Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73101
Entry Year 2020
Acreage: 3,569
County Midland
Management Area: Midland-Isabella

Revision Date: 2018-05-14

Stand Examiner: Scott Shooltz

Legal Description:

T 16N, R 01E, Sections 33 & 34; T 15N, R 01E Sections 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 24 & 25; T 15N, R 02E, Sections 18, 19 & 30

Identified Planning Goals:

Compartment 101 falls into the Midland-Isabella Management Area (MA) which is outlined in the Northern Lower Peninsula Regional State Forest Management Plan. Identified planning goals for the MA 10 year planning cycle are: hitting aspen & oak restart targets, partial harvest of lowland hardwood to maintain sustainable forest product flow, identification of manageable land base and promotion of habitat for featured wildlife species.

Soil and topography:

The dominant soil classification is Kingsville Loamy Fine Sand which comprises approximately 42% of the compartment. Lesser classifications are Pipestone Sand (20%), Covert Sand (15%), Kinross Mucky Sand (10%), Belleville Loamy Sand (4%), Oakville Fine Sand (3%), Plainfield Sand (3%) and miscellaneous others (3%). Pipestone and Covert Sand make up the driest areas, Kingsville soils make up the moderate areas and Kinross soils make up the wettest areas. Belleville soils are primarily located along Sturgeon Creek and are the most productive in the compartment. In general the topography can be described as flat with some micro relief in the form of hummocky ground and minor dune ridges. Soils are generally poorly drained to somewhat poorly drained due to low elevation and slow permeability. Covert Sand ridges are well drained.

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

The compartment can be seperated into two distinct blocks both entirely surrounded by private land. This interface equals 24.75 miles. Ownerships around the compartment range is size from hundereds of acres to ten acres. The majortiy of the parcels are forty acres in size. Adjacent properties are predominantly used for recreation. This trend may change however as subdivisions expand outward from the city of Midland. Impacts from this use change have already occurred in the SE portions of the compartment. Other land use trends outside of the compartment include sand/gravel exploration and agriculture.

Unique Natural Features:

Several unique natural features exist within the compartment or have the potential to exist within the compartment. A great blue heron rookery was located in the southern portion of the compartment. The potential exists for sedge (Carex seorsa) on hummocks in lowland deciduous stands, margins of bogs, and buttonbush depressions. Often found at edges of woodland pools or at the lowland/upland border. Potential also exists for Engelmann's spike rush (Eleocharis engelmannii) within the compartment. It occurs in areas with a fluctuating water table such coastal plain marshes, sandy lake edges, dune swales, seepages, sandy and peaty edges of wetlands, and intermittent wetlands.

Archeological, Historical, and Cultural Features:

Several known archeological sites exist within the compartment. There are no management activities prescribed that will interfere with these sites. A historic railroad grade which crosses Sturgeon Creek runs through the northern portion of the compartment.

Special Management Designations or Considerations:

No special management designations or considerations in place or proposed.

Watershed and Fisheries Considerations:

Sturgeon Creek runs most of the way through the compartment. Also present are the Dittmar, Hope and Boyle drains. All of the drains are man made or enhanced and flow into Sturgeon Creek which in turn flows into the Tittabawassee River. Several stands are prescribed along all four water ways this year of entry. No vegetation set backs are required. The Dittmar and Hope will be crossed with harvesting equipment utilizing portable bridges under a permit approved by DEQ. Total waterway crossings equals three, two on Dittmar and one on Hope.

