



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 66

Entry Year 2016

Acreage: 1,790

County Montmorency

Management Area: Thunder Bay Outwash

Revision Date: 05/02/2014

Stand Examiner: Richard Barber

Legal Description:

T32N, R02E, Sec. 24, 25 & 26

Identified Planning Goals:

Balance age class distribution.

Soil and topography:

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

Compartment 66 is generally flat to gently rolling. Total topographic change is about 50-60 feet.

The northern two-thirds slope toward a central wetland corridor. This conifer dominated corridor is a high swamp. The north end forms the headwater of Tomahawk Creek (Black River Watershed) while the south end forms the headwater of the North Branch of the Thunder Bay River (Thunder Bay River Watershed.)

Soils are muck and slightly decomposed plant material in the wetlands, sands and loamy sands on the uplands. Habitat types outside of the central lowland corridor are mostly PARVHa and PARVVb, with AFO in the hardwood stands.

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:

None.

Watershed and Fisheries Considerations:

Tomahawk Creek is an SCA for cold water stream. It feeds the Black River, an SCA for high priority trout stream.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species found in this compartment. These species include ruffed grouse, black bear, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest, the retention of large, over-mature trees and snags and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale. The Antrim is quarried for cement products. The nearest gravel pits are located one mile to the east and potential is good. This area has had limited Antrim Shale development. The Antrim Shale is thinning and leasing is limited to the south with drilling advancing slowly.

Vehicle Access:

Roads to be closed are shown on the compartment map as closed or abandoned.

Survey Needs:

Surveying will be required to prove trespass or for timber sale preparation.

Recreational Facilities and Opportunities:

ORV trails and MCCCT are found here. A snowmobile trail does double duty as an ORV route.

Fire Protection:

Hillman VFD and MDNR Atlanta.

Additional Compartment Information:

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**

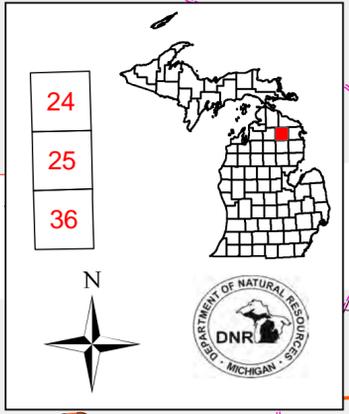
The following information is displayed, where pertinent, on the attached compartment maps:

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

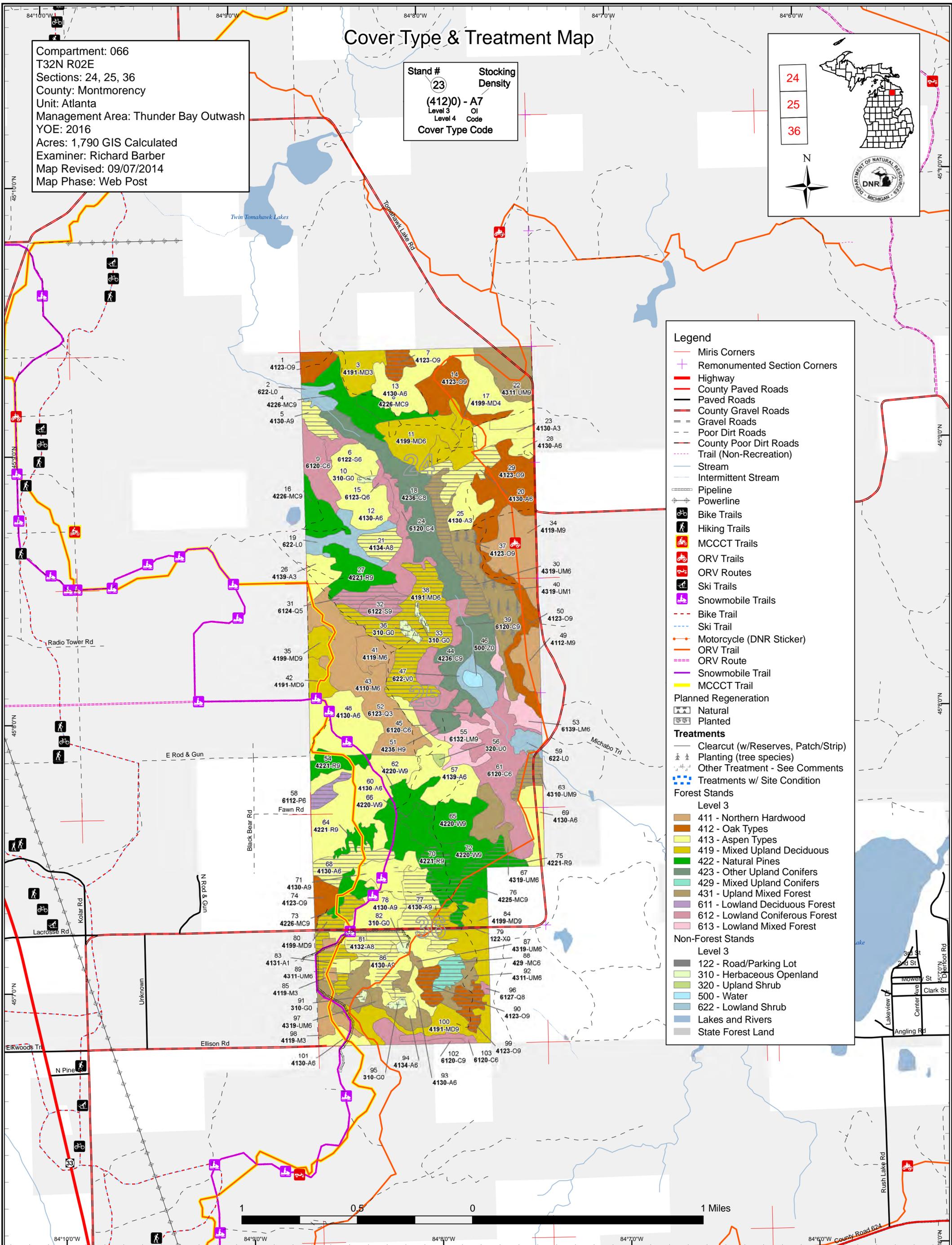
Cover Type & Treatment Map

Compartment: 066
 T32N R02E
 Sections: 24, 25, 36
 County: Montmorency
 Unit: Atlanta
 Management Area: Thunder Bay Outwash
 YOE: 2016
 Acres: 1,790 GIS Calculated
 Examiner: Richard Barber
 Map Revised: 09/07/2014
 Map Phase: Web Post

