



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 91

Entry Year 2015

Acreage: 1,849

County Alger

Management Area: Dead Horse Moraines

Revision Date: 06/21/2013

Stand Examiner: John Hamel

Legal Description:

T45N, R22W, Sections 19,20,31; T44N, R22W, Sections 5-8,17,18

Identified Planning Goals:

Management goals of this compartment are to improve the quality of the extensive Northern Hardwoods stands through selective management while maintaining the conifer content and den trees for wildlife. Additional work needs to be done to improve the access to this compartment for active timber management and public access

Soil and topography:

Geologic features include glacial drainage ways, till plains and ground moraines. Topography is nearly level. Soils are poorly drained organics and loams, and well drained loams. Major soil series include the Shoepac-Ensley complex, Chatham-Ensley, Charlevoix-Ensley complex, and Cathro-Ensley mucks.

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

This compartment is widely scattered and interspersed with many private land holdings and camps. Primary land use is production of commercial forest products and recreational uses.

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:

Previously designated potential old growth areas located in proximity to the streams in this area are being recommended for removal from that status. No evidence of old growth was found in this area.

Watershed and Fisheries Considerations:

Sucker Creek, Werner Creek, and the West Branch of the Whitefish River is located in this Compartment.

Wildlife Habitat Considerations:

Compartment 91 is found within the Dead Horse Moraines Management Area; which is Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The State Forest covers about 88,000 acres and is mostly contiguous. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include northern hardwood, aspen, and mixed lowland conifer. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. The Dead Horse Moraine management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area where regeneration is more problematic. The primary focus of wildlife habitat management in the Dead Horse Moraine Management Area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraine Management Area: Black Bear, Pileated Woodpecker, Ruffed Grouse, 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 medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River Group subcrops below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. Gravel pits are located in the compartment, 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:

Vehicle access to this compartment is limited due to gated private land, and lowlands. Access from the West is primarily from Marquette County Road 444. From the East this compartment can be accessed from Johnson road through a gated private road and from Diffin road. Management access is limited by low weight limit bridges across the west branch of the Whitefish river and Werner creek.

Survey Needs:

Additional survey work on private lines adjacent to proposed harvests is needed

Recreational Facilities and Opportunities:

Limited recreational activity for this area include ruffed grouse and whitetail deer hunting. The Whitefish River Boating Access Site is located in this compartment.

Fire Protection:

This compartment has a low risk of wildfire occurrence.

Additional Compartment Information:

No additional information at this time.

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**

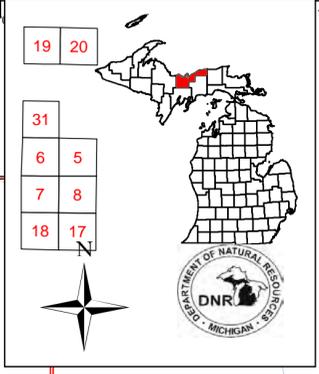
The following information is displayed, where pertinent, on the attached compartment maps:

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

Compartment: 091
 T44N R22W Sec. 5-8, 17, 18
 T45N R22W Sec. 19, 20, 31
 County: Alger
 Unit: Gwinn
 YOE: 2015
 Acres: 1,849 GIS Calculated
 Examiner: John Hamel
 Map Revised: 08/07/2013
 Map Phase: Pre-Review

Cover Type & Treatment Map

Stand #
 (23)
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- ◆ PLSS Corner
- ⊕ 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
- ⊗ Gate
- ⊗ Bridges
- ⊗ Mining
- ⊗ Structures
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments w/ Site Condition

- ▨ Treatments w/ Site Condition

Treatments

- ▨ Clearcut (w/Reserves, Patch/Strip)
- ▨ Shelter Wood (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Selection (Group, Single Tree)

Forest Stands

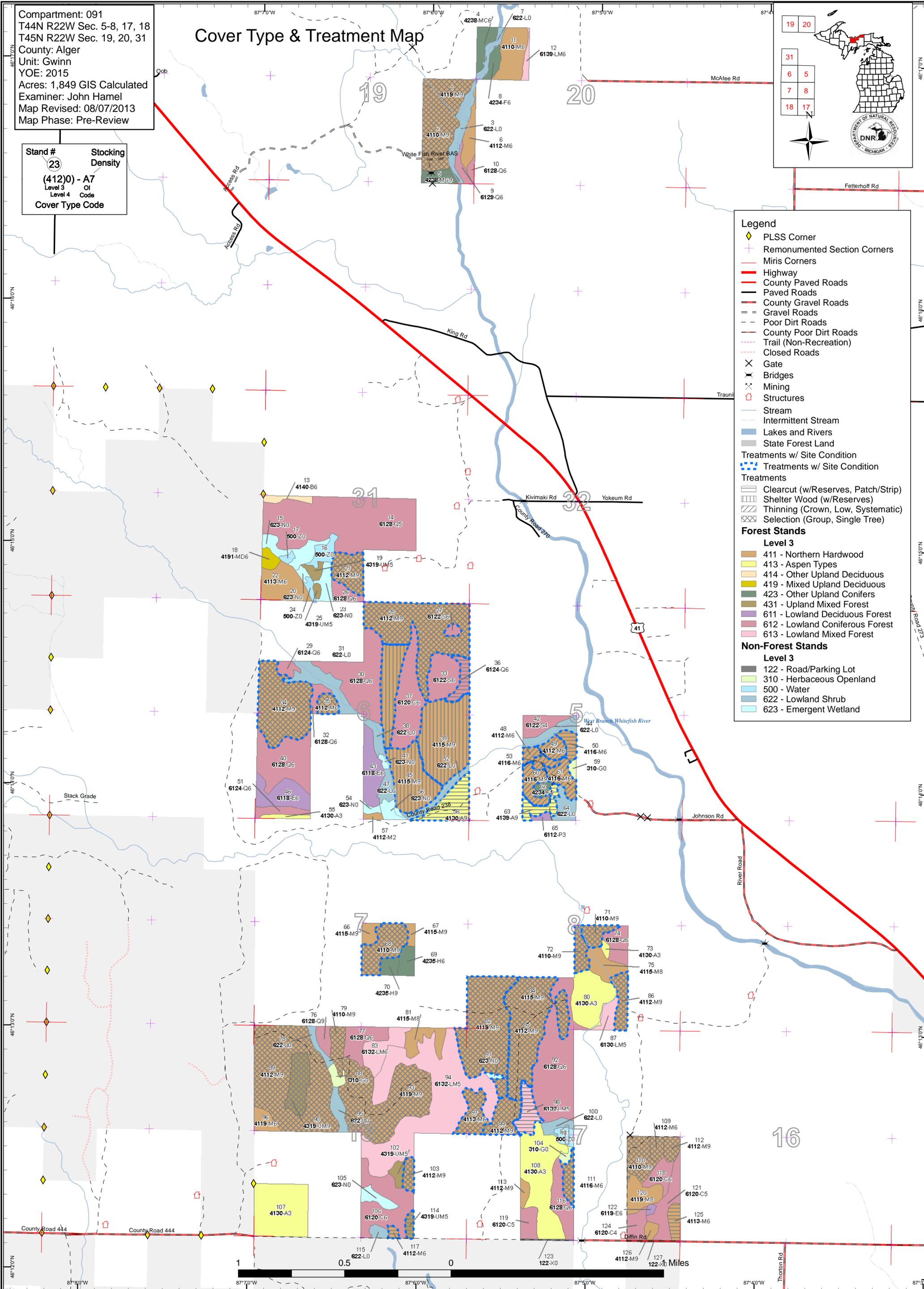
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 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

