



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32097

Entry Year 2017

Acreage: 2,308

County Alger

Management Area: Chatham/Autrain Moraines

Revision Date: 2015-07-07

Stand Examiner: Kevin LaBumbard

Legal Description:

T45N R21W Sections 23-26, 35, 36.

Identified Planning Goals:

To improve the quality and diversity of State forests and wildlife through proper habitat management, while protecting the riparian values of our wetlands and waters.

Soil and topography:

Area is mostly flat to gently rolling. There are some moraines and other glacial features. Notable are a series of steep north-south ridges that are the former riverbanks of the ancient river that drained glacial Lake Duluth. Soils included Chatham cobbly fine sandy loam, Shoepac-Trenary silt loam, Traunik gravelly fine sandy loam, Kalkaska sand, Kalkaska-Waiska complex, Charlevoix-Ensley complex, Eben very cobbly fine sandy loam, Charlevoix silt loam, and Carbondale, Lupton, Tawas, Chippany-Nahma mucks.

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

Year round residences and hunting camps. Some active farms nearby. Hiawatha National Forest is east of the basin.

Unique Natural Features:

Autrain Waterfowl Refuge and associated large opening complex, the Autrain Basin. A large spring appears, creates a short creek, then disappears back underground.

Archeological, Historical, and Cultural Features:

No archeological hits in our data base. MNFI has previous records for bald eagle, loon, grasshopper sparrow.

Special Management Designations or Considerations:

The Autrain Waterfowl Project Area of which includes this compartment.

Watershed and Fisheries Considerations:

Fisheries Values: Excellent

Fisheries Concerns: Johnson Creek, a designated trout stream, flows through the northern portion of this compartment. Johnson Creek contains native brook trout and also as nursery habitat for a wide variety of species from AuTrain Basin. AuTrain Basin is a very popular smallmouth bass, panfish, and walleye fishery. The stands adjacent to and in proximity to each of these waterbodies are factor limited. If work is ever decided to be completed here, the designated trout stream buffer should be adhered to and a riparian buffer would need to be maintained on AuTrain Basin.

Wildlife Habitat Considerations:

Compartment 97 is found within the Chatham/AuTrain Management Area; on a Fluted Ground Moraine in northeastern Marquette County and western Alger County. The dominant Natural Communities are mesic northern forests and poor conifer swamps. This Management Area provides one of the best opportunities in the WUP State Forest system to manage for large grasslands and associated wildlife species. Large opening management, along with sharecropped agricultural practices will continue to be a high priority here. Wildlife management issues in this management area will focus on maintaining large open land complexes; habitat fragmentation (patch size for openings); and mowing and burning practice modifications (for the eastern compartments).

The following have been identified as featured species for the Chatham/AuTrain Management Area: bobolink, Canada goose, northern goshawk, and sharp-tail grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till and glacial outwash sand and gravel and post-glacial alluvium. The glacial drift thickness varies between 10 and 70 feet. The Ordovician Black River Group subcrops below the glacial drift. The Black River is quarried for stone/dolomite elsewhere in the UP. A gravel pit is located to the west in Section 28 and

there may be potential on the east side of the compartment. This compartment has never been leased for metallic mineral exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Good throughout the compartment although some access is blocked from Sept. 1-Nov. 10 in the waterfowl refuge area.

Survey Needs:

While there are limited corners in this compartment, additional monumentation is needed here.

Recreational Facilities and Opportunities:

This area is extremely popular for birding. Waterfowl hunting, upland bird and deer hunting is also popular as well.

Fire Protection:

This compartment has a low risk for fire.

Additional Compartment Information:

The following reports from the Inventory are attached:

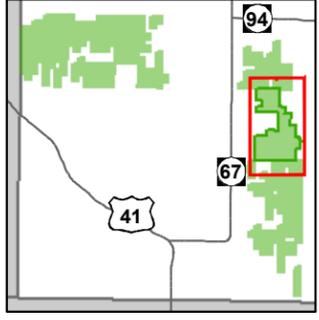
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