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



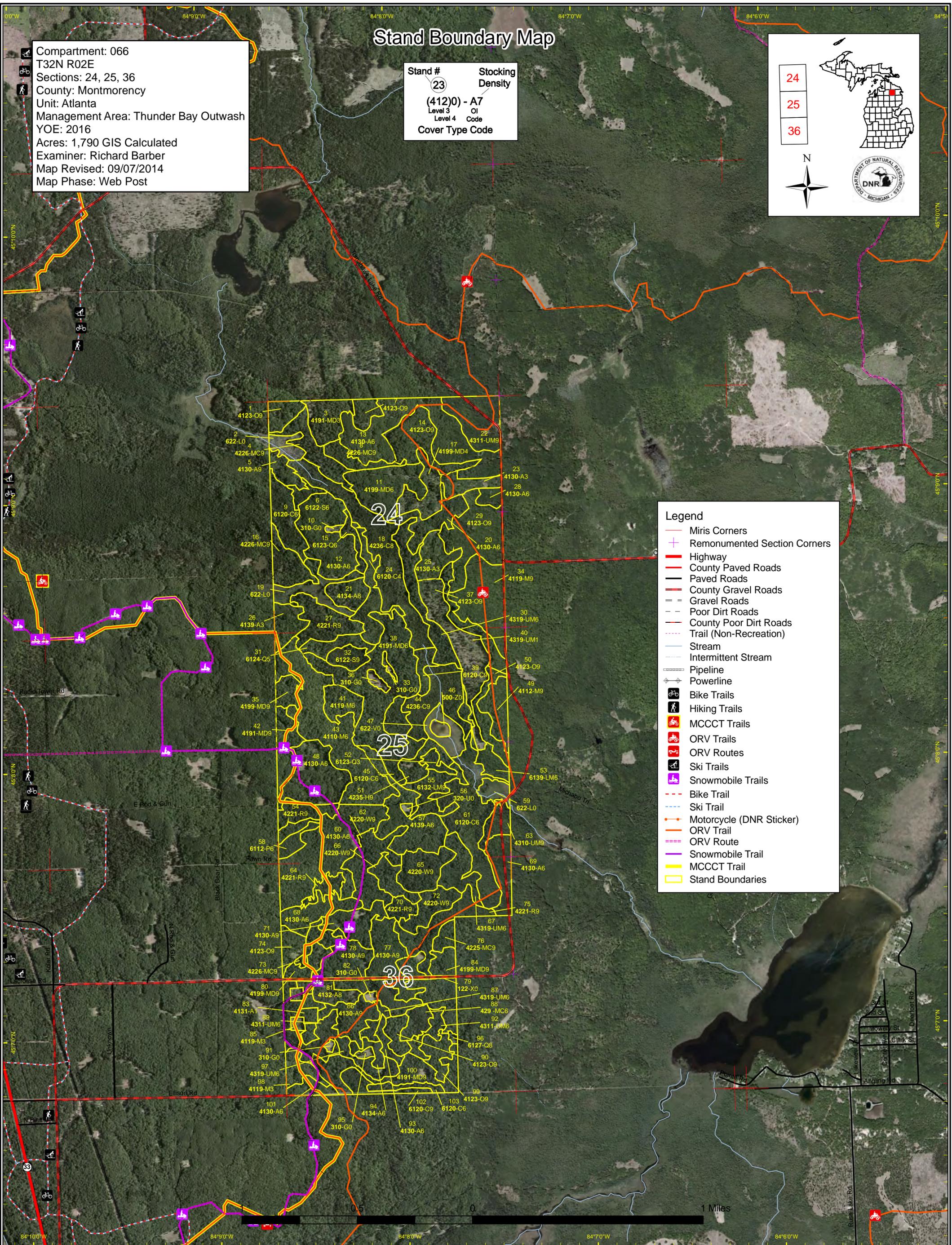
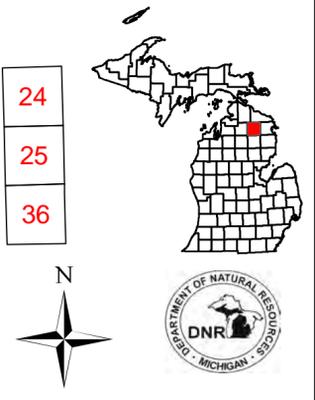
- ### Legend
- Miris Corners
 - Remonumented Section Corners
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Stream
 - Intermittent Stream
 - Pipeline
 - Powerline
 - Bike Trails
 - Hiking Trails
 - MCCCT Trails
 - ORV Trails
 - ORV Routes
 - Ski Trails
 - Snowmobile Trails
 - Bike Trail
 - Ski Trail
 - Motorcycle (DNR Sticker)
 - ORV Trail
 - ORV Route
 - Snowmobile Trail
 - MCCCT Trail
- ### Planned Regeneration
- Natural
 - Planted
- ### Treatments
- Clearcut (w/Reserves, Patch/Strip)
 - Planting (tree species)
 - Other Treatment - See Comments
 - Treatments w/ Site Condition
- ### Forest Stands
- Level 3
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed 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
 - 320 - Upland Shrub
 - 500 - Water
 - 622 - Lowland Shrub
 - Lakes and Rivers
 - State Forest Land