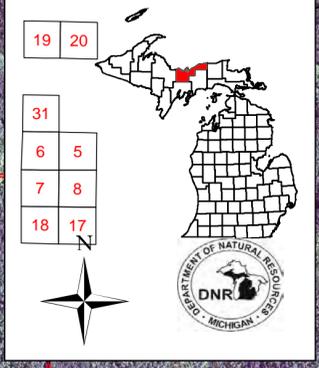
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map

Compartment: 091
 T44N R22W Sec. 5-8, 17, 18
 T45N R22W Sec. 19, 20, 31
 County: Alger
 Unit: Gwinn
 YOE: 2015
 Acres: 1,849 GIS Calculated
 Examiner: John Hamel
 Map Revised: 08/07/2013
 Map Phase: Pre-Review

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



Legend

- ◆ PLSS Corner
- ⊕ Remounted Section Corners
- ⊕ Miris Corners
- ▭ Stand Boundaries
- ▬ Highway
- ▬ County Paved Roads
- ▬ Paved Roads
- ▬ County Gravel Roads
- ▬ Gravel Roads
- ▬ Poor Dirt Roads
- ▬ County Poor Dirt Roads
- ▬ Trail (Non-Recreation)
- ▬ Closed Roads
- ⊗ Gate
- ⊗ Bridges
- ⊗ Mining
- ⊗ Structures
- ▬ Stream
- ▬ Intermittent Stream

Forest Stands

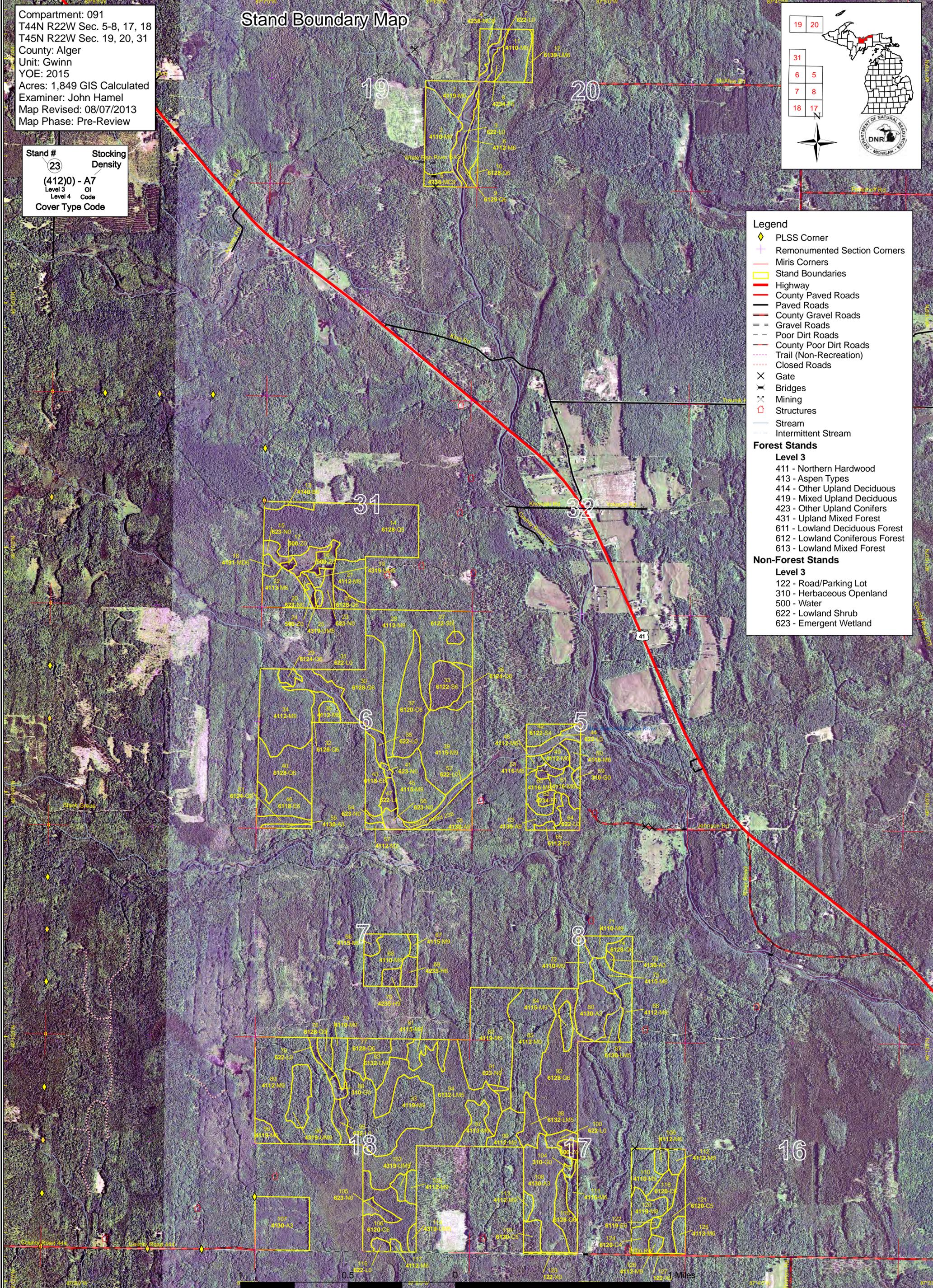
Level 3

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

Non-Forest Stands

Level 3

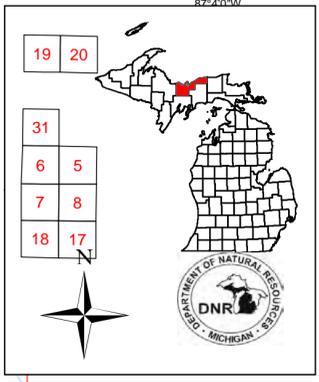
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



