Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 99
Entry Year 2015
Acreage: 5,539
County Midland
Management Area: Midland-Isabella

Revision Date: 11/30/2012

Stand Examiner: Steven Nyhoff

Legal Description:

T16N R1W Sections 19 thru 22; 26 thru 35

Identified Planning Goals:

The compartment has extensive wetlands interspersed with areas of swamp hardwoods, upland oak and aspen. There are also three creeks that flow through the compartment, Bluff Creek in the west, Mud Creek through the center, and Black Creek in the east. These creeks connect up with the majority of the wetlands in the area.

The upland acres have been heavily harvested over the past 40 years. The regeneration has been mixed, especially over the last 20 years. Some of the harvests have failed to regenerate. Most of these have been prescribed to be planted or interplanted with red pine. Red pine was chosen because white pine in the area gets heavily weeviled and jack pine is heavily galled.

Most of the harvests, that have been scheduled, are selection in swamp hardwood. Some of the aspen stands are scheduled for clearcuts. The harvests are concentrated in the aspen that is forty years old. This is in keeping with the draft Midland Isabella Management Area Plan.

Soil and topography:

The terrain is generally flat with areas of extensive micro relief. There are some areas of steep slopes. These are located along the flood plains of the three creeks.

The main soil associations are Covert, under the dry upland stands; Pipestone, under the intermediate stand; and Kingsvill under the wetter forest types. Kinross Association is located under the numerous bogs. Cohoctah and Belleville Associations are under the flood plains of the different creeks and drainages.

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

The compartment is situated in an area of State Land that goes from the county line to US-10. It is contiguous with minimal inclusions of private land. The land along the east and west lines are a mixture of permanent residence, farms, and recreational properties.

The compartment is heavily used for hunting, wild food gathering, and recreation.

Unique Natural Features:

There are no records of threatened or endangered species in the compartment. In addition, none were located during the inventory process. There are records of wood turtles outside the compartment, slippershell mussels to the southwest and northern goshawks to the southeast.

Archeological, Historical, and Cultural Features:

There are no records of occurrences within the compartment. In addition, none were located during the inventory process.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Three creeks flow through the compartment, Bluff Creek, Mud Creek, and Black Creek. These are all warm water fisheries. Therefore, there are no special requirements for protection beside standard BMP protocols. In addition, there is a fish rearing pond with a control structure in NE1/4 of section 27.

Wildlife Habitat Considerations:

Compartment #99 contains a variety of habitat types suitable for many wildlife species. The compartment includes Mud Creek and Bluff Creek drainages and adjacent lowland complexs. These lowlands support various waterfowl, reptiles, amphibians, and their predators including beaver, mink, muskrat, black bear, bobcat, and coyote use the lowlands as corridors as well as year-round habitat. Many bird species stand to benefit from juxtaposition of lowland and upland habitats present in the compartment. These inlcude common yellowthroat, yellow-rumped warbler, gray catbird, redeyed vireo, white

throated sparrow, hermit thrush, red-breasted nuthatch, ruffed grouse, and American woodcock. The compartment is easily accessible to hunters via M-18 or Burns Road.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the State. This area is predominantly sand and gravel potential in the compartment is considered limited. Edenville Field is located in Section 27. It produced 1,394,120 BO the Dundee Limestone and has been abandoned. The Compartment is leased for oil and gas development.

Vehicle Access:

The access is mainly from 4 roads of which 3 are maintained by the DNR. The north western and central portions of the compartment are accessed off the end of Baker Road. The access to the southern half is off Burns Road. The eastern quarter is accessed off the “45 degree” road that comes off of Sanford Lake Road just north of Burns Road. Only a small portion of the south west is accessed off of M-18. The access to the compartment and treatments is often hindered by seasonal wetness.

Survey Needs:

The records of survey corners are sketchy in section 30 and the northern portion of section 31. Currently there are several treatment along the east side of the compartment and a survey is needed.

Recreational Facilities and Opportunities:

There are no designated trails in this compartment, however, mountain biking is a popular activity in this area. Hunting and berry picking are also common recreational activities in the compartment. (TMN 5/6). Currently there is some work being done to establish a recognized mountain bike trail. When one is approved the treatment may be modified to protect the trail as needed.

Fire Protection:

The fire danger in the compartment is low to moderate. The access is good to much of the compartment. In addition the covertypes present are not excessively volatile. The compartment also has numerous natural fuel breaks because of the wetlands and creeks.

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: 099
T16N R01W
18 19 20 21 22 25 26 27
28 29 30 31 32 33 34 35
County: Midland
Unit: Gladwin
Management Area: Midland-Isabella
YOE: 2015
Acres: 5,539 GIS Calculated
Examiner: Steven Nyhoff
Map Revised: 06/18/2014
Map Phase: Pre-Review

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

Legend
- Miris Corners
- Gate
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Lakes and Rivers

Non-Forest Regeneration
- Natural
- Planted

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)
- Other Harvest - See Comments
- Planting (tree species)
- Regeneration Survey
- Treatments w/ Site Condition

Forest Stands
Level 3
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest

Non-Forest Stands
Level 3
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- State Forest Land

1 0.5 0 1 Miles

N

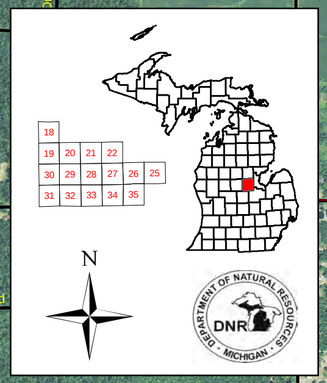
DEPARTMENT OF NATURAL RESOURCES · MICHIGAN · DNR

W Baker Rd
W Shaffer Rd
Shaffer Rd
W Fike Rd
W Burns Rd
Ginger Dr
Marsh Dr
Skewes Rd
N Lake Sanford Rd
N Easy St
Wrangler Dr W
Lake Forest Dr W
Enchanted Forest Dr
Clarence Ct N
Mildred Rd W
W River Rd
N Fox Rd
Hull Rd
Vista Dr
Flint Rd
Verity Rd
Birchcrest Dr
Wild Cherry Ln
Maplecrest Dr
Sand Beach Dr
Verity Creek
Black Creek
M 18
W River Rd
N Bailey Rd
W Dague Rd

84°29'0"W 84°28'0"W 84°27'0"W 84°26'0"W 84°25'0"W 84°24'0"W 84°23'0"W
43°46'0"N 43°45'0"N 43°44'0"N 43°43'0"N

Stand Boundary Map

Compartment: 099
T16N R01W
18 19 20 21 22 25 26 27
28 29 30 31 32 33 34 35
County: Midland
Unit: Gladwin
Management Area: Midland-Isabella
YOE: 2015
Acres: 5,539 GIS Calculated
Examiner: Steven Nyhoff
Map Revised: 06/18/2014
Map Phase: Pre-Review



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

Legend
- Miris Corners
- Gate
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

411 - Northern Hardwood
412 - Oak Types
413 - Aspen Types
419 - Mixed Upland Deciduous
422 - Natural Pines
611 - Lowland Deciduous Forest

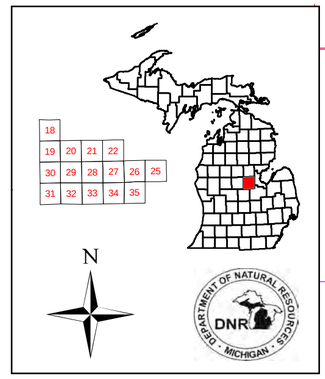
Non-Forest Stands

Level 3

310 - Herbaceous Openland
320 - Upland Shrub
330 - Low-Density Trees
622 - Lowland Shrub
623 - Emergent Wetland
629 - Mixed non-forested wetland

1 0.5 0 1 Miles

Special Conservation Areas & Site Conditions Map



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

Compartment: 099
T16N R01W
18 19 20 21 22 25 26 27
28 29 30 31 32 33 34 35
County: Midland
Unit: Gladwin
Management Area: Midland-Isabella
YOE: 2015
Acres: 5,539 GIS Calculated
Examiner: Steven Nyhoff
Map Revised: 06/18/2014
Map Phase: Pre-Review

Legend
- Miris Corners
- Stand Boundaries

Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

Site Condition Type

Available Factors W/ Constraints
- 2E: Road needed
- 2I: Survey needed
- 5B: Retention for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2B: Unknown if access through adjacent landowner(s) is possible

Unavailable Factors
- 1D: Interest Group / Neighbor
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values

1 0.5 0 1 Miles

84°29'0"W 84°28'0"W 84°27'0"W 84°26'0"W 84°25'0"W 84°24'0"W
43°46'0"N 43°45'0"N 43°44'0"N 43°43'0"N

Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit **Compartment 099 Year of Entry 2015**

Steven Nyhoff : 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	11	475	421	508	94	26	9	0	17	16	0	0	0	0	**1575**
Bog	74	0	0	0	0	0	0	0	0	0	0	0	0	0	**74**
Herbaceous Openland	149	0	0	0	0	0	0	0	0	0	0	0	0	0	**149**
Low-Density Trees	169	0	0	0	0	0	0	0	0	0	0	0	0	0	**169**
Lowland Aspen/Balsam Poplar	0	10	23	47	24	0	0	0	0	0	0	0	0	0	**104**
Lowland Deciduous	0	69	72	172	120	42	138	32	108	46	0	0	0	606	**1405**
Lowland Shrub	971	0	0	0	0	0	0	0	0	0	0	0	0	0	**971**
Marsh	105	0	0	0	0	0	0	0	0	0	0	0	0	0	**105**
Mixed Upland Deciduous	19	55	144	0	19	16	0	0	75	0	0	0	0	38	**365**
Northern Hardwood	0	6	10	0	0	0	0	0	0	0	0	0	0	12	**29**
Oak	0	98	151	84	38	0	0	48	60	12	0	0	0	0	**491**
Paper Birch	0	0	16	0	0	0	0	0	0	0	0	0	0	0	**16**
Treed Bog	37	0	0	0	0	0	0	0	0	0	0	0	0	0	**37**
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
White Pine	0	0	0	0	0	0	9	7	0	0	0	0	0	16	**32**
Total	**1551**	**712**	**838**	**810**	**295**	**84**	**155**	**88**	**260**	**74**	**0**	**0**	**0**	**672**	**5539**

Report 2 – Proposed Treatment Summaries

Gladwin Mgt. Unit
Year of Entry 2015

Compartment 099
Total Compartment Acres: 5,539

Acres by Treatment Type

Commercial Harvest - 426	Tree Planting - 201	Other - 0
Habitat Cut - 9	Opening Maintenance - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
(Habitat Cut)Aspen Types	9	0	0	0	0	0	**9**
Aspen Types	178	0	0	0	0	0	**178**
Lowland Deciduous Forest	7	145	0	0	0	10	**162**
Mixed Upland Deciduous	6	68	0	0	0	0	**74**
Oak Types	12	0	0	0	0	0	**12**
Total	**211**	**214**	**0**	**0**	**0**	**10**	**435**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	73099001-Cut	6.3	6113 - Lowland Maple	High Density Log	85	81-110	Harvest	Group Selection	6113 - Lowland Maple	Fld. Tr. Bdy. - Incomplete

Prescription Specs: The stand is to be harvested as a species removal of ash and a selection of other species. The residual BA should be kept around 80 to avoid wind throw.