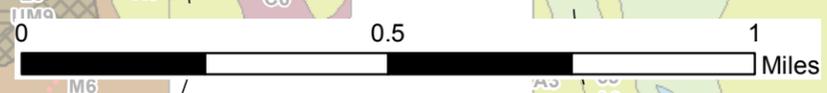
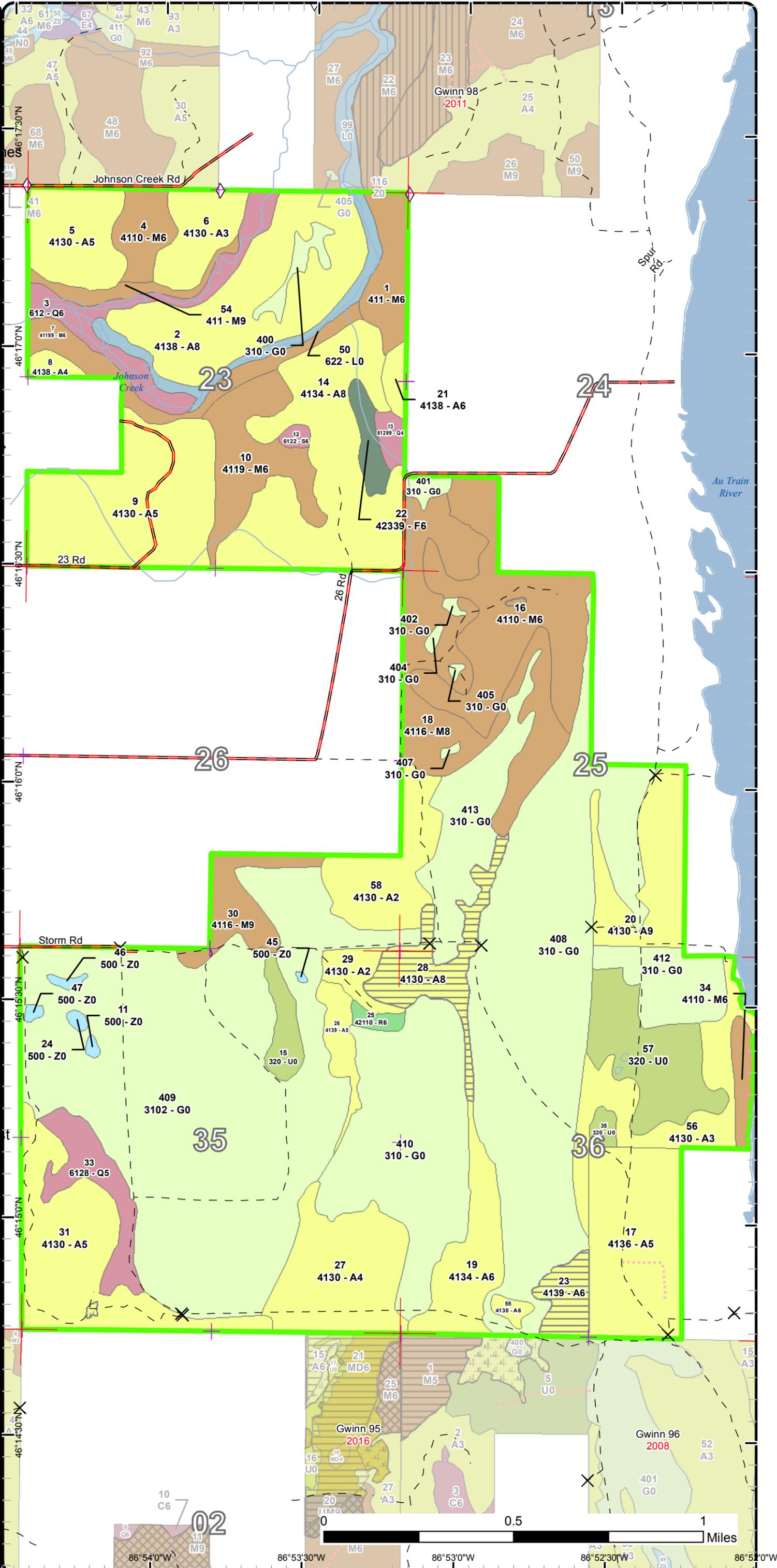
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 97
 T45N, R21W
 Sections. 23, 24, 25, 26, 35, 36
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham/Autrain Moraine
 YOE: 2017
 Acres: 2308 GIS Calculated
 Examiner: Kevin LaBumbard
 Map Revised: 7/16/2015
 Map Phase: Pre-Review



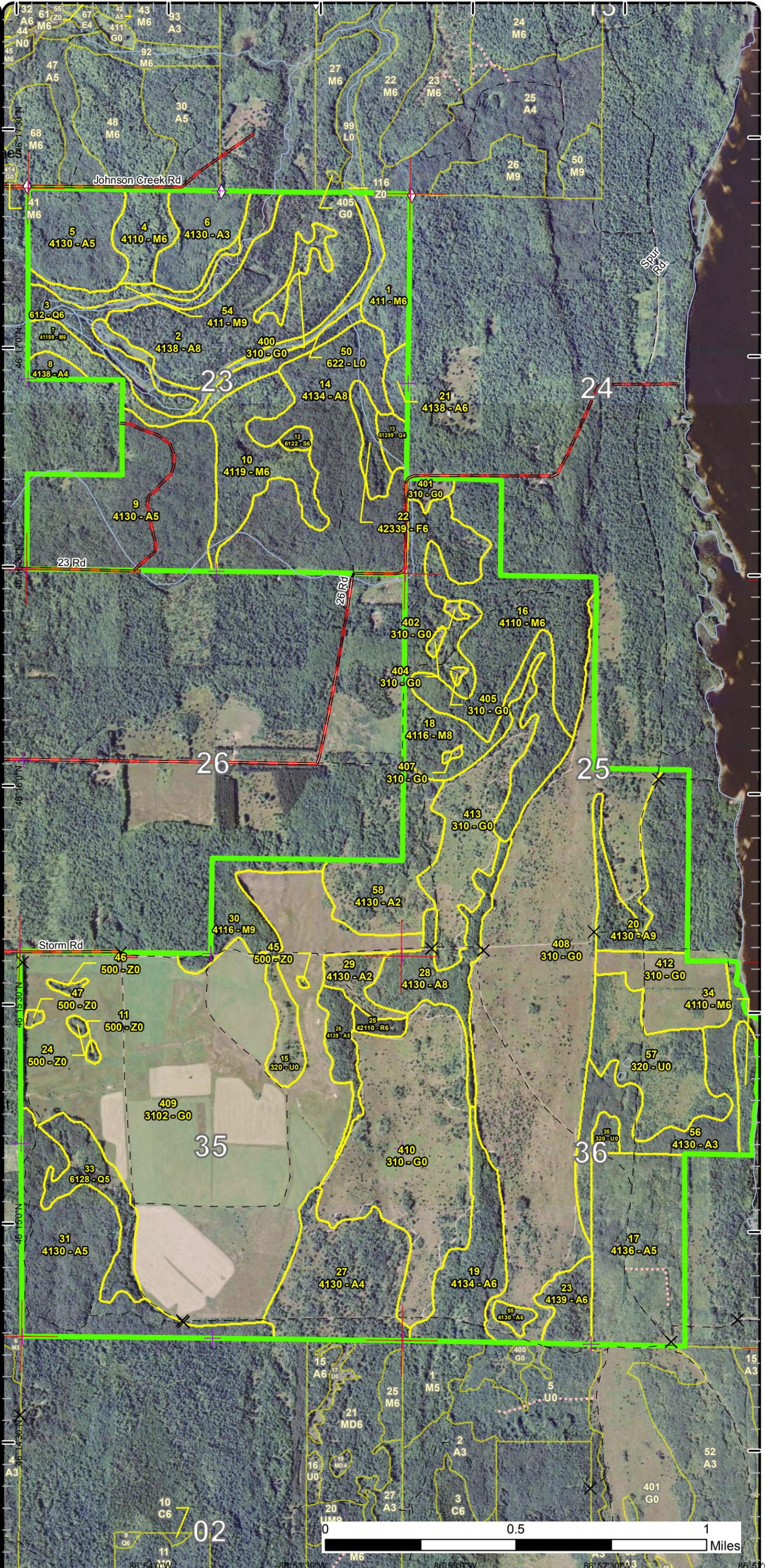
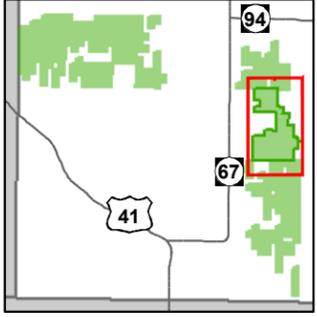
- ✦ Remonumented Section Corner
- ◇ Field Grade GPS Corners
- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Closed Roads
- ✕ Gate
- Rivers
- Lakes
- Treatments
 - Clearcut (w/Reserves)
 - Other Treatment - See Comments
- Forest Covertype
 - 411 - Northern Hardwood
 - 413 - Aspen
 - 421 - Planted Pines
 - 423 - Other Upland Conifers
 - 612 - Lowland Coniferous Forest
- Non-Forest Covertype
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 500 - Water
 - 622 - Lowland Shrub