0.5 0 Miles

Compartment: 091
 T44N R22W Sec. 5-8, 17, 18
 T45N R22W Sec. 19, 20, 31
 County: Alger
 Unit: Gwinn
 YOE: 2015
 Acres: 1,849 GIS Calculated
 Examiner: John Hamel
 Map Revised: 08/07/2013
 Map Phase: Pre-Review

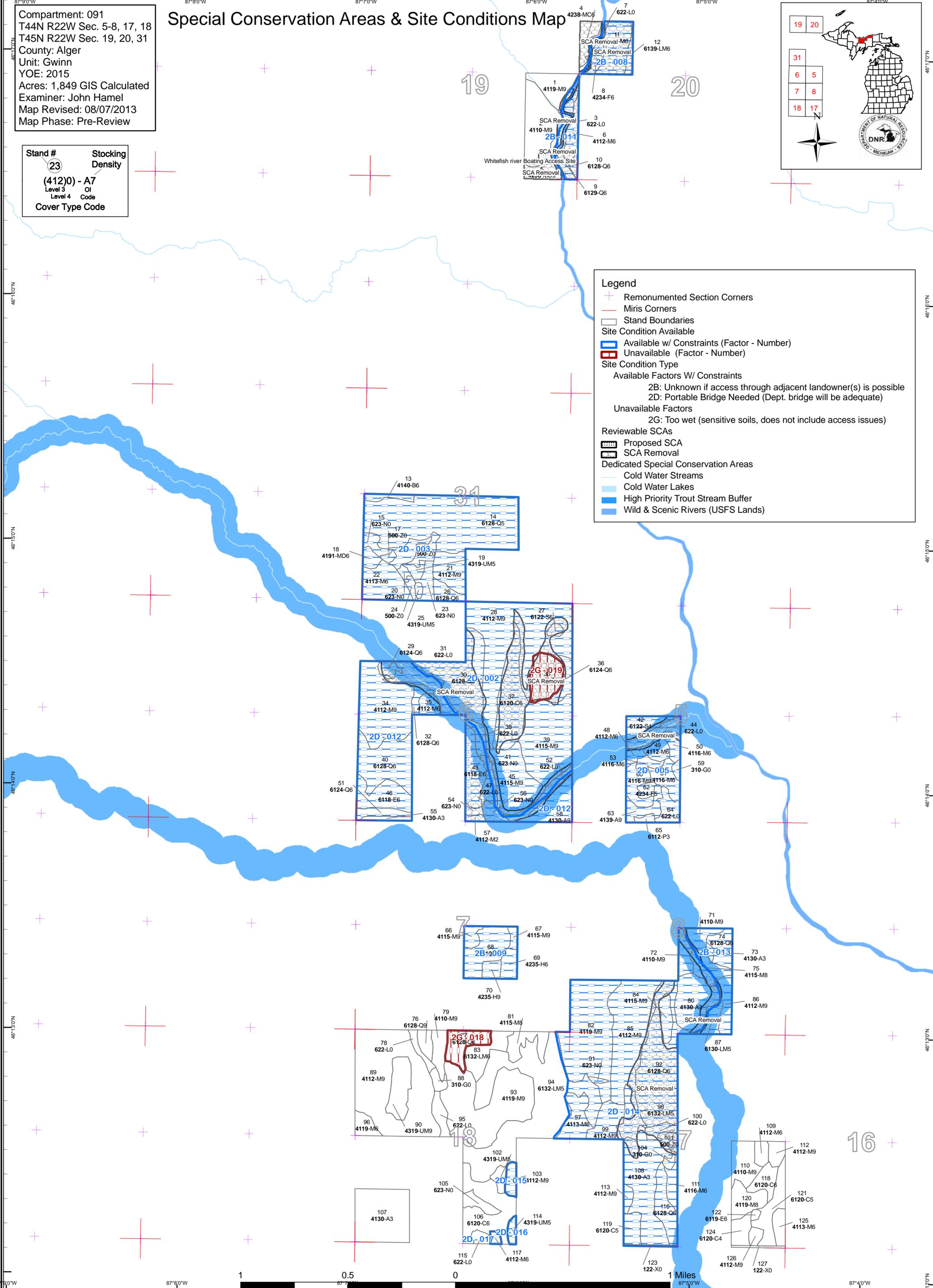
Special Conservation Areas & Site Conditions Map



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

Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Site Condition Type
 - Available Factors W/ Constraints
 - 2B: Unknown if access through adjacent landowner(s) is possible
 - 2D: Portable Bridge Needed (Dept. bridge will be adequate)
 - Unavailable Factors
 - 2G: Too wet (sensitive soils, does not include access issues)
- Reviewable SCAs
 - Proposed SCA
 - SCA Removal
- Dedicated Special Conservation Areas
 - Cold Water Streams
 - Cold Water Lakes
 - High Priority Trout Stream Buffer
 - Wild & Scenic Rivers (USFS Lands)



Report 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	0	112	4	0	0	0	0	27	0	0	0	0	0	0	143
Cedar	0	0	0	0	0	0	0	50	8	16	32	0	0	0	106
Hemlock	0	0	0	0	0	0	0	0	0	7	0	0	5	0	11
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	4	0	21	0	95	121	6	74	0	0	0	321
Lowland Deciduous	0	0	0	0	0	0	20	0	17	0	0	0	0	0	37
Lowland Mixed Forest	0	0	0	0	0	0	14	15	7	0	106	0	0	0	141
Lowland Shrub	87	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Lowland Spruce/Fir	0	0	0	0	0	18	2	10	0	0	0	0	0	0	30
Marsh	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Northern Hardwood	0	0	2	0	0	15	15	51	5	68	0	0	3	693	852
Paper Birch	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Upland Conifers	0	0	0	0	0	0	0	0	15	0	0	0	0	0	15
Upland Mixed Forest	0	0	0	0	0	3	1	4	0	3	0	0	0	16	28
Upland Spruce/Fir	0	0	0	3	0	0	0	0	0	5	0	0	0	0	8
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	147	112	6	9	0	58	53	256	172	107	212	0	7	709	1849



