



**Gwinn Forest Management Unit
Compartment Review Presentation
Compartment #100 Entry Year: 2012
Compartment Acreage: 1,293 County: Alger**

Revision Date: July 15, 2010

Stand Examiner: Theresa Sysol

Legal Description: T 45N R22W Section 2,11

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

Management Goals: To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreational and environmental needs and concerns.

Soil and Topography: Sandy loams in the gently rolling uplands. Lowlands contain poorly drained organics.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private individuals north and south. Mostly State or Plum Creek lands along other boundaries.

Unique, Natural Features: Potential for northern goshawk and red-shouldered hawk. Potential for bald eagle, osprey, and great blue heron rookery. Potential for moose and wolf. Potential for wood turtle and Blanding's turtle. Potential for cerulean warbler. Potential for early hairstreak. Potential for climbing fumitory, goblin fern, large toothwort, ginseng, and showy orchis in mature hardwoods.

Archeological, Historical, and Cultural Features: None identified with HAL

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: Johnson Creek headwaters within the compartment.

Wildlife Habitat Considerations: This compartment lies within the Chatham/AuTrain Moraines Management Area. In Special Conservation Areas, maintain movement corridors for wildlife species and the protection of riparian areas. Promote biological legacies such as old forest characteristics in the form of snags, coarse woody debris, and intact nutrient cycles. Maintain or increase biodiversity in northern hardwood stands through retention of associate species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River and Prairie du Chien Groups subcrop below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. Gravel pits are located within two miles of the compartment, and potential appears to be good. This compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access: West side of compartment is at the end of the Ladoga Road. East of Johnson Creek is accessed from the end of Kuivenen Road, 1 ½ miles east of Rumely.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: Hunting, fishing

Fire Protection: No special needs

Additional Compartment Information: This compartment contains some very high quality hardwood stands. The deer population is low in the compartment, so hardwood regeneration tends to become established. There are numerous scenic beaver ponds along the various branches of Johnson Creek.

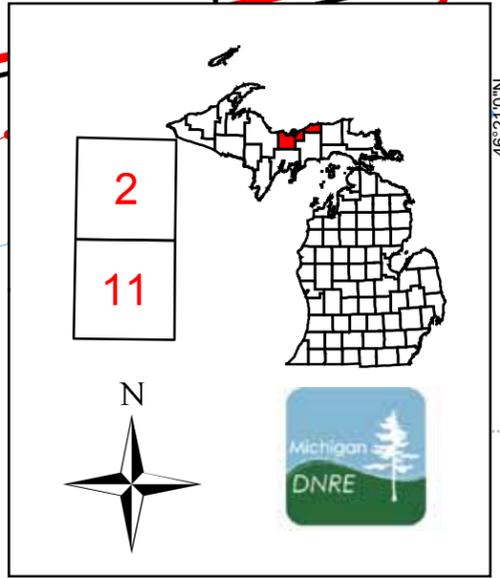
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
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

