Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 69
Entry Year 2016
Acreage: 2,381
County Montmorency
Management Area: Thunder Bay Outwash

Revision Date: 10/28/2014

Stand Examiner: Darrick Coy

Legal Description:

T32N, R03E, Sec. 5, 8, 16 and 17

Identified Planning 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 sand and sandy loam complexes. Overall, the topography is rolling to flat. The dominant covertypes are lowland conifer and aspen. The compartment forest habitat types are mostly PArVHa, PArVVb, and Unclassified Lowland.

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

The compartment is State land ownership except for a 120 acre parcel in section 17. Land use within the area comes from the private residential area to the south and a large amount of hunting activities in the compartment.

Unique Natural Features:

Occurences- Eastern Massasauga
Potential Occurences- Eastern Massasauga

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Harvests prescribed now and in the future should minimize impacts within Massasauga Rattlesnake until the HCVA habitat range is determined for this species. Leaving brush piles, minimizing use of herbicide and burning, and harvesting outside of Spring are ways to minimize impact for Massassauga. It is recommended to contact the Biodiversity and Conservation Program Leader, reference the Candidate Conservation Agreement with Assurances, and follow Work Instruction 1.4 when conducting management operations within the potential and actual HCVA habitat range.

Previously coded SCA areas within the compartment were reviewed and removed. None of these areas met any SCA criteria.

Watershed and Fisheries Considerations:

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, eastern Massasauga rattlesnake, 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. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Traverse Group. The Traverse is quarried for limestone and cement products elsewhere in the State. Gravel pits are not located in the area, but potential should be good on the upland areas. The Compartment has several older Niagaran wells drilled in it, none producing. This area has no potential for the Antrim Shale. There are no oil and gas leases in the Compartment.

Vehicle Access:

Limited by two-tracks with sections only accessible outside of Spring.

Survey Needs:

Possibly N line of S1/2NW and NWNE of section 17.

Recreational Facilities and Opportunities:

Opportunities for hunting, wildlife viewing, and mushrooming in the area. There is a fairly extensive ORV trail running throught the compartment.

Fire Protection:

Delayed response time due to limited access using primarily two-tracks.

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: 069
T32N R03E
Sections: 5, 8, 16, 17
County: Montmorency
Unit: Atlanta
Management Area: Thunder Bay Outwash
YOE: 2016
Acres: 2,381 GIS Calculated
Examiner: Darrick Coy
Map Revised: 09/07/2014
Map Phase: Web Post

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

5
8
17 16
N

Legend
Miris Corners
Remonumented Section Corners
Type
Berms
PLSS Corner
Paved Roads
County Gravel Roads
Gravel Roads
Poor Dirt Roads
County Poor Dirt Roads
Trail (Non-Recreation)
Stream
Intermittent Stream
ORV Trails
ORV Routes
ORV Trail
ORV Route
Planned Regeneration
Natural
Planted
Treatments
Clearcut (w/Reserves, Patch/Strip)
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
310 - Herbaceous Openland
330 - Low-Density Trees
500 - Water
622 - Lowland Shrub
623 - Emergent Wetland
Lakes and Rivers
State Forest Land

1 6126-J5; 2 622-L0; 3 623-N0; 4 4130-A6; 5 6132-LM8; 6 429-MC5; 7 4220-W9; 8 6121-T5; 9 6127-Q8; 10 330-U0; 11 429-MC5; 12 4139-A6; 13 4229-MC9; 14 4123-O9; 15 4130-A6; 16 310-G0; 17 330-U0; 18 4123-O9; 19 330-U0; 20 330-U0; 21 6127-Q8; 22 4222-J5; 23 4221-R9; 24 4229-MC5; 25 4130-A3; 26 623-N0; 27 6120-C6; 28 330-U0; 29 310-G0; 30 4221-R8; 31 4134-A2; 32 4130-A3; 33 4221-R9; 34 310-G0; 35 330-U0; 36 310-G0; 37 500-Z0; 38 4131-A6; 39 4221-R9; 40 310-G0; 41 6120-C6; 42 6117-E5; 43 6130-LM5; 44 622-D0; 45 622-D0; 46 4226-MC8; 47 4130-A8; 48 4229-MC8; 49 6122-S6; 50 4220-W9; 51 310-G0; 52 4130-A6; 53 6132-LM8; 54 4139-A6; 55 310-G0; 56 310-G0; 57 4134-A6; 58 4236-C9; 59 4139-A9; 60 623-N0; 61 6117-E8; 62 6122-S6; 63 622-L0; 64 4130-A6; 65 6118-E9; 66 6120-C6; 67 4191-MD9; 68 622-L0; 69 6122-S6; 70 6130-LM8; 71 4191-MD8; 72 6122-S6; 73 4136-A6; 74 4229-MC5; 75 4130-A3; 76 6112-P6; 77 4130-A6; 78 6122-S6; 79 4110-M5; 80 310-G0; 81 4111-M6; 82 4236-C9; 83 6124-Q6; 84 622-L0; 85 4130-A3; 86 6132-LM9; 87 4130-A3; 88 623-N0; 89 310-G0; 90 330-U0; 91 330-U0; 92 6122-S5; 93 4222-J5; 94 310-G0; 95 6112-P8; 96 4319-UM8; 97 622-L0; 98 4229-MC9; 99 6122-S6; 100 4229-MC9; 101 310-G0; 102 4229-MC9