Report 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2015

Compartment 091
Total Compartment Acres: 1,849

Acres by Treatment Type

Commercial Harvest - 819 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
Aspen Types	27	0	0	0	0	0	0	27
Lowland Coniferous Forest	8	0	0	0	0	0	0	8
Lowland Mixed Forest	11	0	0	0	0	0	0	11
Northern Hardwood	13	591	0	111	34	0	0	748
Other Upland Conifers	7	0	0	0	0	0	0	7
Upland Mixed Forest	3	16	0	0	0	0	0	19
Total	68	607	0	111	34	0	0	819



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	32091001-Cut	14.2	4119 - Mixed Northern Hardwoods	High Density Log	95	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where <u>Specs:</u> appropriate, to establish regeneration and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Favor yellow birch and wind firm white spruce as leave trees when marking.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Regeneration survey as per work instructions.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
2	32091002-Cut	31.9	4110 - Sugar Maple Association	High Density Log	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create Larger canopy gaps <u>Specs:</u> where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Promote black cherry when marking and leave larger health trees to benefit black bear.										
<u>Other</u> Minimize impact on Boating Access Site Road, Consider winter sale										
<u>Comments:</u>										
<u>Next</u> Regeneration survey as per work instructions.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
5	32091005-Cut	6.7	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Log	87	141-170	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Clearcut reserveing hemlock, cedar, and yellow birch. Leave some black ash as seed source.										
<u>Specs:</u>										
<u>Other</u> Consider winter harvest of this stand due to proximity to Boating Access Site										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
79	32091079-Cut	8.3	4110 - Sugar Maple Association	High Density Log	90	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where <u>Specs:</u> appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Retain some black cherry to benefit black bear.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Regeneration survey as per work instructions.										
<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
89	32091089-Cut	86.4	4112 - Maple, Beech, Cherry Association	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where <u>Specs:</u> appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. maintain species diversity in this stand while favoring black cherry <u>Other</u> <u>Comments:</u> <u>Next</u> Regeneration survey as per work instructions. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
90	32091090-Cut	16.1	4319 - Mixed Upland Forest	High Density Log	90	81-110	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where <u>Specs:</u> appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. <u>Other</u> <u>Comments:</u> <u>Next</u> Regeneration survey as per work instructions. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
93	32091093-Cut	69.7	4119 - Mixed Northern Hardwoods	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where <u>Specs:</u> appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Promote black cherry when marking and leave larger health trees to benefit black bear. <u>Other</u> <u>Comments:</u> <u>Next</u> Regeneration survey as per work instructions. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2014										
109	32091109-Cut	4.6	4112 - Maple, Beech, Cherry Association	High Density Pole	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where <u>Specs:</u> appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Promote black cherry when marking and leave larger health trees to benefit black bear. <u>Other</u> <u>Comments:</u> <u>Next</u> Regeneration survey as per work instructions. <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
110 32091110-Cut	14.8	4110 - Sugar Maple Association	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Promote black cherry when marking and leave larger health trees to benefit black bear.

Other Comments:

Next Steps: Regeneration survey as per work instructions.

Proposed Start Date: 10/01/2014

112 32091112-Cut	5.3	4112 - Maple, Beech, Cherry Association	High Density Log	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
------------------	-----	---	------------------	----	---------	---------	-----------------------	-------------------------	-----------------------

Prescription Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Favor yellow birch when marking for retention.

Other Comments:

Next Steps: Regeneration survey as per work instructions.

Proposed Start Date: 10/01/2014

125 32091125-Cut	5.9	4113 - R.Maple, Conifer	High Density Pole	60	81-110	Harvest	Clearcut with Reserves	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
------------------	-----	-------------------------	-------------------	----	--------	---------	------------------------	---------------------------------	-----------------------

Prescription Clearcut this stand reserving cedar, hemlock, and yellow birch

Other Comments:

Next Steps: Regeneration survey as per work instructions.

Proposed Start Date: 10/01/2014

Total Treatment Acreage Proposed: 264.1



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21	32091021-Cut	15.6	4112 - Maple, Beech, Cherry Association	High Density Log	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity. Leave obvious wildlife trees. Stick nest found if active follow guidelines, Promote black cherry when marking and leave larger health trees to benefit black bear and larger yellow birch to benefit pileated woodpecker</p> <p><u>Specs:</u></p> <p><u>Other Comment:</u> Access to this stand is across private that was recently harvested</p> <p><u>Next Steps:</u> Regeneration survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)</p>										
28	32091028-Cut	69.7	4112 - Maple, Beech, Cherry Association	High Density Log	90	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity. Leave obvious wildlife trees.</p> <p><u>Other Comment:</u> This stand is best accessed from the north through private (as stand 21) or from the south from Johnson Rd</p> <p><u>Next Steps:</u> Regeneration survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)</p>										
28	32091028-Cut_small	23.2	4112 - Maple, Beech, Cherry Association	High Density Log	90	141-170	Harvest	Shelterwood	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> Shelterwood harvest with a residual basal area of 40-50 sq. ft/acre.</p> <p><u>Specs:</u></p> <p><u>Other Comment:</u> This stand is best accessed from the north through private (as stand 21) or from the south from Johnson Rd</p> <p><u>Next Steps:</u> Regeneration survey as per work instructions. Overstory removal</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)</p>										
34	32091034-Cut	49.8	4112 - Maple, Beech, Cherry Association	High Density Log	110	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> harvest this stand with Copartment 8 stand 7. Mark hardwoods to 80-90 BA, using all applicable guidelines, and maintain species diversity.</p> <p><u>Specs:</u> Create regeneration gaps, where appropriate, and release any current regeneration. Retain some of the oversized, wildlife-quality maple and birch as legacy trees. Retain snag trees. Retain any hemlock, white pine and white spruce. Promote Black Cherry when marking and leave larger health trees to benefit black bear and favor larger health bigtooth aspen.</p> <p><u>Other Comment:</u> Access from Johnson road over 11-ton bridge through several miles on private gated ownership</p> <p><u>Next Steps:</u> Regeneration survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)</p>										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	32091035-Cut	5.6	4112 - Maple, Beech, Cherry Association	High Density Pole	60	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Leave obvious wildlife trees. <u>Specs:</u> Promote Black Cherry when marking and leave larger health trees to benefit black bear and favor larger health bigtooth aspen.										
<u>Other Comment:</u> Harvest with stand 34										
<u>Next Steps:</u> Regeneration survey as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
36	32091036-Cut	7.6	6124 - Lowland Spruce-Fir	High Density Pole	75		Harvest	Clearcut with Reserves	613 - Lowland Mixed Forest	Cmpt. Review Proposal
<u>Prescription</u> Clearcut this stand leaving cedar and select yellow birch <u>Specs:</u>										
<u>Other Comment:</u>										
<u>Next Steps:</u> Regeneration survey as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
39	32091039-Cut	53.0	4115 - Y.Birch, Hemlock NH	High Density Log	90	171-200	Harvest	Shelterwood	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood harvest with a residual basal area of 40-50 sq. ft/acre. <u>Specs:</u>										
<u>Other Comment:</u> Poor access										
<u>Next Steps:</u> Regeneration survey as per work instructions. Overstory removal										
<u>Proposed Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
45	32091045-Cut	34.4	4115 - Y.Birch, Hemlock NH	High Density Log	90	141-170	Harvest	Shelterwood	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Shelterwood harvest with a residual basal area of 40-50 sq. ft/acre. <u>Specs:</u>										
<u>Other Comment:</u>										
<u>Next Steps:</u> Regeneration survey as per work instructions. Overstory removal										
<u>Proposed Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										