Stand Boundary Map

Compartment: 066
 T32N R02E
 Sections: 24, 25, 36
 County: Montmorency
 Unit: Atlanta
 Management Area: Thunder Bay Outwash
 YOE: 2016
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 Examiner: Richard Barber
 Map Revised: 09/07/2014
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Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



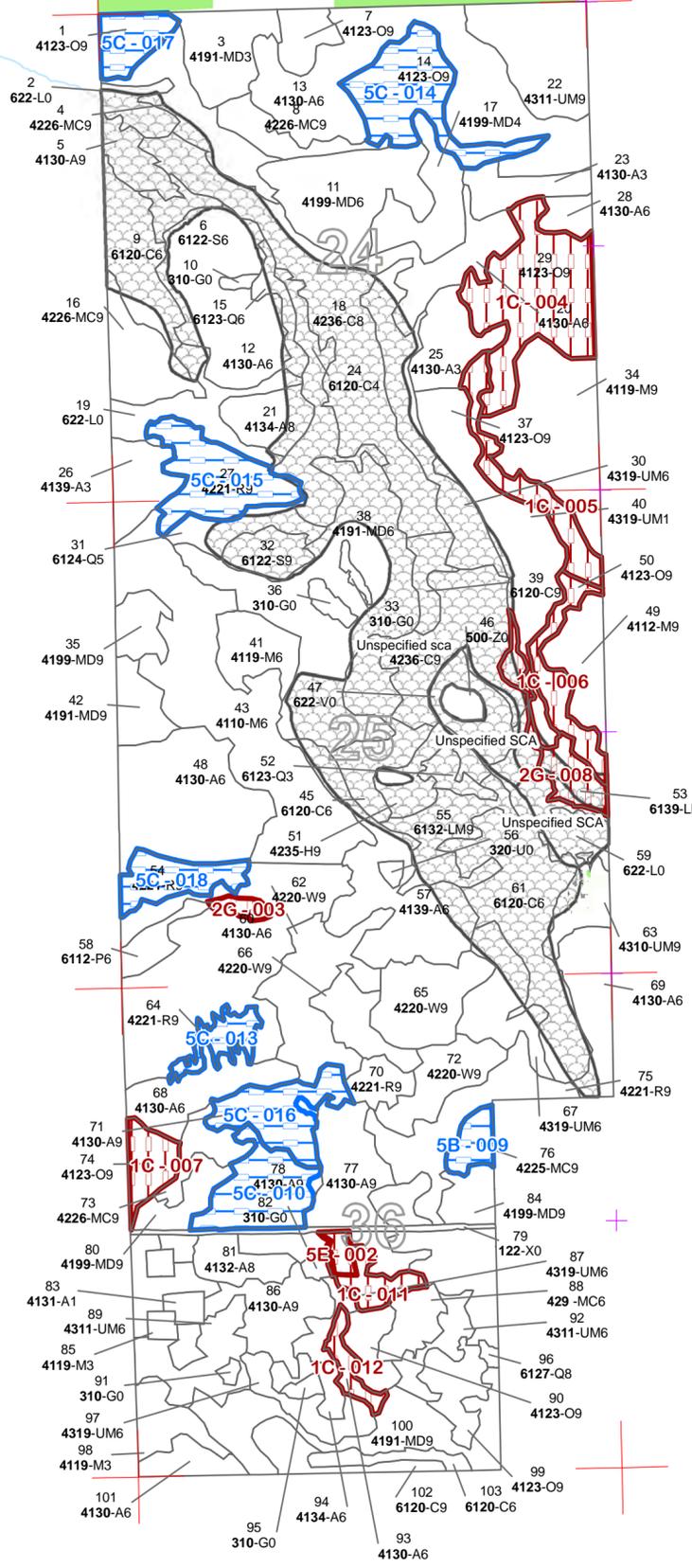
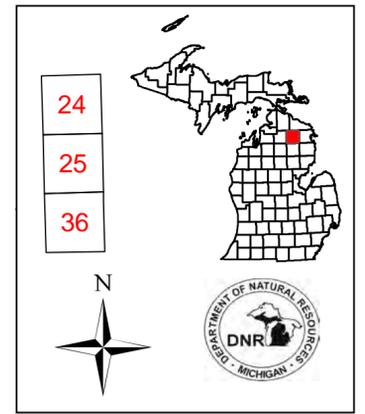
- Legend**
- Miris Corners
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 - ORV Routes
 - Ski Trails
 - Snowmobile Trails
 - Bike Trail
 - Ski Trail
 - Motorcycle (DNR Sticker)
 - ORV Trail
 - ORV Route
 - Snowmobile Trail
 - MCCCT Trail
 - Stand Boundaries

