ATLANTA FOREST MANAGEMENT UNIT

COMPARTMENT REVIEW PRESENTATION

COMPARTMENT 25 ENTRY YEAR: 2013

Compartment Acreage: 1731 County: Montmorency

Revision Date: May 31, 2011

Stand Examiner: Darrick Coy

Legal Description: T30N R3E Sections 5, 6, 19, 20, 30, 31, & 32

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and Topography: Soils are mostly well drained sands, specifically, Klacking and Roselawn sands in uplands. Towards the northeast and southeast portions of the compartment conditions become significantly wet with muck and silt loam soils. Overall, there are slight changes in topography, mostly broad and flat to rolling with a few hills. There is a small drainage that runs east-west within sections 19 and 20. The compartment forest habitat types are mostly PArVHa & PArVVb.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Most state owned land is strung out across multiple sections with fairly extensive gas development. Property was acquired in section 5 and disposed of in section 6.

Unique, Natural Features: See MNFI records.

Archeological, Historical, and Cultural Features: None known or reported.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: No special considerations exist.

Wildlife Habitat Considerations: This compartment provides habitat for a number of featured species including white-tailed deer, black bear, wild turkey, ruffed grouse, and American woodcock. Other species found in the compartment include barred owl and a variety of songbirds. The compartment has a history of timber management that has provided early successional habitat for these and other species. Prescribed burning is recommended in some of the existing openings to maintain their open character and grassy cover. Other openings will be treated with food and cover plantings to enhance value to wildlife species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Mississippian Coldwater and Sunbury Shales and the Devonian Berea Sandstone and Bedford and Antrim Shales. The Antrim is quarried for clay/shale elsewhere in the State. Gravel pits are located all around this area with good gravel potential on the uplands. This area has been drilled and is producing gas from the Antrim Shale. There is potential for additional Antrim Shale development.

Vehicle Access: Access to the compartment is good. Quite a few of access two-tracks were closed from the previous inventory; a few will need re-closing. Trash dumping sites were located in some openings, most occurring along two-tracks with gas easements.

Survey Needs: Sections 20 and 6.

Recreational Facilities and Opportunities: The area is primarily used for deer hunting and small game hunting. There is some ORV and snowmobile use in adjacent compartments. A few locations within the compartment need illegal ORV routes blocked off.

Fire Protection: Atlanta DNR office and Avery Township Fire Department.

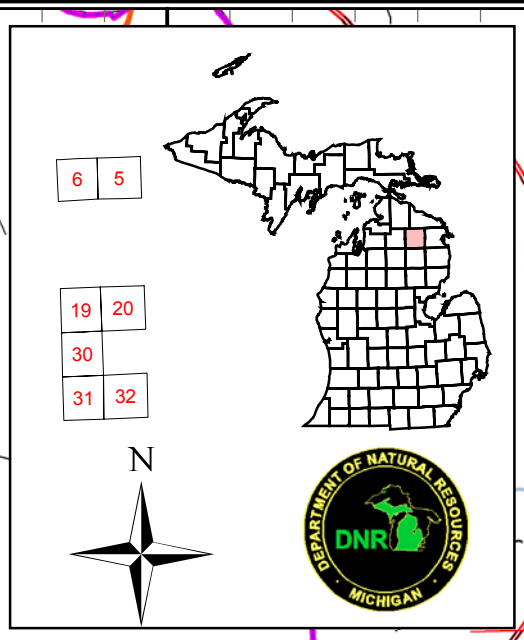
Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
  - **Cover Type by Age Class**
  - **Cover Type by Management Objective**
  - **Compartment Volume Summary**
  - **Proposed Treatments – No Limiting Factors**
  - **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - **Base feature information, stand numbers, cover types**
  - **Proposed treatments**
  - **Proposed road access system**
  - **Suggested potential old growth**

Cover Type & Treatment Map - North

Compartment 25
T30N, R03E, Sec. 5-6, 19-20, 30-32
County: Montmorency
Unit: Atlanta
YOE: 2013
Acres: 1,732 GIS Calculated
Stand Examiner: Darrick Coy
Map Revised: 8/11/2011
Map Phase: Pre-Review



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

Legend

- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Cable
- Pipe
- Power
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Bridges
- Gate
- ORV Routes
- ORV Trails
- Snowmobile Trails
- ORV Route
- ORV Trail
- Snowmobile Trail
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Prescribed Burn
- Mowing

Forest Stands
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

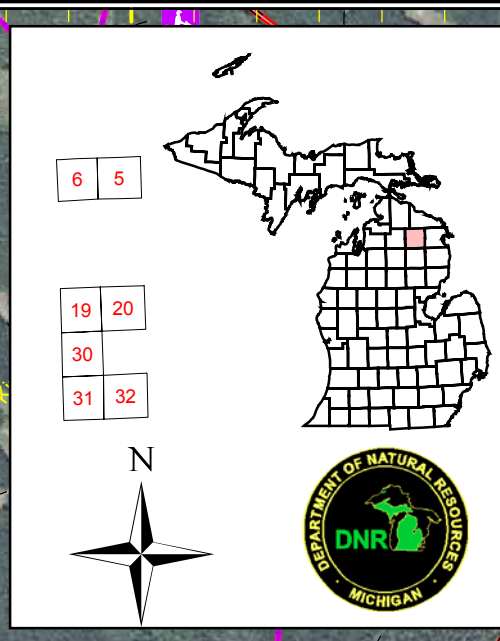
1 4131-A6
2 4130-A6
3 4222-J6
4 6117-E6
5 6123-Q5
6 4123-O9
7 6120-C6
8 6123-Q2
9 622-L0
10 6117-E3
11 122-X0
12 6115-E6
13 6115-E3
14 622-V0
15 4130-A6
16 6119-E8
17 4226-MC9
18 623-N0
19 6119-E6
20 6112-P3
21 6123-Q6