S
t
a
n
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
48 32091048-Cut	3.5	4112 - Maple, Beech, Cherry Association	High Density Pole	57	111-140	Harvest	Low Thinning	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Thin stand removing old aspen and poor quality hardwood. Leave 80 to 90 basal area of residual. Promote black cherry when marking and leave larger health trees to benefit black bear and favor larger health bigtooth aspen.

Other Comment:

Next Steps:

Proposed Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

49 32091049-Cut	6.6	4112 - Maple, Beech, Cherry Association	High Density Pole	57	171-200	Harvest	Low Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
-----------------	-----	---	-------------------	----	---------	---------	--------------	-------------------------	-----------------------

Prescription Thin stand removing old aspen and poor quality hardwood. Leave 80 to 90 basal area of residual. Promote Black Cherry when marking and leave larger health trees-Black Bear. Include Basswood in retention.

Other Comment:

Next Steps:

Proposed Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

50 32091050-Cut	5.3	4116 - Mixed N. Hardwood - Aspen	High Density Pole	50	141-170	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
-----------------	-----	----------------------------------	-------------------	----	---------	---------	------------------------	-------------	-----------------------

Prescription Clearcut this stand leaving white pine and cedar if present. Retain all back cherry to benefit black bear and retain some large aspen for possible raptor nesting sites and cavity nesting species.

Other Comment:

Next Steps: Regeneration survey as per work instructions. Mixed hardwood would be an acceptable alternative objective

Proposed Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

53 32091053-Cut	3.9	4116 - Mixed N. Hardwood - Aspen	High Density Pole	60	141-170	Harvest	Low Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
-----------------	-----	----------------------------------	-------------------	----	---------	---------	--------------	-------------------------	-----------------------

Prescription Thin stand removing old aspen and poor quality hardwood. Leave 80 to 90 basal area of residual. Promote black cherry when marking and leave larger health trees to benefit black bear.

Other Comment:

Next Steps:

Proposed Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
58	32091058-Cut	18.1	4130 - Aspen	High Density Log	76		Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> Clearcut this stand leaving only white pine and cedar if present. Retain black cherry. leave a 1 or 2 clumps of aspen for retention to benefit pileated woodpecker. <u>Specs:</u>										
<u>Other Comment:</u> Due to the age of this stand aspen may not regenerate vigorously. Red maple or other hardwood would be an acceptable alternative.										
<u>Next Steps:</u> Regeneration survey as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
60	32091060-Cut	10.4	4116 - Mixed N. Hardwood - Aspen	High Density Log	77	111-140	Harvest	Low Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin stand removing old aspen and poor quality hardwood. Leave 80 to 90 basal area of residual. Promote black cherry when marking and leave larger health trees to benefit black bear. Also retain some larger aspen to benefit pileated woodpecker, and hawk species <u>Specs:</u>										
<u>Other Comment:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
61	32091061-Cut	9.8	4116 - Mixed N. Hardwood - Aspen	High Density Pole	77	171-200	Harvest	Low Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin stand removing old aspen and poor quality hardwood. Leave 80 to 90 basal area of residual. Promote black cherry when marking and leave larger health trees to benefit black bear. Also retain some larger aspen to benefit pileated woodpecker, and hawk species <u>Specs:</u>										
<u>Other Comment:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
63	32091063-Cut	8.4	4139 - Aspen, Mixed Deciduous	High Density Log	70		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut this stand leaving white pine and cedar if present. Leave clumped black cherry for retention. <u>Specs:</u>										
<u>Other Comment:</u>										
<u>Next Steps:</u> Regeneration survey as per work instructions.										
<u>Proposed Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										

S
t
a
n
d

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
68 32091068-Cut	21.1	4110 - Sugar Maple Association	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Promote black cherry when marking and leave larger health trees to benefit black bear. Include basswood in retention.									
<u>Specs:</u>									
<u>Other Comment:</u> Poor access									
<u>Next Steps:</u> Regeneration survey as per work instructions.									
<u>Proposed Start Date:</u> 10/01/2014									
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible									
71 32091071-Cut	7.4	4110 - Sugar Maple Association	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Promote black cherry when marking and leave larger health trees to benefit-black bear. Include basswood in retention.									
<u>Specs:</u>									
<u>Other Comment:</u>									
<u>Next Steps:</u> Regeneration survey as per work instructions.									
<u>Proposed Start Date:</u> 10/01/2014									
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible									
72 32091072-Cut	7.4	4110 - Sugar Maple Association	High Density Log	110	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Promote black cherry when marking and leave larger health trees to benefit black bear. Include basswood in retention.									
<u>Specs:</u>									
<u>Other Comment:</u>									
<u>Next Steps:</u> Regeneration survey as per work instructions.									
<u>Proposed Start Date:</u> 10/01/2014									
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)									
82 32091082-Cut	67.1	4119 - Mixed Northern Hardwoods	High Density Log	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Favor yellow birch and basswood as retention.									
<u>Specs:</u>									
<u>Other Comment:</u>									
<u>Next Steps:</u> Regeneration survey as per work instructions.									
<u>Proposed Start Date:</u> 10/01/2014									
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)									