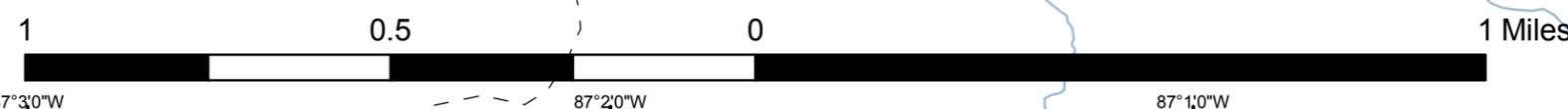
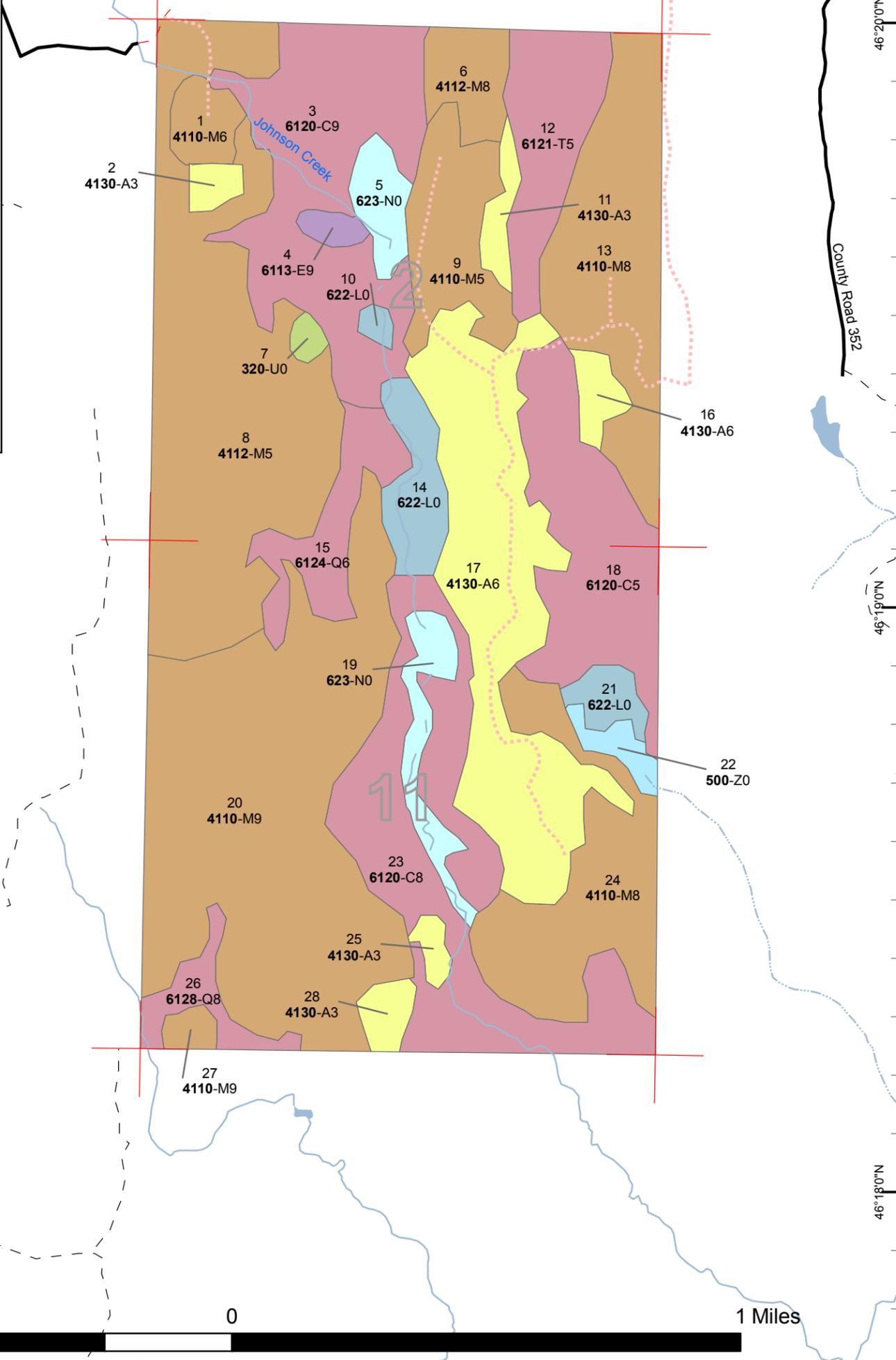
Compartment 100
 T45N, R22W, Sec. 02, 11
 County: Alger
 Unit: Gwinn
 YOE: 2012
 Acres: 1,293 GIS Calculated
 Stand Examiner: Thersa Sysol
 Map Revised: 8/23/2010
 Map Phase: Pre-Review

