



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32098

Entry Year 2021

Acreage: 1,732

County Alger

Management Area: Chatham-Autrain Moraines

Revision Date: 2019-07-25

Stand Examiner: Robert Tylka

Legal Description:

T45N R21W Sections 10,11, 13, 14 and 15

Identified Planning Goals:

Timber production and wildlife habitat management, including large forest openings maintained as part of the Autrain Wildlife Management Area

Soil and topography:

The topography features rolling upland terrain divided by numerous low, wet areas with streams and drainages through them.

Soils in this compartment consist primarily of sandy loams on the uplands and silty loams on the transitions into the lowlands, and drainage is generally good through these. The bottomlands feature muck soils with impeded drainage, resulting in limited operability for crossing these areas year-round. Numerous ponds dot the landscape across all levels of terrain, including the uplands.

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

The compartment boundaries exclude privately-owned lands, but there are permanent residences and hunting camps on all three of the county roads used to access the state lands in this compartment. Numerous forest roads connected to the county roads allow reasonably good access during the dry season, but this may become challenging during wetter periods. Recreational use of the state lands includes hunting, trapping and possibly fishing, and some limited use for snowmobiling by local residents.

Unique Natural Features:

Black Creek, Johnson Creek and several of their tributaries run through the compartment. In general these drain eastward into the Autrain Reservoir.

Archeological, Historical, and Cultural Features:

No known archeological sites, and nothing of notable cultural or historic value beyond local family histories.

Special Management Designations or Considerations:

N/A

Watershed and Fisheries Considerations:

Fisheries Values: Good

Fisheries Concerns: Black Creek and Johnson Creek both run through this compartment, along with various tributaries. All of these streams are designated trout streams and historically have support natural brook trout populations and providing natal habitat for juvenile brook trout. The proposed treatment in stands 15 and 70 should buffer the stream a minimum of 200 ft. This should help discourage any additional beaver activity in these corridors.

Wildlife Habitat Considerations:

Compartment 098 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

No commercial development other than the rock/sand pit located in stand 18, in the NENE of section 11. Products from this pit have been used to improve local roads for access to timber resources.

Vehicle Access:

Alger County administers & maintains East Cold Springs Rd., East Louds Spur Rd., and Johnson Creek Rd. Access to most of the compartment is reasonably good via forest roads connected to these three gravel roads, but may be challenging during periods of wet weather. Crossing drainages and wetlands is an issue, and access across private lands is also a concern for a couple of timber stands. At this time there is no vehicle access to stand 27, located in the SE 1/4 of section 14; it may become accessible if the timber to the south in Cmp 32097 is treated.

Survey Needs:

For activities proposed during this entry interval, it appears that either field-grade corners or previously accepted boundaries are in place.

Recreational Facilities and Opportunities:

There are no developed recreational facilities in this compartment. Local use includes hunting, fishing and trapping along with minor use for snowmobiling along county and forest roads.

Fire Protection:

The timber types in this compartment are generally classified as relatively low-risk fuel types. Access to some areas would be challenging and may be limited to walk-in efforts. Numerous acceptable water sources are present in or very close to the compartment.

Additional Compartment Information:

Timber management in this compartment is focused on aspen and northern hardwoods. Both of these timber associations offer the potential for high volume and good quality timber products.

Insect and disease issues observed locally include beech bark disease and losses to the spruce budworm. Emerald ash borer has not been reported in this immediate vicinity, but black ash is common in the low, wet areas. It is not regarded as a highly productive timber species here, so potential losses are of greater concern for their impacts to wildlife and biodiversity values.

The following reports from the Inventory are attached:

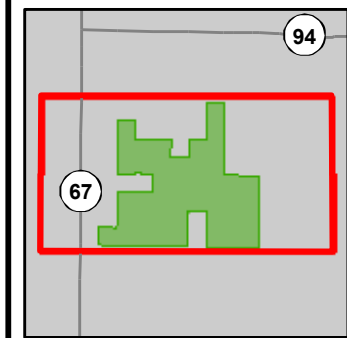
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

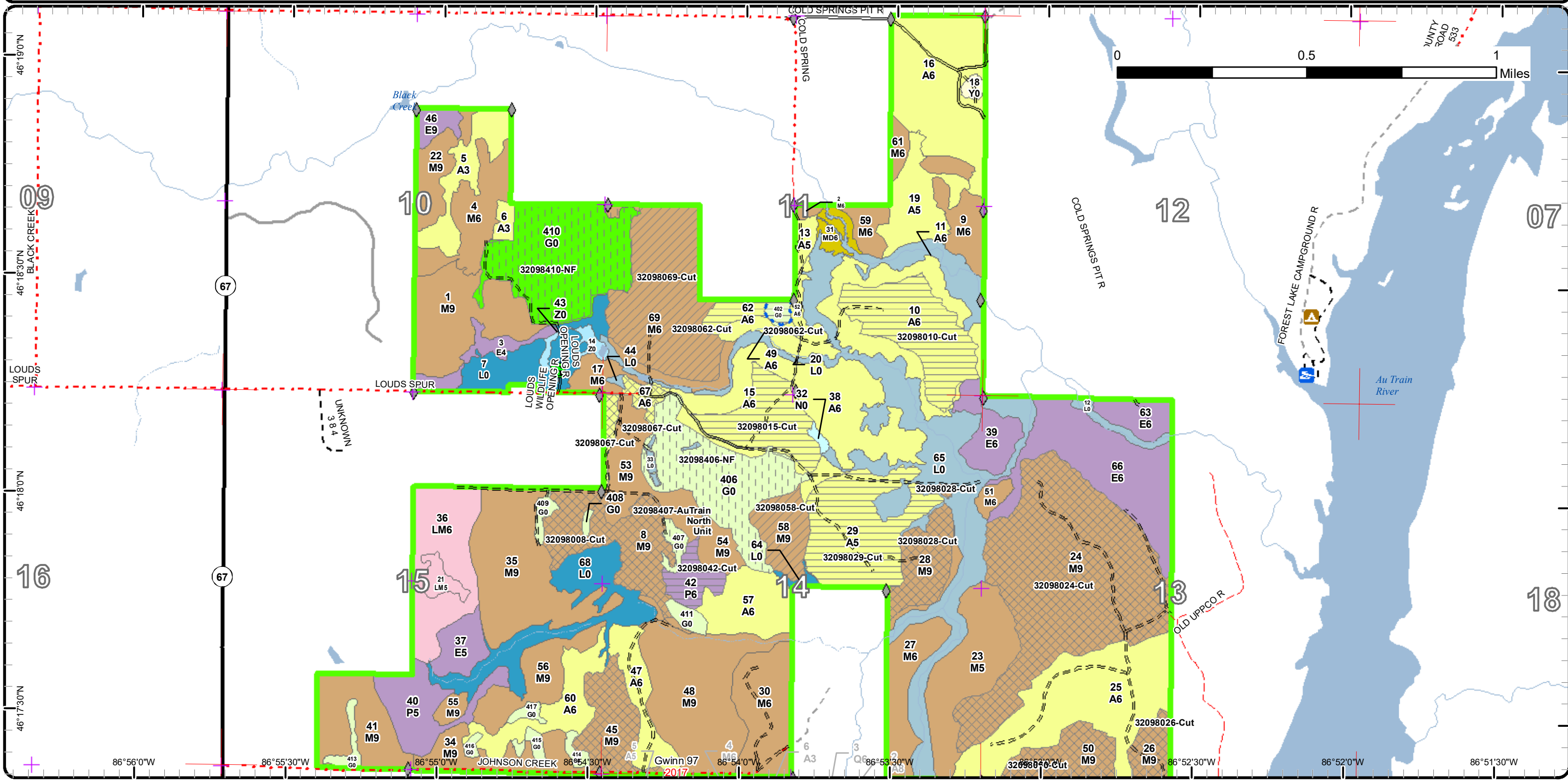
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 98
 T45N, R21W, Sec: 10, 11, 13-15
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-AuTrain
 Moraines
 YOE: 2021
 Acres: 1,732 GIS Calculated
 Examiner: Robert Tylka
 Map Revised: 8/16/2019
 Map Phase: Web-Post