Other Comments: There are portions of the stand that are too wet to harvest. These are mainly in the western portion of the stand.

Next Steps: The stand is expected to regenerate natural to a mixed swamp hardwoods.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
14	73099014-Cut	25.8	4130 - Aspen	High Density Pole	37	51-80	Harvest	Clearcut with Reserves	4130 - Aspen	Fld. Tr. Bdy. - Incomplete

Prescription Specs: The stand is to be clearcut with retention pocket not to exceed 5% of the stand's area.

Other Comments: This stand is to be harvested to move the compartment toward regulation under a 40 year rotation. This shorter rotation is proposed for the Midland Isavella MA

Next Steps: The stand is expected to regenerate naturally to aspen with some maple and oak.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
19	73099019-Cut	39.2	4130 - Aspen	High Density Pole	37	1-50	Harvest	Clearcut with Reserves	4130 - Aspen	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Clearcut the stand having pocket of retention. The pockets should not exceed 5% of the stand's area.

Other Comments: The stand is scheduled to be harvest to move the compartment closer to aspen regulation on a 40 year cycle as put fort in the draft management plane for the Midland Isabella MU.

Next Steps: The stand is expected to regenerate natural to aspen with some scattered maple and oak.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51	73099051-Cut	78.2	4131 - Aspen, Oak	High Density Pole	42	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Fld. Tr. Bdy. - Incomplete

Prescription Specs: The stand is to be clearcut with reserves. The retention should be around 10 BA of oak. The harvest should be taken to the top of the bank overlooking the flood plain of Mud Creek

Other Comments:

Next Steps: The stand is expected to regenerate to aspen mixed with some oak and maple.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
78	**73099078-Cut**	11.6	6119 - Mixed Lowland Deciduous Forest	High Density Log	94	81-110	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Harvest the stand by selection taking the BA down to 80. When marking favor the removal of ash.

Other Comments: There is a creek flowing through it and some portions of the stand are too wet to harvest. The stand is wet especially in the south west end. Most years this area will probably too wet to harvest a chance that these areas could be done during drought or frozen conditions. Because of this there may be a significant reduction in acres harvested.

Next Steps: The stand is expected to regenerate to a mixture of swamp hardwoods

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
87	**73099087-Cut**	11.8	4129 - Mixed Oak	High Density Pole	72	51-80	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Harvest the stand as a final harvest retaining 10 BA of oak. Make sure all poorly form maple are removed.

Other Comments: The stand was damage by past harvest activity around 40 years ago. Some of the maple has been pushed down and are now growing in less the ideal shape.

Next Steps: The stand is expected to regenerate to a mixture of oak, aspen and maple.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
98	**73099098-Cut**	50.2	4199 - Other Mixed Upland Deciduous	High Density Pole	83	51-80	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Fld. Tr. Bdy. - Incomplete

Prescription Specs: The stand is to be harvested as a selection retaining 70 BA. The retention in the stand should favor oak and the removal of ash.

Other Comments: There are areas that are fairly wet so rutting could be a problem in the stand when it is harvested.

Next Steps: The stand is expected to regenerate to a mixture of swamp hardwood.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
117	**73099117-Cut**	13.2	6119 - Mixed Lowland Deciduous Forest	High Density Log	83	81-110	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Fld. Tr. Bdy. - Incomplete

Prescription Specs: The stand is to be harvested by selection retaining 80 BA. The retention should favor oak and maple; and aspen and ash should be favored for removal.

Other Comments: Some areas of the stand are wet and may need to be painted out to avoid rutting issues.

Next Steps: The stand is expected to regenerate naturally.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
133	73099133-Cut	14.3	6119 - Mixed Lowland Deciduous Forest	High Density Log	86	81-110	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Fld. Tr. Bdy. - Incomplete

Prescription Specs: The stand is to be harvested as a selection retaining 70 sq ft. The retention should favor oak and maple of good form. The drainages may be too wet to harvest and may need to be painted out. This may cause a significant reduction of harvestable acres.

Other Comments: Areas of the stand are wet and provision made to avoid rutting problems.

Next Steps: The stand is expected to regenerate naturally to a mixture of swamp hardwoods.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
147	73099147-Cut	10.1	6113 - Lowland Maple	High Density Pole	88	81-110	Harvest	Other - Specify in Comments	6119 - Mixed Lowland Deciduous Forest	Fld. Tr. Bdy. - Incomplete

Prescription Specs: Harvest the stand by having a salvage cut of the ash, during dry/frozen conditions.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
220	73099220-Cut	21.7	6119 - Mixed Lowland Deciduous Forest	High Density Log	63	51-80	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: Harvest the uplands by removing aspen and marking the rest of the stand down to 60 BA. In the manageable areas of lowlands harvest as a selection taking the BA down to 80. In the wettest areas of the stand leave them untreated. The skid trails may need to be marked to facilitate logging.

Other Comments: Because of the low wet ground the harvested acres may be significantly less than the inventory acres. Also because it is in a draw, rutting could be a problem.

Next Steps: The stand is expected to regenerate naturally to mixed lowland deciduous.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
231	73099231-Cut	6.3	6119 - Mixed Lowland Deciduous Forest	High Density Log	90	81-110	Harvest	Group Selection	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: Cut the uplands by removing the overmature aspen and mark as needed to make the stand harvestable. Keep out of the areas in the stand that are too wet to manage.

Other Comments: The stand is fairly wet and rutting could be a problem.

Next Steps: The stand is expected to regenerate as mixed lowland deciduous with some aspen.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
421	73099421-Cut	6.9	6119 - Mixed Lowland Deciduous Forest	High Density Pole	83	81-110	Harvest	Clearcut	611 - Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: The stand should be harvested as a clear cut without retention. The ground is low and wet with a high probability of retained trees being thrown. Thrown trees would be a problem with Sanford Lake Road to the east and the power line to the west.

Other Comments: There is a power line along the west side of the stand. The stand is wet so it will need to be harvested during dry or frozen conditions.

Next Steps: The stand is expected to regenerate naturally to swamp hardwoods.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
423	73099423-Cut	5.6	4199 - Other Mixed Upland Deciduous	High Density Pole	82	81-110	Harvest	Clearcut	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription Specs: The stand is to be harvested as a clearcut without retentions. The reason is because it is siturated between a powerline and a county road and any wind throw could damage either.

Other Comments: There is a power line along the northern portion of the stand along the west side.

Next Steps: The stand is expected to regenerate to a mixture of aspen and oak.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
453	73099453-Cut	17.8	4131 - Aspen, Oak	High Density Pole	57		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs: The stand is to be harvested as a clearcut with reserves. The retention is to be by area and it should not exceed 5% of the stand.

Other Comments: Portions of the stand have steep banks and low areas that will need to be painted out. These areas could be the retention pockets. The trees in them are representative of the stand composition.

Next Steps: The stand is expected to regenerate naturally to aspen mix with other species.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
469	73099469-Cut	35.0	6119 - Mixed Lowland Deciduous Forest	High Density Log	74		Harvest	Single Tree Selection	611 - Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: The stand is fairly dry except in pockets in the southern portions of the stand. The stand is to be harvested as a selection retaining 70 BA. Favor the removal of aspen and ash but do not eliminate any one species.

Other Comments:

Next Steps: The stand is expected to regenerate naturally to maple and other species.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
100	73099100-Plant	30.4	4131 - Aspen, Oak	Low Density Sapling	14		Tree Planting	Hand Plant	4133 - Aspen, Mixed Pine	Fld. Tr. Bdy. - Incomplete

Prescription Specs: The stand is a failed aspen final harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red pine in the fall if accessable

Other Comments:

Next Steps: two years after planting check for regeneration success.

Proposed Start Date: 08/01/2014

25	NF_73099025-Plant	24.4	3105 - Mixed Upland Herbaceous				Tree Planting	Hand Plant	42111 - Planted Red Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red pine in the fall if accessable

Other Comments:

Next Steps:

Proposed Start Date: 08/01/2014

35	NF_73099035-Plant	18.6	3105 - Mixed Upland Herbaceous				Tree Planting	Hand Plant	42111 - Planted Red Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red pine in the fall if accessable

Other Comments:

Next Steps:

Proposed Start Date: 08/01/2014

36	NF_73099036-Plant	15.4	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	42211 - Natural Red Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be inter-planted with red pine in the fall if accessable

Other Comments:

Next Steps:

Proposed Start Date: 08/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
88	NF_73099088-Plant	22.1	3103 - Rubus-Fern				Tree Planting	Hand Plant	42211 - Natural Red Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red pine in the fall if accessable

Other Comments:

Next Steps:

Proposed Start Date: 08/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
92	NF_73099092-Plant	5.9	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	42111 - Planted Red Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red pine in the fall if accessable

Other Comments:

Next Steps:

Proposed Start Date: 08/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
240	NF_73099240-Plant	16.8	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: This is a failed aspen harvest from 18 years ago. The stand needs to be trenched and inter planted with red pine.

Other Comments: Access is from the south via the 45 degree road.

Next Steps: Check for planting survival after planting

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
245	NF_73099245-Plant	54.0	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: The stand needs to be interplant with red pine. When trenching the stand avoid the pockets of good regeneration. However, trench through the scattered oak that is less than 4 feet tall. There are areas of low ground that may not be suitable for trench and planting.

Other Comments: Access is from the south via the 45 degree road.

Next Steps: Survey the stand after planting for seedling survival.

Proposed Start Date: Unspecified

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
211	73099211-Survey	47.4	6113 - Lowland Maple	High Density Log	90	51-80	Regeneration Survey	Intermediate Survey (natural regen)	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: The stand was harvested as a group selection in 2013 and needs to have a regeneration survey done in 2016.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2017

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
222	73099222-Survey	10.3	6113 - Lowland Maple	High Density Log	90	51-80	Regeneration Survey	Intermediate Survey (natural regen)	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: The stand was harvested as a group selection in November of 2012. So a regeneration survey will be needed in 2016.

Other Comments: When it was harvested the tops were left in piles throughout the stand.

Next Steps:

Proposed Start Date: 10/01/2017

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
232	73099232-Survey	63.1	6113 - Lowland Maple	High Density Log	90	51-80	Regeneration Survey	Intermediate Survey (natural regen)	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: The stand was harvested as a group selection in November of 2012. So a regeneration survey will be needed by 2016.

Other Comments: Tops were left in piles throughout the stand.

Next Steps:

Proposed Start Date: 10/01/2017

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
233	73099233-Survey	31.0	6113 - Lowland Maple	High Density Log	90	51-80	Regeneration Survey	Intermediate Survey (natural regen)	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: The stand was harvested as a group selection in November of 2012. So a regeneration survey will be needed in 2016.

Other Comments: The tops were left in piles throughout the stand.

Next Steps:

Proposed Start Date: 10/01/2017

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
229	NF_73099229-Survey	31.9	3105 - Mixed Upland Herbaceous				Regeneration Survey	Intermediate Survey (natural regen)	413 - Aspen	Cmpt. Review Proposal

Prescription Specs: The stand was clearcut in November of 2012 and needs to have a regeneration survey in 2016.

Other Comments: If the regeneration is insufficient the stand will need to be hand planted to red pine. There are piles of tops scattered around the stand so trenching is not an option.

Next Steps: If regeneration is not adequete hand pland red pine.