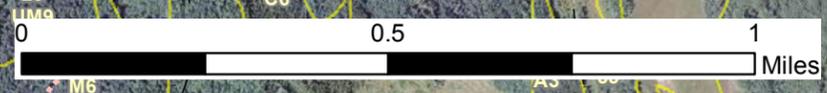
86°53'30"W 86°53'0"W 86°52'30"W 86°52'0"W

Stand Boundary Map

Compartment: 97
 T45N, R21W
 Sections. 23, 24, 25, 26, 35, 36
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham/Autrain Moraine
 YOE: 2017
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- ✚ Remonumented Section Corner
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 - Stand Boundaries
- Forest Cotype**
- 411 - Northern Hardwood
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 - 500 - Water
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86°54'0"W 86°53'30"W 86°53'0"W 86°52'30"W 86°52'0"W

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 97

Year of Entry 2017

Kevin LaBumbard : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	27	375	234	45	51	49	0	103	0	0	0	0	0	0	0	0	884
Cropland	304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	304
Herbaceous Openland	592	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	592
Lowland Conifers	0	0	0	0	0	0	0	0	35	0	6	0	28	0	0	0	0	0	69
Lowland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	25	0	0	0	0	0	0	111	0	0	0	0	0	210	346
Red Pine	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Shrub	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	991	0	27	375	263	45	51	49	35	116	6	111	28	0	0	0	0	210	2307



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 97

Total Compartment Acres: 2,308

Commercial Harvest - 50
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen		50	0	0	0	0	0	0	0	0	50
	Total	50	0	0	0	0	0	0	0	0	50

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		50	0	316	0	458	0	0	0	436	1260
Next Step		0	0	316	0	561	401	695	0	1762	3736
	Total	50	0	631	0	1019	401	695	0	2198	4996

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
15 32097015-Burn	13.1	320 - Upland Shrub	Nonstocked	0	Unspecified	Burn	Opening	320 - Upland Shrub		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Au Train Wildlife Area - a unique SGA with over 500 acres of openings & shrublands. Opening management. Burning is necessary to reduce succession that is occurring, reducing the suitability of sharptailed grouse habitat. Burning will enhance habitat and soft mast needed for openland associated species, black bear, and whitetailed deer. Mechanical treatment may be used if funding for prescribed burn is unavailable or if mechanical removal of encroachment will increase the effectiveness of the burn.

Next Step Burn, Opening; NonForestMgt, Brush Cutting; Monitoring, Other - Specify
Treatments:

Acceptable
Regen:

Other Mechanical treatment may include trees > 4 inch dbh. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

18 32097018-Plant	92.5	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	101	51-80	Planting	Interplant	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.
Specs:

Next Step Planting, Interplant; Monitoring, Other - Specify
Treatments:

Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

19 32097019-Plant	41.0	4134 - Aspen, Spruce/Fir	Poletimber Well	46	81-110	Planting	Interplant	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: Yes**Site Condition: Too Steep**

Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.
Specs:

Next Step Planting, Interplant; Monitoring, Other - Specify
Treatments:

Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

23 32097023-Cut	15.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest of aspen retaining cherry and elm.
Specs:

Next Step
Treatments:

Acceptable aspen, sugar maple
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
27	32097027- Plant	66.5	4130 - Aspen	Poletimber Poor	35	1-50	Planting	Other - Specify	413 - Aspen	Even-Aged	Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.

Specs:

Next Step Monitoring, Other - Specify; Planting, Other - Specify

Treatments:

Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

28	32097028-Cut	34.6	4130 - Aspen	Sawtimber Medium	50	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest with retention areas along steep bank.

Specs:

Next Step

Treatments:

Acceptable Aspen

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

29	32097029- Plant	10.4	4130 - Aspen	Sapling Medium	20	Immature	Planting	Interplant	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.