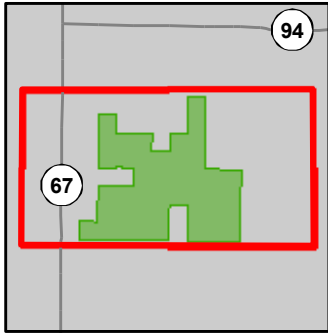


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|--|-------------------------------------|------------------------------------|
| — Miris Corners | ▲ Campground | ■ 611 - Lowland Deciduous Forest |
| ✚ Remonumented Section Corners | — Intermittent Stream | ■ 613 - Lowland Mixed Forest |
| ◆ Field Grade Corners | — Island in Lake or River | ■ 211 - Cropland |
| ▭ Counties | — Lake/Pond | ■ 310 - Herbaceous Openland |
| — DNR - Secondary Forest Road | — Perennial River | ■ 500 - Water |
| — DNR - Forest Access Route | — Lakes and Rivers All | ■ 622 - Lowland Shrub |
| — Federal / State Highway | — Compartment Boundary | ■ 623 - Emergent Wetland |
| — Federal / State - Dirt / Gravel Road | ▨ Treatments with Site Conditions | ■ 629 - Mixed non-forested wetland |
| — County - Gravel Road | ▨ Selection (Group, Single Tree) | ■ 710 - Sand/Soil |
| — County - Dirt Road (Seasonal) | ▨ Clearcut (w/Reserves) | ■ Lakes |
| — Private - Paved Road | ▨ Thinning (Crown, Low, Systematic) | |
| — Private - Dirt / Gravel Road | ▨ Opening Maintenance | |
| ■ Gate | ■ 411 - Northern Hardwood | |
| ■ Boating Access Site | ■ 413 - Aspen | |
| | ■ 419 - Mixed Upland Deciduous | |

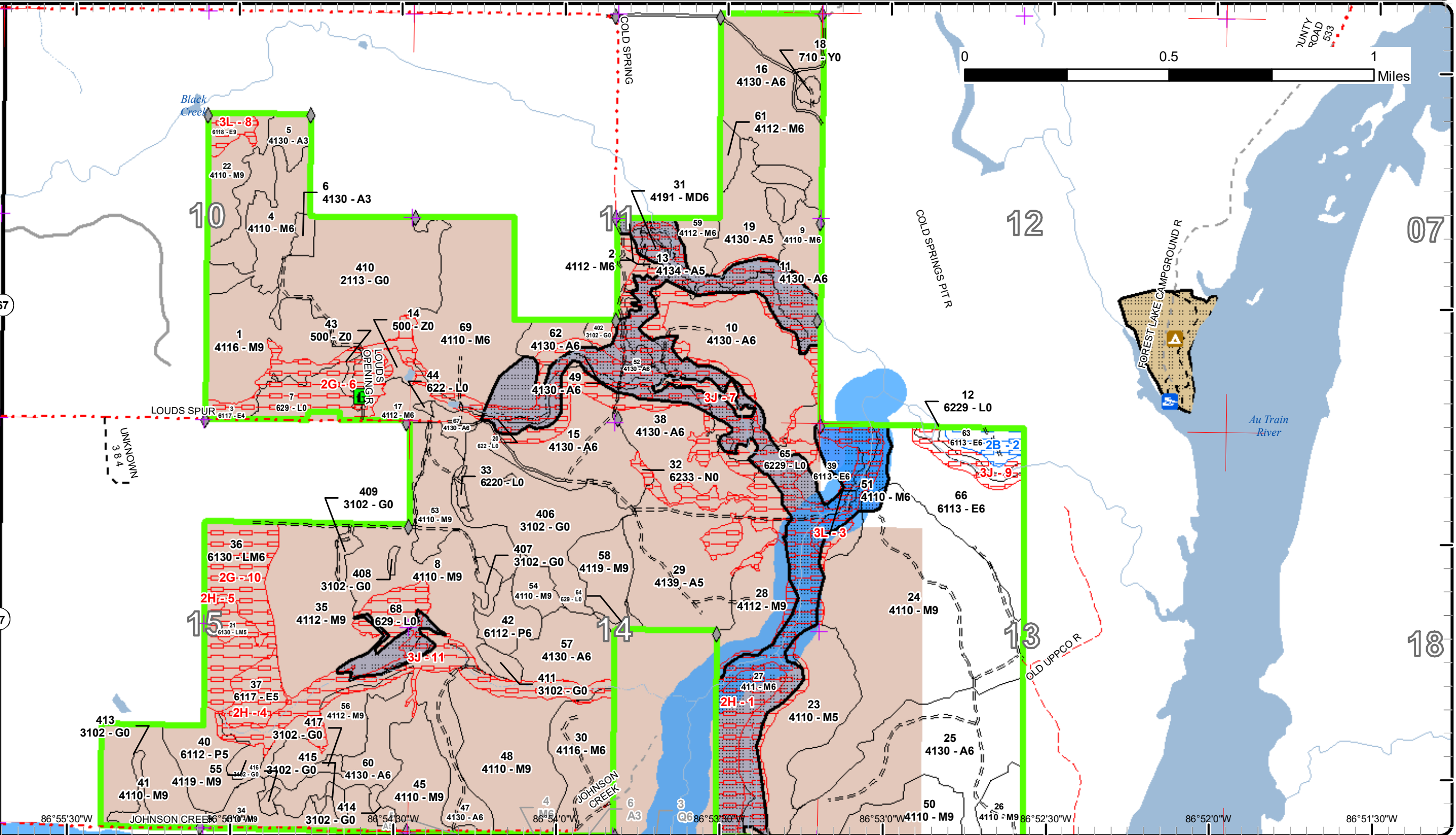
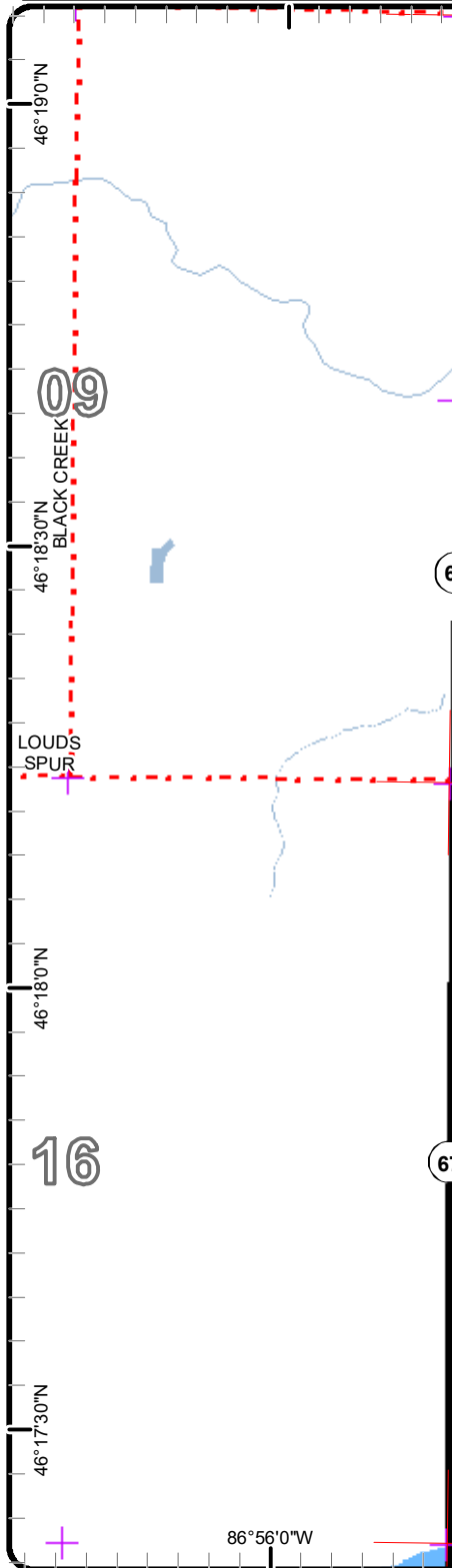
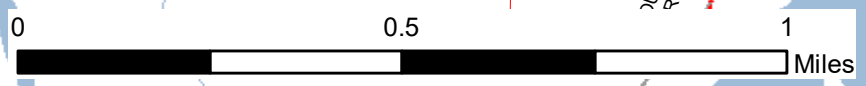
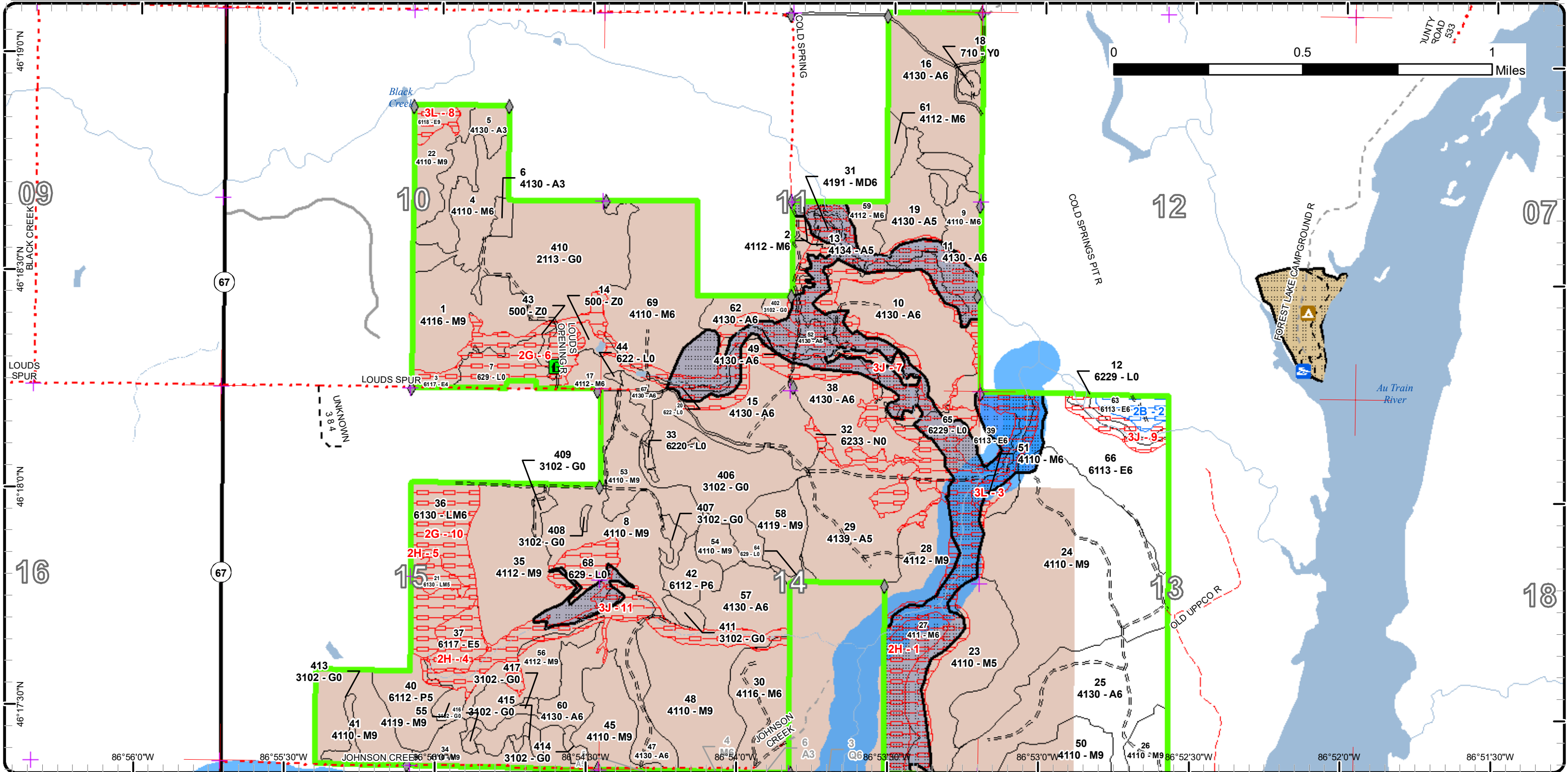