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
230	NF_73099230-Survey	3.9	3105 - Mixed Upland Herbaceous				Regeneration Survey	Intermediate Survey (natural regen)	413 - Aspen	Cmpt. Review Proposal

Prescription Specs: The stand was harvested in November of 2012 and needs to have a regeneration survey done in 2016.

Other Comments: When it was harvested the tops were left.

Next Steps: When it is surveyed if the regeneration is not sufficient the stand will need to be hand planted without trenching because of the slash load.

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
234	NF_73099234-Survey	44.7	3301 - Low Density Deciduous Trees				Regeneration Survey	Intermediate Survey (natural regen)	413 - Aspen	Cmpt. Review Proposal

Prescription Specs: The stand was harvested in November 2012 and needs to have a regeneration survey done in 2016.

Other Comments: When the stand was harvested tops were left in piles and scattered.

Next Steps: If the regeneration is insufficient the stand will need to be hand planted to red pine. Because of the slash load trench is not a good option.

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
413	NF_73099413-Survey	24.3	3105 - Mixed Upland Herbaceous				Regeneration Survey	Intermediate Survey (natural regen)	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Specs: The stand was harvested as a clearcut with reserves in the fall of 2013. Regeneration survey will be needed in 2018.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2017

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
471	NF_73099471-Survey	7.1	3301 - Low Density Deciduous Trees				Regeneration Survey	Intermediate Survey (natural regen)	4121 - Oak, Aspen	Cmpt. Review Proposal

Prescription Specs: The stand was harvested as a seed tree harvest in the fall of 2013. The stand will need a regeneration survey done in 2018.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed: 805.2

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	73099013-Cut	8.7	4131 - Aspen, Oak	High Density Log	83	111-140	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Fld. Tr. Bdy. - Incomplete

Prescription Specs: The stand should be harvested as a clearcut with reserves. The retention should be 10 BA of oak.

Other Comment: The stand is landlocked by Mud Creek and private land. Access to the stand will be difficult. If access cannot be gained the stand should be habitat cut.

Next Steps: The stand is expected to regenerate to a mixture of aspen, oak and maple.

Proposed Start Date: 10/01/2014

Limiting Factor: 2B: Unknown if access through adjacent landowner(s) is possible

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
201	73099201-Cut	17.9	4199 - Other Mixed Upland Deciduous	High Density Log	90	81-110	Harvest	Group Selection	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: The stand is to be harvested as a species removal of ash and aspen. Howerver, mark some of the ash and aspen for retention. The overall BA should be kept around 70 sq ft. make sure the stand is marked to be loggable

Other Comment: There are some areas of low wet ground that will need to be watched for rutting. Also the stand needs to have the private line surveyed so the private lines are know. There is a fence along the north and west side that look to be acruate but it is hard to tell.

Next Steps: The stand is expected to regenerate as a mixed lowland deciduous forest with some aspen.

Proposed Start Date: 10/01/2014

Limiting Factor: 2I: Survey needed

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
263	73099263-Cut	8.0	4130 - Aspen	Medium Density Pole	53	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs: The stand should be harvested as a clearcut with some marked trees for retention.

Other Comment: Access is from Baker Road. This could be a difficult access because of poor road conditions.

Next Steps: The stand is expected to regenerate naturally to aspen. If regeneration is insufficient the stand will need to be trenched and interplanted to red pine.

Proposed Start Date: 10/01/2014

Limiting Factor: 2E: Road needed

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
267	73099267-Cut	9.3	4139 - Aspen, Mixed Deciduous	High Density Log	96	81-110	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: The stand needs to be harvested as a clearcut with reserves. The retention should be kept in the north end of the stand.

Other Comment: The access will be off Baker Road which could be difficult because of poor road conditions.

Next Steps: The stand is expected to regenerate to aspen mixed with maple and oak.

Proposed Start Date: 10/01/2014

Limiting Factor: 2E: Road needed

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
445	73099445-Cut	9.6	6119 - Mixed Lowland Deciduous Forest	High Density Log	85	81-110	Harvest	Group Selection	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: The stand should be harvested as ash salvage with additional trees marked for selection. The BA should be kept around 70 Sq. Ft.

Other Comment: Areas of the stand are very wet and may need to be painted out. This could significantly reduce the harvested acres compared to the inventory acres. Also, there is a significant slope along the state land that will need to be address. The stand is driest along the north edge. This is where the access to the stand will need to be put.

Next Steps: The stand is expected to regenerate naturally to swamp hardwoods.

Proposed Start Date: 10/01/2014

Limiting Factor: 2I: Survey needed

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
472	73099472-Cut	27.5	6119 - Mixed Lowland Deciduous Forest	High Density Log	83	81-110	Harvest	Single Tree Selection	6119 - Mixed Lowland Deciduous Forest	Cmpt. Review Proposal

Prescription Specs: Harvest the stand as a selection or group selection retaining about 70 BA. When marking, favor the removal of ash and poorer formed trees.

Other Comment: There are some areas in the stand that may be too wet to harvest and this may significantly reduce the harvested acres compared to the inventory acres.

Next Steps: The stand is expected to regenerate naturally to swamp hardwoods.

Proposed Start Date: 10/01/2014

Limiting Factor: 2I: Survey needed

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
107	NF_73099107-Plant	13.6	3301 - Low Density Deciduous Trees				Tree Planting	Hand Plant	42211 - Natural Red Pine, Mixed Deciduous	Fld. Tr. Bdy. - Incomplete

Prescription Specs: This is a failed aspen harvest. The site is difficult to access do to seasonal wetness on access roads. The stand will need to be planted with red pine in the fall if accessable

Other Comment:

Next Steps:

Proposed Start Date: 08/01/2014

Limiting Factor: 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Total Treatment Acreage Proposed: 94.6

Report 5 – Site Conditions

Gladwin Mgt. Unit

Steven Nyhoff : Examiner

Compartment 099

Year of Entry 2016

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions No	5C	5B	3D	2I	2H	2G	2E	2B	2A	1D
1575	1483	92	**Aspen**	1,456					8	22	17	9	24	38
104	95	10	**Lowland Aspen/Balsam Poplar**	95						10				
1405	956	449	**Lowland Deciduous**	898		21		37		403			7	39
365	346	20	**Mixed Upland Deciduous**	328				18						20
29	17	12	**Northern Hardwood**	17			12							
491	464	27	**Oak**	401	13	49	9		13	5				
16	4	12	**Paper Birch**	4						12				
32	16	16	**White Pine**	16										16
4,017	3,380	637	Total Forested Acres	3,215	13	70	21	55	20	452	17	9	31	113
	84%	16%	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
003	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	550				
	Comments:						
004	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	16				
	Comments:						
005	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	7				
	Comments:						

006	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	5	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)
Comments:					
007	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	4		
Comments:					
008	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	18	3J: Water quality / BMPs (stream, river, or lake)	
Comments:					
009	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	19		
Comments:					
010	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	56	3J: Water quality / BMPs (stream, river, or lake)	2F: Too steep
Comments:					
011	**Available**	**5B: Maintain for regeneration purposes**	21		
Comments:					

012	**Available**	**5B: Maintain for regeneration purposes**	38

Comments:

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

Comments:

014	**Not Available**	**3D: Recreational / Scenic values**	9

Comments:

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

Comments:

016	**Not Available**	**3D: Recreational / Scenic values**	12

Comments:

017	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	45

Comments:

018	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	13	
	Comments:			
019	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	2	
	Comments:			
022	**Available**	**2I: Survey needed**	18	
	Comments:			
024	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	3	
	Comments:			
025	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	11	
	Comments:			
028	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	4	
	Comments:			

029	Not Available	2G: Too wet (sensitive soils, does not include access issues)	4
Comments:			
030	Not Available	2G: Too wet (sensitive soils, does not include access issues)	3
Comments:			
031	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9
Comments:			
032	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6
Comments:			
033	Available	2E: Road needed	8
Comments:			
034	Available	2E: Road needed	9
Comments:			

035	**Available**	**2I: Survey needed**	10	
	Comments:			
036	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	17	
	Comments:			
037	**Available**	**2I: Survey needed**	28	
	Comments:			
038	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	9	
	Comments:			
039	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	7	
	Comments:			
040	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	7	
	Comments:			

041	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	4		
Comments:					
042	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	56	3J: Water quality / BMPs (stream, river, or lake)	2F: Too steep
Comments:					
043	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	95		
Comments:					
045	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	53		
Comments:					
046	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	3		
Comments:					
047	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	4		
Comments:					

048	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	4		
Comments:					
052	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	15		
Comments:					
054	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	14	2B: Unknown if access through adjacent landowner(s) is possible	
Comments:					
055	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	9	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	
Comments:					
056	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	7		
Comments:					
202	**Not Available**	**2A: Adjacent landowner denied access**	40	2G: Too wet (sensitive soils, does not include access issues)	
Comments:					

203	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	10
Comments:			
204	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	8
Comments:			
205	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	11
Comments:			
206	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	57
Comments:			
207	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	18
Comments:			
208	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	3
Comments:			

209	Not Available	2G: Too wet (sensitive soils, does not include access issues)	12	

Comments:

210	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	

Comments:

211	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	

Comments:

212	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10	

Comments:

213	Not Available	2G: Too wet (sensitive soils, does not include access issues)	8	

Comments:

403	Not Available	1D: Interest Group / Neighbor	1	

Comments:

404	**Not Available**	**1D: Interest Group / Neighbor**	118	
	Comments:			
405	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	10	
	Comments:			
406	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	9	2F: Too steep
	Comments:			
407	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	19	2F: Too steep
	Comments:			
408	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	4	
	Comments:			
409	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	3	
	Comments:			

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

Comments:

411	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	12

Comments:

412	**Not Available**	**2G: Too wet (sensitive soils, does not include access issues)**	4

Comments:

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

Comments:

414	**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

Comments

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6113 - Lowland Maple	High Density Log	8.6	85	81-110	The stand is a matrix of uplands and lowlands. The lowlands make up about 75% of the stand. The east end is heavy to red maple regeneration. However the west end lacks good regeneration. There are portion in the west end that are too wet to harvest.
2	4130 - Aspen	High Density Sapling	20.9	25	1-50	The stand is a matrix of uplands and lowlands. The uplands are the majority. The stand has areas of green ash over marsh grass along the private land. This is only a small portion of the stand.
3	4139 - Aspen, Mixed Deciduous	Medium Density	11.4	14		The stand is a matrix of uplands and lowlands. The uplands make up about 75%. There are areas of lowland shrubs present.
4	6119 - Mixed Lowland Deciduous Forest	Medium Density	13.3	14	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 65%. The terrain is hummocky.
5	4130 - Aspen	High Density Sapling	17.8	25	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 75%.
6	4126 - White, Black, N. Pin Oak	Medium Density	15.8	14		The stand is a matrix of uplands and lowlands with the uplands being about 65%. There are inclusions of lowland shrubs and areas of open herbaceous.
7	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	6.6	85	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 30%. western side very wet, eastern side dry.
8	6119 - Mixed Lowland Deciduous Forest	Medium Density	18.0	25	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 60%. There are inclusions of leather leaf and tag alder
9	4130 - Aspen	High Density Pole	24.7	25	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 75%. In the stand there are pockets of open herbaceous in the west end and areas of open lowland shrubs in the east end.
10	4130 - Aspen	High Density Pole	35.9	25	1-50	The stand is mainly uplands with a few inclusions of lowland in pockets.
11	4139 - Aspen, Mixed Deciduous	Medium Density Pole	110.5	37	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 55%. The stand is just coming into poles. Beavers have impacted the stand along stand 33. In this area the stand is of sparse oak. The terrain is undulating with the uplands being quite dry and the lowlands quite wet. Upland areas have pockets of open herbaceous and the lowland areas have pockets of lowland shrubs.
13	4131 - Aspen, Oak	High Density Log	8.7	83	111-140	The stand is not accessible. It is land locked by private land and Mud Creek. The Aspen is over mature and it is starting to decline.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4130 - Aspen	High Density Pole	25.8	37	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 60%. There are some pockets of lowland shrubs present.
15	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	8.6	83	1-50	The stand is on the flood plain of Mud Creek. Hemlock and white pine are on the slopes going out of the flood plain. Oaks are on the upland knobs and along the oxbows.
16	4130 - Aspen	Medium Density Pole	9.5	37	1-50	The density in the stand is variable. It has inclusions of lowland shrubs along the eastern edge.
17	4131 - Aspen, Oak	Low Density Sapling	3.1	3		The stand was harvested with a stand to the north in compartment 97. The regeneration looks to be about a year old. The crown closure is just 25%. This stand could also be classified as a low density deciduous tree stand.
19	4130 - Aspen	High Density Pole	39.2	37	1-50	The terrain is hummocky. The oak understory is heaviest in the south end. It appears that the oak was left when the stand was harvested as well as aspen less than 4" DBH
21	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	4.6	Uneven Age	81-110	(ages 120 hemlock, 86 paper birch, 94 green ash) The stand is in a depression with numerous springs. The lowest areas are very wet, even after a summer of drought. Hemlock is common, but it is over topped by other species. It is located on the slopes and on the higher portions of the stand. The ash is in the lowest areas.
22	6113 - Lowland Maple	High Density Pole	26.8	37	51-80	The stand is a matrix of uplands and lowlands with the lowlands being about 75%. There is an aspen ridge running through a portion of the stand. The terrain is hummocky. The stand has inclusions of lowland shrubs. EAB is present in the ash but it is currently at a low density. Hypoxylon canker is present in the aspen but it is in isolated pockets.
24	4125 - Black, N. Pin Oak	Low Density Sapling	5.7	37	1-50	The stand is sparse and has an inclusion of lowland shrubs in the southwest corner. South end of the stand has a crown closure of less than 25%. However, the north end has a crown closure greater than 75%. The average crown closure is 40%
26	6113 - Lowland Maple	Low Density Pole	4.7	78	1-50	The stand is in a drainage, so it is low and wet. There is a ridge along the north edge of the stand.
27	4131 - Aspen, Oak	High Density Sapling	26.0	11	1-50	(pine ages 53/20/32/50) The stand was harvested and has regenerated well overall. The northern leg, near the private land, is heavy to oaks. The mature pines that were left are in pockets scattered in the stand.
28	4130 - Aspen	High Density Pole	13.9	28	51-80	The stand has a heavy understory of red maple that is the same age as the aspen. The stand is very dense so it has very little ground cover.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	4130 - Aspen	Medium Density Pole	14.5	27	1-50	The aspen, in the stand, is mainly quaking aspen. It has a high percentage of black nodes giving it a poor form. The oak, in the stand, was left at the time of the harvest. Some of the oak is now seeding in but it is not much.
33	6113 - Lowland Maple	Medium Density Pole	11.4	Uneven Age	51-80	The density in the stand decreases from north to south. The species change from heavy red maple to heavy swamp white oak. This is also from north to south.
37	4130 - Aspen	Low Density Pole	8.9	29	1-50	The trees are patchy. There is a large opening in the central portion of the stand.
39	4130 - Aspen	High Density Sapling	7.0	17	1-50	The stand was harvested retaining some of the over story oak and trees that are less than or equal to 4" DBH. Regeneration over all is good.
40	4112 - Maple, Beech, Cherry Association	Medium Density	6.1	14		This is the portion of a harvested stand that did regenerate to a degree. However, the regeneration is still patchy.
42	4125 - Black, N. Pin Oak	Low Density Sapling	10.5	14		The stand has some oak regeneration that is sparse and in patches. There are large areas of open ground. The north end of the stand is very sparse because of deer browse. The trees that survived are now getting above the browse line.
43	6113 - Lowland Maple	High Density Pole	7.4	53	81-110	(ages taken 46/51) The stand is a matrix of uplands and lowlands. It is about a 50/50 mix. The stand has more characteristics of lowlands. There is a drainage going through it. This area has seen beaver activity in the past. The stand is mature but there are pockets of advanced regeneration. Most of it is red maple
44	4124 - Red with White Oak	High Density Pole	10.6	49	51-80	(ages 25 ash; 42/43 oak) The smaller diameter trees shows signs of release after the aspen and maple were harvested. The stand is now an oak stand. The co-dominate trees are around 42 years old. There are numerous oversized oaks that are significantly older. The oaks are mainly red oaks with some white oaks present. The high density aspen areas now have good aspen regeneration.
46	4130 - Aspen	High Density Sapling	16.2	17	1-50	This stand took some time to come in. It is now a fully stocked stand. The only areas that are sparse now are along pre-inventory stand 41. These sparse areas look to be the result of beaver activity. Invasive species Scotts pine and autumn olive are along the old skid trail. This is most visible toward the northern end of the trail.
48	4139 - Aspen, Mixed Deciduous	High Density Pole	6.3	28	81-110	The stand has a heavy understory of red maple that is the same age as the aspen. The stand is very dense so it has very little ground cover.
51	4131 - Aspen, Oak	High Density Pole	78.2	42	81-110	When the stand was harvested, large oaks were left for residual. The terrain is hummocky. Currently the stand has some good pole oak as well as oaks with large crowns.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	4126 - White, Black, N. Pin Oak	Low Density Sapling	13.7	25	1-50	The stand was harvested and the regeneration is mixed. It looks like beaver activity removed most of the tree species besides oak
55	4124 - Red with White Oak	High Density Pole	18.6	44	51-80	The terrain is hummocky. There appears to be some pockets of lowlands but overall the stand is quite dry. There are some oversized oak present but they are widely scattered.
57	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	8.9	25	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 70%. The terrain is hummocky. The stand has several drainages flowing through it connecting the lowlands.
58	4124 - Red with White Oak	Medium Density Log	23.2	74	51-80	The stand was harvested as a shelterwood in 2009. The regeneration is coming in well. It is mainly aspen, mixed with some maple and oak. Beaver have been hitting the north end of the stand fairly heavily.
59	6119 - Mixed Lowland Deciduous Forest	High Density Log	55.9	Uneven Age	81-110	The stand is the flood plain of Bluff Creek and the associated slopes coming out of the flood plain. There are a significant number of den trees present on the flood plain. There are also a number of spring coming from the hills side over the flood plain. The terrain is hummocky.
61	4125 - Black, N. Pin Oak	Medium Density	86.8	25	1-50	The stand is on a series of ridges wandering through a lowland shrub type. The northern leg has a stocking level of medium to well stocked. The southern legs are medium to poorly stocked.
63	4199 - Other Mixed Upland Deciduous	High Density Pole	8.0	51	1-50	The stand is a mixture of oak and aspen. When the stand was harvested some of the pole size oaks were retained. White pine is now seeding in.
65	6113 - Lowland Maple	Medium Density	25.7	13	1-50	The stand is a mixture of uplands, lowlands, and tag alder. The regeneration is patchy. Some of the lowland areas are very wet.
67	4119 - Mixed Northern Hardwoods	High Density Log	12.1	Uneven Age	141-170	(ages 91/61/53) The stand is mainly uplands with some areas of lowlands. There is a ridge along the edge of the flooding. The trees are largest at the east end of the stand. They get progressively smaller going west. There is very little ground cover.
68	6119 - Mixed Lowland Deciduous Forest	Medium Density	58.0	44	1-50	The terrain is hummocky. There are veins of lowland shrubs and areas that are open herbaceous in the stand.
69	4126 - White, Black, N. Pin Oak	High Density Sapling	34.4	15	1-50	The stand was harvested 2 YOE ago. The regeneration is doing well. There are some sparse pockets but, it is medium to well stocked overall.
70	4130 - Aspen	High Density Pole	9.7	27	51-80	The stand has a heavy understory of red maple in the west end. The maple is the same age as the aspen. The stand is very dense so it has very little ground cover.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
72	4131 - Aspen, Oak	Medium Density Pole	22.5	39	1-50	The stand was part of a rotational burn in the past. The oaks are seeding in, especially along the north side of the stand. The terrain is hummocky. It is a matrix of uplands and lowlands with the uplands being around 60%.
73	4130 - Aspen	Medium Density Log	7.8	85	1-50	The stand is mainly over mature aspen with no regeneration
74	4124 - Red with White Oak	Medium Density Log	13.5	74	51-80	The stand was shelterwood harvested in 2009. The regeneration is mainly white pine seeding in from the stand that contains Bluff Creek. Threre are some red maple and aspen regeneration but it is now very dense.
76	4139 - Aspen, Mixed Deciduous	Medium Density Pole	30.0	39	1-50	The stand is mainly quaking aspen. There is a mixture of other species. Overall the stand is just converting to poles. The site index is low being around 50 to 55
77	4126 - White, Black, N. Pin Oak	High Density Pole	10.8	29	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 70%. The terrain is hummocky.
78	6119 - Mixed Lowland Deciduous Forest	High Density Log	17.8	94	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 80%. EAB is present in the stand but light. There is a creek flowing through it and some portions of the stand are too wet to harvest. There is a chance that these areas could be done during drought or frozen conditions.
79	4124 - Red with White Oak	Low Density Log	5.9	93	1-50	The stand was harvested in 2007 as a seed tree harvest. The regeneration is low and it is mainly red maple stump sprouts. There are some white pines seeding in from the east. The deer browse is heavy causing poor regeneration.
80	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	47.7	39	1-50	This stand has a low site index for quaking aspen. The aspen is over leather leaf and blue berry. This area is very wet most of the year with sand soils. Therefore the nutrient level in the soil is low. This stand was also part of a rotational burn.
82	4123 - Red Oak	High Density Log	5.9	92	51-80	The terrain is hummocky. There is a drainage running through the stand. It was harvested as a shelterwood in 2007. However the regeneration is poor.
83	4199 - Other Mixed Upland Deciduous	Medium Density	75.4	26	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 60%. There are inclusions of lowland shrubs in pockets.
86	4130 - Aspen	High Density Pole	31.2	39	1-50	The terrain is hummocky. It is a fine matrix of uplands and lowlands with the uplands being around 70%. White pine and bigtooth aspen are heaviest in the western portion of the stand.
87	4129 - Mixed Oak	High Density Pole	11.8	72	51-80	The terrain is hummocky. The stand currently has some good oak poles in it.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
89	4130 - Aspen	Medium Density	10.2	14		This is the northern portion of a stand that was final harvested 12 years ago. This portion has regenerated fairly well. There are open areas with only a few trees. However, there are also areas, which are fully stocked.
91	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	24.5	Uneven Age	51-80	The density of the stand is variable. It is on the flood plain of Mud Creek. The flood plain is boardered by steep slopes.
93	4199 - Other Mixed Upland Deciduous	High Density Pole	19.0	42	51-80	This stand is mainly poles with some scattered larger overstory oak and pine.
94	6113 - Lowland Maple	High Density Pole	52.5	Uneven Age	81-110	The overstory is starting to die off and the understory is progressing well. At the current time, significant harm will be done to the thick understory if the overstory is removed. There are inclusions of uplands in the stand but they are a small portion.
96	6119 - Mixed Lowland Deciduous Forest	High Density Log	29.3	83	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 75%. A creek flows through the stand and the ash is concentrated along it. EAB is present but it is only in isolated trees at the current time. Much of the stand is too wet to harvest.
97	4125 - Black, N. Pin Oak	High Density Pole	24.9	32	1-50	The stand is just coming into poles of mainly oak and maple. There are some residual log size oaks present.
98	4199 - Other Mixed Upland Deciduous	High Density Pole	50.2	83	51-80	The stand is variable going from pole oak toward the south end and to pole/saw maple and oak toward the north end. It is a matrix of uplands and lowlands with the uplands being about 60%
99	42200 - Natural White Pine	High Density Log	8.9	64	81-110	The stand is a natural white pine stand. The trees appear to have been open grown, for the most part, so they are very branchy. The hardwoods in the stand are in pockets.
100	4131 - Aspen, Oak	Low Density Sapling	30.4	14		The stand is patchy with a lot of open ground. There are also pockets of lowlands present.
102	4199 - Other Mixed Upland Deciduous	High Density Pole	18.7	86	51-80	The stand is hummocky. It is a matrix of uplands and lowlands with the lowlands being about 60%. There is a dry ridge along the west side of the stand.
103	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	54.5	66	1-50	The terrain is very hummocky. There are pockets of leather leaf and tag alder. The stand is a matrix of uplands and lowlands with the lowlands being about 80%. In addition, portions of the stand appear to have been part of an old beaver flooding that is now drained down.
105	4199 - Other Mixed Upland Deciduous	Medium Density	34.7	14	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 75%. The green ash has EAB but it is not heavy at the current time. The regeneration is patchy with some dense pockets and some light pockets. The terrain is hummocky