Schurman Trl
Sportsman Dam Rd
Voyer Lake Rd
Teets Trl
Wayne Trl
Voyer Lake
Nickerson Valley Rd
Hungry 5 Rd
Willie B Rd
Twin Lakes Trl
Twin Lakes Rd
Twin Lake
Smith Creek
Bentley Dr
Pleasant Valley Rd
McMurphy Rd

84°8'0"W
84°7'0"W
84°6'0"W
45°4'0"N
45°3'0"N
45°2'0"N
45°1'0"N

1 0.5 0 Miles

Stand Boundary Map - North



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Cover Type Code

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- Power
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- ORV Trails
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8 **6123**-Q2
9 **622**-L0
10 **6117**-E3
11 **122**-X0
12 **6115**-E6
13 **6115**-E3
14 **622**-V0
15 **4130**-A6
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19 **6119**-E6
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Schurman Trl
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Sportsman Lane Rd
Teets Trl
Wayne Trl
Nickerson Valley Rd
Hungry 5 Rd
Twin Lakes Trl
Willie B Rd
Smith Creek
Bentley Dr
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45°2'0"N
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84°8'0"W
84°6'0"W

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Dedicated & Proposed Special Conservation Area Map - North

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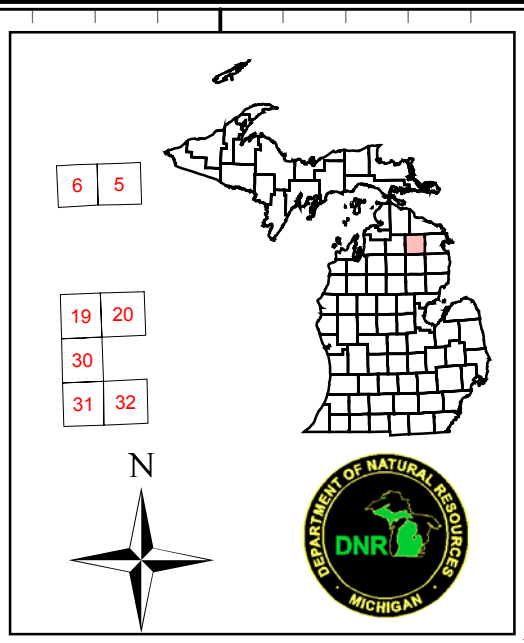

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Special Conservation Areas
- Boat Access Sites
- Cold Water Streams
- Stand Boundaries

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5

1 0.5 0 1 Miles

84°8'0"W
84°7'0"W
84°6'0"W

Cover Type & Treatment Map - South

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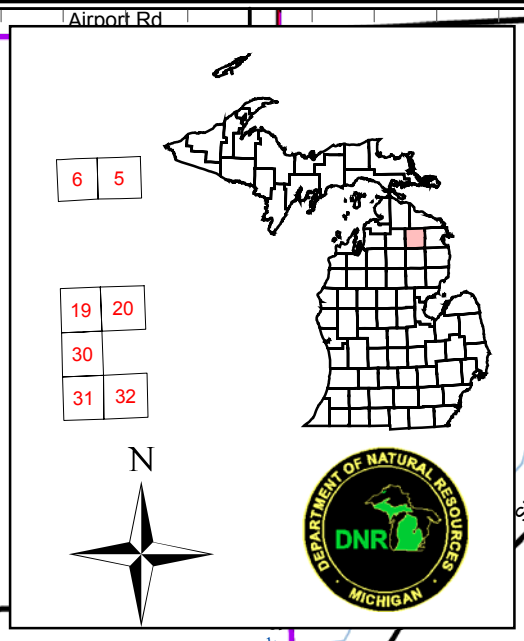
Stand # 23 — Stocking Density
(412)0) - A7
Level 3 OI
Level 4 Code
Cover Type Code



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Airport Rd
E Airport Dr
Mark Ave
Damrose Dr
Sturgis D
Savitsky Dr
Dougherty Pl
Red Bridge Dr
Keego Dr
Crooked Creek
Sturgis Rd
Tibbets Dr
Thunder Bay River
High Banks Dr
DeWyse Rd
McMurphy Rd
Mitchell Rd
V 8 Trl
County Road 487
Morningstar Lake Rd
Hardwood Hills Ln
Hardwood Hills Rd
84°7'0"W
84°8'0"W
84°6'0"W
45°0'0"N
44°59'0"N
44°58'0"N
44°57'0"N
19
20
30
31
32

Stand Boundary Map - South

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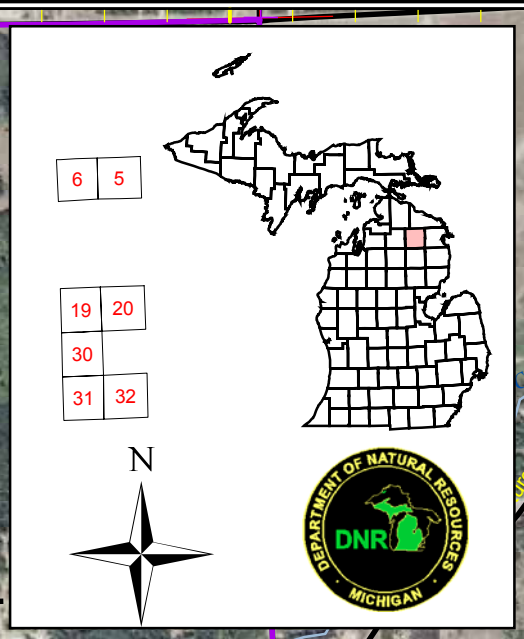