1 Miles

Special Conservation Areas & Site Conditions Map

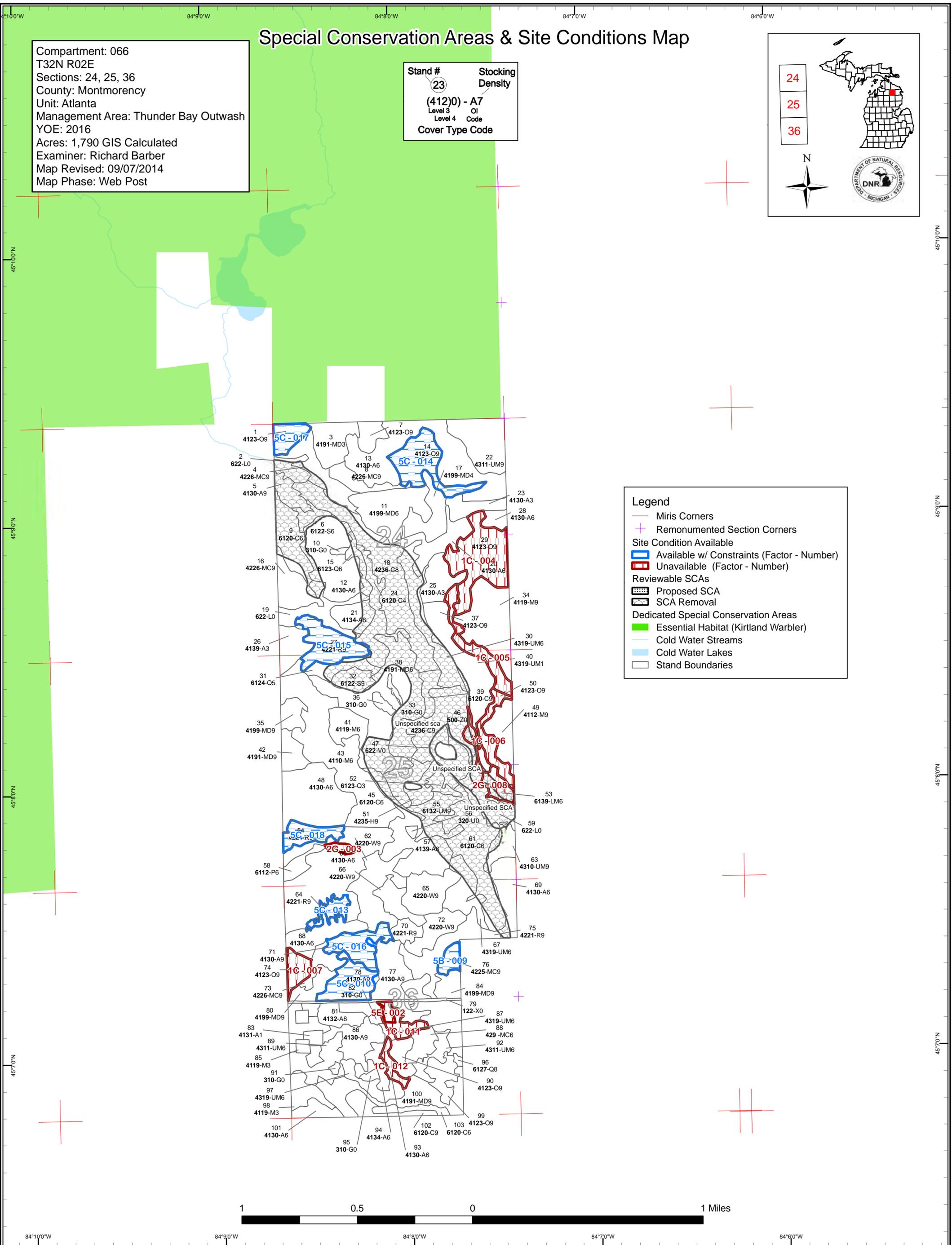
Compartment: 066
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Stand # 23
 Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Remonumented Section Corners
- Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Reviewable SCAs
 - Proposed SCA
 - SCA Removal
- Dedicated Special Conservation Areas
 - Essential Habitat (Kirtland Warbler)
 - Cold Water Streams
 - Cold Water Lakes
 - Stand Boundaries



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	5	26	121	125	84	135	0	8	0	0	0	0	0	0	505
Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Cedar	0	0	0	0	0	0	0	0	15	0	0	0	209	0	224
Hemlock	0	0	0	0	0	0	0	0	0	11	0	0	0	0	11
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	5	0	6	10	1	0	0	0	0	22
Lowland Mixed Forest	0	0	0	0	0	0	0	12	0	0	0	0	17	0	29
Lowland Shrub	33	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Spruce/Fir	0	0	0	0	0	0	0	5	9	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	18	0	33	0	0	18	119	21	32	0	0	0	241
Natural Mixed Pines	0	0	0	0	17	0	0	0	6	29	9	0	0	0	61
Northern Hardwood	0	4	10	0	0	0	0	0	86	54	0	0	0	0	155
Oak	0	0	0	0	0	0	0	0	10	132	0	0	0	0	141
Red Pine	0	0	0	0	0	0	0	0	31	12	30	0	0	0	74
Upland Conifers	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Upland Mixed Forest	0	38	0	18	28	40	0	0	35	0	0	0	0	0	159
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	0	0	76	0	0	0	0	76
Total	70	67	150	149	162	180	0	57	321	336	71	0	226	0	1790



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2016

Compartment 066
Total Compartment Acres: 1,790

Acres by Treatment Type

Commercial Harvest - 326 Tree Planting - 102 Other - 0
 Habitat Cut - 6 Opening Maintenance - 9

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
(Habitat Cut)Lowland Deciduous Forest	6	0	0	0	0	0	0	6
Aspen Types	114	0	0	0	0	0	0	114
Lowland Coniferous Forest	19	0	0	0	0	0	0	19
Mixed Upland Conifers	9	0	0	0	0	0	0	9
Mixed Upland Deciduous	91	0	0	0	0	0	0	91
Natural Pines	30	0	0	0	0	0	0	30
Oak Types	27	0	0	0	0	0	0	27
Upland Mixed Forest	35	0	0	0	0	0	0	35
Total	332	0	0	0	0	0	0	332