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
106	4126 - White, Black, N. Pin Oak	High Density Log	37.5	83	51-80	The stand was harvested as a shelterwood in 2007. When the stand was harvested, the oak that was less than or equal to 4 inches DBH was left. The regeneration is starting to come in. The terrain is hummocky.
109	6119 - Mixed Lowland Deciduous Forest	High Density Pole	1.7	94	51-80	This small stand is a matrix of uplands and lowlands. The lowlands make up the majority.
110	4199 - Other Mixed Upland Deciduous	Low Density Sapling	19.4	7		The stand was harvested in 2007. The regeneration is patchy. It is very dense in the eastern portion of the stand and sparse in the western portion. The soils are dryer in the eastern portion as well.
111	4125 - Black, N. Pin Oak	High Density Log	9.1	83	51-80	This stand was harvested about 15 years ago as a shelterwood harvest. There is some regeneration occurring but it is hindered by human activity in much of the stand. This area is heavily used for disperse camping through out the year. Trash is an intermittent problem.
113	4131 - Aspen, Oak	High Density Sapling	15.4	17	1-50	The oak was left in the stand at the time of harvest. It is a matrix of uplands and lowlands with the uplands being about 75%.
114	4131 - Aspen, Oak	Medium Density	20.7	26	1-50	The stand is a mixture of tree species going from areas dominated by oak to areas of pure aspen. The density is also variable going from well stocked to non-stocked. The aspen, red maple, and choke cherry are scattered through out the stand. The oak is heaviest in the western portion. It is a little larger in diameter then the maple and aspen. It appears that the oak less then or equal to 4” was left during the harvest.
115	6119 - Mixed Lowland Deciduous Forest	High Density Log	18.7	Uneven Age	51-80	The density is higher in the western portion then eastern. There is also more maple west and more oak east. There are several drainages going through the stand that connect the lowlands
117	6119 - Mixed Lowland Deciduous Forest	High Density Log	13.2	Uneven Age	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 60%. The oaks in the stand are heavier in thee northern portions of the stand. The ash and red maple are heavier in the southern portions of the stand
118	4199 - Other Mixed Upland Deciduous	Medium Density Pole	8.5	52	1-50	The stand goes from open herbaceous to fully stocked poles to poorly stocked logs. The cherry in the stand looks to be in sorry shape with very weak crowns.
120	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	22.9	37	1-50	The stand is low and wet. There are some dry ridges and knobs in it. Much of it is barely forested having large areas of lowland shrubs.
121	4126 - White, Black, N. Pin Oak	High Density Log	13.4	83	1-50	The stand was harvested as a shelterwood in 1998. The regeneration is coming along well. The black spruce in the stand is holding its own. However there is some mortality. Often the black spruce is in the understory.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
122	4131 - Aspen, Oak	High Density Sapling	22.9	22	1-50	The stand is hummocky. Some of the log size oaks were left when the stand was harvested as well as some of the pole size oak.
123	4131 - Aspen, Oak	High Density Sapling	10.6	22	1-50	The stand is a hodge podge of species. It looks like a fire went through the stand or it had a 4" spec harvest. There are pole size oaks and maple. The terrain is hummocky. There are areas of standing water in the spring. The aspen is heavier at the north end and maple and oaks at the south end.
124	6119 - Mixed Lowland Deciduous Forest	High Density Pole	12.7	52	51-80	The stand is low and wet. 50% of the stand has marsh grass as its ground cover. There are also inclusions of uplands.
127	6112 - Lowland Aspen	Low Density Sapling	10.1	26	1-50	The stand is sparse. It is a matrix of uplands and lowlands with the lowlands being about 75%. The quaking aspen in the stand has poor form and the oak is not much better.
128	4126 - White, Black, N. Pin Oak	High Density Sapling	23.7	17	1-50	The stand is hummocky. When the stand was harvested the north end had some significant rutting. The harvest left oaks that were less than or equal to 4" DBH. The oak regeneration is a mixture of stump sprouts and seed source.
129	6113 - Lowland Maple	High Density Pole	16.3	52	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 45%. The terrain is hummocky. There are inclusions of both lowland shrubs and upland herbaceous.
130	4131 - Aspen, Oak	High Density Pole	32.0	26	1-50	The oak density is highest along the road. The terrain is undulating to hummocky. There are inclusions of lowland shrubs. When the stand was harvested it appears that some of the oaks were left.
131	6112 - Lowland Aspen	Medium Density	13.3	27	1-50	The stand is a matrix of uplands and lowlands with the lowlands being about 75%. The uplands are concentrated along Burns Road. Currently there is a lot of natural thinning going on. This has led to the stand having significant coarse woody material on the forest floor.
133	6119 - Mixed Lowland Deciduous Forest	High Density Log	18.1	Uneven Age	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 60%. The terrain is hummocky. There are several drainages flowing through stand.
137	6114 - Lowland Oak	High Density Log	21.0	86	51-80	The terrain is hummocky. The stand was harvested and is now starting to regenerate. The ash is in pockets. EAB is present but at a low level currently.
138	6119 - Mixed Lowland Deciduous Forest	High Density Sapling	21.2	Uneven Age	1-50	The stand was harvested in 2006 as a seed tree/shelterwood. It is a matrix of uplands and lowlands. The uplands are on narrow ridges that go through the stand. The lowland areas are concentrated along the edges and the south end. The understory maple and oak should be the featured stand. The overstory is declining.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
141	4199 - Other Mixed Upland Deciduous	High Density Pole	41.3	26	51-80	The stand has quite a bit of coarse woody material on the ground. Most of it is moderately too well-rotted. The terrain is slightly hummocky. There is some mortality in the overstory of oak, maple, and ash. EAB is not present in the stand at the current time. The ash is in isolated pockets.
142	4199 - Other Mixed Upland Deciduous	High Density Sapling	26.8	26	1-50	The stand is a matrix of uplands and lowlands with the uplands being about 70%. The lowland areas are heavy to lowland shrubs. The upland areas are heavy to oak. Much of the stand is a mixture of swamp hardwood and quaking aspen.
143	4125 - Black, N. Pin Oak	High Density Pole	29.1	26	1-50	The stand is on a ridge. When it was harvested the oaks appear to have been left.
146	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	6.6	92	51-80	The overstory is coming down. The terrain is hummocky and wet. The stand is slightly too wet to harvest.
147	6113 - Lowland Maple	High Density Pole	10.1	Uneven Age	81-110	The stand was harvested by selection in 2003. The terrain is hummocky and wet. EAB is present and some of the trees are close to dying.
201	4199 - Other Mixed Upland Deciduous	High Density Log	17.9	Uneven Age	81-110	The stand is a matrix of uplands and lowlands with the uplands being about 60%. The stand looks like it will dry out in late summer. Some areas are quite wet.
202	6113 - Lowland Maple	High Density Pole	20.4	63	81-110	The terrain is hummocky, low and wet. The timber is poor quality. The mature aspen has signs of significant rot. The understory is very brushy. Because of the snowpack it is hard to tell if this stand is too wet to manage.
203	6112 - Lowland Aspen	Medium Density Pole	32.2	32	1-50	The stand was habitat cut. It is mainly lowlands with some areas of uplands. The stand goes from leather leaf to tag alder to bracken fern and blueberry. The swamp hardwood was thickest along the transition zone between lowland shrubs and uplands.
206	6113 - Lowland Maple	Medium Density Pole	14.4	63	51-80	The stand has several dry ridges in a matrix of lowlands. The upland areas are sparse and the lowlands are mainly swamp hardwood with some areas of lowland shrubs.
207	4131 - Aspen, Oak	Medium Density Pole	8.4	40		This stand is a dry ridge that has pockets of good regeneration with some open areas. The northern end is heavy to bigtooth aspen and the southern end is heavier to trembling aspen. The ridge has a lot of white pine stumps.
209	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	3.9	10		The stand was typed as a G-type last YOE but it is now filling in with scotts pine and oak.
210	4139 - Aspen, Mixed Deciduous	High Density Sapling	70.9	18		The stand is a matrix of uplands and lowlands with the uplands being about 85%. The stand goes from well to poorly stocked and from thick aspen to sparse oak. There are areas of tag alder, holly, and willow; as well as areas of poverty grass, bracken fern, and blueberry. Along the trail there are numerous barrow pits.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
211	6113 - Lowland Maple	High Density Log	47.4	Uneven Age	51-80	The terrain is hummocky. The stand is about 80% lowlands and 20% uplands. The lowlands are dryer than many other swamp hardwoods. The stand was selectively harvested retaining 70 BA. Stand was harvest in the Grouse Run Mix sale # 73-008-11-01 in the late summer of 2012. Sale closed 11/05/12
212	6112 - Lowland Aspen	High Density Pole	24.5	40	51-80	The stand is a matrix of uplands and lowlands with the uplands being the majority. There are pockets of tag alder and michigan holly. Some areas in the stand maybe too wet to harvest. The terrain is hummocky
213	4130 - Aspen	High Density Pole	54.3	32	51-80	The stand is a matrix of uplands and lowlands with the uplands being about 60%. There are inclusions of very low wet ground including areas of leather leaf and tag alder. There are also areas that are mainly bracken fern, poverty grass, and blueberry. The stand goes from well to poorly stocked. The terrain is hummocky. White pine stumps are common throughout the stand.
214	4130 - Aspen	Medium Density	5.0	18	1-50	The stand was harvested and has regenerated fairly well with some open areas along the two-track
215	6119 - Mixed Lowland Deciduous Forest	High Density Pole	32.7	40	81-110	The stand is a matrix of uplands and lowlands with the lowlands being about 70%. There are intermittent drainages running throughout the stand. The terrain is hummocky.
217	4130 - Aspen	High Density Sapling	38.9	18		The regeneration is coming in well. The area is a matrix of uplands and lowlands with the uplands being about 80%.
218	4130 - Aspen	High Density Sapling	47.5	10	1-50	The stand was harvested by cutting the aspen and red maple. The residual stand is a mixture of paper birch, black tupelo, and oak. The stand is regenerating with aspen, red maple, and oak.
219	6119 - Mixed Lowland Deciduous Forest	High Density Pole	19.5	48	81-110	The stand is a matrix of uplands and lowlands with the uplands being around 45%. There are definitely areas of very low wet ground scattered in the stand. EAB is present but not heavy at the current time. The terrain is hummocky.
220	6119 - Mixed Lowland Deciduous Forest	High Density Log	21.7	Uneven Age	51-80	The stand is about 75% lowlands. There are inclusions of uplands that could be harvested and pockets that are too wet to harvest. The terrain is hummocky.
221	42201 - Natural White Pine, Mixed Deciduous	High Density Pole	7.1	70	111-140	The stand is a dense area of white pine that is somewhat unevenly aged. The trees go from seedling to extra-large saw logs. The pole class is the most predominate and therefore they are the featured stand.
222	6113 - Lowland Maple	High Density Log	10.3	Uneven Age	51-80	The stand was harvested as a group selection. It is a matrix of uplands and lowlands with the lowlands being about 80%. There are many piles of tops present from the harvest which took place in November 2012.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
223	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	9.9	45	1-50	The stand is too wet to harvest. It is mainly swamp white oak and ash over tag alder and michigan holly.
226	6113 - Lowland Maple	High Density Pole	39.3	32	51-80	The stand gets wetter and brushier going south. The terrain is hummocky. There are areas that are too wet to harvest.
227	4130 - Aspen	High Density Pole	21.5	30	81-110	The stand is patchy with open areas. These areas are filling in with oak. The stand is on a ridge.
228	4130 - Aspen	Medium Density	7.5	5		The stand appears to have been habitat cut and it is regenerating fairly well overall. There are some scattered oak and white pines that were left when it was cut.
231	6119 - Mixed Lowland Deciduous Forest	High Density Log	6.3	Uneven Age	81-110	Part of the Old Tupelo Sale that was never cut. It is seasonally wet. The central portion of the stand has more upland and could be harvested. However many of the edges are too wet to harvest.
232	6113 - Lowland Maple	High Density Log	63.1	Uneven Age	51-80	The stand was harvested as a group selection in November 2012. It is a matrix of uplands and lowlands with the lowlands being about 80%. EAB is present. When it was harvested, tops were left in piles.T
233	6113 - Lowland Maple	High Density Log	31.0	Uneven Age	51-80	The stand was harvested as a group selection in November 2012. It is a matrix of uplands and lowlands with the lowlands being about 80%. There are many top piles that were left after the stand was harvested
235	6113 - Lowland Maple	High Density Pole	11.0	90	81-110	The stand is too wet to manage. The trees go from sapling to sawlogs.
237	4199 - Other Mixed Upland Deciduous	Low Density Pole	16.3	18	1-50	The stand was harvested but has not regenerated well. The east side is where most of the trees are. When it was harvested the oaks and birch were left. The regeneration is patchy. The birch in the stand is declining.