Specs:

Next Step Planting, Interplant; Monitoring, Other - Specify

Treatments:

Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
32	32097032- Unit F	67.6	211 - Cropland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub Planting; Pesticide,
Treatments: Skidder/Mechanical

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

36	32097036- Unit M	33.8	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Mowing; NonForestMgt, Fruit Tree/Shrub Planting; Pesticide,
Treatments: Skidder/Mechanical

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

37	32097037- Unit E	26.2	211 - Cropland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step Pesticide, Skidder/Mechanical; NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub
Treatments: Planting

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
38 32097038- Unit K	30.1	31021 - Cool Season Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	31021 - Cool Season Grass		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Forward FTP32-683 addendum for prescribed burn approved in 2013. Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting; Burn, Opening; NonForestMgt, Mowing; NonForestMgt, Fruit Tree/Shrub Planting;
Treatments: Pesticide, Skidder/Mechanical

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

39 32097039- Unit J	33.2	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step Pesticide, Skidder/Mechanical; NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Mowing
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

40 32097040- Unit I	33.3	31021 - Cool Season Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward Addendum to FTP32-683 Prescribed burn approved in 2013. Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step Burn, Opening; NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub Planting
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
41 32097041-Unit D	29.6	211 - Cropland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Specs: Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step Treatments: Pesticide, Skidder/Mechanical; NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub Planting

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

42 32097042-Unit A	40.3	211 - Cropland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Specs: Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step Treatments: NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub Planting; Pesticide, Skidder/Mechanical

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

43 32097043-Unit C	32.9	211 - Cropland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Specs: Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step Treatments: Pesticide, Skidder/Mechanical; NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub Planting

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
44	32097044- Unit B	34.8	211 - Cropland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step Pesticide, Skidder/Mechanical; NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub
Treatments: Planting

AcceptableRegen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

57	32097057- Plant	52.1	320 - Upland Shrub	Nonstocked	0	Unspec ified	Planting	Interplant	320 - Upland Shrub		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.

Specs:

Next Step Planting, Interplant; Monitoring, Other - Specify

Treatments:

Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

58	32097058- Plant	44.6	4130 - Aspen	Sapling Medium	20	Immatu re	Planting	Interplant	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.

Specs:

Next Step Planting, Interplant; Monitoring, Other - Specify

Treatments:

Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
401	32097401- Plant	4.6	310 - Herbaceous Openland	Nonstocked		Unspec ified	Planting	Interplant	3102 - Grass		Proposal
Habitat Cut: Yes		Site Condition:									
<u>Prescription</u> Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.											
<u>Specs:</u>											
<u>Next Step</u> Planting, Interplant; Monitoring, Other - Specify											
<u>Treatments:</u>											
<u>Acceptable</u> Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
402	32097402- Plant	1.2	310 - Herbaceous Openland	Nonstocked		Unspec ified	Planting	Interplant	3102 - Grass		Proposal
Habitat Cut: Yes		Site Condition:									
<u>Prescription</u> Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.											
<u>Specs:</u>											
<u>Next Step</u> Planting, Interplant; Monitoring, Other - Specify											
<u>Treatments:</u>											
<u>Acceptable</u> Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
404	32097404- Plant	1.3	310 - Herbaceous Openland	Nonstocked		Unspec ified	Planting	Interplant	3102 - Grass		Proposal
Habitat Cut: Yes		Site Condition:									
<u>Prescription</u> Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.											
<u>Specs:</u>											
<u>Next Step</u> Planting, Interplant; Monitoring, Other - Specify											
<u>Treatments:</u>											
<u>Acceptable</u> Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
405	32097405- Plant	0.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	Planting	Interplant	3102 - Grass		Proposal
Habitat Cut: Yes		Site Condition:									
<u>Prescription</u> Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.											
<u>Specs:</u>											
<u>Next Step</u> Planting, Interplant; Monitoring, Other - Specify											
<u>Treatments:</u>											
<u>Acceptable</u> Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
407	32097407- Plant	0.7	310 - Herbaceous Openland	Nonstocked		Unspec ified	Planting	Interplant	3102 - Grass		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Forward FTP W32-804 approved in 2013. Planting of hard and/or soft mast trees and/or shrubs to benefit wildlife.

Specs:

Next Step Planting, Interplant; Monitoring, Other - Specify

Treatments:

Acceptable Recruitment of a portion of the trees/shrubs planted for the benefit of wildlife species.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

408	32097408- Burn	263.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	Burn	Opening	3102 - Grass		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Au Train Wildlife Area - a unique SGA with over 500 acres of openings & shrublands. Opening management. Burning is necessary to reduce succession that is occurring, reducing the suitability of sharptailed grouse habitat. Burning will enhance habitat and soft mast needed for openland associated species, black bear, and whitetailed deer. Mechanical treatment may be used if funding for prescribed burn is unavailable or if mechanical removal of encroachment will increase the effectiveness of the burn.

Next Step Burn, Opening; NonForestMgt, Brush Cutting; Monitoring, Other - Specify

Treatments:AcceptableRegen:

Other Mechanical treatment may include trees > 4 inch dbh. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

409	32097409- Unit H	39.2	211 - Cropland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward Addendum to FTP32-683 prescribed burn approved in 2013. Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step Burn, Opening; NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Mowing; Pesticide,

Treatments: Skidder/Mechanical

AcceptableRegen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
410	32097410-Burn	128.7	310 - Herbaceous Openland	Nonstocked		Unspecified	Burn	Opening	3102 - Grass		Proposal

Habitat Cut: Yes**Site Condition:**

Prescription Au Train Wildlife Area - a unique SGA with over 500 acres of openings & shrublands. Opening management. Burning is necessary to reduce succession that is occurring, reducing the suitability of sharptailed grouse habitat. Burning will enhance habitat and soft mast needed for openland associated species, black bear, and whitetailed deer. Mechanical treatment may be used if funding for prescribed burn is unavailable or if mechanical removal of encroachment will increase the effectiveness of the burn.

Next Step Burn, Opening; NonForestMgt, Brush Cutting
Treatments:

Acceptable
Regen:

Other Mechanical treatment may include trees > 4 inch dbh. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

412	32097412-NF	33.6	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Forward Out-of-Entry Year FTP W32-848 approved in April of 2015. The goal is to manage these openings for wildlife and to create a partnership with the local agricultural community. The work needed will be done with the help of sharecropping, through the use of contracts, or with DNR personnel. These openings will be managed for forage crops or other herbaceous openland types. Mechanical treatment may include mowing, disking, and planting of forage crops. Other practices may include herbicide use, fertilizing, mowing, frost-seeding, and other normal agricultural practices as needed. Commercial fertilizer and livestock manure are acceptable fertilizer options however, bio-solids (human waste water treatments) are not to be used. Management goals may require replanting of forage crops as needed. Annual maintenance of these openings will be performed. In addition, Wildlife Division would also like to plant trees or shrubs within these openings to enhance wildlife habitat. All forest certification rules will be followed. No GMO plants will be planted. All trees, shrubs, and seed mixes will be selected to ensure they are native or are considered non-invasive.