Special Conservation Areas & Site Conditions Map

Compartment: 98
 T45N, R21W, Sec: 10, 11, 13-15
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain
 Moraines
 YOE: 2021
 Acres: 1,732 GIS Calculated
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 Map Revised: 8/16/2019
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- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- G Gate
- ⚓ Boating Access Site
- ▲ Campground
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Wildlife Research Areas
- Riparian Area
- State Forest Campground
- Habitat Corridor
- 3L: Other wildlife concerns
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)



Report 1 – Total Acres by Cover Type and Age Class



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	3	19	113	140	136	0	0	0	0	0	0	0	0	0	0	0	51	462
Cropland	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Herbaceous Openland	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Lowland Aspen/Balsam Poplar	0	0	0	0	23	0	0	0	0	10	0	0	0	0	0	0	0	0	33
Lowland Deciduous	0	0	0	0	0	0	0	0	0	9	0	6	0	0	0	0	0	89	104
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	5	42
Lowland Shrub	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	0	39	22	0	0	0	0	0	0	0	0	699	760
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	324	3	19	113	163	136	0	45	22	19	0	43	0	0	0	0	0	844	1731



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 98

Total Compartment Acres: 1,732

Commercial Harvest - 467
 Harvests with Site Condition - 2
 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	123	9	0	0	0	0	0	0	0	131
Herbaceous Openland	2	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	10	0	0	0	0	0	0	0	0	10
Northern Hardwood	0	247	0	0	0	79	0	0	0	326
Total	135	256	0	0	0	79	0	0	0	470

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	470	0	0	0	0	0	0	114	0	584
Next Step	0	0	0	0	0	114	389	0	349	852
Total	470	0	0	0	0	114	389	0	463	1436



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
8	32098008-Cut	37.0	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Select cut to about 70-90 sq.ft./acre, with an emphasis on retaining/releasing the best crop trees. protect any vernal ponding areas. Create regen											
<u>Specs:</u> gaps per SOP but vary the size to encourage recruitment of less-shade tolerant associates. If encountered, do not cut hemlock, cedar, white pine, oak or elm. If aspen clones are found within the stand they may be regenerated to increase within-stand diversity.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Northern hardwoods and conifers.											
<u>Regen:</u>											
<u>Other</u> BMP's and/or slopes into drainages may be an issue along the southern & western boundaries of the stand. Buffer all drainages per the SOP											
<u>Comment:</u> WLD - Favor basswood for seed production & habitat for cavity nesters.											
<u>Proposed Start Date:</u> 10/1 /2020											

10	32098010-Cut	40.1	4130 - Aspen	Poletimber Well	45	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut with retention: Cut all aspen and others down to 2" DBH except for the following - If encountered retain all hemlock, white pine , cedar,											
<u>Specs:</u> elm and oak; submerchantable spruce & fir may also be retained. Treatment boundaries already reflect buffers along the steeper slopes and wetlands to avoid most of the potential BMP issues along the stand boundaries.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen and conifers.											
<u>Regen:</u>											
<u>Other</u> Winter cut only due to access across the lowland areas.											
<u>Comment:</u> Sale access via East Cold Springs Rd. Additional BMP issues might be present within the stand and must be addressed during t-sale prep. WLD - Retention should also include some larger aspen - trees with forked crowns are particularly valuable for raptor nesting sites and/or cavity nesters.											
<u>Proposed Start Date:</u> 10/1 /2020											

15	32098015-Cut	27.3	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut to regenerate the aspen. Retention pockets (3-10% of the area but not limited to this amount) should be used to protect drainages and											
<u>Specs:</u> vernal ponding areas, and may also include areas where the less-frequently occurring species (northern hardwoods and/or conifers) are already becoming dominant.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, with a mix of hardwood and softwood.											
<u>Regen:</u>											
<u>Other</u> Reserve white pine, hemlock, cedar, elm and oak if any are encountered in this stand.											
<u>Comment:</u> WLD - Retention should also include some larger aspen - trees with forked crowns are particularly valuable for raptor nesting sites and/or cavity nesters.											
<u>Proposed Start Date:</u> 10/1 /2020											

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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
24 32098024-Cut	133.7	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Select cut to a target residual of 80-90 BA. Create regen gaps per SOP but be careful to maintain enough BA around them to avoid blowdown, which can be problematic in this area.

Specs: If encountered, do not cut hemlock, cedar, white pine, yellow birch, elm or oak. Maintain and encourage species diversity by using larger gaps where appropriate to recruit the less shade-tolerant species of the northern hardwood association, and by keeping healthy examples of all species present.

Any aspen clones may be regenerated to increase within-stand diversity but this is not considered a high priority. Encourage sprouting of black cherry and paper birch if possible.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods and associated conifers.

Regen:

Other

Comment: Hilly, rolling terrain - during sale layout, consider excluding areas that are too steep for standard logging operations. Given the terrain it is likely that summer logging is a probability, so efforts to avoid rutting and other sources of erosion will be critical.

WLD - Favor basswood for seed production and habitat for cavity nesters.

Proposed Start Date: 10/1 /2020

26 32098026-Cut	11.2	4110 - Sugar Maple Association	Sawtimber Well	70	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Select cut to a target residual of 80-90 BA. Create regen gaps per SOP but be careful to maintain enough BA around them to avoid blowdown, which can be problematic in this area.