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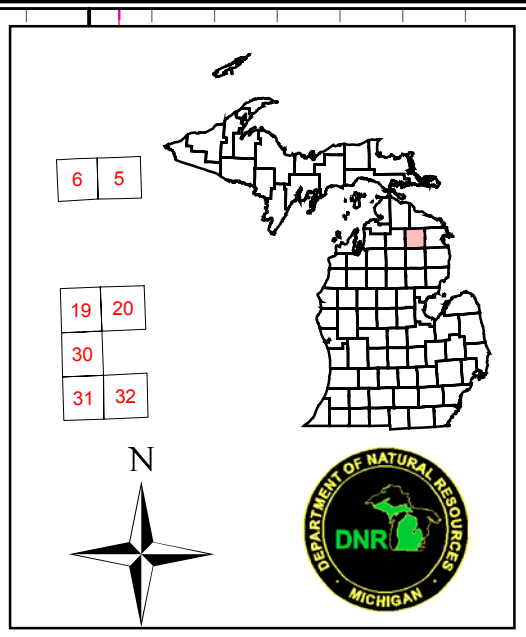

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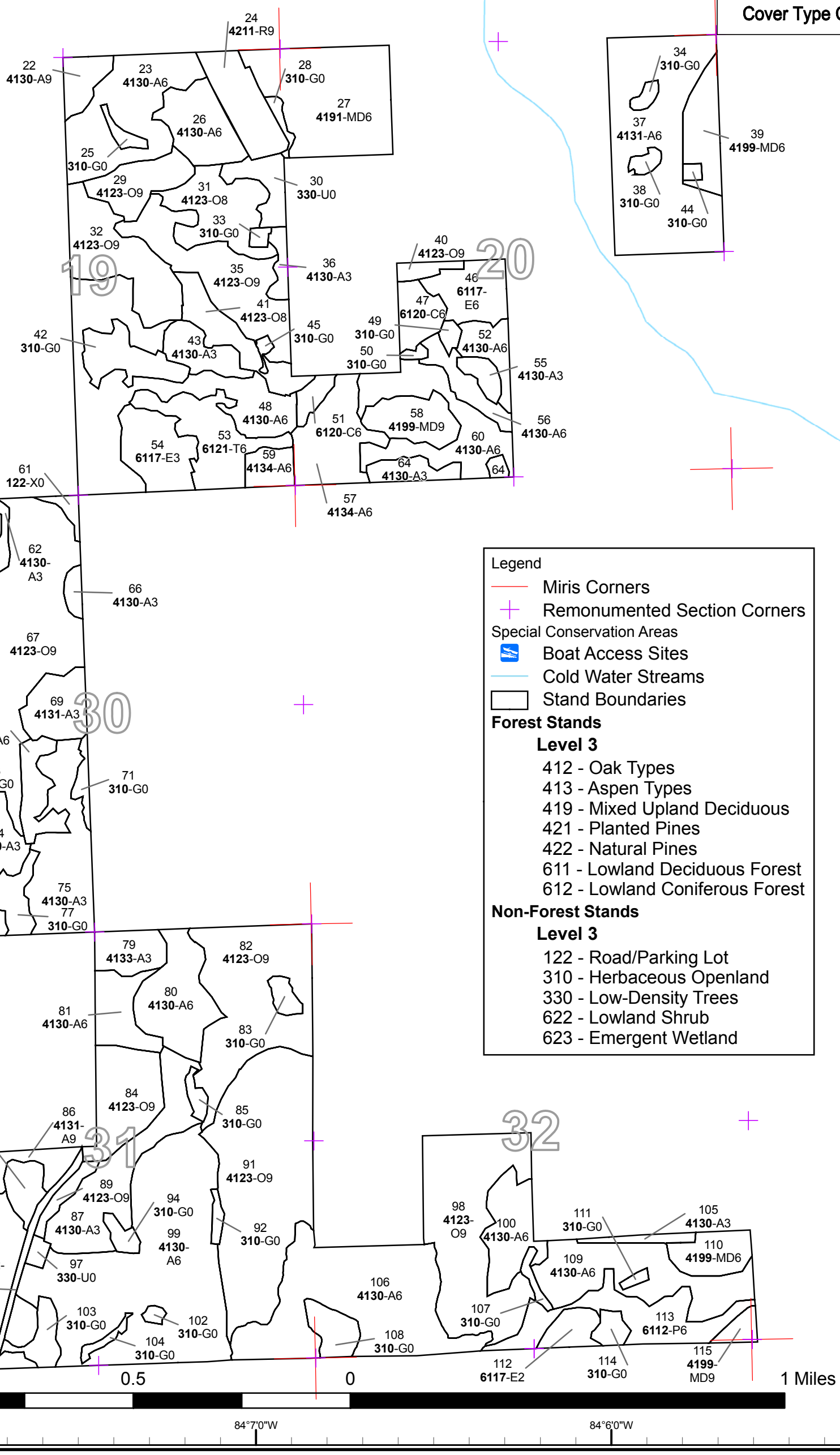

Legend
- Miris Corners
- Remonumented Section Corners

Special Conservation Areas
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- Cold Water Streams
- Stand Boundaries

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84°8'0"W
84°7'0"W
84°6'0"W

Table 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit **Compartment 025 Year of Entry 2013**

Derek Coy : Examiner

Age Class

	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	Total
Aspen	0	26	76	82	303	259	0	2	14	0	0	0	0	0	0	**762**
Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**23**
Cedar	0	0	0	0	0	0	0	0	0	0	0	5	0	12	0	**17**
Herbaceous Openland	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**75**
Jack Pine	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	**3**
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**10**
Lowland Aspen/Balsam Poplar	0	0	6	34	0	23	0	0	0	0	0	0	0	0	0	**63**
Lowland Conifers	0	0	0	0	19	9	11	0	0	0	0	0	0	0	0	**39**
Lowland Deciduous	0	0	6	28	8	27	0	0	0	42	0	15	0	0	0	**125**
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Mixed Upland Deciduous	0	0	0	0	13	0	0	0	0	26	64	0	0	0	0	**102**
Natural Mixed Pines	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	**3**
Oak	0	0	0	0	0	0	0	0	116	67	270	0	0	0	0	**453**
Red Pine	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	**16**
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	**21**
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**8**
Total	**127**	**26**	**88**	**145**	**342**	**320**	**28**	**2**	**132**	**134**	**334**	**20**	**21**	**12**	**0**	**1732**