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



Legend

- Miris Corners
 - Highway
 - Paved Roads
 - - - County Gravel Roads
 - - - Poor Dirt Roads
 - - - County Poor Dirt Roads
 - ⋯ Closed Roads
 - Pipe
 - Power
 - ⋯ Trails
 - Intermittent Stream/Drain
 - Stream
 - ☒ Snowmobile Trails
 - State Highway
 - ▲ Berm
 - × Gate
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 320 - Upland Shrub
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland



87°30'W 87°20'W 87°10'W 46°20'N 46°19'0"N 46°18'0"N

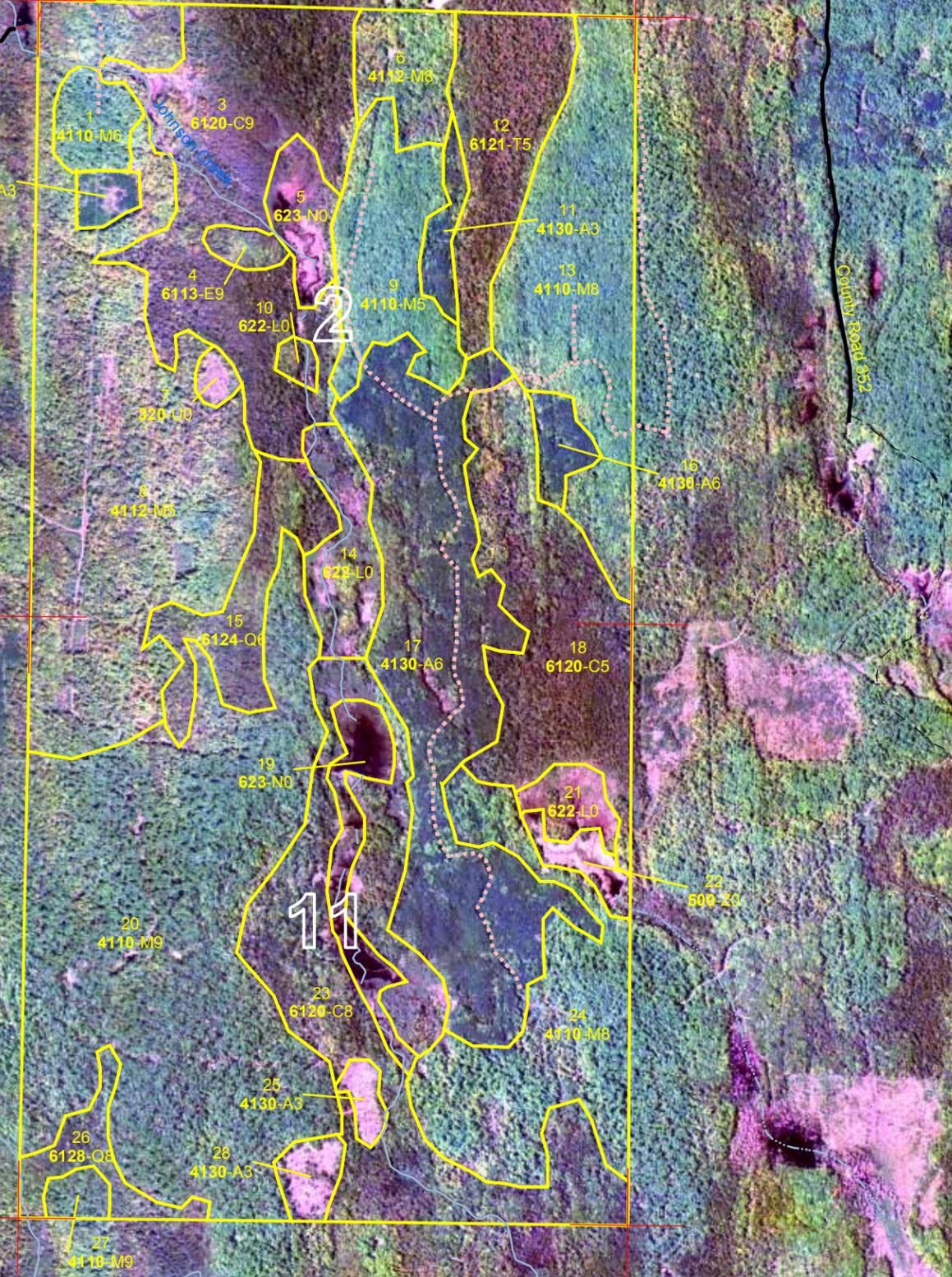
Stand Boundary Map

Compartment 100
 T45N, R22W, Sec. 02, 11
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 Unit: Gwinn
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 Stand Examiner: Thersa Sysol