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
84	32091084-Cut	6.8	4115 - Y.Birch, Hemlock NH	High Density Log	95	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers.										
<u>Specs:</u>										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> Regeneration survey as per work instructions.										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
85	32091085-Cut	56.0	4112 - Maple, Beech, Cherry Association	High Density Log	100	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Favor yellow birch as retention.										
<u>Specs:</u>										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> Regeneration survey as per work instructions.										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										
86	32091086-Cut	10.0	4112 - Maple, Beech, Cherry Association	High Density Log	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers. Maintain species diversity in this stand while favoring black cherry.										
<u>Specs:</u>										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> Regeneration survey as per work instructions.										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible										
97	32091097-Cut	13.8	4113 - R.Maple, Conifer	High Density Pole	70	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers.										
<u>Specs:</u>										
<u>Other</u> <u>Comment:</u>										
<u>Next</u> Regeneration survey as per work instructions.										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> 10/01/2014										
<u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
98	32091098-Cut	11.2	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	60		Harvest	Clearcut with Reserves	613 - Lowland Mixed Forest	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut this stand leaving 3 tenth acre retention patches around clumped cedar or black cherry if practicable. Retain all cedar.</p> <p><u>Specs:</u></p> <p><u>Other Comment:</u></p> <p><u>Next Steps:</u> Regeneration survey as per work instructions</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)</p>										
99	32091099-Cut	13.9	4112 - Maple, Beech, Cherry Association	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock and smaller conifers.</p> <p><u>Specs:</u></p> <p><u>Other Comment:</u></p> <p><u>Next Steps:</u> Regeneration survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)</p>										
103	32091103-Cut	4.8	4112 - Maple, Beech, Cherry Association	High Density Log	90	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock, and favor black cherry if found.</p> <p><u>Specs:</u></p> <p><u>Other Comment:</u></p> <p><u>Next Steps:</u> Regeneration survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)</p>										
111	32091111-Cut	6.4	4116 - Mixed N. Hardwood - Aspen	High Density Pole	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate, to establish regeneration, and maintain stand diversity Leave obvious wildlife trees. Leave all cedar, hemlock, smaller conifers. patches of young aspen.</p> <p><u>Specs:</u></p> <p><u>Other Comment:</u></p> <p><u>Next Steps:</u> Regeneration survey as per work instructions.</p> <p><u>Proposed Start Date:</u> 10/01/2014</p> <p><u>Limiting Factor</u> 2D: Portable Bridge Needed (Dept. bridge will be adequate)</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
114	32091114-Cut	3.0	4319 - Mixed Upland Forest	Medium Density Pole	95		Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Clearcut this stand reserving cedar and yellow birch.

Specs:

Other

Comment:

Next Regeneration survey as per work instructions.

Steps:

Proposed

Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

117	32091117-Cut	1.7	4112 - Maple, Beech, Cherry Association	High Density Pole	70	111- 140	Harvest	Clearcut with Reserves	4113 - R.Maple, Conifer	Cmpt. Review Proposal
-----	--------------	-----	---	-------------------------	----	-------------	---------	---------------------------	----------------------------	--------------------------

Prescription Clearcut this stand reserving hemlock and small yellow birch.

Specs:

Other

Comment:

Next Regeneration survey as per work instructions.

Steps:

Proposed

Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

**Total Treatment
Acreage Proposed: 555.2**

Report 5 – Site Conditions

Gwinn Mgt. Unit
John Hamel : Examiner

Compartment 091
Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	Dominant Site Conditions			
	Available	Not Available		No	2G	2D	2B
143	143		Aspen	41		101	2
106	106		Cedar	64		42	
11	11		Hemlock				11
2	2		Lowland Aspen/Balsam Poplar			2	
321	306	14	Lowland Conifers	5	14	285	16
37	37		Lowland Deciduous	1		35	
141	141		Lowland Mixed Forest	107		25	9
30	12	18	Lowland Spruce/Fir		18	12	
4	4		Mixed Upland Deciduous			4	
852	852		Northern Hardwood	274		499	79
4	4		Paper Birch			4	
15	15		Upland Conifers	15			
28	28		Upland Mixed Forest	20		8	
8	8		Upland Spruce/Fir			3	5
1,702	1,669	33	Total Forested Acres	527	33	1,021	122
	98%	2%	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
002	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	278	2B: Unknown if access through adjacent landowner(s) is possible			
Comments:							
Current Bridge on Johnson Rd over West Branch Whitefish River Posted as 11 Tons. May be able to lay portable bridge over top. Johnson Rd is gated past bridge. Owners may allow management access only. An additional portable bridge will be needed to acc							
003	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	192	2B: Unknown if access through adjacent landowner(s) is possible			
Comments:							
Current Bridge over West branch Whitefish River posted at 3 Tons. alternat route may be available through private							

Report 5 – Site Conditions

Gwinn Mgt. Unit
John Hamel : Examiner

Compartment 091
Year of Entry 2015

005	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	81	2B: Unknown if access through adjacent landowner(s) is possible	No Limiting Factor
Comments: Current Bridge on Johnson Rd over West Branch Whitefish River Posted as 11 Tons. May be able to lay portable bridge over top. Johnson Rd is gated past bridge. Owners may allow management access only.					
008	Available	2B: Unknown if access through adjacent landowner(s) is possible	29		
Comments:					
009	Available	2B: Unknown if access through adjacent landowner(s) is possible	39		
Comments: Examiner Approved 11/13/2012					
011	Available	2B: Unknown if access through adjacent landowner(s) is possible	23		
Comments:					
012	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	195		
Comments: Current Bridge on Johnson Rd over West Branch Whitefish River Posted as 11 Tons. May be able to lay portable bridge over top. Johnson Rd is gated past bridge. Owners may allow management access only.					