Rainy River
Lower Tomahawk Lake
Upper Tomahawk Lake
Rush Lake
Cranberry Lake
Comstock Rd
Hubert Rd
Hoffmeyer Rd
Branch Rd
County Road 628
Werner Rd

1 0.5 0 1 Miles

84°7'0"W 84°6'0"W 84°5'0"W 84°4'0"W 84°3'0"W 84°2'0"W
45°13'0"N 45°12'0"N 45°11'0"N 45°10'0"N 45°9'0"N

Stand Boundary Map

Compartment: 069
T32N R03E
Sections: 5, 8, 16, 17
County: Montmorency
Unit: Atlanta
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YOE: 2016
Acres: 2,381 GIS Calculated
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Stand # 23 — Stocking Density
(412)0) - A7
Level 3 Level 4 OI Code
Cover Type Code

5
8
17 16
N

Legend
- Miris Corners
- Remonumented Section Corners

Type
- Berms
- PLSS Corner
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- ORV Trails
- ORV Routes
- ORV Trail
- ORV Route
- Stand Boundaries

Deer Rd
Hoffmeyer Rd
Branch Rd
Hubert Rd
Werner Rd
County Road 628

1 6126-J5; 2 622-L0; 3 623-N0; 4 4130-A6; 5 6132-LM8; 6 429-MC5; 7 4220-W9; 8 6121-T5; 9 6127-Q8; 10 330-U0; 11 429-MC5; 12 4139-A6; 13 4229-MC9; 14 4123-O9; 15 4130-A6; 16 310-G0; 17 330-U0; 18 4123-O9; 19 330-U0; 20 330-U0; 21 6127-Q8; 22 4222-J5; 23 4221-R9; 24 4229-MC5; 25 4130-A3; 26 623-N0; 27 6120-C6; 28 330-U0; 29 310-G0; 30 4221-R8; 31 4134-A2; 32 4130-A3; 33 4221-R9; 34 310-G0; 35 330-U0; 36 310-G0; 37 500-Z0; 38 4131-A6; 39 4221-R9; 40 310-G0; 41 6120-C6; 42 6117-E5; 43 6130-LM5; 44 622-D0; 45 622-D0; 46 4226-MC8; 47 4130-A8; 48 4229-MC8; 49 6122-S6; 50 4220-W9; 51 310-G0; 52 4130-A6; 53 6132-LM8; 54 4139-A6; 55 310-G0; 56 310-G0; 57 4134-A6; 58 4236-C9; 60 623-N0; 61 6117-E8; 62 6122-S6; 63 622-L0; 64 4130-A6; 65 6118-E9; 66 6120-C6; 67 4191-MD9; 68 622-L0; 69 6122-S6; 70 6130-LM8; 71 4191-MD8; 72 6122-S6; 73 4136-A6; 74 4229-MC5; 75 4130-A3; 76 6112-P6; 77 4130-A6; 78 6122-S6; 79 4110-M5; 80 310-G0; 81 4111-M6; 82 4236-C9; 83 6124-Q6; 84 622-L0; 85 4130-A3; 86 6132-LM9; 87 4130-A3; 88 623-N0; 89 310-G0; 90 330-U0; 91 330-U0; 92 6122-S5; 93 4222-J5; 94 310-G0; 95 6112-P8; 96 4319-UM8; 97 622-L0; 98 4229-MC9; 99 6122-S6; 100 4229-MC9; 101 310-G0; 102 4229-MC9

202 4136-A6; 201 4130-A6; 27 6120-C6

1 0.5 0 1 Miles

84°7'0"W 84°6'0"W 84°5'0"W 84°4'0"W 84°3'0"W
45°12'0"N 45°11'0"N 45°10'0"N 45°9'0"N

Special Conservation Areas & Site Conditions Map

Compartment: 069
T32N R03E
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Unit: Atlanta
Management Area: Thunder Bay Outwash
YOE: 2016
Acres: 2,381 GIS Calculated
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Map Revised: 09/07/2014
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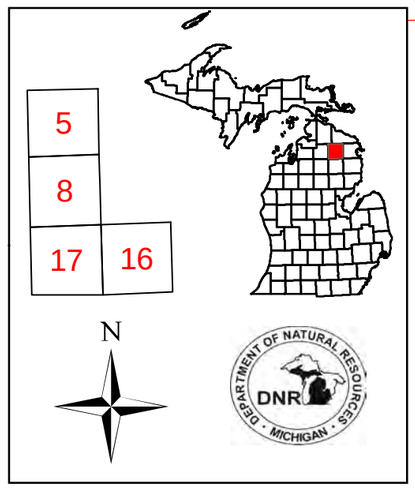
Stand # 23 — Stocking Density
(412)0) - A7
Level 3 Level 4 OI Code
Cover Type Code



Legend
- Stand Boundaries
- 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