Table 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2013

Compartment 025
Total Compartment Acres: 1732

Acres by Treatment Type

Commercial Harvest - 432	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 12	Other - 0
Habitat Cut - 0	Opening Maintenance - 63	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	215	0	0	0	0	0	**215**
Lowland Deciduous	8	0	0	0	0	0	**8**
Mixed Upland Deciduous	13	0	17	0	3	0	**32**
Oak	20	0	34	74	32	0	**161**
Red Pine	0	0	0	0	16	0	**16**
Total	**256**	**0**	**51**	**74**	**51**	**0**	**432**

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	54025004-Cut	7.6	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	84	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: -clearcut leaving wp, rp,
-no retention pockets due areas being left & small treatment under 10 acres
-harvest more of stand using supplement depending on operability
-suggest harvesting in summer or fall in specs, do not require

Other Comments: -treatment will need additional acres within sale to get sold
-may need to put landing across road

Next Steps: -regen survey in 3-5 years
-acceptable regeneration is a mix of aspen and other lowland deciduous

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	54025006-Cut	13.1	4123 - Red Oak	High Density Log	97	Harvest	Seed Tree with Reserves	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal

Prescription Specs: -seed-tree cut (w/reserves) leaving 20-30 ba oak
-keep treatment boundry out of primarily aspen/rm areas and over ridgetop to the west
-some areas will be unmarked
-no retention pockets, all species represented in leave trees

Other Comments: -average SI oak
-use powerline two-track for access
-let this convert as more of a rm, oak, and bta mix with lesser amounts of ash with established subcanopy cut in 1985

Next Steps: -regen survey in 3-5 years
-acceptable regeneration is a mix of oak and other mixed deciduous

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	54025015-Cut	4.2	4130 - Aspen	High Density Pole	48	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: -clearcut portion north of Hungry 5 Rd
-no retention due small treatment and south portion being left uncut
-leave pine and cherry

Other Comments: -cut will help small aspen cut to north get sold
-include cut with oak cut to north, use unit line to split

Next Steps: -regen survey in 3-5 years
-acceptable regeneration is aspen

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	54025022-Cut	7.0	4130 - Aspen	High Density Log	79	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: -clearcut
-leave oak and pine
-mark a few aspen that contain significant amounts of conks to become future snags
-no retention pockets necessary due to small size

Other Comments:

Next Steps: -regen survey in 3-5 years
-acceptable regeneration is aspen

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	54025024-Cut	16.1	42110 - Planted Red Pine	High Density Log	55	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: -mark thin to 110-120 residual ba

Other Comments: -thinned 2005, marked by contract

Next Steps: -thin again in 1-2 yoes

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29	54025029-Cut	13.4	4123 - Red Oak	High Density Log	87	Harvest	Clearcut with Reserves	4123 - Red Oak	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave 1 oak per acre for retention
-no other retention necessary for regeneration purposes
-leave tops scattered
-cut during snow off
-do not include stand in burns to south

Other Comments:

Next Steps:
-regeneration survey in 3-5 years
-acceptable regeneration is oak and other mixed deciduous

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	54025031-Cut	21.2	4123 - Red Oak	Medium Density Log	97	Harvest	Seed Tree	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Specs:
-seed-tree cut to 10-20 ba
-use diversity in marking oak leave trees
-require leaving tops evenly distributed and equidistant from residual oak stems to limit excessive scorching
-no retention pockets, all species represented in leave trees
-cut during snow off

Other Comments:
-stand had all red maple and aspen cut out in 1995
-stand was broken out from oak stand to south based on significant reductions density
-will likely need to under-plant pine to bring stocking up with red maple and aspen removed through burning within the next YOE inventory cycle

Next Steps:
-post harvest burn with stand 35 in 4-5 yrs to remove subcanopy red maple and reduce witch hazel
-regen survey 3-5 yrs post burn or next inventory
-acceptable regeneration is mixed deciduous and pine

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	54025035-Cut	32.2	4123 - Red Oak	High Density Log	99	Harvest	Crown Thinning	4123 - Red Oak	Cmpt. Review Proposal

Prescription Specs:
-thin oak to 70-80 ba
-require leaving tops evenly distributed and equidistant from residual oak stems to limit excessive scorching

Other Comments:
-SI- 71

Next Steps:
-within 4-5 years post-harvest, initiate a moderate intensity burn with stand 31 to remove subcanopy red maple and reduce witch hazel

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37	54025037-Cut	34.3	4131 - Aspen, Oak	High Density Pole	48	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Specs:
-clearcut- leave 1-3 oak/acre and retention pockets 3-7%
-leave all pine
-protect adv pine

Other Comments:
-leave south half for older age class diversity in compartment

Next Steps:
-regen survey 3-5 yrs
-acceptable regeneration of Aspen and Oak is expected

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
48	54025048-Cut	23.6	4130 - Aspen	High Density Pole	38	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave oak
-leave oak and 3-7% in retention pocket(s)

Other Comments:
-treating the N & W halves now should help to minimize deer browse in oak regen cuts are made to the N this YOE and limit aspen encroachment to the adjacent uncut oak stand

Next Steps:
-regen survey 3-5 yrs

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
52	54025052-Cut	8.1	4130 - Aspen	High Density Pole	48	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave oak and 3-7% in retention pocket(s)
-add shrub protection spec

Other Comments:

Next Steps:
-regen survey 3-5 yrs
-acceptable regeneration is aspen

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	54025056-Cut	8.0	4130 - Aspen	High Density Pole	48	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave retention pocket(s) 3-7%
-shrub protection spec

Other Comments:
-include stand 52 & 58 with sale
-have purchaser close access two-track off of McMurphy Rd after cutting sale, last attempt failed
-wetter site and mostly qa

Next Steps:
-regen survey in 3-5 years
-acceptable regeneration is aspen

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
58	54025058-Cut	12.7	4199 - Other Mixed Upland Deciduous	High Density Log	85	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Specs:
-clearcut, leave 1-2 oak/acre and all white pine, retention pocket(s) for steep slopes 3-7%
-protect adv oak regen and shrubs
-use diversity in marking oak leave trees
-cut during snow-off

Other Comments:

Next Steps:
-regen survey in 3-5 years
-acceptable regeneration is a mix of oak and aspen

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
70	54025070-Cut	16.7	4199 - Other Mixed Upland Deciduous	High Density Log	91	Harvest	Seed Tree with Reserves	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal

Prescription Specs:
-seed-tree cut to 20-30 ba (reserves)
-use diversity in marking oak leave trees
-no retention pockets
-represent all species in trees- leave more oak and pine, leave all wo
-protect adv pine
-cut during snow off

Other Comments:

Next Steps:
-regen survey in 3-5 years
-acceptable regeneration is a mix of aspen, oak, and pine

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
70	54025070-Cut1	2.7	4199 - Other Mixed Upland Deciduous	High Density Log	91	Harvest	Crown Thinning	4123 - Red Oak	Cmpt. Review Proposal

Prescription Specs:
-thin small portion missed from adjacent east cut to 70-80 BA

Other Comments:

Next Steps:
-merge this treated area with stand to east upon completion

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
78	54025078-Cut	2.3	4130 - Aspen	High Density Log	62	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-no retention pockets
-leave all wp & 1-2 log-sized qa/acre
-protect shrubs
-protect adv wp and oak

Other Comments:

Next Steps:
-regen survey in 3-5 years
-acceptable regeneration is aspen

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
86	54025086-Cut	6.9	4131 - Aspen, Oak	High Density Log	75	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave 1 oak per acre for visual
-no other retention necessary due to size

Other Comments:
-use two-track running e-w north of stand for access, check for corners
-fence trespass within stand

Next Steps:
-regen survey in 3-5 yrs
-acceptable regen is aspen and oak

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
88	54025088-Cut	6.6	4123 - Red Oak	High Density Log	85	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-cut during snow off
-retention pocket(s) 3-5%
-mark any relic oak of significant size to leave for future large cavity development (stand contains largest DBH/crown size oak in compartment), not to exceed more than 1 per acre

Other Comments:
-SI- 67

Next Steps:
-regen survey- 3-5 years
-acceptable regeneration is aspen, oak, and other mixed deciduous

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
91	54025091-Cut2	74.4	4123 - Red Oak	High Density Log	98	Harvest	Shelterwood	4123 - Red Oak	Cmpt. Review Proposal

Prescription Specs:
-shelterwood cut leaving to 30-40 BA of oak
-no other retention necessary for oak regeneration purposes
-require leaving tops evenly distributed and equidistant from residual oak stems to limit excessive scorching
-use diversity in marking oak leave trees
-cut during snow off

Other Comments:
SI- 58

Next Steps:
-regen survey 3-5 yrs
-post-harvest burn stand in 4-5 yrs west of Hardwood Hills Rd to reduce competition from red maple and hazel
-if no burn, post-harvest rollerchop remaining slash/tops
-regen survey post-burn within 3-5 years of next YOE
-acceptable regeneration is oak and other mixed deciduous

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
99	54025099-Cut	42.3	4130 - Aspen	High Density Pole	37	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut (partial stand treatment)
-leave all oak
-leave oak and 3-7% in retention pocket(s)

Other Comments:
-partial stand treatment to reduce oak browse within oak regeneration cut to east

Next Steps:
-regen survey in 3-5 years
-acceptable regeneration is aspen

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
100	54025100-Cut	16.2	4130 - Aspen	High Density Pole	48	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: -clearcut
-leave all oak and pine
-leave timber strip around gas well to prevent further encroachment of aspen (use as retention pocket 3-7%)

Other Comments:

Next Steps: -regen survey in 3-5 years
-acceptable regeneration is apen

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
106	54025106-Cut	62.5	4130 - Aspen	High Density Pole	46	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: -Harvesting early per compartment review decision of September 24, 2009
-Leave scattered oak and pine for visual, regeneration and mast

Other Comments: -Sale Name- Picture Day Aspen (54-033-10-01)

Next Steps: -Regen survey 3-5 years
-Acceptable regeneration is any combination of aspen, oak, or pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
77	NF_54025077-Burn	11.8	Non-Forested		0	Prescribed Burn	Unspecified	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -old pine barren stand
-burn to enhance and recover native grasses and reduce sweet fern

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	NF_54025025-NonFor	2.2	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	NF_54025028-NonFor	1.7	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	NF_54025033-NonFor	1.2	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	NF_54025034-NonFor	1.7	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	NF_54025038-NonFor	2.0	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	NF_54025042-NonFor	12.3	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44	NF_54025044-NonFor	1.1	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45	NF_54025045-NonFor	1.0	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49	NF_54025049-NonFor	1.7	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
50	NF_54025050-NonFor	1.0	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63	NF_54025063-NonFor	1.0	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
71	NF_54025071-NonFor	2.9	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73	NF_54025073-NonFor	1.0	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
83	NF_54025083-NonFor	3.0	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
85	NF_54025085-NonFor	2.3	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
92	NF_54025092-NonFor	1.6	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
94	NF_54025094-NonFor	2.8	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
102	NF_54025102-NonFor	1.1	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
103	NF_54025103-NonFor	6.1	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
104	NF_54025104-NonFor	1.7	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
107	NF_54025107-NonFor	2.0	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
108	NF_54025108-NonFor1	7.1	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
111	NF_54025111-NonFor	1.0	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
114	NF_54025114-NonFor	3.3	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: -maintain opening to prevent tree and shrub encroachment
-plant for browse and cover crops as needed