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	54066005- CCR	8.5	4130 - Aspen	High Density Log	73		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole.										
<u>Other</u> Cut with stand 22, compartment 65.										
<u>Comments:</u>										
<u>Next</u> Regen survey. Acceptable regeneration is any combination of aspen, red maple, red pine, oak, aspen, spruce, fir, jack pine, or white pine										
<u>Steps:</u> resulting in a medium or well stocked stand.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
7	54066007- CCR	8.0	4123 - Red Oak	High Density Log	93	81-110	Harvest	Clearcut with Reserves	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Acceptable regeneration is any combination of red pine, oak, red maple, birch, aspen, fir, jack pine, or white pine resulting in a medium or well										
<u>Steps:</u> stocked stand.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
20	54066020- CCR	18.4	4130 - Aspen	High Density Pole	41		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole. Preferred location will be in non-linear patches near recreational trails.										
<u>Other</u> Use current, standard trail specs for safety and infrastructure protection.										
<u>Comments:</u>										
<u>Next</u> Regen survey. Acceptable regeneration is any combination of aspen, red maple, red pine, oak, aspen, spruce, fir, jack pine, or white pine										
<u>Steps:</u> resulting in a medium or well stocked stand.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
21	54066021- CCR	11.9	4134 - Aspen, Spruce/Fir	Medium Density Log	41		Harvest	Clearcut with Reserves	4199 - Other Mixed Upland Deciduous	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole. Cut no oak.										
<u>Other</u> May need bridge or crane mats										
<u>Comments:</u>										
<u>Next</u> Regen survey. Acceptable regeneration is any combination of aspen, red maple, red pine, oak, aspen, spruce, fir, jack pine, or white pine										
<u>Steps:</u> resulting in a medium or well stocked stand.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
30	54066030- CCR	25.2	4319 - Mixed Upland Forest	High Density Pole	80		Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole and will retain several white pine.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Regen survey. Acceptable regeneration is any combination of spruce, fir, red maple, oak, aspen/poplar, jack pine, or white pine resulting in a										
<u>Steps:</u> medium or well stocked stand.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31 54066031-CCR	10.3	6124 - Lowland Spruce-Fir	Medium Density Pole	80		Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole.

Other
Comments:

Next
Steps: Regen survey. Acceptable regeneration is any combination of aspen/poplar, fir, red maple, spruce, cedar, or white pine resulting in a medium or well stocked stand.

Proposed
Start Date: 10/01/2015

32 54066032-CCR	9.0	6122 - Black Spruce	High Density Log	80		Harvest	Clearcut with Reserves	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
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Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Leave cedar in retention. Location(s) will be determined during sale prep.

Other
Comments:

Next
Steps: Regen survey. Acceptable regeneration is any combination of red maple, spruce, cedar, aspen/poplar, fir, or white pine resulting in a medium or well stocked stand.

Proposed
Start Date: 10/01/2015

38 54066038-CCR	70.1	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	80		Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole.

Other
Comments:

Next
Steps: Regen survey. Acceptable regeneration is any combination of red maple, balsam fir, aspen, birch, red pine, oak, spruce, jack pine, or white pine resulting in a medium or well stocked stand.

Proposed
Start Date: 10/01/2015

58 54066058-CCR	6.4	6112 - Lowland Aspen	High Density Pole	32		Harvest	Clearcut with Reserves	6130 - Fir, Aspen, Maple	Cmpt. Review Proposal
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Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole and will include cedar remnant.

Other
Comments: Use current, standard trail specs for safety and infrastructure protection.

Next
Steps: Regen survey. Acceptable regeneration is any combination of aspen/poplar, fir, red maple, spruce, cedar, or white pine resulting in a medium or well stocked stand.