1 6126-J5 | 6 429 -MC5 | 13 4229-MC9 | 17 330-U0 | 19 330-U0
2 622-L0 | 3 623-N0 | 4 4130-A6 | 8 | 15 4130-A6
2G - 015 | 5C - 016 | 2G - 014 | 5C - 003 | 5C - 002
12 4139-A6 | 10 330-U0 | 16 310-G0 | 2G - 010 | 5C - 023 | 5C - 023
9 6127-Q8 | 11 remove sca | 14 4123-O9 | 20 330-U0 | 7 4220-W9 | 5C - 004
202 4136-A6 | 27 6120-C6 | 25 4130-A3 | 28 330-U0 | 18 4123-O9 | 24 4229-MC5 | 33 4221-R9
22 4222-J5 | 23 4221-R9 | 201 4130-A6 | 26 623-N0 | 30 4221-R8 | 32 4130-A3 | 2G - 012
31 4134-A2 | 34 310-G0 | 36 310-G0 | 37 500-Z0 | 29 310-G0 | 35 330-U0
5E - 017 | 5E - 017 | 8 | 38 4131-A6 | 39 4221-R9 | 42 6117-E5 | 5E - 017
40 310-G0 | 2G - 021 | 44 622-D0 | 41 remove sca | 6140-U6 | 5E - 017 | 43 6130-LM5 | 45 622-D0 | 46 4226-MC8
50 4220-W9 | 57 4134-A6 | 73 4136-A6 | 51 310-G0 | 60 623-N0 | 71 4191-MD8 | 63 622-L0 | 69 6122-S6 | 76 6112-P6 | 74 4229-MC5 | 2G - 026
48 4229-MC8 | 58 4236-C9 | 56 310-G0 | 5E - 025 | 5E - 024 | 67 4191-MD9 | 68 622-L0 | 78 6122-S6 | 88 623-N0
47 4130-A8 | 49 2G - 006 | 52 4130-A6 | 5C - 005 | 54 4139-A6 | 5C - 019 | 61 6117-E8 | 84 622-L0 | 94 310-G0
55 310-G0 | 53 6132-LM8 | 17 | 59 4139-A9 | 16 | 72 6122-S6 | 93 4222-J5 | 77 4130-A6
66 6120-C6 | 5C - 009 | 70 6130-LM8 | 83 6124-Q6 | 98 4229-MC9
62 2G - 007 | 5E - 018 | 2G - 011 | 89 310-G0
65 6118-E9 | 64 4130-A6 | 80 310-G0 | 82 4236-C9 | 96 4319-UM8 | 101 310-G0
75 4130-A3 | 87 4130-A3 | 97 622-L0 | 102 4229-MC9
79 4110-M5 | 81 4111-M6 | 85 4130-A3 | 86 6132-LM9 | 92 6122-S5 | 2G - 020 | 5B - 008
90 330-U0 | 91 330-U0 | 95 6112-P8 | 100 4229-MC9

84°7'0"W | 84°6'0"W | 84°5'0"W | 84°4'0"W | 84°3'0"W
45°12'0"N | 45°11'0"N | 45°10'0"N | 45°9'0"N

1 | 0.5 | 0 | 1 Miles

Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit **Compartment 069 Year of Entry 2016**

Darrick Coy : Examiner

Age Class

	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	Total
Aspen	42	62	79	13	737	67	54	0	10	0	0	0	0	0	**1064**
Cedar	0	0	0	0	0	0	0	0	0	2	0	218	146	0	**366**
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	**24**
Jack Pine	0	0	0	6	1	3	0	0	0	0	0	0	0	0	**10**
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	**24**
Lowland Aspen/Balsam Poplar	0	0	0	15	0	0	0	0	0	6	0	0	0	0	**20**
Lowland Conifers	0	0	0	0	0	0	0	95	0	0	15	6	0	0	**116**
Lowland Deciduous	0	0	0	0	10	0	0	0	0	18	0	0	0	0	**28**
Lowland Mixed Forest	0	0	0	15	17	0	0	0	0	7	21	0	8	0	**68**
Lowland Shrub	157	0	0	0	0	0	0	0	0	0	0	0	0	0	**157**
Lowland Spruce/Fir	0	0	0	0	8	0	2	11	0	0	0	51	0	0	**71**
Marsh	59	0	0	0	0	0	0	0	0	0	0	0	0	0	**59**
Mixed Upland Deciduous	0	0	0	0	0	0	0	10	0	4	0	0	0	0	**14**
Natural Mixed Pines	0	0	23	2	0	0	19	14	4	0	0	0	11	0	**73**
Northern Hardwood	0	0	0	0	0	0	0	40	0	0	0	0	0	0	**40**
Oak	0	0	0	0	0	0	0	0	0	159	0	0	0	0	**159**
Red Pine	0	0	0	0	0	0	0	0	9	1	0	0	0	0	**10**
Tamarack	0	0	0	0	0	0	0	0	0	6	0	0	0	0	**6**
Treed Bog	24	0	0	0	0	0	0	0	0	0	0	0	0	0	**24**
Upland Conifers	0	0	0	0	2	20	0	0	0	0	0	0	0	0	**21**
Upland Mixed Forest	0	0	0	0	0	0	0	8	0	0	0	0	0	0	**8**
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	**5**
White Pine	0	0	0	0	0	0	0	0	0	6	0	6	0	0	**12**
Total	**335**	**62**	**102**	**51**	**774**	**90**	**75**	**178**	**23**	**209**	**36**	**280**	**165**	**0**	**2381**

Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2016

Compartment 069
Total Compartment Acres: 2,381

Acres by Treatment Type

Commercial Harvest - 484	Tree Planting - 0	Other - 0
Habitat Cut - 10	Opening Maintenance - 13	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
(Habitat Cut)Aspen Types	10	0	0	0	0	0	**10**
Aspen Types	421	0	0	0	0	0	**421**
Lowland Coniferous Forest	5	0	0	0	0	0	**5**
Lowland Deciduous Forest	15	0	0	0	0	0	**15**
Oak Types	43	0	0	0	0	0	**43**
Total	**494**	**0**	**0**	**0**	**0**	**0**	**494**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	54069015-Cut	44.4	4130 - Aspen	High Density Pole	47	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave scattered oak not to exceed residual BA of around 10 (all oak are mast trees now, were not cut in previous clearcut)
-leave 3-10 % in area retention
-Winter harvest to protect potential species of concern
-require leaving brush piles every 3-5 acres thoughout unit and adjacent to lowland edge to provide habitat for potential species of concern
-advertise as a 3 yr contract due to shorter harvesting period

Other Comments:

Next Steps:
-regeneration survey 3-5 yrs
-acceptable regeneration is rm, aspen, pine, and oak of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	54069018-Cut	43.4	4123 - Red Oak	High Density Log	94	81-110	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave 3-10% in area retention (in large clearcut area to west)
-require Winter harvest to limit browse and increase stump sprout vigor
-leave scattered healthy pine (if present)

Other Comments:

Next Steps:
-regen survey in 3-5 years
-acceptable regeneration is aspen, oak, rm, and pine of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	54069038-Cut	69.9	4131 - Aspen, Oak	High Density Pole	44	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Fld. Tr. Bdy.

Prescription Specs:
-clearcut
-leave scattered oak and pine for visual, regeneration, and mast
-retention to be included within stand 22
-protect ORV trail in specs

Other Comments:
-will need minor road work for access
-ORV trail would be used for haul road

-harvesting early per compartment review decision of September 24, 2009

Next Steps:
-regeneration survey in 3-5 yrs
-acceptable regeneration is any combination of aspen, oak, or pine of medium to high stocking

Proposed Start Date: 09/24/2009

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	54069038-Cut1	18.6	4131 - Aspen, Oak	High Density Pole	44	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave scattered wp, rp, and oak in clumps and/or individuals not to exceed a residual BA of around 10 (may need to mark oak to leave)
-leave 3-5% in area retention
-Winter harvest to protect potential species of concern
-require leaving brush piles every 3-5 acres thoughout unit and adjacent to lowland edge to provide habitat for potential species of concern
-advertise as a 3 yr contract due to shorter harvesting period
-protect ORV trail in specs

Other Comments:

Next Steps:
-regeneration survey 3-5 yrs
-acceptable regeneration is rm, aspen, fir, pine, and oak of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47	54069047-Cut	9.8	4130 - Aspen	Medium Density Log	88	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs: -clearcut
-leave any under-represented trees worth protecting and not to exceed a residual of 10 BA
-Winter harvest

Other Comments: -need survey, could not find corner to NW or NE

Next Steps: -regeneration survey in 3-5 years
-acceptable regeneration is aspen, rm, and pine of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
49	54069049-Cut1	3.3	6122 - Black Spruce	High Density Pole	115	51-80	Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: -clearcut
-Winter harvest

Other Comments:

Next Steps: -regen survey in 3-5 years
-acceptable regeneration is spruce, aspen, rm, ash, fir, and cedar of low to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	54069054-Cut	32.2	4139 - Aspen, Mixed Deciduous	High Density Pole	55		Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: -clearcut
-leave scattered wp, rp, and oak in clumps and/or individuals not to exceed a residual BA of around 10 (may need to mark oak to leave)
-leave 2-3 chain area retention adjacent to stand 58 outside of treatment to prevent cedar stand blowdown (already excluded)
-Winter harvest to protect potential species of concern
-require leaving brush piles every 3-5 acres thoughout unit and adjacent to lowland edge to provide habitat for potential species of concern
-advertise as a 3 yr contract due to shorter harvesting period
-protect ORV trail in specs

Other Comments:

Next Steps: -regeneration survey 3-5 yrs
-acceptable regeneration is rm, aspen, pine, and oak of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
57	54069057-Cut	5.6	4134 - Aspen, Spruce/Fir	High Density Pole	45	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs: -clearcut
-mark a few bushy white spruce along hilltop to leave for retention
-include with compartment 68 stand 35 timber sale to limit crossing low ground two-track to the adjacent north

Other Comments:

Next Steps: -regeneration survey 3-5 yrs
-acceptable regeneration is aspen, rm, oak, and spruce of medium to high stocking