Report 5 – Site Conditions

Gwinn Mgt. Unit
John Hamel : Examiner

Compartment 091
Year of Entry 2015

013	Available	2B: Unknown if access through adjacent landowner(s) is possible	41		
Comments:					
014	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	372	2E: Road needed	2B: Unknown if access through adjacent landowner(s) is possible
Comments: Currently there is a portable bridge over Werners Creek at the end of the maintained portion of Diffin Rd.. The capacity and owner of this bridge is unknown.					
015	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	5		
Comments: Currently there is a portable bridge over Werners Creek at the end of the maintained portion of Diffin Rd.. The capacity and owner of this bridge is unknown.					
016	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	3		
Comments: Currently there is a portable bridge over Werners Creek at the end of the maintained portion of Diffin Rd.. The capacity and owner of this bridge is unknown.					
017	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2	2D: Portable Bridge Needed (Dept. bridge will be adequate)	
Comments: Currently there is a portable bridge over Werners Creek at the end of the maintained portion of Diffin Rd.. The capacity and owner of this bridge is unknown.					
018	Not Available	2G: Too wet (sensitive soils, does not include access issues)	14		
Comments:					

Report 5 – Site Conditions

Gwinn Mgt. Unit
John Hamel : Examiner

Compartment 091
Year of Entry 2015

019	Not Available	2G: Too wet (sensitive soils, does not include access issues)	18	2D: Portable Bridge Needed (Dept. bridge will be adequate)
-----	---------------	---	----	--

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
Whitefish river Boating Access Site	Concentrated Recreation Area	Boat Access Site	SCA	1.8
Comments				
SCA Removal	Potential Old Growth		SCA Removal	29.0
Comments				
Area coded POG in the Past due to poor access. Recommend removal				
SCA Removal	Potential Old Growth		SCA Removal	37.4
Comments				
Area coded POG in the Past due to poor access. Recommend removal				
SCA Removal	Potential Old Growth		SCA Removal	91.7
Comments				
Area coded POG in the Past due to poor access. Recommend removal				
SCA Removal	Potential Old Growth		SCA Removal	187.6
Comments				
Area coded POG in the Past due to poor access. Recommend removal				



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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
SCA	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.

S
t
a
n
d

Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 091
Year of Entry: 2015

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	High Density Log	14.2	95	81-110	
2	4110 - Sugar Maple Association	High Density Log	31.9	90	81-110	Good Quality Logs with Advanced Sugar Maple Regeneration
4	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	7.9	80	141-170	
5	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Log	6.7	87	141-170	Mixed stand with lots of deadfall.
6	4112 - Maple, Beech, Cherry Association	High Density Pole	8.7	90		
8	42340 - Upland Spruce/Fir	High Density Pole	4.7	92		
9	6129 - Mixed Coniferous Lowland Forest	High Density Pole	4.0	94		Poor Access
10	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	1.9	94		
11	4110 - Sugar Maple Association	High Density Pole	18.8	Uneven Age		
12	6139 - Mixed Lowland Forest	High Density Pole	3.3	68		
13	4140 - Other Upland Deciduous	High Density Pole	3.9	75		
14	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	106.0	85		
18	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	4.1	95		
19	4319 - Mixed Upland Forest	Medium Density Pole	3.2	55		upland island in a swamp
21	4112 - Maple, Beech, Cherry Association	High Density Log	15.6	Uneven Age	111-140	Nice Quality hardwood stand. Trace Aspen
22	4113 - R.Maple, Conifer	High Density Pole	20.6	Uneven Age		Poor access across creek and private
25	4319 - Mixed Upland Forest	Medium Density Pole	1.5	60		small upland Island in a swamp

S
t
a
n
d

Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 091
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	6.2	70		
6122 - Black Spruce	High Density Pole	2.3	60		
4112 - Maple, Beech, Cherry Association	High Density Log	92.9	Uneven Age	141-170	
6124 - Lowland Spruce- Fir	High Density Pole	3.9	30		
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	42.0	70		poor quality lowland stand
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	4.4	86		
6122 - Black Spruce	High Density Pole	18.3	50		
4112 - Maple, Beech, Cherry Association	High Density Log	49.8	Uneven Age	141-170	fair quality hardwood, trace hemlock in draws
4112 - Maple, Beech, Cherry Association	High Density Pole	5.6	60	111-140	
6124 - Lowland Spruce- Fir	High Density Pole	7.6	75		
6120 - Lowland Cedar	High Density Pole	34.2	79		
4115 - Y.Birch, Hemlock NH	High Density Log	53.0	Uneven Age	171-200	
6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	34.6	70		
6122 - Black Spruce	Low Density Pole	9.7	70		
6118 - Lowland Deciduous with Cedar	High Density Pole	16.8	80		
4115 - Y.Birch, Hemlock NH	High Density Log	34.4	Uneven Age	141-170	
6118 - Lowland Deciduous with Cedar	High Density Pole	18.5	60		