 Map Revised: 8/23/2010
 Map Phase: Pre-Review

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

2
 11
 N
 Michigan DNR

- Legend**
- Miris Corners
 - Highway
 - Paved Roads
 - == County Gravel Roads
 - - Poor Dirt Roads
 - - County Poor Dirt Roads
 - ... Closed Roads
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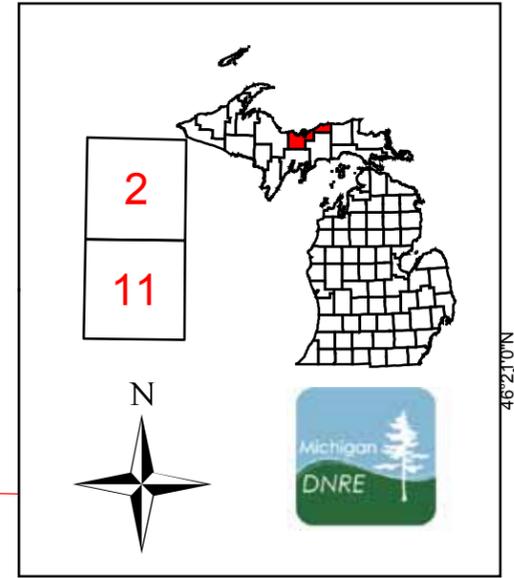


Dedicated & Proposed Special Conservation Area Map

87°00'W

Compartment 100
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Stand # **23** Stacking Density
(412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Stand Boundaries
- ▨ Proposed Special Conservation Areas
- ▩ SCA - Special Conservation Area
- ▧ Dedicated Special Conservation Areas
- Cold Water Streams