Other Comments:

Next Steps:

Total Treatment Acreage Proposed: 506.4

Table 4 -- Treatments Prescribed with a Limiting Factor

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

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: **0**

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2013

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

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	4131 - Aspen, Oak	High Density Pole	24.2	41		-may need survey, find corners
2	4130 - Aspen	High Density Pole	24.1	42		OI- A6a3 with some areas of jackpine regen. There was originally a jack pine stand along the road. Sign trespass. No idea where the corners are. Need survey. -good clones, high density aspen
3	42220 - Natural Jack Pine	High Density Pole	3.2	41		
4	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	25.8	84		
5	6123 - Lowland Fir	Medium Density Pole	6.5	47		-fairly broken up canopy -high tag alder, re-inventory in leaf-off
6	4123 - Red Oak	High Density Log	24.6	97	51-80	-very low oak adv regen stocking, blanket of rm in subcanopy -regen mostly aspen with some red maple -most rm over 15-20ft tall -found FIA plot in stand
7	6120 - Lowland Cedar	High Density Pole	4.7	107	81-110	-trees growing on hummocks
8	6123 - Lowland Fir	Medium Density	11.5	54		-stagnant growth due to high watertable -inventory in winter
10	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	7.7	36		
12	6115 - Lowland Ash	High Density Pole	15.0	102		-wet ground -trees growing on hummocks -stagnant growth
13	6115 - Lowland Ash	High Density Sapling	12.6	49		
15	4130 - Aspen	High Density Pole	25.6	48	81-110	OI- SOME RED PINE SAWLOGS
16	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	9.5	87		-great stand for wildlife- plenty of cavity trees mixed with conifer and white oak and beech coming in
17	42260 - Natural Pine, Mixed Deciduous	High Density Log	2.6	73		
19	6119 - Mixed Lowland Deciduous Forest	High Density Pole	6.3	86		-newly aquired

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6112 - Lowland Aspen	High Density Sapling	6.2	18		-clearcut a while back, appear to have left some aspen for cavity trees
21	6123 - Lowland Fir	High Density Pole	2.2	42		-newly aquired -it appears that wood from cut to north was forwarded south through this stand and a landing was created in the adjacent opening
22	4130 - Aspen	High Density Log	7.0	79		OI- Left as buffer, both along the roads, both small in size.
23	4130 - Aspen	High Density Pole	34.0	38	81-110	OI- a6a3 low diversity, on higher ground -very high density pole stand
24	42110 - Planted Red Pine	High Density Log	16.1	55	141-170	140, 120, 130, 150, 170, 190, 170
26	4130 - Aspen	High Density Pole	16.7	32		-fair amount of advanced oak regen from cc -appears to be slightly younger than aspen to west
27	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	44.2	95	51-80	-fair amount of adv oak regen, 20-30ft (10-20% coverage) tall needing release -more open oak stand with pine coming in subcanopy
29	4123 - Red Oak	High Density Log	13.4	87	51-80	-slightly understocked oak log stand -traces of oak regen but most were supressed
31	4123 - Red Oak	Medium Density Log	21.2	97	1-50	New stand added. -broke out stand due to density change -loaded with rm and hazel -lower oak residual stocking, mostly mast trees
32	4123 - Red Oak	High Density Log	26.8	96	81-110	-fairly open subcanopy in some areas and full of rm in others -less overall rm sapling coverage (40-50% coverage) than adjacent oak stand to east -average quality oak -more of a component of 6-7 inch rm and aspen
35	4123 - Red Oak	High Density Log	32.2	99	81-110	OI- Red maple undestory from sprouts with oak seedlings. <--- should say NO oak seedlings..... -good quality oak sawtimber stand, similar to stand 3 to south -patchy areas of higher and lower ba -present blanket of rm will cover any oak regen (60-70% coverage)
36	4130 - Aspen	High Density Sapling	3.6	17		
37	4131 - Aspen, Oak	High Density Pole	62.7	48		OI- seems to have had the aspen and red maple removed in the 60s, so year of origin is for the older oak. Along Keego Road there is larger aspen and oak. It seems to have been a buffer for the sale that was done to the south. A gas pipeline was installed along the north end of this section. Corners seem to be on north side of pipeline, but not sure.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4199 - Other Mixed Upland Deciduous	High Density Pole	12.9	37		-stand is fairly open in subcanopy -rm and oak is of poor quality and will be in future from irregular stocking from past clearcut
40	4123 - Red Oak	High Density Log	3.0	85	81-110	OI- no access through state. There is a trail from PVT to the north. Squirrel ridge.
41	4123 - Red Oak	Medium Density Log	14.1	97	1-50	New stand added. -broke stand out due to density change
43	4130 - Aspen	High Density Sapling	9.6	25		OI- very small patch along trail near 420.
46	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	13.9	48	51-80	-wet in north-central portion of stand OI- various ages of spruce and fir with some lowland aspen OI- small stream flows to east. Fir along edges. Not sure of fence and signs on south edge by 413 -one of the older aspen stands in the compartment -aspen have no defect and are vigorous
47	6120 - Lowland Cedar	High Density Pole	8.4	152	141-170	OI- small stream flows to east. Wet in places. Fir along edges. Not sure of fence and signs on south edge by 413 -pockets of very high density cedar -trees growing on hummocks
48	4130 - Aspen	High Density Pole	53.4	38	51-80	New stand added. OI- Jack pine along swamp border. Some dogwood on north side of 420. Some areas have a3 rather than poles. -mixed aspen -from SE to NW stand becomes heavier to bigtooth -high density, vigorous
51	6120 - Lowland Cedar	High Density Pole	3.7	135	81-110	OI- some blowdown along road used by hares. Swamp connected adjacent swamps through private ownerships. Small stream ranger creek.
52	4130 - Aspen	High Density Pole	8.1	48	51-80	OI- pole stand next to private line
53	6121 - Tamarack	High Density Pole	21.4	110	111-140	-small stream flows through stand -re-inventory in winter or wear rubber boots
54	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	17.0	25		OI- Quite a bit of this stand is on former cedar stand. Good patch for hare and grouse but hunted hard. The wet areas did not regenerate well, and no cedar regen. CUT WITH 23. -wet (RUBBER BOOTS) and high amts of tag alder
55	4130 - Aspen	High Density Sapling	3.9	17		-little-no subcanopy trees/shrubs -good vigorous bta clones
56	4130 - Aspen	High Density Pole	8.0	48	51-80	-dry drainage between adjacent aspen leading into cedar swamp