Proposed
Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63	54066063- CCR	9.6	4310 - Pine, Oak Mix	High Density Log	86	111-140	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole.										
<u>Other</u> Use current, standard trail specs for safety and infrastructure protection.										
<u>Comments:</u>										
<u>Next</u> Plant red pine. Acceptable regeneration is any combination of red pine, oak, birch, aspen, fir, jack pine, or white pine resulting in a medium or										
<u>Steps:</u> well stocked stand incontrovertibly dominated by unsuppressed red pine. Site prep may require thermal, chemical or mechanical methods. Do not spray west of sale area.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
68	54066068- CCR	18.5	4130 - Aspen	High Density Pole	50		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole.										
<u>Other</u> Use current, standard trail specs for safety and infrastructure protection.										
<u>Comments:</u>										
<u>Next</u> Regen survey. Acceptable regeneration is any combination of aspen, red maple, red pine, oak, spruce, fir, jack pine, or white pine resulting in a										
<u>Steps:</u> medium or well stocked stand.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
70	54066070- CCR	6.6	42210 - Natural Red Pine	High Density Log	86	111-140	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole. Require whole tree skid and chipping of tops. Tops MUST be skidded to landing still attached to stem, to prevent the accumulation of compacted masses of tops in the sale area.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Plant red pine. Acceptable regeneration is any combination of red pine, oak, birch, aspen, fir, jack pine, or white pine resulting in a medium or										
<u>Steps:</u> well stocked stand incontrovertibly dominated by unsuppressed red pine. Site prep may require thermal, chemical or mechanical methods.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
75	54066075- CCR	23.2	42210 - Natural Red Pine	High Density Log	86	111-140	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole. Preferred location will be in non-linear patches near recreational trails. Require whole tree skid and chipping of tops. Tops MUST be skidded to landing still attached to stem, to prevent the accumulation of compacted masses of tops in the sale area.										
<u>Other</u> Use current, standard trail specs for safety and infrastructure protection.										
<u>Comments:</u>										
<u>Next</u> Plant red pine. Acceptable regeneration is any combination of red pine, oak, birch, aspen, fir, jack pine, or white pine resulting in a medium or										
<u>Steps:</u> well stocked stand incontrovertibly dominated by unsuppressed red pine. Site prep may require thermal, chemical or mechanical methods.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
77	54066077-EO Aspen	20.4	4130 - Aspen	High Density Log	50		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> CCR per specifications of Timber Sale Contract 54-029-10-01. Prescription was approved at compartment review on October 16, 2008.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Regen survey. Acceptable regeneration is any combination of aspen, oak, jack pine and red maple.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2009										
77	54066077-EO Aspen Extra	5.1	4130 - Aspen	High Density Log	50		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> CCR per specifications of Timber Sale Contract 54-029-10-01. Prescription was approved at compartment review on October 16, 2008.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Regen survey. Acceptable regeneration is any combination of aspen, oak, jack pine and red maple.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
81	54066078-EO Aspen	5.2	4132 - Aspen, Jack Pine	Medium Density Log	50		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> CCR per specifications of Timber Sale Contract 54-029-10-01. Prescription was approved at compartment review on September 24, 2009.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Regen survey. Acceptable regeneration is any combination of aspen, oak, jack pine and red maple.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2009										
80	54066080- CCR	21.0	4199 - Other Mixed Upland Deciduous	High Density Log	98	81-110	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole. Preferred location will be in non-linear patches near recreational trails.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u> Use current, standard trail specs for safety and infrastructure protection.										
<u>Next</u> <u>Steps:</u> Regen survey. Acceptable regeneration is any combination of oak, red maple, aspen, red pine, fir, jack pine, or white pine resulting in a medium or well stocked stand.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2015										
81	54066081-EO Aspen	9.1	4132 - Aspen, Jack Pine	Medium Density Log	50		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> CCR per specifications of Timber Sale Contract 54-029-10-01. Prescription was approved at compartment review on September 24, 2009.										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> <u>Steps:</u> Regen survey. Acceptable regeneration is any combination of aspen, oak, jack pine and red maple.										
<u>Proposed</u> <u>Start Date:</u> 10/01/2009										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
77	54066084-EO Aspen	4.3	4130 - Aspen	High Density Log	50		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription CCR per specifications of Timber Sale Contract 54-029-10-01. Prescription was approved at compartment review on October 16, 2008.

Specs:

Other

Comments:

Next Regen survey. Acceptable regeneration is any combination of aspen, oak, jack pine and red maple.

Steps:

Proposed

Start Date: 10/01/2009

81	54066086-EO Aspen	10.8	4132 - Aspen, Jack Pine	Medium Density Log	50		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription CCR per specifications of Timber Sale Contract 54-029-10-01. Prescription was approved at compartment review on September 24, 2009.

Specs:

Other

Comments:

Next Regen survey. Acceptable regeneration is any combination of aspen, oak, jack pine and red maple.

Steps:

Proposed

Start Date: 10/01/2009

81	54066087-EO Aspen	1.0	4132 - Aspen, Jack Pine	Medium Density Log	50		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription CCR per specifications of Timber Sale Contract 54-029-10-01. Prescription was approved at compartment review on September 24, 2009.

Specs:

Other

Comments:

Next Regen survey. Acceptable regeneration is any combination of aspen, oak, jack pine and red maple.

Steps:

Proposed

Start Date: 10/01/2009

88	54066088- CCR	8.8	429 - Mixed Upland Conifers	High Density Pole	78		Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole. Require whole tree skid and chipping of tops. Tops MUST be skidded to landing still attached to stem, to prevent the accumulation of compacted masses of tops in the sale area.

Specs:

Other

Comments:

Next Plant red pine. Acceptable regeneration is any combination of red pine, oak, birch, aspen, fir, jack pine, or white pine resulting in a medium or well stocked stand incontrovertibly dominated by unsuppressed red pine. Site prep may require thermal, chemical or mechanical methods.

Steps:

Proposed

Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
90	54066090- CCR	8.4	4123 - Red Oak	High Density Log	94	81-110	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole. Require whole tree skid and chipping of tops. Tops MUST be skidded to landing still attached to stem, to prevent the accumulation of compacted masses of tops in the sale area.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Plant red pine. Acceptable regeneration is any combination of red pine, oak, birch, aspen, fir, jack pine, or white pine resulting in a medium or										
<u>Steps:</u> well stocked stand incontrovertibly dominated by unsuppressed red pine. Site prep may require thermal, chemical or mechanical methods.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
81	54066094-EO Aspen	1.1	4132 - Aspen, Jack Pine	Medium Density Log	50		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> CCR per specifications of Timber Sale Contract 54-029-10-01. Prescription was approved at compartment review on September 24, 2009.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Regen survey. Acceptable regeneration is any combination of aspen, oak, jack pine and red maple.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2009										
99	54066099- CCR	11.0	4123 - Red Oak	High Density Log	94	81-110	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be										
<u>Specs:</u> representative of the treatment's species mix as a whole.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Regen survey. Acceptable regeneration is any combination of red pine, red maple, oak, birch, aspen, fir, jack pine, or white pine resulting in a										
<u>Steps:</u> medium or well stocked stand.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
40	54066040- Plant	34.3	4319 - Mixed Upland Forest	Low Density Sapling	16		Tree Planting	Hand Plant	412 - Oak	Cmpt. Review Proposal
<u>Prescription</u> Plant oak seedlings in canopy gaps throughout stand										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor for browse and re-plant if necessary										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										
10	NF_54066010- NonFor	1.1	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> Unspecified										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	NF_54066033- NonFor	1.7	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
36	NF_54066036- NonFor	2.9	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
91	NF_54066091- NonFor	1.0	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										
95	NF_54066095- NonFor	1.7	3102 - Grass				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal
<u>Prescription</u> Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows										
<u>Specs:</u>										
<u>Other</u> <u>Comments:</u>										
<u>Next</u> Monitor for cover type and perform opening maintenance on 5-10 year rotation										
<u>Steps:</u>										
<u>Proposed</u> <u>Start Date:</u> Unspecified										

**Total Treatment
Acreage Proposed: 374.9**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type!

#Type!