Forest Stands

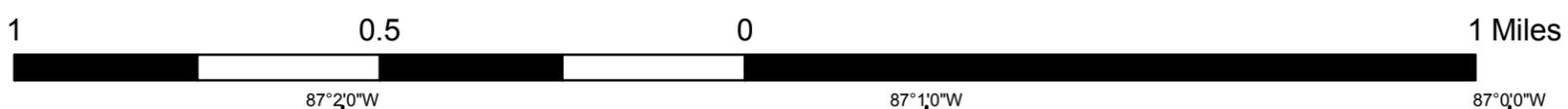
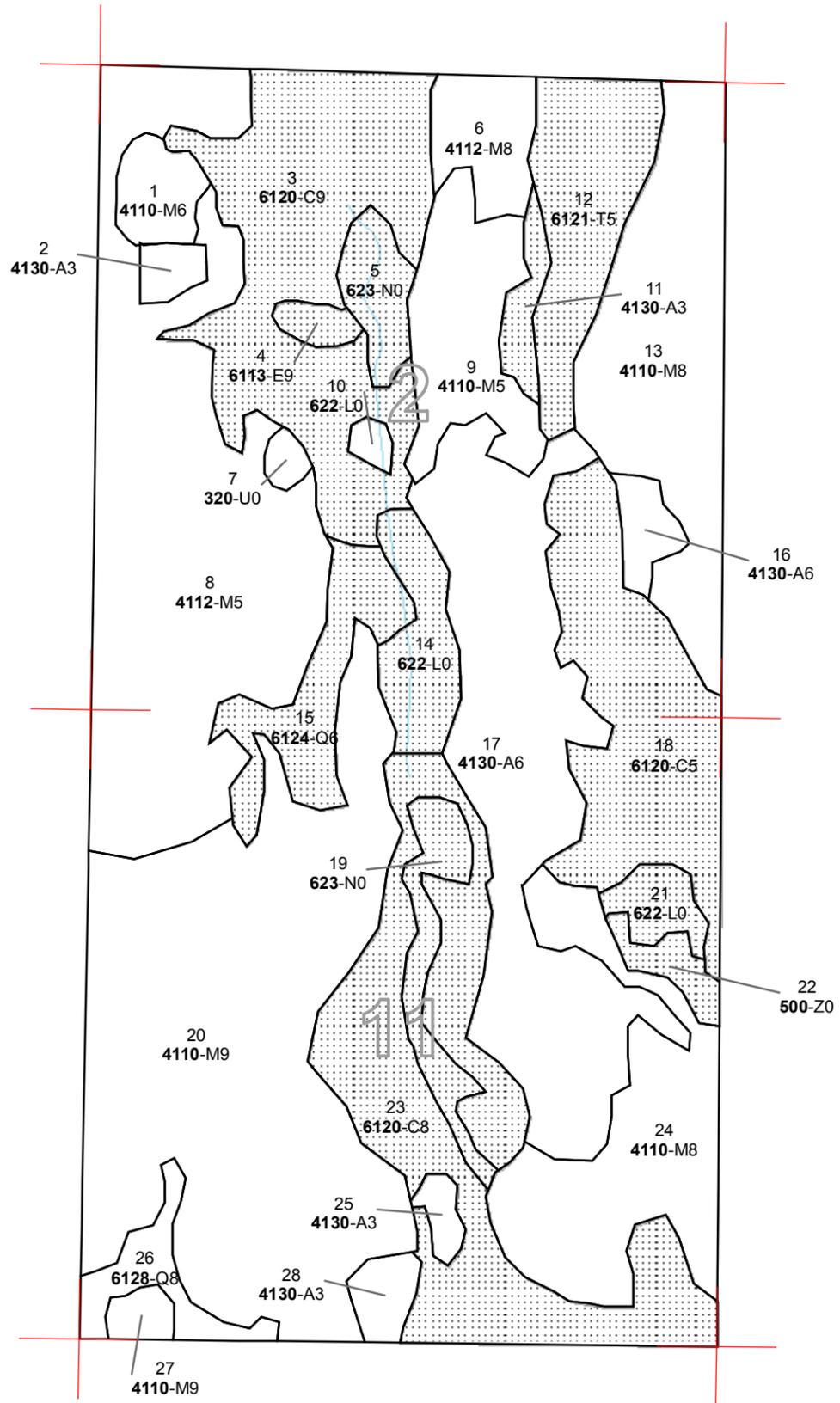
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 611 - Lowland Deciduous Forest
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Non-Forest Stands

Level 3

- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



46°20'0"N

46°20'0"N

46°19'0"N

46°19'0"N

46°18'0"N

87°20'W

87°10'W

87°00'W

Table 1 – Total Acres by Cover Type and Age Class

Data updated yesterday after 6:00 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	13	6	0	147	0	0	0	0	0	0	0	0	0	0	165
Cedar	0	0	0	0	0	0	0	0	0	111	78	110	0	0	0	299
Lowland Conifers	0	0	0	0	0	0	0	0	32	15	0	0	0	0	0	47
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Lowland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Marsh	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Northern Hardwood	0	0	0	0	0	0	0	0	215	437	0	0	0	0	0	652
Tamarack	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	45
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	80	13	6	0	147	0	0	0	247	563	82	155	0	0	0	1293



Table 2 – Proposed Treatment Summaries

Data updated yesterday after 6:00 PM

Gwinn Mgt. Unit
Year of Entry 2012

Compartment 100
Total Compartment Acres: 1293

Acres by Treatment Type

Commercial Harvest - 0	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
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
	#Error	#Error	#Error	#Error	#Error	#Error	#Error
Total	#Error	#Error	#Error	#Error	#Error	#Error	#Error