Proposed Start Date: 10/29/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
59	54069059-Cut	49.9	4139 - Aspen, Mixed Deciduous	High Density Log	65	51-80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave scattered wp, rp, and oak in clumps and/or individuals not to exceed a residual BA of around 10
-leave portion bisected by cedar stand and ORV trail to south untreated for area retention (already excluded)
-Winter harvest to protect potential species of concern
-require leaving brush piles every 3-5 acres thoughout unit and adjacent to lowland edge to provide habitat for potential species of concern
-advertise as a 3 yr contract due to shorter harvesting period
-protect ORV trail in specs

Other Comments:

Next Steps:
-regeneration survey 3-5 yrs
-acceptable regeneration is rm, aspen, fir, pine, and oak of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
64	54069064-Cut	43.7	4130 - Aspen	High Density Pole	45		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave scattered wp, rp, and oak in clumps and/or individuals not to exceed a residual BA of around 10
-leave 3-10% in area retention
-Winter harvest to protect potential species of concern
-require leaving brush piles every 3-5 acres thoughout unit and adjacent to lowland edge to provide habitat for potential species of concern
-advertise as a 3 yr contract due to shorter harvesting period
-protect ORV trail in specs

Other Comments:

Next Steps:
-regeneration survey 3-5 yrs
-acceptable regeneration is rm, aspen, fir, pine, and oak of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
76	54069076-Cut	14.5	6112 - Lowland Aspen	High Density Pole	38	51-80	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave any under represented trees found worth protecting not to exceed 10 BA residual
-leave 3-7% area retention
-Winter harvest to protect potential species of concern
-require leaving brush piles every 3-5 acres thoughout unit and adjacent to lowland edge to provide habitat for potential species of concern
-advertise as a 3 yr contract due to shorter harvesting period

Other Comments:

Next Steps:
-regen survey 3-5 yrs
-acceptable regeneration is aspen, fir, ash, maple, spruce, and wp of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
77	54069077-Cut1	137.4	4130 - Aspen	High Density Pole	47		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave scattered wp, rp, and oak in clumps and/or individuals not to exceed a residual BA of around 10
-leave 2-3 chain area retention adjacent to stand 58 outside of treatment to prevent blowdown (already excluded)
-leave 3-5% in additional area retention
-Winter harvest to protect potential species of concern
-require leaving brush piles every 3-5 acres thoughout unit and adjacent to lowland edge to provide habitat for potential species of concern
-advertise as a 3 yr contract due to shorter harvesting period
-protect ORV trail in specs

Other Comments:

Next Steps:
-regeneration survey 3-5 yrs
-acceptable regeneration is rm, aspen, fir, pine, and oak of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
78	54069078-Cut	1.5	6122 - Black Spruce	High Density Pole	77	81-110	Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-no retention to maximize regeneration of stand
-Winter harvest

Other Comments:

Next Steps:
-regeneration survey 3-5 yrs
-acceptable regeneration is black spruce, fir, rm, aspen, and ash of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
201	54069201-Cut	10.7	4130 - Aspen	High Density Pole	48		Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave scattered wp, rp, and oak in clumps and/or individuals not to exceed a residual BA of around 10
-harvest outside of Spring to protect potential species of concern
-protect ORV trail in specs

Other Comments:
-advertise with adjacent oak treatment

Next Steps:
-regen survey 3-5 years
-acceptable regeneration is aspen, oak, rm, and pine of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
202	54069202-Cut	9.1	4136 - Aspen, Mixed Conifer	High Density Pole	48		Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal

Prescription Specs:
-clearcut
-leave scattered wp, rp, and oak in clumps and/or individuals not to exceed a residual BA of around 10
-harvest outside of Spring to protect potential species of concern
-protect ORV trail in specs

Other Comments:
-boundary and advertise with adjacent oak treatment

Next Steps:
-regen survey in 3-5 years
-acceptable regeneration is aspen, oak, rm, and pine of medium to high stocking

Proposed Start Date: 10/01/2015

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51	NF_54069051-NonFor	2.0	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	NF_54069056-NonFor	2.1	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
89	NF_54069089-NonFor	3.7	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
94	NF_54069094-NonFor	1.3	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
101	NF_54069101-NonFor	4.0	310 - Herbaceous Openland				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription Specs: Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.

Other Comments:

Next Steps: Monitor for cover type and perform opening maintenance on 5-10 year rotation

Proposed Start Date: Unspecified

Total Treatment Acreage Proposed: 507.1

Report 4 -- Treatments Prescribed with a Site Condition

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

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: 0.0

Report 5 – Site Conditions

Atlanta Mgt. Unit

Darrick Coy : Examiner

Compartment 069

Year of Entry 2016

Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions	No	5E	5C	5B	2G
1081	1067	14	**Aspen**	1,035	14	32		
365	87	278	**Cedar**	87				278
10	10		**Jack Pine**	10				
20	20		**Lowland Aspen/Balsam Poplar**	15			6	
115	15	100	**Lowland Conifers**	0		15		100
28	4	24	**Lowland Deciduous**	1		4		24
68	51	17	**Lowland Mixed Forest**	44		7		17
71	14	57	**Lowland Spruce/Fir**	14				57
14	14		**Mixed Upland Deciduous**	10		4		
73	73		**Natural Mixed Pines**	62		11		
40	40		**Northern Hardwood**	40				
159	159		**Oak**	120		39		
10	10		**Red Pine**	10				
6		6	**Tamarack**					6
21	21		**Upland Conifers**	21				
8	8		**Upland Mixed Forest**	8				
12	12		**White Pine**	6		6		
2,104	1,608	496	Total Forested Acres	1,485	14	117	6	482
	76%	24%	Relative Percent					