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4134 - Aspen, Spruce/Fir	High Density Pole	21.3	48		-Some areas have a3 rather than poles -heavy to fir in subcanopy
58	4199 - Other Mixed Upland Deciduous	High Density Log	12.7	85	51-80	-more open oak stand, most oak stems over 18-20 in dbh and average-good timber quality -lesser amounts of aspen and rm -left oak from last treatment -aspen same age as adj stand to east
59	4134 - Aspen, Spruce/Fir	High Density Pole	6.2	35		New stand added.
60	4130 - Aspen	High Density Pole	26.7	38	51-80	OI- SOME OAK RESIDUAL. Deer use.
62	4130 - Aspen	High Density Sapling	7.0	16		
64	4130 - Aspen	High Density Sapling	7.4	17		
65	4123 - Red Oak	High Density Pole	27.3	78	51-80	-traces of white oak -hill along e1/2 of stand 40-55% slope
66	4130 - Aspen	High Density Sapling	2.6	16		
67	4123 - Red Oak	High Density Log	88.2	76	51-80	-some veneer red oak and white oak -some internal rot/conks showing on small amt (5%) of bta internal rot appearing in bta clones -some epicormic branching on oaks from past thinning -no adv oak regen from past trtmt
68	4130 - Aspen	High Density Sapling	19.9	16		OI- Sandy site aspen. Used by songbirds.
69	4131 - Aspen, Oak	High Density Sapling	12.9	4		-good bta regen with traces of oak adv regen
70	4199 - Other Mixed Upland Deciduous	High Density Log	19.4	91	51-80	-stand is slightly mixed with pine and more heavily with aspen -quality is moderate in oak to west, becoming better when heading east
72	4130 - Aspen	High Density Pole	10.0	28		-more pure bta stand
74	4130 - Aspen	High Density Sapling	12.8	4		OI- HAZEL NUT and THORNAPPLE.
75	4130 - Aspen	High Density Sapling	29.8	26		OI- A good bit of thornapple. South east corner is on a drier site and has more oak and cherry brush. May be due to jack pine stand in this part of this area.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	4130 - Aspen	High Density Sapling	21.7	16		OI- The trail to west is used to access a hunting camp, and may not be closed.
78	4130 - Aspen	High Density Log	2.3	62		OI- Used by songbirds. Sandy site aspen. -a fair amount of adv oak regen -qa starting to lose vigor
79	4133 - Aspen, Mixed Pine	High Density Sapling	9.7	16		OI- In 1994 DECIDED TO LET ASPEN GROW, instead of planting. There is more aspen near the road. R7a2 -aspen are growing, slowly, not due to pine cover, good structural diversity, must have been fairly wet at harvest a lot of ruts still visible
80	4130 - Aspen	High Density Pole	23.1	37		-mostly small pole bta
81	4130 - Aspen	High Density Pole	12.2	37		New stand added. -pretty much all qa -white pine just developing 10-15 yrs old from larger wp
82	4123 - Red Oak	High Density Log	49.6	97	1-50	New stand added. -40% cover of rm and bta from 37 yr old cut -over 50% of oak ba in logs over 18 in
84	4123 - Red Oak	High Density Log	21.1	97	51-80	-stand is more open grown, more mast trees -witchazel 60% cover & rm 40% cover -oak aging, and have larger diameters than other denser oak stands within comp -more rp and bta near north end, lower amount of residual rm and aspen overall than most oak stands in comp
86	4131 - Aspen, Oak	High Density Log	6.9	75		-area left as buffer along road -aspen oak mix -10% of bta showing decline rot/conks -more oak within east side of co rd 487
87	4130 - Aspen	High Density Sapling	30.0	26		OI- chipped sale along travel corridor. OI- Illegal deer shack back behind cabin, overlooking this stand. Hasn't been used in a while. Some thornapple, especially by opening 444
88	4123 - Red Oak	High Density Log	6.6	85	81-110	OI- Heavy witch hazel understory. One small pond by edge of 46 with dogwood. Quite variable. Scenic. More open on west side of road. Nice spring colors from cherry and serviceberry blooms. -largest oak found in compartment in this stand
89	4123 - Red Oak	High Density Log	3.8	97		-left as buffer from aspen cc to east, mostly oak and some aspen
91	4123 - Red Oak	High Density Log	76.7	98	51-80	OI- maturing oak with some red maple and aspen. Squirrel and deer use. Witch hazel common. -low amount of residual rm and aspen -average oak diameter is 16 in -no adv oak regen