S
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Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription
Specs:

Other
Comments:

Next
Steps:

Total Treatment
Acreage Proposed: 0

S
t
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n
d

Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Data updated yesterday after 6:00 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**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	High Density Pole	12.9	74	51-80	OI stand 1 T. sale #32-92 (Unit 2) - cut in 1995-96. Still plenty of opening in the canopy. Not much regeneration noted - browse damage. Stand has some quality potential, but contains stain, forking and other damage. More upland than adjacent stand. Strip cut in the 1930's.
2	4130 - Aspen	High Density Sapling	5.6	15		OI stand 18 T. sale #032-92 (Unit 1) - cut Spring, 1993 - M conversion to A. Heavy browse noted. Trace spp include BF
3	6120 - Lowland Cedar	High Density Log	110.3	108	111-140	OI stand 2 Wet stand - drainages and creek. Some blowdown of spruce/fir; large diameter cedar, but no cedar regeneration noted. YB is dead/dying - wildlife quality only.
4	6113 - Lowland Maple	High Density Log	4.9	90	81-110	OI stand 9 Small hardwood area within Q type. Large diameter RM, cedar, H within.
6	4112 - Maple, Beech, Cherry Association	Medium Density Log	20.3	79	51-80	OI stand 3 T. sale #024-02 - Unit 4 of "Kuivinen Road #2" sale - cut January, 2007. Small G/U type within, with PB saplings on perimeter and along road edges. Trace species include: YB, Ash, H, Spruce. Lowland edge has thicker subcanopy of BF (2" dbh and 20-30 ft hts). Beech, maple snags present.
8	4112 - Maple, Beech, Cherry Association	Medium Density Pole	181.7	77	51-80	OI stand 1 T. sale #032-92 "Johnson Creek Hardwood Block" (Units 2-5) cut 1993 - 1996. Fairly thick beech regeneration (in patches). Hemlock patches. Area was strip cut in the 1930's.
9	4110 - Sugar Maple Association	Medium Density Pole	42.2	81	81-110	OI stand 3 T. sale #024-02 "Kuivinen Road #2" (Units 4,5) - cut 12/06 - 1/2007. Trace spp include: PB, beech
11	4130 - Aspen	High Density Sapling	8.5	32		OI stand 6 part of N. Johnson Creek Block, which was cut in the late 70's and early 80's. Stand borders low/creek.
12	6121 - Tamarack	Medium Density Pole	45.0	109	1-50	OI stand 4 Lab tea, tagalder low pockets interspersed w/T,BS. Trace spps include: cedar,H,WP,RM,SM,BF (stand edge along uplands).
13	4110 - Sugar Maple Association	Medium Density Log	87.5	81	81-110	OI stand 5 T. sale #024-02 "Kuivinen Road #2" (Units 1,2,3) - cut later summer, 2005. Trace spps noted include: BC, YB, Basswd, Ironwd, Beech, RM, Ash. Ground cover sweet cicely, burdock. More subcanopy S/F and trace spps at transition edges of stand.
15	6124 - Lowland Spruce-Fir	High Density Pole	31.8	79	51-80	OI stand 15 Wet stand with drainage.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4130 - Aspen	High Density Pole	8.7	32		OI stand 21 T. sale #020-72 "N. Johnson Creek Block" - cut 70's through early 80's. Diameters range from 3-7". Trace spp noted: YB, BC
17	4130 - Aspen	High Density Pole	130.2	32		OI stand 8 T. sale #020-72 "N. Johnson Creek Block" cut 70's through early 80's. Trace spps noted include: PB, YB, BC. Diameters range from 3 - 7". Contains inclusion/retention of low quality hardwood clumps with some PB and conifers - old hemlock stumps (OI stand 11).
18	6120 - Lowland Cedar	Medium Density Pole	77.6	99	81-110	OI stand(s) 7,10 Blowdown - sparse areas. Transition edge of hardwood stand included - low ground. South end contains smaller diameters (6-8"). Intermittent drainage/creek within. Trace amounts of SM, H
20	4110 - Sugar Maple Association	High Density Log	226.9	81	81-110	OI stand 16 TSI in 1978 - thinned. T. sale # 025-02 "Cannon Camp Sale" (Units 1-8, 11) - cut Summer, 2003. Trace amounts of hemlock, YB.
23	6120 - Lowland Cedar	Medium Density Log	111.0	83		OI stand(s) 13, 14, 39 - formerly Q6. Sparse stand, wet areas - contains Johnson Creek, drainages.
24	4110 - Sugar Maple Association	Medium Density Log	75.2	85	51-80	OI stand 12 T. sale #033-92 "Wendt Camp sale" - cut in 1992-93. Still plenty of canopy gap.
25	4130 - Aspen	High Density Sapling	4.6	6		OI stand 42 Part of t. sale #025-02 "Cannon Camp sale" (U9) - cut August, 2003.
26	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Log	15.4	80		OI stand 24 (Q6) contains intermittent drainage
27	4110 - Sugar Maple Association	High Density Log	5.1	81		(part of) OI stand 16 T. sale #025-02 "Cannon Camp sale" (Unit 11) - cut 2003.
28	4130 - Aspen	High Density Sapling	7.9	6		(part of) OI stand 42 Unit 10 of t. sale #025-02 "Cannon Camp sale" - cut August, 2003.