Specs: If encountered, do not cut hemlock, cedar, white pine, basswood, elm or oak. Only cut cherry if there is evidence of disease such as black knot; but if cutting any cherry, provide adequate gap space around it to ensure sprouting. Maintain and encourage species diversity by using larger gaps where appropriate to recruit the less shade-tolerant species of the northern hardwood association, and by keeping healthy examples of all species present.

Any aspen clones may be regenerated to increase within-stand diversity but this is not considered a high priority. Encourage sprouting of black cherry and paper birch if possible.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods and associated conifers.

Regen:

Other

During sale layout, watch for BMP's and possible vernal ponds, plus rolling terrain where erosion problems may occur if logged when snow-free.

Comment:

Proposed Start Date: 10/1 /2020

28 32098028-Cut	20.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Select cut to a residual basal area of approximately 80 sq. ft./acre. Emphasize stand improvement and crop tree release. If encountered, do not cut elm, oak, hemlock, cedar, or white pine. Only cut cherry if there is evidence of disease such as black knot; but if cutting any cherry, provide adequate gap space around it to ensure sprouting.

Protect any vernal ponds and watch for drainages & other BMP issues near the non-forested wetlands. These may require buffers.

If present, aspen clones may be regenerated to increase stand diversity.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods and associated conifers.

Regen:

Other

Stand appears to be on a high quality site for hardwood production. Variable regen gap sizes may be used as appropriate to increase species diversity. Maintain target basal area to avoid issues with blow down as this is a notable problem in this area.

WLD - Favor yellow birch and basswood for seed production and habitat for cavity nesters.

Proposed Start Date: 10/1 /2020



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
29	32098029-Cut	48.2	4139 - Aspen, Mixed Deciduous	Poletimber Medium	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention- during sale layout identify patches where no aspen is present and retain 3-5 acres, wherever it is convenient to do so. Do not cut any hemlock, cedar, white pine, or oak if encountered.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen + all other species present.
Regen:

Other Starting this stand over to manage aspen on an even-aged basis.
Comment:

WLD- Only cut Black Cherry (2%) if there is evidence of disease such as black knot; but if cutting any cherry, provide adequate gap space around it to ensure sprouting - mast production – black bear, ruffed.
Favor Basswood (3%) –seed production and cavity nesters- pileated woodpecker, ruffed grouse and Yellow Birch (2%) – seed source and wildlife food, future cavity trees.

Proposed Start Date: 10/1 /2020

42	32098042-Cut	10.2	6112 - Lowland Aspen	Poletimber Well	80	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut - cut all trees down to 1" DBH to regenerate the aspen. Do not cut healthy black cherry, elm, hemlock, cedar, white pine or oak if encountered. Along the edges of the stand, consider retention to reserve some of the larger aspen, placing emphasis on retaining those with forked or irregular crowns. These are important for potential raptor nests and/or cavity nesters.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen
Regen:

Other Cut in winter or dry summer.
Comment:

Proposed Start Date: 10/1 /2020

45	32098045-Cut	23.6	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Selection cut to a target basal area of 80-90 sq.ft./acre, with emphasis on establishing a balanced age/size-class distribution of trees up to 22" DBH plus creating regeneration gaps and releasing pockets of advanced regeneration where appropriate. Favor the infrequently-occurring species and do not cut yellow birch. Only cut cherry if there is evidence of disease such as black knot; but if cutting cherry, provide adequate gap space around it to ensure sprouting. If encountered, do not cut oak, elm, hemlock, white pine or cedar; other conifers such as spruce and fir may be retained unless they appear to be high risk (example - large diameter spruce likely to blow over.)

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable All Northern hardwood species and associated conifers.
Regen:

Other Good timber on a high-quality site, so marking should place emphasis on retaining the most vigorous trees while removing others with risk factors and/or poorer form.
Comment: WLD - place emphasis on favoring basswood for seed production/cavity nesters, and retain some other large diameter/low-quality trees for potential cavity trees.

Proposed Start Date: 10/1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
50	32098050-Cut	21.1	4110 - Sugar Maple Association	Sawtimber Well	70	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Select cut to a target residual of 80-90 BA. Create regen gaps per SOP but be careful to maintain enough BA around them to avoid blowdown, which can be problematic in this area.											
<u>Specs:</u> Do not cut basswood, elm, hemlock, cedar, white pine or oak if encountered in this stand. Only cut cherry if there is evidence of disease such as black knot; but if cutting any cherry, provide adequate gap space around it to ensure sprouting. Maintain and encourage species diversity by using larger gaps where appropriate to recruit the less shade-tolerant species of the northern hardwood association, and by keeping healthy examples of all species present.											
Any aspen clones may be regenerated to increase within-stand diversity but this is not considered a high priority. Encourage sprouting of paper birch if possible.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Northern hardwoods and associated conifers.											
<u>Regen:</u>											
<u>Other</u> Some hilly terrain in places so be careful during sale layout - avoid areas likely to have erosion problems. Also be careful not to drop the residual											
<u>Comment:</u> BA too low especially near regen gaps, as blowdown is often a problem in this area. Vernal ponds may be present and require protection per SOP.											
<u>Proposed Start Date:</u> 10/1 /2020											

58	32098058-Cut	16.3	4119 - Mixed Northern Hardwoods	Sawtimber Well	80	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut to remove the surviving aspen while emphasizing stand improvement/crop tree release for the best quality hardwoods. Protect any vernal ponds. Do not cut yellow birch, hemlock, cedar, white pine, oak or elm if encountered. Retain black cherry unless evidence of disease such as black knot is clearly visible. If cherry or paper birch is cut provide adequate gap space for it to sprout.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Northern hardwoods											
<u>Regen:</u>											
<u>Other</u> Target basal area should generally be managed per SOP for northern hardwoods, but removing the aspen may result in areas where it drops											
<u>Comment:</u> lower than 70. No special effort to regenerate the aspen component is recommended but it is not necessary to avoid regenerating clones either. WLD - Favor basswood for seed production and potential habitat for cavity nesters.											
<u>Proposed Start Date:</u> 10/1 /2020											

62	32098062-Cut	7.0	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut to regenerate the aspen. Retention pockets (3-10% of the area but not limited to this amount) should be used to protect drainages and vernal ponding areas, and may also include areas where the less-frequently occurring species (northern hardwoods and/or conifers) are already becoming dominant.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, with a mix of hardwood and softwood.											
<u>Regen:</u>											
<u>Other</u> Reserve white pine, hemlock, cedar, spruce, basswood, elm and oak if any are encountered in this stand.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 7 /12/2019											



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
67	32098067-Cut	8.5	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all merchantable aspen. If areas where more than 80 sq.ft./acre of hardwoods and/or conifer basal area are present (not including the aspen)
Specs: thin to about 70 BA keeping the best quality trees in place. Otherwise cut hardwoods/conifers only as needed to access the aspen. Do not cut hemlock, cedar, pine, paper birch, elm or oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwoods with a conifer component is desirable. Aspen regen is acceptable.

Regen:

Other Pockets of advanced hardwood regen are important to the success of this conversion, so emphasis on protecting them is critical both during sale
Comment: layout and later while administering the timber sale.

Proposed Start Date: 10/1 /2020

69	32098069-Cut	62.3	4110 - Sugar Maple Association	Poletimber Well	70	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin to about 80 sq.ft./acre of basal area with an emphasis on stand improvement and releasing the best crop trees. Maintaining species diversity
Specs: plus increasing both age and size class diversity are desirable goals. However, caution must be used not to drop residual basal area too low, as blowdown is a potentially serious problem when soils are saturated in this area. Favor basswood for seed production and potential habitat for cavity nesters. Do not cut hemlock, cedar, pine, paper birch, elm or oak if encountered. Do not cut cherry unless evidence of disease such as black knot is present; but if cherry is cut provide adequate gap space to ensure sprouting.

Next Step

Treatments:

Acceptable All species present with an emphasis on northern hardwoods.

Regen:

Other Not a lot of trees over 12" DBH in much of the stand, so keeping larger trees for their wildlife values could be prioritized until a better age/size
Comment: class distribution is developed over successive entries. Although this stand is already recognized as being unevenaged, it may still take a couple of entries to reach the site's potential for production of quality sawlogs.

Proposed Start Date: 10/1 /2020

402	32098402-Cut	2.4	3102 - Grass	Nonstocked		Unspec ified	Harvest	Clearcut	31021 - Cool Season Grass		Proposal
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Habitat Cut: No**Site Condition: BMPs**

Prescription Cut all trees down to 2" DBH - Opening maintenance in conjunction with the commercial timber sale surrounding this small opening.