S
t
a
n
d

Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 091
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	4112 - Maple, Beech, Cherry Association	High Density Pole	3.5	57	111-140	Trace amounts of Balsom Fir found. aspen is falling out of this stand
49	4112 - Maple, Beech, Cherry Association	High Density Pole	6.6	57	171-200	
50	4116 - Mixed N. Hardwood - Aspen	High Density Pole	5.3	50	141-170	Aspen is in poor condition and is falling out of the stand
51	6124 - Lowland Spruce- Fir	High Density Pole	6.2	50		
53	4116 - Mixed N. Hardwood - Aspen	High Density Pole	3.9	60	141-170	Aspen is falling out of this stand
55	4130 - Aspen	High Density Sapling	2.9	20		
57	4112 - Maple, Beech, Cherry Association	Medium Density	1.7	20		
58	4130 - Aspen	High Density Log	18.1	76		Aspen is falling out of the stand
60	4116 - Mixed N. Hardwood - Aspen	High Density Log	10.4	77	111-140	poor quality hardwood and old aspen
61	4116 - Mixed N. Hardwood - Aspen	High Density Pole	9.8	77	171-200	better quality hardwood . Aspen is falling out of the stand
62	42340 - Upland Spruce/Fir	Medium Density Pole	3.3	30		Old opening filling in with Spruce and fir
63	4139 - Aspen, Mixed Deciduous	High Density Log	8.4	70		Poorl quality aspen and hardwood
65	6112 - Lowland Aspen	High Density Sapling	1.9	30		
66	4115 - Y.Birch, Hemlock NH	High Density Log	4.6	Uneven Age	81-110	Many small gaps with good regeneration
67	4115 - Y.Birch, Hemlock NH	High Density Log	2.6	120	81-110	
68	4110 - Sugar Maple Association	High Density Log	21.1	Uneven Age	111-140	Harvested in 1997. Great regeneration
69	42350 - Upland Hemlock	High Density Pole	6.6	96	51-80	
70	42350 - Upland Hemlock	High Density Log	4.6	120	81-110	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	4110 - Sugar Maple Association	High Density Log	7.4	Uneven Age	111-140	Nice Hardwood stand
72	4110 - Sugar Maple Association	High Density Log	7.4	Uneven Age	111-140	Good Log stand with good regeneration
73	4130 - Aspen	High Density Sapling	1.5	20		
74	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	10.3	80		
75	4115 - Y.Birch, Hemlock NH	Medium Density Log	11.1	Uneven Age	111-140	
76	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	5.0	70		
77	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	14.2	100		
79	4110 - Sugar Maple Association	High Density Log	8.3	Uneven Age	111-140	Good Quality saw logs.
80	4130 - Aspen	High Density Sapling	26.3	16		Good aspen regeneration
81	4115 - Y.Birch, Hemlock NH	Medium Density Log	10.9	Uneven Age	81-110	
82	4119 - Mixed Northern Hardwoods	High Density Log	67.1	Uneven Age	111-140	good regeneration from past harvest
83	6132 - Mixed Lowland Forest with Cedar	High Density Pole	14.6	70	81-110	
84	4115 - Y.Birch, Hemlock NH	High Density Log	6.8	Uneven Age	111-140	Poor quality stand
85	4112 - Maple, Beech, Cherry Association	High Density Log	56.0	Uneven Age	111-140	nice hardwood stand mostly logs. good regeneration
86	4112 - Maple, Beech, Cherry Association	High Density Log	10.0	Uneven Age	81-110	
87	6130 - Fir, Aspen, Maple	Medium Density Pole	6.7	85		
89	4112 - Maple, Beech, Cherry Association	High Density Log	86.4	Uneven Age	111-140	
90	4319 - Mixed Upland Forest	High Density Log	16.1	Uneven Age	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	59.7	100		
93	4119 - Mixed Northern Hardwoods	High Density Log	69.7	Uneven Age	111-140	
94	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	105.6	100		
96	4119 - Mixed Northern Hardwoods	High Density Pole	6.3	90	51-80	Mixed young stand
97	4113 - R.Maple, Conifer	High Density Pole	13.8	70	81-110	
98	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	11.2	60		Lot of dead and down trees in this stand
99	4112 - Maple, Beech, Cherry Association	High Density Log	13.9	Uneven Age	111-140	Good quality stand
102	4319 - Mixed Upland Forest	Medium Density Pole	4.0	70		
103	4112 - Maple, Beech, Cherry Association	High Density Log	4.8	Uneven Age	141-170	
106	6120 - Lowland Cedar	High Density Pole	32.3	100		
107	4130 - Aspen	High Density Sapling	40.8	14		
108	4130 - Aspen	High Density Sapling	45.3	16		
109	4112 - Maple, Beech, Cherry Association	High Density Pole	4.6	Uneven Age	111-140	trace of ash
110	4110 - Sugar Maple Association	High Density Log	14.8	Uneven Age	111-140	Good quality maple stand
111	4116 - Mixed N. Hardwood - Aspen	High Density Pole	6.4	90	111-140	
112	4112 - Maple, Beech, Cherry Association	High Density Log	5.3	80	111-140	
113	4112 - Maple, Beech, Cherry Association	High Density Log	3.2	Uneven Age	81-110	
114	4319 - Mixed Upland Forest	Medium Density Pole	3.0	95		stand is breaking apart

S
t
a
n
d

Gwinn Mgt. Unit

Report 8 – Forested Stands

Compartment: 091
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
116	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	14.6	50		
117	4112 - Maple, Beech, Cherry Association	High Density Pole	1.7	70	111-140	Trace hemlock
118	6120 - Lowland Cedar	High Density Pole	8.5	75		
119	6120 - Lowland Cedar	Medium Density Pole	7.7	80		Much of stand is jackstrawed
120	4119 - Mixed Northern Hardwoods	Medium Density Log	12.8	70	51-80	
121	6120 - Lowland Cedar	Medium Density Pole	15.7	90		
122	6119 - Mixed Lowland Deciduous Forest	High Density Pole	1.2	60	51-80	Low quality ash and red maple
124	6120 - Lowland Cedar	Low Density Pole	7.6	70		Flooded borders on non-forested
125	4113 - R.Maple, Conifer	High Density Pole	5.9	60	81-110	Poor Quality Stand
126	4112 - Maple, Beech, Cherry Association	High Density Log	3.0	70	81-110	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	622 - Lowland Shrub	12.0	N/A	Unspecified	
7	622 - Lowland Shrub	5.1	No	Unspecified	
15	623 - Emergent Wetland	12.1	No	Unspecified	
16	50 - Water	6.6	N/A	Unspecified	
17	50 - Water	1.5	N/A	Unspecified	
20	623 - Emergent Wetland	1.7	No	Unspecified	
23	623 - Emergent Wetland	6.5	No	Unspecified	
24	50 - Water	2.1	No	Unspecified	
31	6220 - Alder/willow	16.0	No	Unspecified	
38	6220 - Alder/willow	5.7	No	Unspecified	
41	623 - Emergent Wetland	1.5	No	Unspecified	
44	6220 - Alder/willow	8.6	No	Unspecified	
47	6220 - Alder/willow	5.6	No	Unspecified	
52	6220 - Alder/willow	7.7	No	Unspecified	
54	6239 - Mixed Emergent Wetland	2.1	No	Unspecified	
56	623 - Emergent Wetland	5.2	No	Unspecified	
59	3102 - Grass	1.7	No	Unspecified	
64	6223 - Inundated Shrub Swamp	8.0	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
78	622 - Lowland Shrub	3.9	No	Unspecified	
88	310 - Herbaceous Openland	3.5	No	Unspecified	
91	6239 - Mixed Emergent Wetland	1.1	No	Unspecified	
95	6229 - Mixed lowland shrub	6.7	No	Unspecified	
100	6220 - Alder/willow	4.9	No	Unspecified	
101	50 - Water	4.2	No	Unspecified	
104	3105 - Mixed Upland Herbaceous	2.0	No	Unspecified	
105	623 - Emergent Wetland	5.8	No	Unspecified	
115	622 - Lowland Shrub	3.0	N/A	Unspecified	
123	122 - Road/Parking Lot	1.1	No	Unspecified	Diffin Road
127	122 - Road/Parking Lot	1.5	N/A	Unspecified	Diffin Rd