238	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	7.9	Uneven Age	51-80	The stand is too wet to harvest. There is a ridge along the south edge. There are areas of ash in the stand, they have EAB and they're declining.
241	6119 - Mixed Lowland Deciduous Forest	High Density Log	56.8	Uneven Age		The stand is too wet to manage. The terrain is hummocky. There is a mixture of uplands and lowlands with the lowlands being about 80%. There are drainages throughout the stand.
243	4116 - Mixed N. Hardwood - Aspen	Medium Density Pole	10.5	22	1-50	The stand is patchy going from well to poorly stocked. The maple saplings are a mixture of multiple and single stems. The terrain is hummocky. There are inclusions of lowland shrubs as well as areas of open herbaceous.
244	4130 - Aspen	Medium Density	10.8	18		The stand is a matrix of uplands and lowlands with the uplands being the majority. There are inclusions of lowland shrubs. The terrain is hummocky.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
248	4125 - Black, N. Pin Oak	Low Density Sapling	3.7	18	1-50	The stand is an uplands ridge. There is a close two-track in the northern end. Regeneration is poor and is mainly made up of the retained oak.
251	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	17.8	18	1-50	The stand is in a depression and it is too wet to manage. The terrain is hummocky.
253	4125 - Black, N. Pin Oak	High Density Pole	10.8	29	81-110	The stand is a ridge. It has a swamp hardwood draw in it. When it was harvested the oaks were retained.
254	4131 - Aspen, Oak	Medium Density	34.4	18		The stand has regenerated to a medium stocking of oak and aspen. The openings that are present are wet so they could not be planted.
257	4125 - Black, N. Pin Oak	Low Density Pole	9.1	40	1-50	The stand is a ridge. It has a somewhat patchy species mixture having areas of oak and areas of aspen.
258	6112 - Lowland Aspen	Medium Density	9.6	18		This stand is currently being hit by beaver. The stand has numerous slight upland knobs and ridges in a matrix of lowland shrubs and marsh grass.
261	4130 - Aspen	High Density Pole	10.9	29	81-110	The stand is a matrix of uplands and lowlands with the uplands being the majority. There are fingers of ash and maple coming off the lowland shrub type to the west.
262	4130 - Aspen	High Density Sapling	8.3	18	1-50	The stand is a matrix of uplands and lowlands with the uplands being the majority. The lowlands are mainly along the edges of the stand or as fingers.
263	4130 - Aspen	Medium Density Pole	8.0	53	51-80	The stand was cut in the 60s for grouse runs. The stand is on a ridge with the ground cover of poverty grass and bracken fern. The aspen is in clones and is somewhat patchy.
264	4125 - Black, N. Pin Oak	Low Density Sapling	9.4	19	1-50	The stand was harvested and the aspen didn't come back well. The southern portion is at a medium stocking level; and the eastern portion is at a poor stocking level.
265	4130 - Aspen	High Density Sapling	39.5	19		The stand is a matrix of uplands and lowlands with the uplands being about 85%. The terrain is undulating.
267	4139 - Aspen, Mixed Deciduous	High Density Log	9.3	96	81-110	The stand is fairly wet at the north end. However, much of the stand is a ridge. The aspen in it is overmature.
269	4130 - Aspen	High Density Sapling	23.9	15		The stand is land locked and the property is to be put up for disposal. It was harvested in 1998 in a negotiated sale 73-035-97-02. The regeneration is somewhat patchy. There are large areas of open ground which are visible on the imagery.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
271	6119 - Mixed Lowland Deciduous Forest	High Density Pole	6.9	90		The stand was too wet to harvest in 1998. The inventory reported as being a low quality ash/maple forest mixed with some other species. The ash made up about 40%, the maple about 40% and other species 20%.
403	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	25.2	22		The stand is a matrix of low ridges, lowland shrubs, and cattails. The east side has a more uniform dispersal of trees over lowland shrubs. West 1/2 has more ridges in a matrix of non-forested wetlands.
406	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	5.5	50	1-50	The stand was painted out of the sale because it is too wet to harvest. It has scattered pockets of trees in a matrix of tag alder.
407	4121 - Oak, Aspen	High Density Pole	27.9	36	51-80	The stand is mainly a ridge. When it was harvest it looks like the oak was retained.
408	4131 - Aspen, Oak	Medium Density	59.7	14		The stand is a matrix of uplands and lowlands with the uplands being the majority. The terrain is hummocky. The regeneration is patchy. The aspen is heavier along the south and east sides; oak is heavier along the north and west sides. There are numerous small inclusions of lowland shrubs.
409	6119 - Mixed Lowland Deciduous Forest	High Density Pole	2.8	Uneven Age	81-110	The terrain is hummocky. The north end is wetter and has more birch, swamp white oak. The south end is a little dry and is heavier to red maple. Also the north end is heavier to poles and the south end is heavier to logs.
410	4137 - Aspen, Birch	Medium Density	62.6	22		The stand is a matrix of uplands and lowlands with the uplands being the majority. There are inclusions of lowland shrubs and open herbaceous. Birch is heavy in the northern portion of the stand.
411	6119 - Mixed Lowland Deciduous Forest	High Density Pole	34.5	65	51-80	The terrain is hummocky. The stand is a matrix of uplands and lowlands with the lowlands being the majority. There are portions of the stand that are too wet to manage. These are mainly in the south central portion of the stand.
412	4139 - Aspen, Mixed Deciduous	High Density Pole	26.6	24		The stand is a matrix of uplands and lowlands with the uplands being the majority. The lowlands are mainly on the east and west sides of a broad ridge that goes through the center of the stand. The terrain is hummocky to undulating.
415	6119 - Mixed Lowland Deciduous Forest	High Density Log	20.6	Uneven Age	81-110	This is the river corridor of Verity Creek. The sides of the flood plain are steep. The terrain is hummocky. The hemlock is concentrated at the springs coming out of the side slopes.
418	4137 - Aspen, Birch	Medium Density	3.7	14		The stand was harvested and is regenerating in a patchy mix. There are some areas in the stand that are low and wet.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
419	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	5.5	14		The stand was heavily rutted when it was harvested. It has come back mainly along the east and west sides. The central portion of the stand is dominated by tag alder with some scattered trees.
420	4130 - Aspen	High Density Sapling	16.4	22		The stand is mostly upland with some pockets of lowlands. The oak is concentrated on the driest portions of the ridge that goes through the stand.
421	6119 - Mixed Lowland Deciduous Forest	High Density Pole	6.9	83	81-110	The stand is a buffer left along Sanford Lake Road. The stand is fairly low and wet. There is a power line running along the west side of the stand.
423	4199 - Other Mixed Upland Deciduous	High Density Pole	5.6	82	81-110	The stand is a buffer that was left along Sanford Lake Road. The soils are fairly dry and the terrain is slightly hummocky.
426	6113 - Lowland Maple	High Density Pole	24.8	73	81-110	The terrain is hummocky. The oak component in the stand is heavier to the east and maple and ash to the west. There are some areas of upland in the eastern portion of the stand.
427	6114 - Lowland Oak	High Density Pole	8.6	36	51-80	The terrain is hummocky. The area is thick to lowland shrubs. It is hard to say how wet the stand is because of the snow depth.
428	6119 - Mixed Lowland Deciduous Forest	Medium Density	16.7	22	1-50	The stand is a matrix of uplands and lowlands with the lowlands being the majority. The terrain is hummocky. White pine is weeviled. The non-forested areas are a combination of open herbaceous and lowland shrubs. The stand has a heavy blueberry component. Portions of the stand were heavily rutted when it was harvested.
431	4126 - White, Black, N. Pin Oak	High Density Pole	18.6	36	51-80	The stand is made up of oak ridges separated by lowland shrubs swales. There are some larger overstory oaks but much of the stand is poles.
432	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	2.1	93		The stand is in a depression and it is too wet to harvest. It is mainly a low density swamp hardwood poles over michigan holly and other lowland shrubs.
433	6116 - Lowland Birch	Medium Density	2.9	22		The stand is in a depression and it is too wet to manage. The terrain is hummocky.
434	6113 - Lowland Maple	High Density Log	17.5	Uneven Age		The stand is along Sanford Lake Road. It appears to have significant standing water present in the spring. The terrain is hummocky.
436	4139 - Aspen, Mixed Deciduous	High Density Log	6.6	93		The stand is along the Verity Shores Subdivision.
437	6114 - Lowland Oak	Medium Density	3.8	14		The terrain is hummocky. The stand is a matrix of uplands and lowlands with the uplands being about 30%. The ground cover is heavy to blueberry.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
438	4131 - Aspen, Oak	High Density Sapling	65.9	22		The terrain is undulating. It goes from upland ridges to lowland swales. Some areas are sparse others are very dense.
439	4131 - Aspen, Oak	High Density Sapling	15.8	14		The stand was harvested in 2002 as a clearcut retaining the oak less than 4" DBH. The stand is on a dry ridge with a trail running through it.
442	6119 - Mixed Lowland Deciduous Forest	Medium Density	2.9	14		The terrain is hummocky. The stand is a mixture of open lowlands and areas of trees. The ground cover is heavy to blueberry.
443	6113 - Lowland Maple	High Density Log	20.0	Uneven Age		The terrain is hummocky. There are some very wet areas in the stand but overall it could be managed.
444	4131 - Aspen, Oak	High Density Pole	7.0	43		This stand was not harvested and was left to be a visual buffer. The stand sits right along Sanford Lake Road.
445	6119 - Mixed Lowland Deciduous Forest	High Density Log	9.6	Uneven Age	81-110	The stand is wet. However because of the snow depth it is hard to tell how wet. EAB is present and fairly extensive.
446	6116 - Lowland Birch	Low Density Sapling	13.3	22		The stand was heavily rutted when it was harvested.
448	6119 - Mixed Lowland Deciduous Forest	High Density Pole	4.1	61	81-110	The stand is in a draw. The ash is heavily EAB and is declining.
449	42201 - Natural White Pine, Mixed Deciduous	High Density Log	15.9	Uneven Age		The stand is mainly uplands. The white pines are concentrated along Fike Road and drops off noticeably going north or south. The white pine appears to have a long history of being weeviled. They have a lot of sweep and crooks just above branch whorls. They also have multiple leaders.
450	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	19.6	Uneven Age		The stand is a matrix of uplands and lowlands with the uplands being the majority.
451	6112 - Lowland Aspen	High Density Sapling	14.5	35		The stand is a matrix of uplands and lowlands with the lowlands being the majority. The terrain is hummocky. It appears that there is standing water present for some part of the year. It is hard to tell exactly how wet the stand is because of the snow.
453	4131 - Aspen, Oak	High Density Pole	17.8	57		The stand is a mixture of quaking and bigtooth.
454	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	3.0	22	1-50	The terrain is hummocky and the stand is very wet.
456	4133 - Aspen, Mixed Pine	High Density Pole	8.6	69		The stand is on a ridge that overlooks the Tittabawassee River/Sanford Lake. The stand has a steep bank next to the river.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
458	4131 - Aspen, Oak	High Density Pole	76.9	35	81-110	The stand is mainly uplands with areas of lowlands. The terrain is hummocky. Oaks are heavier on the ridges. Aspen and birch are found on the moderate ground. Red maple in the stand is a mixture of single and multiple stems.
459	6113 - Lowland Maple	High Density Log	25.9	Uneven Age		The stand is wet overall. The south end is far wetter than the north end. The terrain is hummocky.
460	4130 - Aspen	High Density Pole	78.9	35	81-110	The stand is coming along well. The terrain is hummocky to undulating. There are inclusions of low wet ground.
462	6113 - Lowland Maple	Medium Density	10.4	35	1-50	The stand is in a draw and it is very brushy. The terrain is hummocky. Overall the stand is too wet to manage.
463	6119 - Mixed Lowland Deciduous Forest	Medium Density	16.3	35	1-50	The terrain is hummocky. The stand is in a depression. There are inclusions of leather leaf.
466	4131 - Aspen, Oak	High Density Pole	7.5	35	51-80	The stand is wetter going south. The terrain is hummocky. The stand is a matrix of uplands and lowlands with the uplands being the majority.
467	6113 - Lowland Maple	High Density Log	9.7	69	81-110	The stand is the flood plain of Black Creek with its steep banks that border it. EAB is present and extensive. The ash will fall out of the stand in the next couple of years. The soils are too wet to manage and the ash is too far gone to salvage.
468	4125 - Black, N. Pin Oak	High Density Pole	6.5	35	81-110	The stand has a small red pine pocket (less than 1 acre) that has 190 BA. There is an area north of the trail that is fairly wet and in a depression.
469	6119 - Mixed Lowland Deciduous Forest	High Density Log	35.0	Uneven Age		The stand is wet overall. The south end is far wetter than the north end. The terrain is hummocky.
470	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	2.9	74	1-50	This is a very wet pocket in the stand. The density is low and much of it does not look too healthy.
472	6119 - Mixed Lowland Deciduous Forest	High Density Log	27.5	83	81-110	The stand ranges from wet to moderate. The terrain is hummocky. EAB is present and the ash is expected to fall out of the stand in the next 10 years. In addition the aspen and birch is declining and are expected to fall out as well. There are some areas in the stand that may be too wet to harvest.