Next Step Pesticide, Skidder/Mechanical; NonForestMgt, Mowing; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub
Treatments: Planting

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

413	32097413-Burn	53.4	310 - Herbaceous Openland	Nonstocked		Unspecified	Burn	Opening	3102 - Grass		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Au Train Wildlife Area - a unique SGA with over 500 acres of openings & shrublands. Opening management. Burning is necessary to reduce succession that is occurring, reducing the suitability of sharptailed grouse habitat. Burning will enhance habitat and soft mast needed for openland associated species, black bear, and whitetailed deer. Mechanical treatment may be used if funding for prescribed burn is unavailable or if mechanical removal of encroachment will increase the effectiveness of the burn.

Next Step Burn, Opening; NonForestMgt, Brush Cutting; Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable
Regen:

Other Mechanical treatment may include trees > 4 inch dbh. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

Total Treatment
Acres Proposed: 1258.9

Report 5 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 97

Year of Entry: 2017

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

				2I	1C	2F	3A	3J	3L	
882	726	49	106	Aspen	49		4	96		7
304	304	0	0	Cropland						
592	591	0	0	Herbaceous Openland			0			
70	37	0	33	Lowland Conifers		6			27	
20	20	0	0	Lowland Shrub						
3	3	0	0	Lowland Spruce/Fir						
346	272	0	75	Northern Hardwood				11	64	
4	4	0	0	Red Pine						
69	69	0	0	Upland Shrub						
10	0	0	10	Upland Spruce/Fir			10			
6	6	0	0	Water						
2,306	2,032	49	225	Total Forested Acres	49	6	15	107	90	7
	88%	2%	10%	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
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	25	3G: Other Influence zones - See comments	2F: Too steep	Unspecified	Unspecified
Comments:							
2	Unavailable	3A: Potential old growth / biodiversity	96	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3G: Other Influence zones - See comments	3J: Water quality / BMPs (stream, river, or lake)	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	3G: Other Influence zones - See comments	2F: Too steep	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 97

Year of Entry: 2017

13	Unavailable	1C: Other dept or div proc/practices	6	2G: Too wet (sensitive soils, does not include access issues)	4A: No Markets Available for these Forest Products	Unspecified	Unspecified
Comments:							
20	Available	2I: Survey needed	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	3L: Other wildlife concerns	7	1D: Interest Group / Neighbor	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
Comments:							
22	Unavailable	2F: Too steep	11	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	3G: Other Influence zones - See comments	3J: Water quality / BMPs (stream, river, or lake)	3K: Rare or unique landforms	Unspecified
Comments:							

Report 5 – Site Conditions

Gwinn Mgt. Unit

Kevin LaBumbard : Examiner

Compartment: 97

Year of Entry: 2017

34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	3A: Potential old growth / biodiversity	10	3G: Other Influence zones - See comments	2F: Too steep	Unspecified	Unspecified
Comments:							
41	Unavailable	3A: Potential old growth / biodiversity	30	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	3A: Potential old growth / biodiversity	12	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	3A: Potential old growth / biodiversity	17	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gwinn Mgt. Unit

Compartment: 97

Kevin LaBumbard : Examiner

Year of Entry: 2017

54	Unavailable	3A: Potential old growth / biodiversity	11	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
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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
Basin hardwoods	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	11
Comments Trees are large with a lot of rot, cankers and other defects. Much pulp and low quality logs. Good den trees here. Hardwood right to basin edge. Regeneration is 8' tall well-stocked sugar maple.				
Johnson Creek and tributary	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	35
Comments Scattered trees not thickly stocked. Mix of F,Q,E types. Mostly Q. Alder in some areas. High riparian values. Big cedar west along creek. Most is protected by static riparian SCA, but not all.				
Johnson Creek bluff hardwoods	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	25
Comments Part of area is nice hardwood but has steep hills and a ridge down to creek. Some aspen especially north along creek. Feeder stream southwest. Difficult to log. High riparian values. Only about 1/3 of the stand is loggable if access from Plum Crk.				
Johnson Creek brush	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	20
Comments Lowland brush with some marsh along Johnson creek.				
Johnson Creek island	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	96
Comments Johnson creek splits into two forks and rejoins downstream. This stand is in the center. There is also a spring fed or drainage stream in stand which joins Johnson creek. Not well-stocked mostly due to long-term beaver activity. Some patches of A6.				
Johnson Creek island grass	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	8
Comments grass opening filling in a little bit but some beaver activity as well on island between forks of Johnson creek.				
Johnson Creek tributary buffer	Spring-Seeps, Riparian Areas	Riparian Area	Proposed SCA	28
Comments Johnson creek buffer stand. Some of this stand had aspen removed in a harvest 20 years ago, mostly NW. Steep bank in most spots down to river. Good quality hardwood but sprout clumps of basswood and sugar maple are throughout.				
Johnson hardwood removal 1	Other SCA		SCA Removal	11
Comments Hardwood left when aspen was cut, buffer stand for Johnson Creek. Large aspen. Some areas mostly aspen but most hardwood. Thick fir understory in areas. Stand is protected by static riparian SCA.				
Storm Road Seep	Spring-Seeps, Riparian Areas	Spring Seep	Proposed SCA	27
Comments Beaver flooded area in past but now drained(spring 2005). Dead trees in those areas. Spring emerges from ground north and flows south to disappear back underground. Large flow of several gallons/minute. Early settlers modified spring origin with pipe.				