Specs:

Next Step NonForestMgt, Other - Specify

Treatments:

Acceptable N/A

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

406	32098406-NF	49.7	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Per WLD specs.

Specs:

Next Step Pesticide, Other - Specify; NonForestMgt, Fruit Tree/Shrub Planting; ; NonForestMgt, Mowing; NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other Maintained as part of the Autrain Goose preserve.

Comment:

Proposed Start Date: 7 /26/2019



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	32098407- AuTrain North Unit	3.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription 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.

Specs:

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 required. 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, Other - Specify; NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Fruit Tree/Shrub Planting; NonForestMgt, Mowing; NonForestMgt, Mowing

AcceptableRegen:OtherComment:

Proposed Start Date: 7 /26/2019

410	32098410-NF	61.3	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Annual work by sharecropper in 2019.

Specs:

Next Step Pesticide, Other - Specify; NonForestMgt, Fruit Tree/Shrub Planting; NonForestMgt, Mowing; NonForestMgt, Mowing

Treatments:AcceptableRegen:Other

Percent to Treat = 100%

Comment:

Proposed Start Date: 7 /26/2019

**Total Treatment
Acreage Proposed: 584.1**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Robert Tylka : Examiner

Compartment: 98
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
463	397	0	66

Dominant Site Conditions

	Acres Available	With Condition	Not Available	Dominant Site Condition	Dominant Site Conditions					
					2B	2G	2H	3J	3L	ed
463	397	0	66	Aspen				66		0
61	61	0	0	Cropland						
74	74	0	0	Herbaceous Openland				0		
33	32	0	1	Lowland Aspen/Balsam Poplar				1		
104	58	8	38	Lowland Deciduous	8	9	11	12	6	
42	0	0	42	Lowland Mixed Forest		37	5			
182	4	0	177	Lowland Shrub		25	0	153		
1	0	0	1	Marsh				1		
6	0	0	6	Mixed Upland Deciduous				6		
760	708	0	52	Northern Hardwood			21	28	4	
2	2	0	0	Sand, Soil						
4	3	0	2	Water		2				
1,732	1,338	8	386	Total Forested Acres	8	73	37	266	9	0
	77%	0%	22%	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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Robert Tylka : Examiner

Compartment: 98
Year of Entry: 2021

3	Unavailable	3L: Other wildlife concerns	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold for undisturbed closed-canopy habitat near Johnson Creek.							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	206	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Crossings will require appropriate measures for both stream protection and access uses.							
8	Unavailable	3L: Other wildlife concerns	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Robert Tylka : Examiner

Compartment: 98
Year of Entry: 2021

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unspecified	Unspecified	0				
Comments:							
14	Unspecified	Unspecified	0				
Comments:							



Report 5 – 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
	Spring Wetlands Riparian Area	Spring Seep	SCA	10
Comments				
	Spring Wetlands Riparian Area	Spring Seep	SCA	169
Comments				
Johnson Creek tributaries				