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
12	629 - Mixed non-forested wetland	9.2	No	Low	The stand is the Mud Creek bottomland.
18	6224 - Treed Bog	3.9	No	Low	The stand is mainly paper birch over leather leaf, blueberry, and dogwood. The other species present are swamp white oak, white pine, and red maple.
20	6220 - Alder/willow	4.1	No	Low	The stand is mainly tag alder and willow with paper birch and some oak. The crown closure is near 15%.
23	6229 - Mixed lowland shrub	15.9	No	Low	The stand is mainly tag alder, winter berry, and leather leaf. There are some trees scattered. The highest density is in the southern portion of the stand.
25	3105 - Mixed Upland Herbaceous	24.4	Plantation	Red Pine	This stand was harvested 12 years ago and it failed to regenerate.
29	629 - Mixed non-forested wetland	3.4	No	Low	The stand is a mixture of lowland grass and lowland shrubs with some pockets of oaks and maples.
30	6229 - Mixed lowland shrub	3.5	No	Unspecified	The stand is mainly lowland shrubs with some swamp hardwoods in the overstory.
32	6229 - Mixed lowland shrub	14.7	No	Low	The stand is mainly lowland shrubs with scattered red maple, swamp white oak, green ash, and hybrid red/black oak.
34	6229 - Mixed lowland shrub	58.4	No	Low	The stand is heavy to leather leaf mixed with shrubs and marsh grass. There is a small area of open water in the southern portion of the stand.
35	3105 - Mixed Upland Herbaceous	18.6	Plantation	Red Pine	The stand was harvested and it failed to regenerate. Currently there are some scattered oaks and pines but it is very sparse. The harvest occured in 2000
36	3301 - Low Density Deciduous Tree	15.4	Plantation	Red Pine	This stand is a failed aspen clear cut. Currently there are some red maple, aspen and oaks in it. However the regeneration is patchy at best. Much of the regeneration is in the south end. The harvest occured in 2000.
38	3103 - Rubus-Fern	8.2	No	Unspecified	The stand is an area of mainly bracken fern and grass. Trees and shrubs are starting to encroach around the perimeter.
41	6239 - Mixed Emergent Wetland	13.5	No	Low	The stand was a beaver flooding. It has since drained down and it has become a beaver meadow. There are still areas of water but it is not as extensive as it once was.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
45	6230 - Cattail	53.1	Yes	Low	The stand is an old maintained flooding. The control structure has been removed and it was replaced with a spillway. Currently the water level is low and the only area of standing water is in the south end.
47	629 - Mixed non-forested wetland	28.3	No	Unspecified	This is on the flood plain of Mud Creek. The area has been impacted by beaver activity in the past. It is now mainly a beaver meadow with areas of willow and tag alder. The trees present are on the slopes coming out of the flood plain. These areas are heavy to hemlock, white pine and swamp hardwoods.
49	6229 - Mixed lowland shrub	3.9	No	Low	The stand is mainly a lowland shrubs type with pockets of marsh grass.
50	6225 - Bog	3.2	No	Unspecified	The stand is mainly a lowland shrub type with pockets of marsh grass.
53	11 - Low Intensity Urban	8.1	No	Unspecified	This is the ROW of M-18 and US-10 which includes the park and ride parking lot.
54	6229 - Mixed lowland shrub	5.8	No	Low	The stand is mainly lowland shrub type with scattered swamp hardwoods. Currently it has a crown closure of less than 15%. This is higher along the perimeter.
56	6233 - Wet Meadow	5.0	No	Low	The stand looks to be an old beaver flooding that has now drained.
60	629 - Mixed non-forested wetland	22.5	No	Low	The stand is a mixture of lowland shrubs with pockets of emergent wetlands.
62	6224 - Treed Bog	25.2	No	Unspecified	The stand has a heavy shrub layer of leather leaf mixed with other shrubs, mainly vaccinium. There are scattered quaking aspen and white pine trees. However, they appear to be stunted. Most of them have a diameter of less than 4" DBH at 37 years old. The site index is less than 45 so it is not a productive stand. This stand was part of a rotational burn.
64	6229 - Mixed lowland shrub	12.6	No	Low	The stand has some pockets of green ash and red maple. However, it currently has a crown closure that is less than 15%.
66	3105 - Mixed Upland Herbaceous	4.6	No	Low	The stand is an upland ridge. It is a natural stand of bracken fern and poverty grass.
71	3105 - Mixed Upland Herbaceous	7.0	Plantation	Red Pine	The stand was harvested and did not regenerate. It is now mainly poverty grass and bracken fern.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
75	6229 - Mixed lowland shrub	70.7	No	Low	The stand is mainly tag alder and willow. There are pockets of swamp hardwoods in it. The crown closure is less than 25%.
81	6229 - Mixed lowland shrub	64.9	No	Low	The stand is made up of lowland shrubs. Most of them are less than 4' tall mixed with herbaceous vegetation.
84	6229 - Mixed lowland shrub	38.1	No	Low	This is an old beaver flooding. It is now tag alder with areas of marsh grass and leather leaf. There are also islands of trees having less then 15% crown closure.
85	629 - Mixed non-forested wetland	22.7	No	Unspecified	This stand was an old beaver flooding. It has drained down. There are still areas that hold water, even if much of it is now lowland shrubs.
88	3103 - Rubus-Fern	22.1	Plantation	Red Pine	The stand was harvested and it did not regenerate well. It is currently non-forested herbaceous open land. It has some widely scattered pockets of trees.
90	6220 - Alder/willow	2.6	No	Low	This is a small depression of tag alder. There are some swamp hardwoods around its perimeter.
92	3301 - Low Density Deciduous Tree	5.9	Plantation	Red Pine	Trees in the stand are around the perimeter. There is a large area of sweet fern mixed with poverty grass.
95	629 - Mixed non-forested wetland	122.1	No	Unspecified	This stand is a series of old beaver floodings. They are not holding much water. Therefore, the stand now goes from open water; to cattails and marsh grass; to willow and tag alder. There are inclusions of swamp hardwoods in pockets.
101	629 - Mixed non-forested wetland	5.7	No	Low	The stand looks to be a beaver flooding.
104	6229 - Mixed lowland shrub	39.5	No	Low	The stand is mainly lowland shrubs with areas of mixed non-forest wetlands and islands of trees. The trees are heaviest along the perimeter and in the north end.
107	3301 - Low Density Deciduous Tree	13.6	Plantation	Red Pine	The stand was harvested but did not regenerate well. The access is poor being mainly from private.
108	6224 - Treed Bog	7.8	No	Unspecified	This stand is mainly leather leaf with paper birch and red maple in it. The birch is scattered throughout the stand. Red maple is heavier along the southern edge.
112	629 - Mixed non-forested wetland	3.5	No	Low	This stand is the river bottom land of Mud Creek.
116	629 - Mixed non-forested wetland	3.3	No	Unspecified	This is an area of lowland shrub mixed with open wetlands.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
119	6229 - Mixed lowland shrub	3.5	No	Low	The stand is mainly lowland shrubs with areas of cattails and marsh grass.
125	6225 - Bog	3.9	No	Low	The stand is mainly leather leaf with lowland shrubs along the perimeter.
126	629 - Mixed non-forested wetland	10.7	No	Low	The stand is a mixture of tag alder with areas of cattails and marsh grass.
132	3103 - Rubus-Fern	1.7	No	Unspecified	This is a natural opening of bracken fern with some grass, sweet fern and blackberry.
134	6225 - Bog	10.4	No	Low	The stand is a mixture of leather leaf and other lowland shrubs. The leather leaf is heaviest in the eastern half but there are pockets throughout the stand. The lowland shrubs are heaviest along the western side.
135	6220 - Alder/willow	13.8	No	Low	The stand is mainly tag alder and willow. There are scattered oaks, maple, ash, and paper birch.
136	6225 - Bog	9.3	No	Low	This stand is mainly leather leaf with some other lowland shrubs around the perimeter, especially in the north end. In addition, there are scattered oak, paper birch, red maple, and quaking aspen.
139	6229 - Mixed lowland shrub	7.0	No	Low	The site is a mixture of lowland shrubs. There is leather leaf in the southern portion of the stand.
140	6229 - Mixed lowland shrub	17.3	No	Unspecified	The stand is mainly tag alder and willow with inclusions of leather leaf. There are also some scattered swamp hardwood, mainly red maple, swamp white oak, hybrid oaks, and paper birch.
144	6225 - Bog	4.4	No	Unspecified	This stand is mainly leather leaf. The perimeter of the stand has some lowland shrubs and swamp hardwoods.
145	6225 - Bog	6.7	No	Low	The stand is heavy to leather leaf. There are some other lowland shrubs and swamp hardwoods along the south west edge.