Wildlife Habitat Considerations:

Both upland and lowland systems are present providing suitable habitat for a number of wildlife species. Sturgeon Creek meanders its way across the compartment and contributes good riparian habitat. Game species likely to be present in this compartment include bobcat, raccoon, coyote, wild turkey, ruffed grouse, american woodcock and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redeyed vireo, white-throated sparrow, hermit thrush, red-breasted nuthatch and american woodcock. The compartment is easily accessible to hunters via Hope Road.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located adjacent to the compartment in sections 3 & 10, but sand & gravel potential within the compartment is considered low. This area is predominantly clay with some sand; much of the compartment is covered by wetlands. There is active production from the Dundee Limestone and Berea Sandstone within two miles of the compartment. There are currently no active leases within the compartment, but there has been recent leasing activity in the area. There has been some sparse exploration within the compartment. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access to the compartment is poor. Sturgeon Creek, associated drains, and large flooded areas limit the construction and maintenance of roads. Access points are Hope Rd. south of Bombay; Hope Rd. north of Beamish; east side of N. Stark Rd.; corner of Dublin Rd. and E. Mier Rd.; Dublin Rd. north of Letts. Hope Rd. between the Dittmar Drain and Sturgeon Creek is impassible during the spring. A DNR maintained gate is located at the end of Dublin Rd., north of Letts. The gate was placed to seasonally close the trail system during wet periods of the year. Another DNR maintained gate exists on the west side of Hope Rd. south of Sturgeon Creek. This gate was placed as part of an oil and gas exploration permit and was required to be left to help reinforce road closures in the area.

Survey Needs:

The majority of the compartment corners have been established through the county remonumentation program and private surveys. County remonumentation corners were approved in 2008. The majority of the prescribed treatments will utilize these corners to establish the boundary between state forest land and non-DNR ownerships. Survey needs for this 10 year planning cycle are concentrated in T 16N, R 01E, Sections 33 & 34.

Recreational Facilities and Opportunities:

There are no established recreational facilities in the compartment. Hunting is the primary recreational use. The state lands north of Dittmar Drain are either landlocked or the roads into them are closed. This area shows evidence of use by ORVs and horseback riders. There are no established recreational facilities in the compartment. The state land, overall, is heavily used for hunting. The land south of Dittmar Drain is heavily used by 4x4 trucks or other recreational motorist. Some of these areas are showing signs of extensive resource damage; particularly stand 37 & 173. There are signs of individuals starting to create new trails or breaching berms.

Fire Protection:

Fire start potential throughout the compartment is considered high due to heavy levels of public use and urban interface. The overall fire danger is moderate due to the amount of low, wet terrain throughout the compartment. Catastrophic fire potential is minimal however small fires may get bigger than 10 acres due to access challenges presented by wet terrain conditions.

Additional Compartment Information:

Compartment 101 combines all of old compartments 101, 102, and 103.

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**

Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit **Compartment 101 Year of Entry 2020**

Scott Shooltz : 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	74	49	300	165	286	0	21	0	0	0	0	0	0	0	0	0	0	**895**
Bog	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**180**
Cropland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**3**
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**14**
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**6**
Lowland Aspen/Balsam Poplar	0	0	0	0	46	65	0	0	12	0	0	0	0	0	0	0	0	0	**123**
Lowland Conifers	0	0	0	0	0	0	0	0	0	43	5	0	0	0	0	0	0	0	**47**
Lowland Deciduous	0	0	0	32	42	198	51	230	89	144	79	0	0	0	0	0	0	0	**860**
Lowland Mixed Forest	0	0	0	21	0	0	0	0	0	9	0	0	0	0	0	0	0	0	**30**
Lowland Shrub	287	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**287**
Marsh	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**220**
Mixed Upland Deciduous	0	20	23	29	0	17	0	109	47	25	0	0	0	0	0	0	0	24	**293**
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	**20**
Oak	0	0	112	28	0	66	28	47	0	100	120	39	0	0	0	0	0	0	**540**
Red Pine	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	**3**
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Treed Bog	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**24**
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**5**
Urban	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**
White Pine	0	0	6	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	**10**
Total	**747**	**94**	**190**	**410**	**253**	**632**	**79**	**411**	**151**	**321**	**224**	**39**	**0**	**0**	**0**	**0**	**0**	**24**	**3568**