Report 6 – 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	Managed Site	General Comments																																				
1	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	38.9	80	81-110	N/A	Stand appears to have some odd history - apparently it was cut hard with the intention of converting it to aspen but there must have been many hardwood poles left. These are now log-sized trees and have reproduced a generation of maple poles and regen; but quality is an issue in some of the larger maples, as they were probably open-grown. Sugar maple now occupies roughly 58% of the main canopy, as opposed to the 30% occupied by a mix of quaking aspen and balsam poplar. There are scattered pockets where spruce/fir is dominant, and numerous lower, wet swales where ash and red maple are more common - this is especially true adjacent to the non-forested and/or poorly stocked wetlands to the south.. A few birches and elm were also observed in the stand. The terrain is rolling and hilly in places, with the wetter swales in between. Several small ponds are included within the stand. Density and species composition are variable, with the basal area presently averaging just over 100 sq.ft./acre. Overall the site itself appears to be capable of producing decent quality hardwood logs, and indicator species support this. The second-generation maple has reasonably good form in most places where they are growing on dryer ground above the swales.																																				
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2	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.4	80	111-140	N/A	Last cut in mid 90's.																																				
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3	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	9.4	88	1-50	N/A	Wet area with scattered trees and lowland brush. Appears to be inoperable in most of the stand. Some patches of denser timber are present on the slightly dryer areas of the stand, but these are very slow-growing and the site indices suggest that commercial timber management is impractical.																																				
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4	4110 - Sugar Maple Association	Poletimber Well	23.8	100	51-80	N/A	Good quality sugar maple & basswood, last thinned YOE 2001. Basal area is now back up to an average of just under 100 sq.ft./acre, including the regen gaps created with the last cut. The density of the understory is extremely variable.																																				
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5	4130 - Aspen	Sapling Well	18.6	16	Immature	N/A	Cut prescribed from YOE 2001 entry. Now fully-stocked with aspen regen about 2-5" DBH, with a few trees already reaching merchantable size. The understory is also developing rapidly and primarily consists of sugar maple seedlings, with a few ironwood and balsam fir mixed in.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
6	4130 - Aspen	Sapling Well	3.2	6	Immature	N/A	Fully-stocked aspen regen about 0-2" DBH , 12-18' tall. No developed understory yet other than raspberry and other herbaceous plants.																																			
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7	629 - Mixed non-forested wetland	Nonstocked	24.9		Unspecified	No	Non-forested wetland, including seasonally-flooded areas in the eastern end of this stand. Water levels appear to fluctuate rapidly throughout the area. Several small pockets of merchantable timber are present on elevated knobs above the flood zone, but these are inaccessible.																																			
8	4110 - Sugar Maple Association	Sawtimber Well	38.6	90	111-140	N/A	Good quality northern hardwoods averaging about 120 sq.ft./acre of basal area. Scattered conifers and aspen along the fringes of the stand especially near the lowlands.																																			
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9	4110 - Sugar Maple Association	Poletimber Well	16.5	80	81-110	N/A	Northern hardwoods on rolling terrain, last cut in the mid-90's. Scattered red maple and birches are present. The timber appears to be medium quality, but this may be the result of past management as the site itself features cobbly sandy loam soils with acceptable drainage and habitat types (AVO/AOC) that suggest the potential for higher quality hardwood timber. Blowdown may also be an issue, especially in some of the lower spots. Avg BA is variable but generally around 80-120 sq.ft./acre in most of the stand. On the eastern edge, there is an area of about 3 acres where the stand is more of a conifer-hardwood regen mix on slightly lower and flatter terrain, and the BA is generally lower; most of the spruce is located here.																																			
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10	4130 - Aspen	Poletimber Well	68.5	45	111-140	N/A	Previous inventory identified this as aspen cut in 1986, but there are indicators that more age class diversity in the aspen is present throughout the stand. Pockets of conifers were probably left as reserve areas, and these now feature spruce up to 12" DBH. The age shown is a reasonable guess at an average age for the aspen. NOTE: There is a major issue with blowdown and excessive breakup occurring throughout this stand, resulting in lost volume that ingrowth is not likely to replace. At present the average DBH of the aspen runs anywhere from 7" to 11" with merchantable heights of 4 to 6+ pulpsticks. Therefore, HARVEST IS RECOMMENDED ASAP.																																			
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11	4130 - Aspen	Poletimber Well	0.0	45	111-140	N/A	Previous inventory identified this as aspen cut in 1986, but there are indicators that more age class diversity in the aspen is present throughout the stand. Pockets of conifers were probably left as reserve areas, and these now feature spruce up to 12" DBH. The age shown is a reasonable guess at an average age for the aspen. NOTE: There is a major issue with blowdown and excessive breakup occurring throughout this stand, resulting in lost volume that ingrowth is not likely to replace. At present the average DBH of the aspen runs anywhere from 7" to 11" with merchantable heights of 4 to 6+ pulpsticks. Therefore, HARVEST IS RECOMMENDED ASAP.																																			
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12	6229 - Mixed lowland shrub	Nonstocked	4.3	0	Unspecified	No	Riparian corridor/buffer along Black creek. Some trees included but the banks and low area should be protected.																																						
13	4134 - Aspen, Spruce/Fir	Poletimber Medium	4.4	33	51-80	N/A	Cut in 1986. Aspen/hardwoods/fir mix, generally good quality timber. BA averages 70-90 but somewhat lower in the wetter areas, where the trees appear to be growing well but some blowdown is taking place. Beaver activity is also evident along the edge adjacent to the non-forested wetlands.																																						
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14	500 - Water	Nonstocked	2.7		Unspecified	No	Flooded area/pond - water level appears tp vary somewhat throughout the seasons.																																						
15	4130 - Aspen	Poletimber Well	45.1	44	81-110	N/A	Aspen showing signs of breakup such as conks, blowdown and other progressive mortality. Previous inventory identified the area as having been cut in 1975. The understory is generally dominated by hardwood regen. Ready to harvest now before mortality becomes a major factor. The aspen appears to be mature for this site and merchantable heights are generally 3 - 6 pulpsticks.																																						
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16	4130 - Aspen	Poletimber Well	55.9	33	51-80	N/A	Cut in the 80's - Nice stand of aspen mixed with scattered bam, black cherry, sugar maple and spruce/fir, plus a few other hardwood species present but not common. Hawthorn brush is present in the small but numerous upland semi-open areas, often mixed in with hardwood regen and other brush species. Average basal area in merchantable aspen is now approaching 50 sq.ft./acre, with an additional 20+ square feet of the other species listed. The understory is heavy to sugar maple with scattered conifers mixed in. Site indicator species such as leatherwood suggest that the upland areas are highly productive for aspen/hardwoods. The lower areas seem to favor a variable mix of aspen, balsam poplar, other hardwood species and spruce/fir, though few areas appear to be wet enough to limit operations..																																						
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17	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.9	70	81-110	N/A	Cut under TS 29-01-01. Mostly sugar maple with red maple & yellow birch throughout on slightly rolling terrain. Basal area is currently approaching 100 sq.ft./acre - Mostly poles but scattered log-size trees are present. Balsam fir along the edges and around the lower spots where water collects. A small pond is included within the stand boundary. This stand is close to reaching the desired basal area to trigger the next selection cut.																																						
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18	710 - Sand, Soil	Nonstocked	1.9		Unspecified	No	Sand/Gravel Pit, Filling in with balm, fir, spruce, & jack pine,																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
19	4130 - Aspen	Poletimber Medium	22.3	25	1-50	N/A	<p>Cut in the mid-90's. Now there is about 20-40 sq.ft./acre of merchantable aspen 5-7" DBH, with a lot of submerchantable stems still in the 3-4" DBH class. Overall the stand appears to be medium-quality aspen and growing as expected. Should become a fully-stocked pole stand by next YOE.</p> <p>The true understory is heavy to sugar maple saplings 6-8' tall, with balsam fir and spruce scattered throughout. Small pockets of merchantable conifers and/or hardwoods are also present, and these pockets generally lack aspen regeneration.</p> <p>The terrain is rolling with predictable changes in species composition - more conifers in the wetter areas, etc. Somewhat steeper ground in the south end near Black Creek.</p> <p>The soils and habitat data suggest that this area could produce reasonably good quality hardwoods if that option is considered in the future.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Quaking Aspen	90	Pole	6	25	Quaking Aspen	Medium		Variable	Sapling
					Sugar Maple	High		Variable	Sapling
					Balsam Fir	Medium	Variable	Sapling	
20	622 - Lowland Shrub	Nonstocked	6.5		Unspecified	Managed Opening	<p>Wet grassy areas and stream channel dropping off the open wetlands to the west and continuing eastward through the adjacent timber stands. The width of the riparian zone varies and includes pockets of timber on ground that is best left undisturbed.</p>		
21	6130 - Fir, Aspen, Maple	Poletimber Medium	5.2	100	51-80	N/A	<p>Poor quality hardwoods, appear to be very slow-growing. Apparently this was partially cut after the YOE 2001 entry, but the somewhat wet ground has made any growth response negligible due to increased blowdown, etc. Operability within the stand looks challenging, and the balsam fir present appears to be the second cohort as the first was either cut or died out on its own.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Red Maple	50	Pole/Log	9	100	Red Maple	Medium		Variable	Sapling
Balsam Fir	37	Pole/Sapling	5		Balsam Fir	Medium		Variable	Sapling
22	4110 - Sugar Maple Association	Sawtimber Well	14.2	100	81-110	N/A	<p>Northern hardwoods thinned last entry. This site is better than it was evaluated as last time (called a poor site) but it appears that prior cutting had probably resulted in less than optimal growth and site utilization. Overall this stand appears to sit on a medium-quality site for hardwood production, and the last thinning has improved the quality of the timber considerably. The basal area is now back up into the mid-90's, and areas where the basal area was reduced to eliminate poor growing stock now feature dense pockets of sugar maple regeneration. 0-3" DBH.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Sugar Maple	89	Log/Pole/XLog	12	100	Sugar Maple	Medium		Variable	Sapling
Basswood	10	Pole/Log	9		Ironwood	Low		Variable	Sapling
					Balsam Fir	Low	Variable	Sapling	
23	4110 - Sugar Maple Association	Poletimber Medium	38.7	66	51-80	N/A	<p>Stand was aspen/hardwood mix but converted to northern hardwoods by cutting the remaining aspen last entry. A few aspen sprouts are present but the hardwood understory is starting to fill in the canopy gaps. As a result crown closure and stand density are still variable but over time the stand should easily become an unevenaged hardwood stand of reasonably good quality.</p> <p>There is a drainage that runs north-south in the eastern half of the stand. It appears to be seasonally wet but important as a vernal ponding area.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Sugar Maple	80	Pole/Log	9	66	Quaking Aspen	Low		5 - 10 feet	Sapling
Red Maple	10	Pole/Log	9		Sugar Maple	High		Variable	Sapling
Black Cherry	10	Pole	8						
24	4110 - Sugar Maple Association	Sawtimber Well	133.7	100	111-140	N/A	<p>Good quality sugar maple on a medium-to-high-quality hardwood site. The terrain is rolling and hilly. Several size classes of both logs and poles are present, with a healthy M3 understory comprised of sugar maple (small poles and saplings) plus ironwood and others.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Sugar Maple	87	Log/Pole	14	100	Sugar Maple	Medium		Variable	Pole
Basswood	8	Log/Pole	16		Ironwood	Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
25	4130 - Aspen	Poletimber Well	67.9	26	81-110	N/A	Young, healthy aspen just reaching merchantable size on hilly, rolling terrain. Some submerchantable aspen stems still growing and may reach merchantable size. Current aspen BA averages 80 sq.ft./acre; a few merchantable sugar maple and balsam fir are also present. In places where the aspen is thin, 4-5" DBH sugar maple is dominant. The understory is dense M3 with sugar maple very dominant.																																																								
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26	4110 - Sugar Maple Association	Sawtimber Well	11.2	70	111-140	N/A	Reasonably good quality hardwood logs & poles on a high-quality hardwood site. Stand's average BA is now between 110-120.																																																								
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27	411 - Northern Hardwood	Poletimber Well	21.8	72	81-110	N/A	<p>Old OI comments: Aspen stand converted to maple, spruce and fir. Leave for old growth, it is surrounded by streams and private land.</p> <p>YOE 2021 - Uncertain of the precise history of this stand but no reasonable access is available at this time. It could be treated if access was developed from the south or southeast, through timber in compartment 97; however that appears to be difficult and the relatively low value of the timber available by doing so makes it improbable.</p> <p>The recommendation to nominate this stand for preservation as Type 2 Old Growth and undisturbed wildlife habitat appears to be reasonable.</p>																																																								
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28	4112 - Maple, Beech, Cherry Association	Sawtimber Well	23.5	90	111-140	N/A	Good quality hardwoods, on a relatively high quality site. Basal area is approximately 117 sq. ft./acre.																																																								
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29	4139 - Aspen, Mixed Deciduous	Poletimber Medium	51.4	44	81-110	N/A	Species composition and density are highly variable with evidence that some cutting has been done in various places throughout the stand, resulting in multiple age classes. Overall, the aspen appears to be in relatively poor condition, balsam fir is falling out, etc. Several size classes of aspen were observed. Signs of trunk rot, break up, blow down, etc.																																																								
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30	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	30.5	80	81-110	N/A	Stand of mixed timber - northern hardwoods represent about 2/3 of the canopy and aspen about 1/4; the rest consists of a few spruce & fir. The understory is heavy to sugar maple with a mix of ironwood and balsam fir, plus a few spruce. Ground cover consists of a variety of ferns, hazelnut and honeysuckle, indicating a site with reasonable potential for medium-to-good quality northern hardwood production.. The evidence on the ground indicates that at least one aggressive partial cut was done prior to the cutting treatment that was applied in YOE 2001.																																												