PrescriptionSpecs:OtherComment:NextSteps:ProposedStart Date: #Type!Limiting Factor

Total Treatment Acreage Proposed:	0.0
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Report 5 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment 066
Year of Entry 2016

Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions	Dominant Site Conditions					
				No	5E	5C	5B	2G	1C
505	488	17	Aspen	450	3	37		2	12
224	224		Cedar	224					
11	11		Hemlock	11					
6	6		Lowland Aspen/Balsam Poplar	6					
22	22		Lowland Conifers	22					
29	17	12	Lowland Mixed Forest	17				12	
14	14		Lowland Spruce/Fir	14					
240	240		Mixed Upland Deciduous	240					
61	61		Natural Mixed Pines	55			6		
155	155		Northern Hardwood	155					
141	65	76	Oak	28		37			76
74	74		Red Pine	31		43			
9	9		Upland Conifers	9					
159	159		Upland Mixed Forest	159					
76	76		White Pine	76					
1,724	1,619	105	Total Forested Acres	1,497	3	117	6	14	88
	94%	6%	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	Not Available	5E: Long Term Retention	3				
Comments: Sale 54-029-10-01 stands 002/102.							
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2				
Comments:							

Report 5 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment 066
Year of Entry 2016

004	Not Available	1C: Other dept or div proc/practices	40		
Comments: rotation age is 110.					
005	Not Available	1C: Other dept or div proc/practices	15		
Comments: rotation age is 110.					
006	Not Available	1C: Other dept or div proc/practices	13		
Comments: rotation age is 110.					
007	Not Available	1C: Other dept or div proc/practices	9		
Comments: rotation age is 110.					
008	Not Available	2G: Too wet (sensitive soils, does not include access issues)	12	2F: Too steep	
Comments: seeps and steep.					
009	Available	5B: Maintain for regeneration purposes	6	5C: Delay treatment for age/size class diversity or exceptional site quality	
Comments:					

Report 5 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment 066
Year of Entry 2016

010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	No Limiting Factor
Comments: rotation age is 60				
011	Not Available	1C: Other dept or div proc/practices	7	5C: Delay treatment for age/size class diversity or exceptional site quality
Comments: rotation age is 60				
012	Not Available	1C: Other dept or div proc/practices	5	5C: Delay treatment for age/size class diversity or exceptional site quality
Comments: rotation age is 60				
013	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	
Comments:				
014	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	
Comments: Dropped at pre-review.				

Report 5 – Site Conditions

Atlanta Mgt. Unit
Richard Barber : Examiner

Compartment 066
Year of Entry 2016

015	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	
Comments: Dropped at pre-review.				
016	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	
Comments: Dropped at pre-review.				
017	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	
Comments: Dropped at pre-review.				
018	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	No Limiting Factor
Comments: Dropped at pre-review.				



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
Unspecified SCA Comments	Other SCA		SCA Removal	13.3
Unspecified SCA Comments	Other SCA		SCA Removal	15.0
Unspecified sca Comments	Other SCA		SCA Removal	364.3
This stand contains the headwaters of both Tomahawk Creek and the North Branch of the Thunder Bay River. It therefor drains into both the Black and Thunder Bay watersheds.				



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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 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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 066
Year of Entry: 2016

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4123 - Red Oak	High Density Log	9.8	87	51-80	
4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	18.3	27		
42260 - Natural Pine, Mixed Deciduous	High Density Log	19.8	91	51-80	
4130 - Aspen	High Density Log	8.5	73		New stand added.
6122 - Black Spruce	High Density Pole	4.9	73		New stand added.
4123 - Red Oak	High Density Log	8.0	93	81-110	
42260 - Natural Pine, Mixed Deciduous	High Density Log	9.7	91	81-110	
6120 - Lowland Cedar	High Density Pole	20.2	139		
4199 - Other Mixed Upland Deciduous	High Density Pole	32.9	41		
4130 - Aspen	High Density Pole	41.4	41		
4130 - Aspen	High Density Pole	65.1	27		
4123 - Red Oak	High Density Log	27.0	93	51-80	
6123 - Lowland Fir	High Density Pole	5.7	73		
42260 - Natural Pine, Mixed Deciduous	High Density Log	16.5	41		
4199 - Other Mixed Upland Deciduous	Low Density Pole	17.8	70		
42360 - Upland Cedar	Medium Density Log	57.5	139		New stand added.
4130 - Aspen	High Density Pole	18.4	41		
4134 - Aspen, Spruce/Fir	Medium Density Log	11.9	41		

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 066
Year of Entry: 2016

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4311 - Pine, Aspen Mix	High Density Log	27.9	46	51-80	
4130 - Aspen	High Density Sapling	10.4	16		
6120 - Lowland Cedar	Low Density Pole	20.3	139		New stand added.
4130 - Aspen	High Density Sapling	15.1	16		
4139 - Aspen, Mixed Deciduous	High Density Sapling	12.8	41		
42210 - Natural Red Pine	High Density Log	23.3	102	51-80	
4130 - Aspen	High Density Pole	5.1	28		
4123 - Red Oak	High Density Log	40.9	91	51-80	
4319 - Mixed Upland Forest	High Density Pole	25.2	80		
6124 - Lowland Spruce- Fir	Medium Density Pole	10.3	80		
6122 - Black Spruce	High Density Log	9.0	80		
4119 - Mixed Northern Hardwoods	High Density Log	38.9	92	81-110	
4199 - Other Mixed Upland Deciduous	High Density Log	8.1	85		
4123 - Red Oak	High Density Log	14.8	92	51-80	
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	70.1	80		
6120 - Lowland Cedar	High Density Log	7.1	139		New stand added.
4319 - Mixed Upland Forest	Low Density Sapling	37.8	16		
4119 - Mixed Northern Hardwoods	High Density Pole	13.2	80	51-80	