Cover Type & Treatments Map

Compartment: 101
T16N - R01E Sec. 33,34
T15N - R01E Sec. 02-04,09-15,24,25
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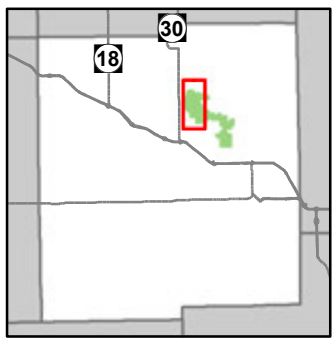
Mgmt Area: Midland-Isabella
YOE: 2020
Acres: 3,569 GIS Calculated
Examiner: Scott Shooltz
Map Revised: 8/22/2018
Map Phase: Post - Maps



N

- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Berms
- Gate
- Culvert
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- 710 - Sand/Soil
- Lakes

Stand Boundary Map

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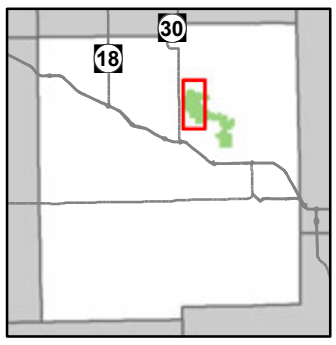

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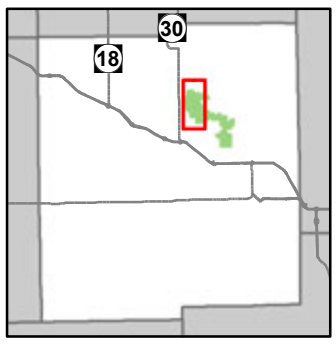

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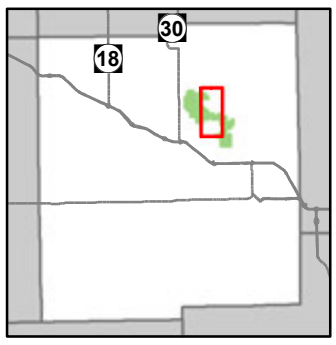

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- 122 - Roads/Parking Lot
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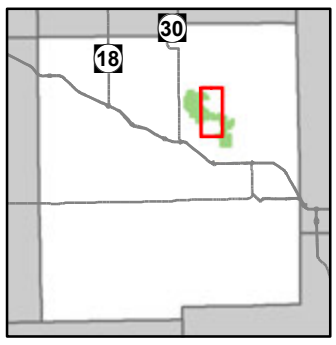

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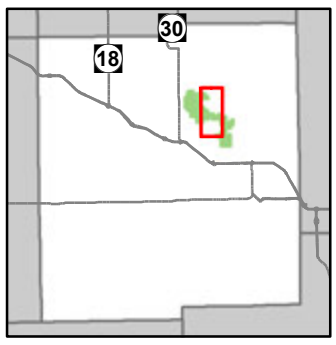

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35 36 01 02 11 12 14 13 23 24

CASSADY BOMBAY STARK HICKS OWENS TRACER SIEBERT BLACKWOOD BEAMISH

43°44'30"N 43°44'0"N 43°43'30"N 43°43'0"N 43°42'30"N 43°42'0"N 43°41'30"N

84°19'30"W 84°19'0"W 84°18'30"W

0 0.5 1 Miles

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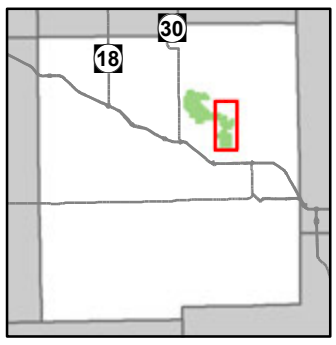