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond	Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002		**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	6				

Comments:

003	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	6		

Comments:

004	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	39		

Comments:

005	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	31		

Comments:
-stand is not showing much internal rot

006	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	24	No Limiting Factor	

Comments:
-area of stagnant growth and soil saturation
-very old saplings

007	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	38		

Comments:

008	**Available**	**5B: Maintain for regeneration purposes**	6		

Comments:

009	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	7

Comments:

010	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	5

Comments:

011	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	95

Comments:

012	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	176

Comments:

014	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	28

Comments:

015	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	6

Comments:

016	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	11		
Comments:					
017	**Not Available**	**5E: Long Term Retention**	2		
Comments:					
018	**Not Available**	**5E: Long Term Retention**	4		
Comments:					
019	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	8		
Comments:					
020	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	6	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	
Comments:					
021	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	100		
Comments:					

023	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	9

Comments:
-large natural rp

024	**Not Available**	**5E: Long Term Retention**	4

Comments:

025	**Not Available**	**5E: Long Term Retention**	5

Comments:

026	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	3

Comments:

Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
remove sca	Other SCA		**SCA Removal**	105.5
Comments				
stand does not meet POG criteria				
remove sca	Other SCA		**SCA Removal**	577.7
Comments				
SCA was POG BSA, doesnt meet criteria				

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	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.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6126 - Lowland Jack Pine	Medium Density Pole	1.1	42		
4	4130 - Aspen	High Density Pole	1.5	48	81-110	-pvt side was previously cut
5	6132 - Mixed Lowland Forest with Cedar	Medium Density Log	17.0	46	51-80	-low ground -showing signs of being two-aged -most aspen are rotten and aspen are small poles that have just entered the canopy, fallen trees, and cedar encompasses approx half of stand to SW
6	429 - Mixed Upland Conifers	Medium Density Pole	1.6	45	1-50	
7	42200 - Natural White Pine	High Density Log	5.6	111	141-170	-8-9 stick trees, very tall good quality pines -higher ba (160-200) to north half
8	6121 - Tamarack	Medium Density Pole	6.3	95	51-80	-fallen trees, tip-ups -ground still not frozen in mid. Dec.
9	6127 - Lowland Pine	Medium Density Log	5.5	114	51-80	-wetter area towards middle of stand with cedar -good/large healthy rp and wp crowns
11	429 - Mixed Upland Conifers	Medium Density Pole	19.8	56	51-80	-very mixed stand -more jp to nw
12	4139 - Aspen, Mixed Deciduous	High Density Pole	47.3	47	51-80	-access road needs work/goes through bog and marsh -past cut left all rp and wp -some of the larger poles showing rot but many still need diameter gains
13	42290 - Natural Mixed Pine	High Density Log	10.8	121	111-140	-large older natural pine stand -BA fairly variable throughout
14	4123 - Red Oak	High Density Log	39.3	91	81-110	-was recorded previously as species thinned around 1960-70, looks like rm and aspen (appears to be west 1/3rd only) -average site, witch hazel throughout -significant deer use and mast oak trees with regenerating wp below of not the greatest quality
15	4130 - Aspen	High Density Pole	44.4	47	81-110	-high density aspen, some rot showing but not significant
18	4123 - Red Oak	High Density Log	120.2	94	81-110	-appears to have been thinned around 1970, smaller rm and aspen -scattered rp and wp to east half and around north and southeast perimeters -multiple fire scars present thoughout stand

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	6127 - Lowland Pine	Medium Density Log	15.1	107	81-110	-tall pines -north half appears to be younger and/or more wet, decided to no separate out -north 1/2 with more blowdown and much lower ba -areas of lowland and upland, transitional stand
22	42220 - Natural Jack Pine	Medium Density Pole	6.1	34	1-50	
23	42210 - Natural Red Pine	High Density Log	0.8	92	111-140	
24	42290 - Natural Mixed Pine	Medium Density Pole	22.8	26	1-50	-pockets of J2 and some nice dense pockets of Red Pine Logs -kind of a mutant stand -thinning, cut rp and wp with yellow paint and other species (closed 9/22/87) -had no tree-length skidding in specs -vol= 32- 246 cds, 11- 17 cds, 98- 32 cds
25	4130 - Aspen	High Density Sapling	68.6	21		-stand was oak aspen and converted to aspen when treated in '92 -only trace amounts of oak remain along two-track and in areas where aspen failed to establish -closed sale 1/10/92 -cut all trees -vol.= red oak- 863 cds, aspen- 483 cds, wp- 88 cds, rp- 44 cds, mh- 347 cds, pb- 164 cds, bsw- 60 cds, ms- 63 cds - 29 cds/ac
27	6120 - Lowland Cedar	High Density Pole	217.6	118	111-140	-more black spruce along edges where drainage is slightly better with higher terrain -large areas in center where growth is stagnant, conditions are too wet, and blowdown
30	42210 - Natural Red Pine	Medium Density Log	2.7	88	81-110	-thinning, cut rp and wp with yellow paint and other species (closed 9/22/87) -had no tree-length skidding in specs -vol= 32- 246 cds, 11- 17 cds, 98- 32 cds
31	4134 - Aspen, Spruce/Fir	Medium Density	16.4	16		-thick alder to north -mixed with some upland and lowland, went with upland overall
32	4130 - Aspen	High Density Sapling	10.2	26		-some poor aspen growth to west 1/3rd (showing early rot) -cut all trees -closed sale 9/22/87 -vol= 11- 35 cds, 32- 1 cd, 31- 1 cd, 99- 21 cds
33	42210 - Natural Red Pine	High Density Log	3.6	88	111-140	-thinning, cut rp and wp with yellow paint and other species (closed 9/22/87) -had no tree-length skidding in specs -vol= 32- 246 cds, 11- 17 cds, 98- 32 cds
38	4131 - Aspen, Oak	High Density Pole	303.5	44	51-80	-left oak and pine from previous cut -western portion of stand looks a bit younger