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31	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.7	60	111-140	N/A	Small stand with a variable mix of timber on sharply rolling terrain, split into two blocks by Black Creek. There is another drainage running from northwest to southeast through the western block that is impassable due to the steep sides. Looks like only parts of this stand were ever cut, as their are pockets on steep-sided ridges that have aspen over 18"DBH, along with red maple & yellow birch logs over balsam fir. Other areas are heavily dominated by balsam fir and scattered spruce, with scattered aspen, red maple and a few paper birch. Age class diversity is present but difficult to determine accurately.																																												
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32	6233 - Wet Meadow	Nonstocked	1.2	0	Unspecified	No	Low, non-forested wet meadow leading into a narrow drainage off the south end of the stand. This drainage crosses eastward through the aspen into a large non-forested wetland complex. Aerial photos suggest that water levels vary significantly throughout the seasons.																																												
33	6220 - Alder/willow	Nonstocked	1.7		Unspecified	No	Man-made ponds - seasonally flooded, filling in with trees and brush.. These serve as water sources for deer etc.																																												
34	4110 - Sugar Maple Association	Sawtimber Well	18.8	80	51-80	N/A	Sugar maple with other hardwoods and a few balsam fir. Reasonably good quality and the site indicators suggest potential for high-quality log production. Last thinned in YOE 2001. Basal area is now generally about 70-100, with an average in the high 80's.																																												
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35	4112 - Maple, Beech, Cherry Association	Sawtimber Well	53.1	90	81-110	N/A	Reasonably good hardwoods with scattered spruce & fir also present on slightly rolling terrain. Many trees 14-16" DBH onsite but the average DBH as shown is fairly accurate. The site is generally a medium-quality hardwood site but there are many areas where the ground is somewhat lower and wetter, and the timber's overall growth rate appears to be slightly lower there. The understory is fairly dense, with the maples and balsam fir the predominant species. Last prescribed & cut from the YOE 2001 inventory. Basal area now varies from about 70 to 110 sq.ft./acre but the overall average is around 93.																																												
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36	6130 - Fir, Aspen, Maple	Poletimber Well	37.2	105	111-140	N/A	Low, very wet area - lots of evidence that this stand is beginning to break up but the ground appears to be virtually inoperable. Slow-growing red maple has become more dominant as the first cohort of spruce-fir and ash have fallen out of the stand. The cedar is generally in pockets, and the second cohort of balsam fir is reaching merchantable size. A few cherry, tamarack and even sugar maple were observed but overall timber quality is not impressive.																																																								
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37	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	11.3	100	51-80	N/A	Cut after YOE 2001 inventory - Poor quality hardwoods, poor wet access. Appears to be very similar to lowland mixed stand to the north that is surrounded by the inoperable lowland timber.																																																								
38	4130 - Aspen	Poletimber Well	35.6	33	51-80	N/A	Cut in 1986. This stand features fairly good quality aspen along with scattered hardwoods and spruce/fir on rolling terrain. The understory is primarily a mix of sugar maple, balsam fir, and various upland and lowland brush species. BA generally falls between 50 - 90 sq.ft./acre in most areas, with an average of about 70. Small (1/4-1/2 acre) upland and lowland openings are scattered throughout the stand, along with one larger grassy opening in the eastern part of the stand. Several unmapped drainages are also present.																																																								
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39	6113 - Lowland Maple	Poletimber Well	15.3	80	81-110	N/A	Hardwoods/aspen with scattered conifers on a lowland site that varies from wet mucky soils to slightly higher ridges of dryer ground. As a result, the species composition, site indices and stand density vary widely from place to place. Overall the timber quality is medium to low. The stand's basal area generally stays around 70-90 sq.ft./acre and canopy closure is variable. There is evidence of unevenaged stand structure. However the site characteristics dictate that evenaged management is a more logical approach, as within-stand access issues/BMP's strongly suggest that blowdown and other problems limit the potential for unevenaged management.																																																								
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40	6112 - Lowland Aspen	Poletimber Medium	22.7	35	81-110	N/A	Cut in '84 - low, wet site operable only under frozen winter conditions. Timber is a mix of poplars (quaking aspen and balsam poplar) plus lowland hardwoods and conifers. Basal area is currently at about 93 sq.ft./acre.																																																								
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41	4110 - Sugar Maple Association	Sawtimber Well	27.9	80	81-110	N/A	High quality sugar maple on very gently rolling terrain. Cut in 1981 and again in YOE 2001. Site indicators suggest high productivity for hardwood logs. Basal area is presently in the high 80's/low 90's, with some areas already up over 100. A few conifers and others such as birch are present near the eastern edge of the stand.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
42	6112 - Lowland Aspen	Poletimber Well	10.2	80	81-110	N/A	Mix of lower-quality sugar maple and overmature aspen on a sight that is best described as a low, flat transitional zone between true upland hardwood habitat and a bottomland site. The size of the large aspen (numerous trees 15-18" DBH and a few larger) indicates that this site will probably grow reasonably good aspen. It appears that the smaller aspen still surviving are now well on their way to falling out of the stand.																																				
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43	500 - Water	Nonstocked	1.7		Unspecified	No	Pond surrounded by wetlands..																																				
44	622 - Lowland Shrub	Nonstocked	0.6		Unspecified	Managed Opening	Wet grassy area and stream channel dropping off the open grasslands to the west and continuing eastward through the adjacent timber stands. The width of the riparian zone varies and includes pockets of timber on ground that is best left undisturbed.																																				
45	4110 - Sugar Maple Association	Sawtimber Well	23.6	100	111-140	N/A	Last selection cut in YOE 2001. Good quality sugar maple with some basswood, red maple and scattered black cherry. Understory density varies widely but overall about an M2. Site indicators suggest a very high quality site and for the most part the timber quality backs this up.																																				
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46	6118 - Lowland Deciduous with Cedar	Sawtimber Well	5.7	105	141-170	N/A	Mixed timber on a low, wet site - might be operable under hard-frozen winter conditions but there would still be BMP issues. Best to keep this stand as undisturbed wildlife habitat, as there isn't much true lowland habitat with cedar on state forest lands in this vicinity.																																				
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47	4130 - Aspen	Poletimber Well	17.2	36	111-140	N/A	Cut around 1982-84. Now a healthy aspen pole stand with sugar & red maple poles mixed in. Balsam fir is pushing its way into the main canopy, but it is not a major component. Basal area is currently averaging around 117 sq.ft./acre. The understory is very heavily dominated by sugar maple anywhere from 0-4" DBH, forming almost pure pockets in some spots.																																				
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48	4110 - Sugar Maple Association	Sawtimber Well	57.8	80	81-110	N/A	Last cut YOE 2001. Medium to good quality hardwood site on rolling terrain, as shown by the presence of ground cover including scattered maidenhair ferns and trilliums throughout, though other ferns and hazelnut etc. are more prevalent. Sugar maple is the dominant tree species in most of the stand. Pockets of lower, wetter terrain feature a mix of ash, elm and red maple along with a few spruce and fir. A few pockets of aspen are surviving as well, but these are breaking up and being replaced by the hardwoods. The understory is dense in most places, and again heavily dominated by sugar maple with a mix of balsam fir and ironwood depending on the terrain and aspect.																																				
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49	4130 - Aspen	Poletimber Well	0.0	44	81-110	N/A	Aspen showing signs of breakup such as conks, blowdown and other progressive mortality. Previous inventory identified the area as having been cut in 1975. The understory is generally dominated by hardwood regen. Ready to harvest now before mortality becomes a major factor. The aspen appears to be mature for this site and merchantable heights are generally 3 - 6 pulpsticks.																																		
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50	4110 - Sugar Maple Association	Sawtimber Well	21.1	70	111-140	N/A	Reasonably good quality hardwood logs & poles on a high-quality hardwood site. Stand's average BA is now between 110-120.																																		
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51	4110 - Sugar Maple Association	Poletimber Well	3.7	100	111-140	N/A	Good quality sugar maple on a medium-to-high-quality hardwood site. Several size classes of both logs and poles are present, with a healthy M3 understory comprised of sugar maple (small poles and saplings) plus ironwood and others.																																		
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52	4130 - Aspen	Poletimber Well	6.9	33	51-80	N/A	Cut in 1986. This stand features fairly good quality aspen along with scattered hardwoods and spruce/fir on rolling terrain. The understory is primarily a mix of sugar maple, balsam fir, and various upland and lowland brush species. BA generally falls between 50 - 90 sq.ft./acre in most areas, with an average of about 70. Small (1/4-1/2 acre) upland and lowland openings are scattered throughout the stand, along with one larger grassy opening in the eastern part of the stand. Several unmapped drainages are also present.																																		
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53	4110 - Sugar Maple Association	Sawtimber Well	24.0	80	81-110	N/A	Last cut in YOE 2001. Basal area now varies from about 60 to 110, with an average roughly 90 sq.ft./acre. Scattered yellow birch, red maple and conifers are also present, and trees of all species up to 16" DBH are scattered throughout. The understory varies significantly from a sparse M1 to a dense M3. Unevenaged structure is still developing in places, and both the ratio of logs vs. poles and the quality of the timber are inconsistent. Overall the site appears to be of medium-to-high quality for hardwood production, so managing for unevenaged timber is a valid choice.																																		
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54	4110 - Sugar Maple Association	Sawtimber Well	7.6	70	81-110	N/A	Good quality northern hardwoods on rolling terrain. Avg. Ba = about 100 sq.ft./acre.																																		
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55	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.4	100	81-110	N/A	Stand has been thinned resulting in unevenaged characteristics. This stand is basically a mix of maples over spruce-fir on slightly rolling terrain. Scattered basswood and cherry are also present. Basal area is presently at about 80 sq.ft./acre. The understory is fully-stocked with a mix of the overstory species but in many areas it leans more toward the conifers.																																										
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56	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.3	100	81-110	N/A	Reasonably good quality sugar maple with a mix of other hardwood species and a spruce-fir component. The terrain is rolling with some seasonally wetter areas. Thinned in the past as recently as YOE 2001. Basal area averages in the low 90's but in places it's still at 60-80.																																										
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57	4130 - Aspen	Poletimber Well	22.8	25	81-110	N/A	Cut in 1994. healthy young aspen - basal area of 5-6" aspen poles now up to 70-90 sq.ft./acre throughout most of the stand. Sugar maple seedlings dominate the understory.																																										
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58	4119 - Mixed Northern Hardwoods	Sawtimber Well	16.3	80	81-110	N/A	Good quality hardwoods developing age class diversity. Average basal area is right at the trigger point at 110 sq.ft./acre, but the stand has just over 20 sq.ft./acre of aspen dispersed throughout that is declining and should be cut before it all falls out. The understory is fairly well stocked with maples up to 4" DBH, and a few paper birch are scattered in the stand.																																										
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59	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.3	80	81-110	N/A	Northern hardwoods on rolling ground, last cut in 1994 - probably with a major emphasis on stand improvement. Average BA is now back up to 97 sq.ft./acre. The yellow birch are relatively poor quality but present good wildlife values; overall the timber appears to be of medium quality. The tree species mix tends to vary somewhat with position on the terrain, and a few paper birch are also present. There is a strong possibility that the quality issues observed are more a result of past management than the site, as the site itself features cobbly sandy loam soil with acceptable drainage and a productive hardwood habitat type (AVO - A/AOC.) This stand may be ready to select cut next entry.																																										
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60	4130 - Aspen	Poletimber Well	20.8	36	111-140	N/A	Cut in approx. 1982-84. Healthy aspen poles with about 1/3 of the canopy made up of sugar & red maples, plus a few scattered cherry, yellow birch etc. Basal area is presently just over 110 sq.ft./acre.																																										
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62	4130 - Aspen	Poletimber Well	13.4	44	81-110	N/A	<p>Aspen showing signs of breakup such as conks, blowdown and other progressive mortality. Previous inventory identified the area as having been cut in 1975. The understory is generally dominated by hardwood regen.</p> <p>Ready to harvest now before mortality becomes a major factor. The aspen appears to be mature for this site and merchantable heights are generally 3 - 6 pulpsticks.</p>																																																								
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63	6113 - Lowland Maple	Poletimber Well	10.9	80	51-80	N/A	<p>Hardwoods with scattered conifers on a lowland site that varies from wet mucky soils to slightly higher ridges of dryer ground. As a result, the species composition, site indices and stand density vary widely from place to place. Overall the timber quality is medium, with much of the sugar maple displaying the poor form typical of that species on a wetter site. Overall the stand's basal area averages around 70 sq.ft./acre but canopy closure is also variable.</p> <p>There is evidence that some partial cutting occurred in the past, resulting in a patchwork stand with an overall unevenaged stand structure. However the site characteristics dictate that evenaged management is a more logical approach, as within-stand access issues/BMP's strongly suggest that blowdown and other problems limit the potential for unevenaged management.</p>																																																								
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64	629 - Mixed non-forested wetland	Nonstocked	1.7		Unspecified	No	Low, wet area with scattered trees and scrub. Ground is very soft and mucky.																																																								
65	6229 - Mixed lowland shrub	Nonstocked	107.3		Unspecified	No	Sprawling wetland/riparian complex with evidence of seasonal flooding in many areas. Ground cover varies from pockets of slow-growing timber to open marshland and rapidly fluctuating ponds. While some areas may afford the opportunity for winter crossings, this complex must be regarded as inoperable ground. Site indices for timber spp. are generally low enough to classify the area as unmanageable for timber production.																																																								



