create a wildlife opening.
6	3201 - Sweet Fern	7.5	Man made opening in created in1990. Prescribed burned in 2002.
7	3302 - Low Density Conifer Trees	13.6	Harvested in 2005: TS#113-02-01. Direct seeded FTP#C32-638.
14	3303 - Mixed Low Density Trees	80.7	Harvested in 2004: TS#112-02-01. Trenched and direct seeded. In north west portion of stand, jack pine seedlings approximate 3 feet tall.
17	3302 - Low Density Conifer Trees	2.7	Man made opening created in 1990. Heavy to sweet fern.
25	3302 - Low Density Conifer Trees	5.0	North end disked and seeded in 2002. Heavy to sweet fern.
29	3201 - Sweet Fern	2.3	Disked and seeded in 2002. Lots of common mullen.



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.

Data updated before 2:00 PM

Stand	SCA Type	SCA Name	Acres	Comments



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.

Data updated before 2:00 PM

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

Conservation Area	Type	Description
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