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	42210 - Natural Red Pine	High Density Log	2.9	81	111-140	
41	6120 - Lowland Cedar	High Density Pole	111.1	126	81-110	
42	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	9.9	45	51-80	-xl log wp on east edge -older overstory mixed with younger trees, two aged canopy -a lot of older trees have likely fallen out
43	6130 - Fir, Aspen, Maple	Medium Density Pole	15.4	38		-spruce, fir and White Pine Sawlogs
46	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	19.4	68	51-80	-higher density of rp along west edge -more aspen to SE half
47	4130 - Aspen	Medium Density Log	9.8	88	51-80	-stand on small hill
48	42290 - Natural Mixed Pine	Medium Density Log	3.7	82	81-110	
49	6122 - Black Spruce	High Density Pole	27.7	115	51-80	-treed bog in areas, moss and leather leaf ground cover -poles around exterior half turning into saps within interior half
50	42200 - Natural White Pine	High Density Log	6.3	96	81-110	-stand was thinned through in 1970
52	4130 - Aspen	High Density Pole	31.1	55	81-110	-
53	6132 - Mixed Lowland Forest with Cedar	Medium Density Log	7.8	127	111-140	
54	4139 - Aspen, Mixed Deciduous	High Density Pole	35.6	55		
57	4134 - Aspen, Spruce/Fir	High Density Pole	5.6	45	81-110	-hilltop ridge with conifer lowland trees on edges -upland spruce pocket in middle of stand
58	42360 - Upland Cedar	High Density Log	1.9	91	200+	-dense, straight, and tall cedar -open subcanopy with heavy deer use/ tracks
59	4139 - Aspen, Mixed Deciduous	High Density Log	53.9	65	51-80	-some wet areas exist, mostly to SW and adj to cedar stands
61	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Log	4.0	94	51-80	-older stand left uncut -sizes are highly variable and some pockets of new sap regen where overstory has fallen
62	6122 - Black Spruce	High Density Pole	23.1	118	81-110	-treed bog in central areas, moss and leather leaf ground cover -poles around exterior half turning into saps within interior half

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	4130 - Aspen	High Density Pole	110.6	45		-
65	6118 - Lowland Deciduous with Cedar	High Density Log	14.5	92	81-110	-aspen over cedar with some cedar reaching canopy -blowdown along south edge
66	6120 - Lowland Cedar	High Density Pole	31.8	129	111-140	-a more consistent size class pattern throughout stand. -stand is not as wet as other cedar stands in compartment -cedar look fairly healthy throughout
67	4191 - Mixed Upland Deciduous with Conifer	High Density Log	3.8	95	51-80	-older stand left uncut -sizes are highly variable and some pockets of new sap regen where overstory has fallen
69	6122 - Black Spruce	High Density Pole	3.0	77	81-110	-pockets of high density and low density along edge -small crowns
70	6130 - Fir, Aspen, Maple	Medium Density Log	6.9	93	51-80	-older stand left uncut -sizes are highly variable and some pockets of new sap regen where overstory has fallen -multistoried areas exist, still even-aged -low to no value in aspen, half dead and significantly rotten -many cavity trees
71	4191 - Mixed Upland Deciduous with Conifer	Medium Density Log	10.3	77	51-80	-diameters are all over the place, still appears to not be uneven aged though -stand is on a hill -no real dominant species -stand appears to have never been treated
72	6122 - Black Spruce	High Density Pole	7.9	46	51-80	-spruce bog, tamarack in north finger -larger spruce in north finger
73	4136 - Aspen, Mixed Conifer	High Density Pole	12.8	35	51-80	-record for cut was closed 10/23/79 (n1/2ne) -more pine to ne -NE leg is slightly older, added as an inclusion
74	42290 - Natural Mixed Pine	Medium Density Pole	2.3	35	51-80	-appears to have significant weevil dmg to trees
75	4130 - Aspen	High Density Sapling	21.7	4		-was privately aquired in 2/11/2010 -was privately cc in 2008-09 -cut all trees
76	6112 - Lowland Aspen	High Density Pole	14.5	38	51-80	some low areas mixed into stand. Beaver damage around stand 53.
77	4130 - Aspen	High Density Pole	204.2	47		-low ground at northwest -oak more represented in SE
78	6122 - Black Spruce	High Density Pole	1.5	77	81-110	-not as much alder as other black spruce stand to north and appears to be slightly higher ground within transition between uplands and lowlands