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	411 - Northern Hardwood	Poletimber Well	24.5	178	81-110	OPIC - FMD: Part of area is nice hardwood but has steep hills and a ridge down to creek. Some aspen especially north along creek. Feeder stream southwest. Difficult to log. High riparian values. Only about 1/3 of the stand is loggable if access could be had from private land. Mixed hardwood contains minor amounts of cherry,yellow birch,basswood. Softwood is mostly spruce and fir.
2	4138 - Aspen (OI)	Sawtimber Medium	95.8	85	51-80	OPIC - FMD: Johnson creek splits into two forks and rejoins downstream. This stand is in the center. There is also a spring fed or drainage stream in stand which joins Johnson creek. Not well-stocked mostly due to long-term beaver activity. Some patches of A6 however. Most aspen mature or overmature but some trees look a little younger and will last for a couple decades yet. Hawthorn and hazel in the understory and some open areas, some areas quite thick and inpenetrable. Grass openings throughout stand. Aspen has some hypoxilin. Some Spruce/fir type along stream where beaver have eliminated all aspen. High riparian values. Difficult and economically unfeasible to log. The small amount of hardwood here is mostly scrub cherry or red maple.
3	612 - Lowland Coniferous Forest	Poletimber Well	35.5	70	51-80	OPIC - FMD: Scattered trees not thickly stocked. Mix of F,Q,E types. Moxtly Q. Alder in some areas. High riparian values. Big cedar west along creek.
4	4110 - Sugar Maple Association	Poletimber Well	18.7	101	81-110	OPIC - FMD: Thinned under contract #36-97-01 in 1999. Some sparse areas where the aspen was cut out. Most of the stand has good quality timber and potential. Good regeneration in spots of 6' tall. Also minor amounts of yellow birch in this stand. Some ironwood especially in the regeneration. 2015-lots of trillium, pockets of older higher stocked timber. More sugar saps further south. Occasional wb,aspen, balsam fir. Lots of doubles and triples.
5	4130 - Aspen	Poletimber Medium	39.2	30	1-50	OPIC - FMD: 4"-5" average well-stocked. A lot of 2" dbh sugar maple mixed in. A few conifer. Some areas pure M3. Most of stand is 4" A3 Some F4F3 on the wetter sites especially southwest. Leeks, trillium, sm seedlings on forest floor.
6	4130 - Aspen	Sapling Well	27.2	16	Immature	OPIC - FMD: Cut under permit #36-97-01 in 1999. A3 well-stocked 1"dbh. A few conifers mostly east. Some beaver activity converting to conifer east F2F1. Mixed hardwood,mostly cherry west mixed with the aspen. Some residual hardwood 3" sugar maple and some sugar maple seeding in as well mostly near the hardwood stands.. 2015-1-3" aspen over fir.
7	41199 - Northern Hardwood (OI)	Poletimber Well	28.1	178	81-110	OPIC - FMD: Johnson creek buffer stand. Some of this stand had aspen removed in a harvest 20 years ago, mostly NW. Steep bank in most spots down to river. Good quality hardwood but sprout clumps of basswood and sugar maple are throughout. In gaps aspen is 2" also ironwood and sugar 1" in some spots. Bottom near creek has a mix of green ash and maple plus a few cedar and other softwoods. Near creek more black ash and big cedar. This stand due to it's steepness and proximity to Johnson creek is in biodiversity stewardship to protect the riparian values.
8	4138 - Aspen (OI)	Poletimber Poor	5.4	27	51-80	OPIC - FMD: A4 almost A6 well-stocked 4" dbh, some larger. Some older residual hardwood 6"dbh. Scattered sp/fir smaller 2".