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 066
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	4191 - Mixed Upland Deciduous with Conifer	High Density Log	9.6	85		
43	4110 - Sugar Maple Association	High Density Pole	73.1	85	51-80	
44	42360 - Upland Cedar	High Density Log	31.6	139		
45	6120 - Lowland Cedar	High Density Pole	20.1	139		New stand added.
48	4130 - Aspen	High Density Pole	43.7	28		
49	4112 - Maple, Beech, Cherry Association	High Density Log	15.3	92	51-80	
50	4123 - Red Oak	High Density Log	12.6	92	51-80	
51	42350 - Upland Hemlock	High Density Log	11.2	92	111-140	
52	6123 - Lowland Fir	High Density Sapling	4.7	51		
53	6139 - Mixed Lowland Forest	High Density Pole	11.8	79		
54	42210 - Natural Red Pine	High Density Log	12.2	96	141-170	
55	6132 - Mixed Lowland Forest with Cedar	High Density Log	17.2	139	1-50	New stand added.
57	4139 - Aspen, Mixed Deciduous	High Density Pole	37.1	39		
58	6112 - Lowland Aspen	High Density Pole	6.4	32		
60	4130 - Aspen	High Density Pole	70.5	32		
61	6120 - Lowland Cedar	High Density Pole	52.0	139		
62	42200 - Natural White Pine	High Density Log	28.0	92	81-110	
63	4310 - Pine, Oak Mix	High Density Log	9.6	86	111-140	

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 066
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	7.2	105	141-170	
65	42200 - Natural White Pine	High Density Log	20.9	92	111-140	
66	42200 - Natural White Pine	High Density Log	11.4	92	81-110	
67	4319 - Mixed Upland Forest	High Density Pole	18.0	39		
68	4130 - Aspen	High Density Pole	18.5	50		
69	4130 - Aspen	High Density Pole	17.3	39		
70	42210 - Natural Red Pine	High Density Log	6.6	86	111-140	
71	4130 - Aspen	High Density Log	18.3	50		
72	42200 - Natural White Pine	High Density Log	15.3	92	81-110	
73	42260 - Natural Pine, Mixed Deciduous	High Density Log	8.7	104	81-110	
74	4123 - Red Oak	High Density Log	8.9	98	81-110	
75	42210 - Natural Red Pine	High Density Log	24.5	86	111-140	
76	42250 - Pine, Oak	High Density Log	5.9	84	111-140	
77	4130 - Aspen	High Density Log	25.6	50		
78	4130 - Aspen	High Density Log	35.0	50		
80	4199 - Other Mixed Upland Deciduous	High Density Log	21.1	98	81-110	
81	4132 - Aspen, Jack Pine	Medium Density Log	9.4	50		
83	4131 - Aspen, Oak	Low Density Sapling	5.1	3		

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Atlanta Mgt. Unit

Report 8 – Forested Stands

Compartment: 066
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
84	4199 - Other Mixed Upland Deciduous	High Density Log	31.2	87	51-80	
85	4119 - Mixed Northern Hardwoods	High Density Sapling	4.1	13		
86	4130 - Aspen	High Density Log	17.8	50		
87	4319 - Mixed Upland Forest	High Density Pole	5.1	50		
88	429 - Mixed Upland Conifers	High Density Pole	8.8	78		
89	4311 - Pine, Aspen Mix	High Density Pole	16.6	50		
90	4123 - Red Oak	High Density Log	8.4	94	81-110	
92	4311 - Pine, Aspen Mix	High Density Pole	8.0	50		
93	4130 - Aspen	High Density Pole	5.0	50		
94	4134 - Aspen, Spruce/Fir	High Density Pole	5.5	50		
96	6127 - Lowland Pine	Medium Density Log	1.0	94		
97	4319 - Mixed Upland Forest	High Density Pole	10.4	50		
98	4119 - Mixed Northern Hardwoods	High Density Sapling	10.1	28		
99	4123 - Red Oak	High Density Log	11.0	94	81-110	
100	4191 - Mixed Upland Deciduous with Conifer	High Density Log	31.5	106		
101	4130 - Aspen	High Density Pole	7.3	28		
102	6120 - Lowland Cedar	High Density Log	9.5	87		
103	6120 - Lowland Cedar	High Density Pole	5.5	87		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	622 - Lowland Shrub	7.5	Unspecified	Unspecified	
10	3102 - Grass	1.1	Unspecified	Unspecified	
19	622 - Lowland Shrub	17.9	Unspecified	Unspecified	Stand swapped from Forested to Non-Forested.
33	3102 - Grass	1.7	Unspecified	Unspecified	
36	3102 - Grass	2.9	Unspecified	Unspecified	
46	50 - Water	3.1	Unspecified	Unspecified	
47	6225 - Bog	12.0	Unspecified	Unspecified	
56	320 - Upland Shrub	1.3	Unspecified	Unspecified	
59	622 - Lowland Shrub	7.8	Unspecified	Unspecified	Stand swapped from Forested to Non-Forested.
79	122 - Road/Parking Lot	5.0	Unspecified	Unspecified	
82	3102 - Grass	1.4	Unspecified	Unspecified	
91	3102 - Grass	1.0	Unspecified	Unspecified	
95	3102 - Grass	1.8	Unspecified	Unspecified	