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
93	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	11.4	25		OI- Blow down area in parts. Some regenerating lowland aspen and tag alder. Raised water table caused by nearby beaver activity.
95	6112 - Lowland Aspen	High Density Sapling	34.5	25		OI- Lowland aspen. Some areas quite wet. Beaver activity on Chadwick Creek outlet has raised water table on western parts. The trail going through is listed as a county road (Morning Star lake Road). It has not been maintained by them. Several attempts to widen it have been turned aside. This is a wet road. It has been used as a trash dumping route. (near dump)
98	4123 - Red Oak	High Density Log	44.0	88	51-80	-fairly low stocked oak stand with high amounts 70-80% coverage of rm in subcanopy -most oak crowns have full release -only dense rm in any canopy gaps -majority of rm under 2 in dbh -lesser amts of witchazel compared to other oak stands -no adv oak found -rolling terrain
99	4130 - Aspen	High Density Pole	98.2	37		OI- Young poles with scattered oak. Close unneeded roads.
100	4130 - Aspen	High Density Pole	16.2	48		-stand was previously coded as grass -most of stand appears to be 48 yrs old, older in portions to east
101	6123 - Lowland Fir	High Density Pole	19.2	34		OI- Fir along east edge. It has some white pine, fir, cedar, tamarack, and spruce. It was listed as a spruce stand previously. Some mortality has occurred due to raised water table from beaver activity. Stream at this point is ephemeral and braided. There are some maneating muck holes in this stand. Tread carefully! Pockets of tag alder and e type vegetation. -older overstory of tamarack & cedar area almmost gone giving rise to smaller balsam, age is for the new -fairly broken up canopy/not well defined
105	4130 - Aspen	High Density Sapling	3.1	23		
106	4130 - Aspen	High Density Pole	68.8	46		OI- Young poles with a few scattered oak. Stocking is lower in sw with a little cherry
109	4130 - Aspen	High Density Pole	32.2	38		OI- small poles over regen. Private to the north is an O7 A3. Within last ten years.
110	4199 - Other Mixed Upland Deciduous	High Density Pole	10.4	88	51-80	OI- M5a4o4. Developing hardwood stand. Really nice hardwoods on private to south. A road was built to access private timber across state land. This road was bermed closed. Decked timber still remains. Check in the spring. -still a primarily an oak stand -it appears that some aspen were removed 30-40 years ago -fairly irregular stocking and more extreme variations in size class distributions across the stand in all non-aspen species

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
112	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	6.2	15		New stand added. OI- There is a central (older) core which is quite wet (1940). There is the outer area which was cut more recently (1971) with moist ground and heavy fir understory. -appears to have been patially harvested with younger aspen coming in -significantly wetter than surrounding stands
113	6112 - Lowland Aspen	High Density Pole	22.5	49		OI- There is a central (older) core which is quite wet (1940). There is the outer area which was cut more recently (1971) with moist ground and heavy fir understory.
115	4199 - Other Mixed Upland Deciduous	High Density Log	2.5	87		

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
9	622 - Lowland Shrub	3.3	No	Unspecified	
11	122 - Road/Parking Lot	1.2	No	Unspecified	
14	6225 - Bog	22.9	No	Unspecified	
18	623 - Emergent Wetland	1.8	No	Unspecified	
25	3102 - Grass	2.2	Yes	Medium (NonForested)	-a fair amount of garbage is being dumped in this opening (see OFS)
28	3102 - Grass	1.7	Yes	Medium (NonForested)	
30	3301 - Low Density Deciduous Tree	8.1	Yes	Medium (NonForested)	
33	3102 - Grass	1.3	Yes	Medium (NonForested)	
34	3102 - Grass	1.7	Yes	Medium (NonForested)	close road.
38	3102 - Grass	2.0	Yes	Medium (NonForested)	OLD DUMP-COVERED. Rather uneven. Trash around the edges in places. Close roads.
42	3102 - Grass	12.3	Yes	Medium (NonForested)	
44	3102 - Grass	1.1	Yes	Medium (NonForested)	
45	3102 - Grass	1.0	Yes	Medium (NonForested)	
49	310 - Herbaceous Openland	1.7	Yes	Medium (NonForested)	
50	3102 - Grass	1.0	Yes	Medium (NonForested)	
61	122 - Road/Parking Lot	2.2	No	Unspecified	
63	3102 - Grass	1.0	Yes	Medium (NonForested)	
71	3102 - Grass	2.9	Yes	Medium (NonForested)	OI- used as log landing in the past--some thornapple to west and clumps of witch hazel

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
73	3102 - Grass	1.0	Yes	Medium (NonForested)	
77	3102 - Grass	11.8	Yes	High (NonForested)	
83	3102 - Grass	3.0	Yes	High (NonForested)	
85	3102 - Grass	2.3	Yes	Medium (NonForested)	
90	622 - Lowland Shrub	5.5	No	Unspecified	OI- This is a wet, often flooded site. It is a backwater of a flooding caused by beavers on Chadwick Creek. The creek is actually southwest in another compartment. There is marsh grass here, some tag alder, and some conifer on hummucks or higher ground. The outskirts tend to have more balsam fir and lowland aspen. Continue to direct beaver trappers here.
92	3102 - Grass	1.7	Yes	Medium (NonForested)	OI -used log landing to create opening. Close roads.
94	3102 - Grass	2.8	Yes	Medium (NonForested)	
96	122 - Road/Parking Lot	5.1	No	Unspecified	
97	3301 - Low Density Deciduous Tree	1.8	No	Unspecified	
102	3102 - Grass	1.1	Yes	Medium (NonForested)	
103	3102 - Grass	6.1	Yes	Medium (NonForested)	
104	3102 - Grass	1.7	Yes	Medium (NonForested)	
107	3102 - Grass	2.0	Yes	Medium (NonForested)	
108	3102 - Grass	7.7	Yes	High (NonForested)	
111	3102 - Grass	1.0	Yes	Medium (NonForested)	
114	3102 - Grass	3.3	Yes	High (NonForested)	

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.

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.

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.