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
79	4110 - Sugar Maple Association	Medium Density Pole	13.9	78	51-80	-was privately aquired in 2/11/2010 -was privately thinned in 2008-09 -cut all aspen and possibly all rm -may have high-graded some areas
81	4111 - S.Maple, Hard Mast Association	High Density Pole	26.4	78	81-110	Stand was cut in spring of 2009. Part of Jonesville Mix 54-039-06-01 -cut all trees with orange and all aspen -completed 7/30/09
82	42360 - Upland Cedar	High Density Log	3.4	127	141-170	-heavy deer tracks again, seems to be common in upland cedar
83	6124 - Lowland Spruce-Fir	High Density Pole	94.9	75	1-50	-stagnant growth to se and nw, about half of stand -small poles
85	4130 - Aspen	High Density Sapling	20.6	4		-cut in spring of 2009. Part of Jonesville Mix. 54-039-06-01 -cc, cut all trees except rp, wp, and oak -completed 7/30/09
86	6132 - Mixed Lowland Forest with Cedar	High Density Log	21.3	109	81-110	-smaller pocket of small cedar to sw -some blowdown along edges and SE portion of stand -traces of hemlock located in middle and south half of stand -difficult stand to assess due to high variability in species and size-classes
87	4130 - Aspen	High Density Sapling	45.9	16		
92	6122 - Black Spruce	Medium Density Pole	1.7	65	51-80	
93	42220 - Natural Jack Pine	Medium Density Pole	3.3	50	51-80	-there appears to be younger jp to east and older to west
95	6112 - Lowland Aspen	Medium Density Log	5.5	97	51-80	-a lot of blowdown in aspen -thick fir -some pockets of high ground to west -aspen should be gone by next yoe, significantly rotten and will likely not regenerate
96	4319 - Mixed Upland Forest	Medium Density Log	7.7	71	51-80	-more birch than normal -wp developing -scenic and on a hill
98	42290 - Natural Mixed Pine	High Density Log	3.1	76	111-140	-significant white ash presence in subcanopy
99	6122 - Black Spruce	High Density Pole	6.3	75	81-110	
100	42290 - Natural Mixed Pine	High Density Log	9.7	71	111-140	-variable bas, lighter to se

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
102	42290 - Natural Mixed Pine	High Density Log	1.2	73	81-110	
201	4130 - Aspen	High Density Pole	10.7	48		-transitional stand between lowland and upland
202	4136 - Aspen, Mixed Conifer	High Density Pole	9.1	48		-transitional stand between lowland and upland

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	622 - Lowland Shrub	34.3	No	Unspecified	
3	623 - Emergent Wetland	7.0	No	Unspecified	
10	330 - Low-Density Trees	1.8	No	Unspecified	
16	310 - Herbaceous Openland	1.2	No	Unspecified	-was developed for oil/gas
17	330 - Low-Density Trees	1.3	No	Unspecified	
19	330 - Low-Density Trees	10.3	No	Unspecified	
20	330 - Low-Density Trees	3.8	No	Unspecified	
26	623 - Emergent Wetland	20.4	No	Unspecified	
28	330 - Low-Density Trees	1.9	No	Unspecified	
29	310 - Herbaceous Openland	1.4	No	Unspecified	
34	310 - Herbaceous Openland	1.7	No	Unspecified	
35	330 - Low-Density Trees	1.3	No	Unspecified	
36	310 - Herbaceous Openland	1.4	No	Unspecified	
37	50 - Water	4.8	No	Unspecified	
40	310 - Herbaceous Openland	1.5	Yes	Medium	
44	6224 - Treed Bog	7.9	No	Unspecified	
45	6224 - Treed Bog	16.3	No	Unspecified	
51	310 - Herbaceous Openland	2.0	Yes	Medium	

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
55	310 - Herbaceous Openland	1.6	Yes	Low	
56	310 - Herbaceous Openland	2.1	Yes	Low	
60	623 - Emergent Wetland	15.4	No	Unspecified	
63	622 - Lowland Shrub	57.4	No	Unspecified	
68	622 - Lowland Shrub	4.8	No	Unspecified	
80	310 - Herbaceous Openland	2.0	Yes	Low	
84	622 - Lowland Shrub	12.4	No	Unspecified	
88	623 - Emergent Wetland	16.5	No	Unspecified	
89	310 - Herbaceous Openland	3.7	No	Unspecified	
90	330 - Low-Density Trees	2.7	No	Unspecified	
91	330 - Low-Density Trees	1.4	No	Unspecified	
94	310 - Herbaceous Openland	1.3	Yes	Low	
97	622 - Lowland Shrub	47.7	No	Unspecified	
101	310 - Herbaceous Openland	4.0	Yes	Low	