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	4130 - Aspen	Poletimber Medium	100.8	27	1-50	OPIC - FMD: A4 almost A6 well-stocked 4" dbh, some larger. Some older residual hardwood 6" dbh. Scattered sp/fir 2". 2015-converting to sugar maple...aspen falling out of the stand.
10	4119 - Mixed Northern Hardwoods	Poletimber Well	44.9	178	81-110	OPIC - FMD: Cut in 1988. Thinned plus elm salvage left low BA areas then. Some areas could do a light thinning but most of stand, over 3/4, BA below 100. M3 2" dbh throughout stand and 2 stick in gaps, mostly sugar maple. Most hardwoods still crown room. Good potential. Some steep slopes especially NE. Ironwood, red maple, and aspen are most of the rest of the hardwood species here. Some softwood. 2015-stand contains large vernal pond.
12	6122 - Black Spruce	Poletimber Well	2.7	80	51-80	OPIC - FMD: S3 and up to 3-stick spruce. Small pothole bog. vernal swale connects this with bog east.
13	61299 - Mixed Swamp Conifer (OI)	Poletimber Poor	6.2	97	1-50	OPIC - FMD: Flooded stand. Beaver sign but not present now. Scattered trees. Lowland brush in most areas.
14	4134 - Aspen, Spruce/Fir	Sawtimber Medium	114.0	39	51-80	OPIC - FMD: A6 3-4 stick average. Patches of fir 1-2 stick. Scattered balsam poplar, elm, cherry. Most of stand has 1-2" dbh sugar maple understory. 2015-Very high site quality, trillium, may apple, cohosh. Lots of aspen going down, let convert to sugar maple. A4M3
16	4110 - Sugar Maple Association	Poletimber Well	90.2	101	51-80	OPIC - FMD: Thinned 1987. Thinned 2009 permit #31-07-01 premier logging. Steep hills in stand especially NW so those will not be marked. Stand will be reduced to about 80-90 sq ft BA leaving trees of all sizes but emphasizing opening up the good quality crop trees. At least 2 wildlife trees per acre will be left. All cedar and white pine will left. Underplant hemlock to increase diversity post harvest by wildlife division.
17	4136 - Aspen, Mixed Conifer	Poletimber Medium	79.8	27	51-80	A4T4A3 Stand was heavily defoliated 1-2 years ago and showing some stress. Natural aspen with tamarack planted in the open areas. A recent purchase from Plum Creek.
18	4116 - Mixed N. Hardwood - Aspen	Sawtimber Medium	92.5	101	51-80	OPIC - FMD: M5M2F1. Semi-open areas throughout stand. Some fully stocked areas but smaller trees on average. Former open areas seeding in. Possible to clearcut and manage for aspen in 20 years. Aspen is 4 stick and larger in spots. Hardwood is 2-3 stick and poor timber quality generally. Mostly red maple and some poor quality cherry. Some areas more pure aspen. If cut now too much poor quality residual small hardwood would be left. Recommend manage stand for aspen but check in 10-20 years. 2015 old opening that has converted to hardwoods. Also some fir in clumps and scattered.
19	4134 - Aspen, Spruce/Fir	Poletimber Well	41.0	46	81-110	OPIC - FMD: A bit more well-stocked than stand west but still not completely stocked. Semi-open areas. Mostly 3-5 stick aspen. Young yet and not good quality aspen. Some hypoxylon. Some w. pine and j. pine in stand especially SE. Cut in 10-20 years. 2015- Long ridge. Variable stand, semi open in places, heavily stocked in others. Site quality improves moving north. Much heavier to spruce/fir north. Scattered large hardwood. Stand contains approximately 4 acres of dense northern hardwoods north tip. Very steep, ancient river bank. Possibly select cut when the aspen is cut. Final harvest of aspen retaining large spruce and hardwood.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4130 - Aspen	Sawtimber Well	49.1	65	51-80	OPIC - FMD: Need land survey for this stand. This is spotty. Patches of aspen mostly mature esp. east but some areas of smaller and younger aspen. Thick sugar maple regeneration 1-3" dbh throughout so if cut some parts of stand may convert to hardwood. A lot of this stand is A5 only. Some semi-open areas. If stand cannot be cut, it will hold as aspen. 2015- Large 4-5 stick overmature aspen over dense sugar maple saplings. Occasional large ws, elm, basswood. Leeks, trillium, cohosh. Stand converting to northern hardwoods.
21	4138 - Aspen (OI)	Poletimber Well	6.7	85	81-110	OPIC - FMD: Hillside not too steep in spots. Aspen stand to convert to hardwood. Access would be good through private but looks unfeasible there due to development. Access through state has wet area with intermittent stream and hillside to contend with. We will defer this stand this entry period and let stand convert to hardwood naturally and revisit for possible partial harvest in 2017. Aspen will decline and provide wildlife and other values here.
22	42339 - Upland Spruce/Fir (OI)	Poletimber Well	10.5	85	51-80	OPIC - FMD: Buffer stand left when stand 14 was cut. Steep hillside mostly, down to immediately wet ground. Couple acres of flat ground possible to log. High riparian value.
23	4139 - Aspen, Mixed Deciduous	Poletimber Well	15.7	56	81-110	OPIC - FMD: This stand is merchantable and could cut. Could hold since age is not quite there for harvest, but is close. Most aspen is 5 stick but some smaller. Diverse areas with heavy hardwood and softwood component. Some sparse areas with smaller trees. Basswood, balsam poplar, and red maple in stand. Also balsam fir. 2015-final harvest on aspen, retaining cherry, and most elm.
25	42110 - Planted Red Pine	Poletimber Well	4.3	38	141-170	OPIC - FMD: Mostly 3-5 stick red pine plantation. Thinned 2009 by roy nelson permit #33-07-01. . Some porcupine damage. Some cherry in stand will be left for diversity. 5-6 stick poles.
26	4139 - Aspen, Mixed Deciduous	Poletimber Medium	13.7	36	51-80	OPIC - FMD: Mostly 3-5 stick young aspen. 1" dbh sugar maple understory. Cherry,sugar maple, ironwood,elm mixed in. Diverse stand tending towards hardwood. 2015-trillium, may apple.
27	4130 - Aspen	Poletimber Poor	66.5	35	1-50	OPIC - FMD: Sparse in areas. Grass areas filling in over the years. Most area trees 3-4 stick, some larger. Poor quality aspen showing hypoxylon. Some white pine, fir, cherry, ironwood, and red maple in stand. 2015-A4U
28	4130 - Aspen	Sawtimber Medium	34.6	50	1-50	OPIC - FMD: 2-3 stick aspen. Hypoxylon in most areas. Thick M3 in most areas red maple with some sugar. Aspen not good quality. Some of stand is hillside(ancient riverbank) and is younger aspen by about 10 years. 2015- 3-5' aspen of 2 size classes--11" and up and 6-8"
29	4130 - Aspen	Sapling Medium	10.4	20	Immature	OPIC - FMD: This areas is coming into aspen from former open. Some of stand is scattered cherry. More well-stocked aspen east and more scattered cherry or upland brush west. 2015Young aspen clones with upland brush..mostly cherry.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	25.4	37	81-110	OPIC - FMD: Mostly M6M3 just coming into pole size but areas of 2-3" dbh sugar maple. Some aspen on east edge but mostly a young hardwood stand. A lot of sprout origin trees but good potential here for hardwood management. Possible to clearcut and manage for aspen too. Will take more than one thinning to see good improvement. BA low in poles and overall too small yet for any cut.
31	4130 - Aspen	Poletimber Medium	84.8	26	51-80	OPIC - FMD: A5A3 average 4-6" dbh well-stocked mostly except for some non-stocked wet swales and a few areas of cherry. Some areas are 2" dbh sugar maple. Some older residual hardwood. Fir mixed in spots. Some white birch on old skid trails seeded in. Some areas still A3 4". Rubus ground cover.
33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	28.0	115	51-80	OPIC - FMD: Beaver flooded area in past but now drained (spring 2005). Dead trees in those areas. Spring emerges from ground north and flows south to disappear back underground. Large flow of several gallons per minute. Early settlers modified spring origin with pipes still in place. Unique stream here protected by biodiversity stewardship designation. C6 and Q6 south in a few areas. Couple acres of upland 5-stick aspen east side included. Overall stand is Q5.
34	4110 - Sugar Maple Association	Poletimber Well	11.1	101	81-110	OPIC - FMD: Trees are large with a lot of rot, cankers and other defects. Much pulp and low quality logs. Good den trees here. Hardwood right to basin edge. Regeneration is 8' tall well-stocked sugar maple. Decided to add to potential old growth or biodiversity maintenance to provide good habitat for wood ducks or hooded mergansers next to the basin. 2015-retain as riparian stand for the above habitat reasons.
54	411 - Northern Hardwood	Sawtimber Well	10.9	178	81-110	OPIC - FMD: Hardwood left when aspen was cut, buffer stand for Johnson Creek. Large aspen. Some areas mostly aspen but most hardwood. Thick fir understory in areas. Stand is in biodiversity maintenance for protecting riparian values.
55	4130 - Aspen	Poletimber Well	3.6	46	111-140	OPIC - FMD: Like stand immediately west. Semi-open areas. Mostly 3-5 stick aspen. Young yet and not good quality aspen. Some hypoxilin. Some w. pine and j. pine in stand especially SE. Cut in 10-20 years. 2015-stand small, still not ready to harvest...just now transitioning to pole stand.
56	4130 - Aspen	Sapling Well	49.9	25	Immature	OPIC - FMD: This stand harvested 1990 and this portion came back well-stocked aspen 1" dbh but some areas are more poorly stocked. 2015-sugar maple site, with trillium, leatherwood.
58	4130 - Aspen	Sapling Medium	44.6	20	Immature	OPIC - FMD: This areas is coming into aspen from former open. Some of stand is scattered cherry. More well-stocked aspen east and more scattered cherry or upland brush west. 2015-Young aspen clones with upland brush..mostly cherry.