Stand	Cover Type	Acres	Gen Cmts:
5	623 - Emergent Wetland	14.2	OI stand 17 creek, beaver flooding areas within
7	320 - Upland Shrub	3.3	OI stand 33 aspen edges, willow
10	622 - Lowland Shrub	2.8	OI stand 31 Creek within stand
14	622 - Lowland Shrub	22.8	OI stand 44
19	623 - Emergent Wetland	19.3	OI stands 27,28,29 stumps, creek, water
21	6220 - Alder/willow	9.8	OI stand 40
22	50 - Water	7.8	OI stand 45



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 yesterday after 6:00 PM

Stand	SCA Type	SCA Name	Acres	Comments
3	Unique Site - SCA	32100003	110.3	SCA: riparian area. Wet stand - drainages and Johnson creek. Some blowdown of spruce/fir; large diameter cedar, but no cedar regeneration noted. YB is dead/dying - wildlife quality only.
4	Unique Site - SCA	32100004	4.9	SCA: Small hardwood area within Q type. Large diameter RM, cedar, H within.
11	Unique Site - SCA	32100011	8.5	SCA: riparian protection corridor. Stand borders low/creek - branch of Johnson Creek.
12	Unique Site - SCA	32100012	45.0	SCA: Riparian protection - branch of Johnson Creek within.
15	Unique Site - SCA	32100015	31.8	SCA: protection of riparian zone; branch of Johnson Creek within.
18	Unique Site - SCA	32100018	77.6	SCA: riparian protection corridor. Blowdown - sparse areas. Transition edge of hardwood stand included - low ground. Intermittent drainage/ Johnson creek within.
23	Unique Site - SCA	32100023	111.0	SCA: riparian area along Johnson Creek and spreads. Last examiner indicated trout stream headwaters?
5	Unique Site - SCA	NF_32100005	14.2	SCA: riparian. Johnson creek, beaver flooding areas within
14	Unique Site - SCA	NF_32100014	22.8	SCA: riparian corridor protection - contains Johnson Creek
19	Unique Site - SCA	NF_32100019	19.3	SCA: riparian corridor - Johnson Creek
21	Unique Site - SCA	NF_32100021	9.8	SCA: riparian corridor protection
22	Unique Site - SCA	NF_32100022	7.8	Branch of Johnson Creek



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 yesterday after 6:00 PM

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.