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66	6113 - Lowland Maple	Poletimber Well	51.6	80	51-80	N/A	Hardwoods with scattered conifers on a lowland site that varies from wet mucky soils to slightly higher ridges of dryer ground. As a result, the species composition, site indices and stand density vary widely from place to place. Overall the timber quality is medium, with much of the sugar maple displaying the poor form typical of that species on a wetter site. Overall the stand's basal area averages around 70 sq.ft./acre but canopy closure is also variable. There is evidence that some partial cutting occurred in the past, resulting in a patchwork stand with an overall unevenaged stand structure. However the site characteristics dictate that evenaged management is a more logical approach, as within-stand access issues/BMP's strongly suggest that blowdown and other problems limit the potential for unevenaged management.																																																								
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67	4130 - Aspen	Poletimber Well	8.8	44	81-110	N/A	Cut in 1975. Stand is now about 1/2 aspen and 1/2 hardwood (sugar maple-ironwood) by basal area, though the crown closure demonstrates that the aspen is more prominent in the overstory at this point in time. A few yellow birch are also present plus some scattered balsam fir in the understory. Basal area is variable but generally runs between 80-140 sq.ft./acre.																																																								
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68	629 - Mixed non-forested wetland	Nonstocked	34.5	0	Unspecified	No	Large wetland complex, including ponds, drainages, various lowland plant spp and some inaccessible patches of lowland timber too small to map as separate stands. Inoperable ground but might be crossed in places with proper use of roadbuilding/BMP techniques.																																																								
69	4110 - Sugar Maple Association	Poletimber Well	70.1	70	111-140	N/A	Cut under TS 29-01-01. Mostly sugar maple poles approaching the log size class. Basswood plus paper and yellow birch present throughout plus a few red maple, ironwood and fir.																																																								
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402	3102 - Grass	Nonstocked	2.6		Unspecified	Managed Opening	Last treated with Tordon in 1981. Trees beginning to encroach.																																																								
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406	3102 - Grass	Nonstocked	49.2		Unspecified	Managed Opening	Maintained wildlife opening - some work done by sharecropper as recently as 2015.																																																								
407	3102 - Grass	Nonstocked	3.4		Unspecified	No	Maintained wildlife opening. Some trees present but encroachment is not a major issue at this time.																																																								
408	3102 - Grass	Nonstocked	0.8		Unspecified	No	Small grassy opening.																																																								
409	3102 - Grass	Nonstocked	2.7		Unspecified	No	Grassy opening - WLD may opt to maintain it.																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
410	2113 - Forage Crops	Nonstocked	61.0		Unspecified	Managed Opening	Annual mowing, fertilizing, and openings work done by sharecropper in this opening. FRD: Travis 9/14/06 - Sharecropper field - Bartlett spreads fertilizer in spring that wildlife purchases, and ensures that grass is between 6" and 8" on Sept 1st so as to provide appealing forage to migrating waterfowl. Bartlett mows and bales hay. Gate leading to field is closed on Sept. 1st, and re-opened Nov 10th. each year. Opening is surrounded by private fields to the north, and a wetland complex to south. This field is managed as part of the AuTrain Waterfowl Project. Some areas along the south end appear to be seasonally wet, in association with the variations in the water level of the ponds/lowland areas between this stand and Loud's Spur Rd.
411	3102 - Grass	Nonstocked	3.7		Unspecified	No	Open area, may have been maintained previously by WLD. Some trees encroaching.
413	3102 - Grass	Nonstocked	3.6		Unspecified	No	Grassy opening - the narrow corridor running to the north is now beginning to fill in with trees & brush, especially along the margins.
414	3102 - Grass	Nonstocked	2.2		Unspecified	No	Open grass with a few trees.
415	3102 - Grass	Nonstocked	2.5		Unspecified	No	Open grass with trees encroaching.
416	3102 - Grass	Nonstocked	1.3		Unspecified	No	grassy opening with trees & brush encroaching.
417	3102 - Grass	Nonstocked	2.0		Unspecified	No	Open grass with some trees/brush encroaching.