Stand	Cover Type	Acres	Managed Site	General Comments:
11	500 - Water	1.1	No	
15	320 - Upland Shrub	13.1	No	OPIC - FMD: Cherry and maple brush coming in. Cut 1990 to provide larger area of young forest or opening for wildlife. Some sparse areas but mostly well-stocked. Some trees up to 4" dbh, but mostly 10' tall. Stand was burned as part of FTP W32-713 on September 9, 2011. Total burn was 53 acres.
24	500 - Water	1.4	No	
32	211 - Cropland	67.6	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit F.
35	320 - Upland Shrub	4.1	No	OPIC - FMD: thick patch of hawthorn
36	2113 - Forage Crops	33.8	Yes	OPIC - FMD: This area is intensively managed by Wildlife Division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit M.
37	211 - Cropland	26.2	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit E.
38	31021 - Cool Season Grass	30.1	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit K.
39	3102 - Grass	33.2	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit J.
40	31021 - Cool Season Grass	33.3	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit I.
41	211 - Cropland	29.6	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit D.
42	211 - Cropland	40.3	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit A.
43	211 - Cropland	32.9	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit C.



Stand	Cover Type	Acres	Managed Site	General Comments:
44	211 - Cropland	34.8	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit B.
45	500 - Water	0.4	No	OPIC - FMD: DNR made pond 1980's holds water most of year.
46	500 - Water	1.6	No	OPIC - FMD: DNR made pond 1980's, holds water most of the year.
47	500 - Water	1.2	No	OPIC - FMD: DNR made pond, holds water most of the year.
50	622 - Lowland Shrub	20.3	No	OPIC - FMD: Lowland brush with some marsh along Johnson creek.
57	320 - Upland Shrub	52.1	No	OPIC - FMD: This area harvested in 1990 was mostly hardwood. Regeneration is poorly stocked cherry and red maple clumps with a few sugar maple sprouts. A few aspen clones included all about 1" dbh. Stand was harvested to provide wildlife values closer to waterfront.
400	310 - Herbaceous Openland	7.9	No	OPIC - FMD: grass opening filling in a little bit but some beaver activity as well on island between forks of Johnson creek.
401	310 - Herbaceous Openland	4.6	No	OPIC - FMD: Open area probably old pasture or other agricultural field from homestead days. Filling in with trees on edges.
402	310 - Herbaceous Openland	1.2	No	Small opening filling in.
404	310 - Herbaceous Openland	1.3	No	Small forest opening filling in.
405	310 - Herbaceous Openland	0.8	No	OPIC - FMD: OI Stand Year Origin was
407	310 - Herbaceous Openland	0.7	No	Small forest opening.
408	310 - Herbaceous Openland	263.1	Yes	OPIC - FMD: Mostly scattered cherry. Other trees invading. Would like to burn this some time this next entry period to maintain in an open condition. Central area of stand (Burn Unit 4) was treated with a Rx Burn (FTP #F32-648) on September 10, 2011. Three other burn units within this stand remain unburned (Units 1, 2 and 5), though control lines are in place. Mop-up and monitoring occurred on September 11, 2011. 2015-Grass opening converting to upland brush. Knapweed throughout. Additional burning of this stand will only hasten the conversion to brush.
409	211 - Cropland	39.2	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit H.



Stand	Cover Type	Acres	Managed Site	General Comments:
410	310 - Herbaceous Openland	128.7	Yes	OPIC - FMD: Mostly scattered cherry. Other trees invading. Would like to burn this some time this next entry period to maintain in an open condition. 2015-Grass opening converting to upland brush. Knapweed throughout. Additional burning of this stand will only hasten the conversion to brush.
412	310 - Herbaceous Openland	33.6	Yes	OPIC - FMD: This area is intensively managed by wildlife division. Area divided by fields mostly hay cut at times beneficial to waterfowl. AuTrain Wildlife Refuge South Unit L. Very poor soils with soils described as cobby.
413	310 - Herbaceous Openland	53.4	Yes	OPIC - FMD: Mostly scattered cherry. Other trees invading. Would like to burn this some time this next entry period to maintain in an open condition. 2015-Grass opening converting to upland brush. Knapweed throughout. Additional burning of this stand will only hasten the conversion to brush.