204	3204 - Mast Producing Shrub	6.6	No	Low	This was the old landing for the harvest of pre-inventory stand 9. The stand has blackberry and blueberry throughout.
205	629 - Mixed non-forested wetland	17.9	No	Low	This was an old beaver flooding that drained down about 7 years ago. Currently the stand is filling in with lowland shrubs and some swamp hardwoods.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
208	6229 - Mixed lowland shrub	8.4	No	Low	New stand added. the stand is mainly michigan holly with scattered maple, ash, and swamp white oak.
216	6220 - Alder/willow	1.1	No	Unspecified	The stand is mainly tag alder, michigan holly, and willow. There is an area of standing water present. This is located near the two-track along the south side.
224	6229 - Mixed lowland shrub	2.3	No	Low	There is a heavy deciduous shrub layer with some scattered trees. The trees are concentrated along the perimeter.
225	6229 - Mixed lowland shrub	1.8	No	Unspecified	This is a pocket bog of leather leaf.
229	3105 - Mixed Upland Herbaceous	31.9	Natural Regen	Aspen	The stand was harvested in November of 2012. Tops were left and scattered so there is a heavy slash load and some piles. Most of the regeneration present has been browsed. There are pockets of maple that were left when the stands was harvested. Most is less than 2" DBH.
230	3105 - Mixed Upland Herbaceous	3.9	Natural Regen	Aspen	The stand was harvested in November of 2012. Tops were left and scattered so there is a heavy slash load. The majority of the regeneration in the stand has been browsed.
234	3301 - Low Density Deciduous Tree	44.7	Natural Regen	Aspen	The stand was harvested in November of 2012. Tops were left and scattered so there is a heavy slash load. It had areas that were too wet to harvest. These pockets were painted out and are the retention areas. The residual stand is made up of patches of small diameter trees. What little regeneration that is present has being browse.
236	6229 - Mixed lowland shrub	3.5	No	Unspecified	The stand is starting to have a swamp hardwood component.
239	629 - Mixed non-forested wetland	112.3	No	Low	This is a larger mixed lowland type that ranges from beaver flooding to lowland shrubs. There are areas of scattered trees and some are in small patches.
240	3301 - Low Density Deciduous Tree	16.8	No	Low	Stand was harvested 18 years ago and did not regenerate well.
242	3301 - Low Density Deciduous Tree	11.8	No	Unspecified	This stand is a ridge of low density, overmature aspen.
245	3301 - Low Density Deciduous Tree	54.0	Plantation	Red Pine	The stand was harvested 18 years ago and did not regenerate well. What regeneration is present is in pockets.
246	6229 - Mixed lowland shrub	3.0	No	Low	This stand is too wet to manage. It is mainly a lowland shrubs with a narrow band of swamp hardwoods around the perimeter.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
247	6229 - Mixed lowland shrub	7.8	No	Unspecified	The stand is mainly tag alder with and overstory of ash that has less than 25% crown closure.
249	6229 - Mixed lowland shrub	13.8	No	Low	The stand is mainly lowland shrubs though the east side has pockets of uplands. The ash component is scattered and declining.
250	6233 - Wet Meadow	11.5	No	Low	The stand was harvested 18 years ago and did not regenerate. It is in a slight depression and looks to be wet. The ground cover is a mixture of grasses and shrubs.
252	6229 - Mixed lowland shrub	4.6	No	Low	The stand is in a depression and it is heavy to tag alder and michigan holly.
255	6229 - Mixed lowland shrub	36.4	No	Low	The stand is low and wet and it is heavy to lowland shrubs with some areas of marsh grass. There are scattered ash trees that are declining.
256	6220 - Alder/willow	2.0	No	Low	The stand is in a depression.
259	6229 - Mixed lowland shrub	6.3	No	Unspecified	The stand was cut 18 years ago and it didn't regenerate well. The terrain is hummocky and wet.
260	6229 - Mixed lowland shrub	59.5	No	Low	The stand is mostly lowland shrubs but there are areas of marsh and open water.
266	6239 - Mixed Emergent Wetland	22.3	No	Low	This is a beaver flooding that appears to have drained down a little.
268	6229 - Mixed lowland shrub	4.4	No	Unspecified	The stand appears to be a draw that is mainly lowland shrubs with some scattered trees.
270	6225 - Bog	4.6	No	Unspecified	The stand appears to be mainly leather leaf with some scattered lowland shrubs along the perimeter. There are also small islands of upland in the eastern portions that are low density trees.
401	629 - Mixed non-forested wetland	8.9	No	Low	The stand is a mixture of tag alder with areas of cattails and marsh grass. The south and east perimeter has some trees.
402	6229 - Mixed lowland shrub	1.3	No	Low	The stand is in a draw of michigan holly with some tag alder. There are some scattered trees also present.
404	629 - Mixed non-forested wetland	7.6	No	Low	This was an old fish rearing pond that has not been used in many years. The control structure is still in place.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
405	6229 - Mixed lowland shrub	11.7	No	Low	The stand is a mixture of tag alder and willow with some areas of cattails. The perimeter has ash and swamp white oaks.
413	3105 - Mixed Upland Herbaceous	24.3	Natural Regen	Aspen	The stand was harvested in November of 2013. The retention was made up of some scattered trees mainly oak. There were also some other species retained.
414	6225 - Bog	6.2	No	Low	The stand is mainly leather leaf with scattered oak and birch trees.
416	6229 - Mixed lowland shrub	2.3	No	Low	The stand is in a draw. It is heavy to tag alder and lowland shrubs with some scattered trees.
417	6229 - Mixed lowland shrub	4.1	No	Unspecified	The stand is in a depression. It is mainly tag alder with scattered trees. There is a pocket of marsh grass in the southern portion of the stand. Much of the stand has trees around the perimeter.
422	6229 - Mixed lowland shrub	2.1	No	Low	The stand is in a depression and it is mainly tag alder and willow with some scattered swamp hardwoods.
424	6229 - Mixed lowland shrub	1.2	No	Low	The stand is in a depression and is a mixture of lowland shrubs with some scattered swamp hardwoods and swamp white oaks.
425	629 - Mixed non-forested wetland	11.3	No	Low	This is the bottom land of one of the feeder creeks that flows into black creek. It is a matrix of marshes, beaver impoundments, and lowland shrubs.
429	6225 - Bog	5.8	No	Unspecified	The stand is mainly leather leaf with some scattered swamp hardwoods.
430	6229 - Mixed lowland shrub	1.5	No	Low	This stand is mainly a lowland shrub type. In the center of the stand is an area of marsh grass.
435	6229 - Mixed lowland shrub	2.6	No	Unspecified	The stand is mainly leather leaf with some scattered swamp hardwoods and lowland shrubs.
440	6225 - Bog	5.4	No	Unspecified	The stand is mainly leather leaf with some lowland shrubs along the perimeter. There is also some scattered swamp hardwoods present.
441	6229 - Mixed lowland shrub	5.0	No	Low	The stand is low and wet. It was harvested 22 years ago and regenerated to lowland shrubs with some birch, maple, and oak. The northwest end is mainly lowland shrubs. The terrain is hummocky.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
447	629 - Mixed non-forested wetland	16.9	No	Low	This is part of the river bottom land of Black Creek. It is mainly mixed non-forested wetland but there are some areas of lowland shrubs. This portion of Black Creek has seen numerous beaver events. In addition the steep slopes that border the flood plain are wooded and are a mixture of oak, maple and ash sawlogs. The slopes are too steep to harvest and the bottom land too wet and lacking trees.
452	6225 - Bog	8.2	No	Unspecified	The stand is mainly leather leaf with some scattered lowland shrubs along the perimeter. There is a patch of white pine in the north east section of the stand.
455	11 - Low Intensity Urban	0.6	No	Unspecified	This area is more of a parking area to fish verity creek
457	6220 - Alder/willow	1.4	No	Low	The stand is in a depression. It was harvested 35 years ago. It is heavy to tag alder. The terrain is hummocky.
461	6225 - Bog	3.0	No	Low	The stand is heavy to leather leaf. There are some lowland shrubs and swamp hardwoods along the south west edge.
464	3104 - Degraded	2.8	No	Low	This is an area that looks to have been a sand pit or an ORV scramble area.
465	6225 - Bog	3.3	No	Low	The stand is mainly leather leaf with some scattered birch.
471	3301 - Low Density Deciduous Tree	7.1	Natural Regen	Mixed Upland Deciduous	The stand was harvested as a seed tree harvest retaining 1 tree per acre. The crown closure is greater than 15% but less than 25%. The harvest took place in the fall 2013. The overstory oak is 89 years old.