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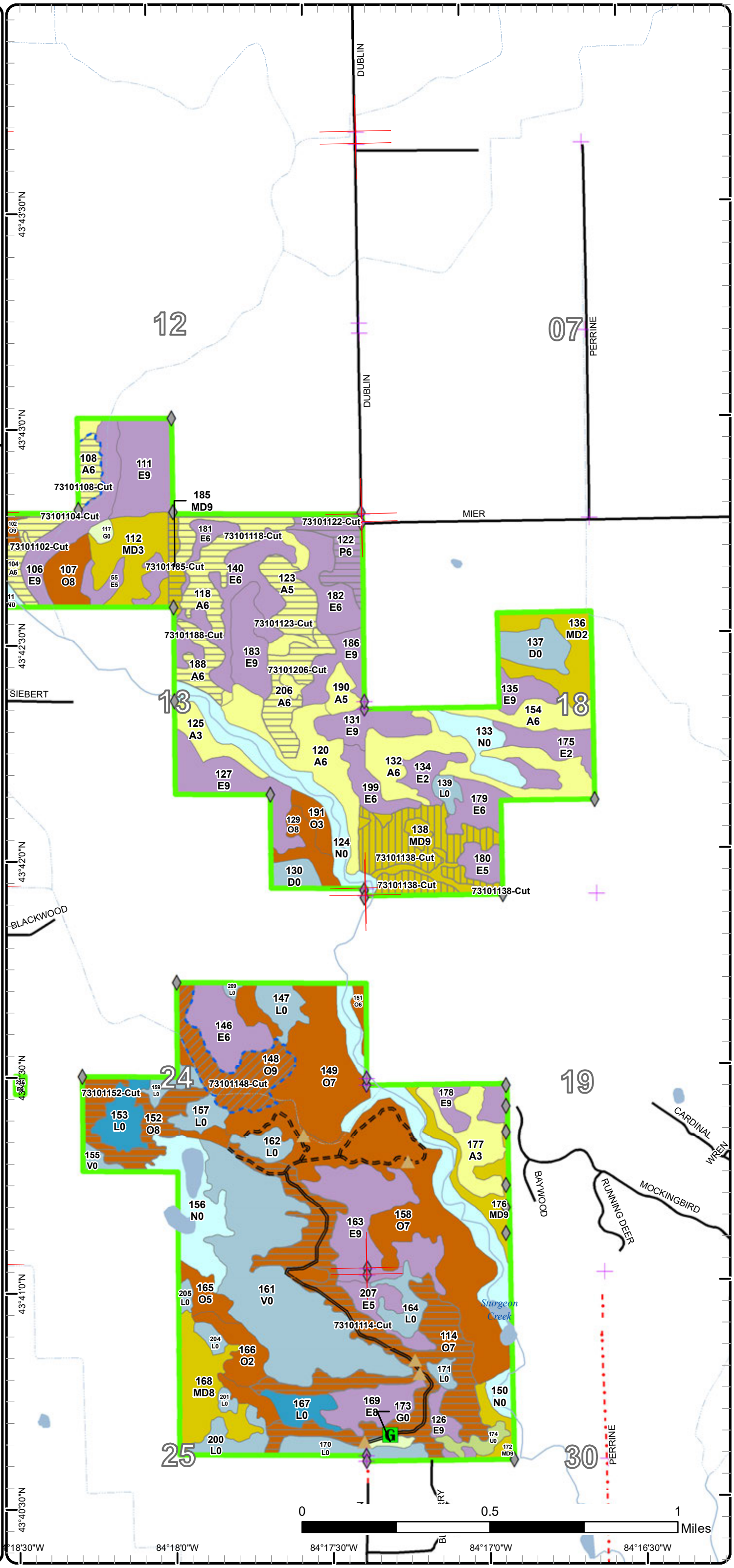

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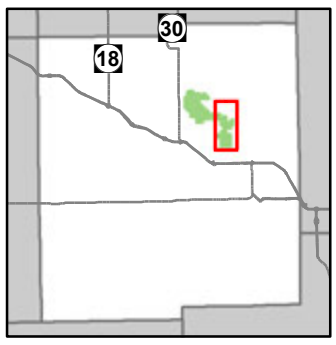

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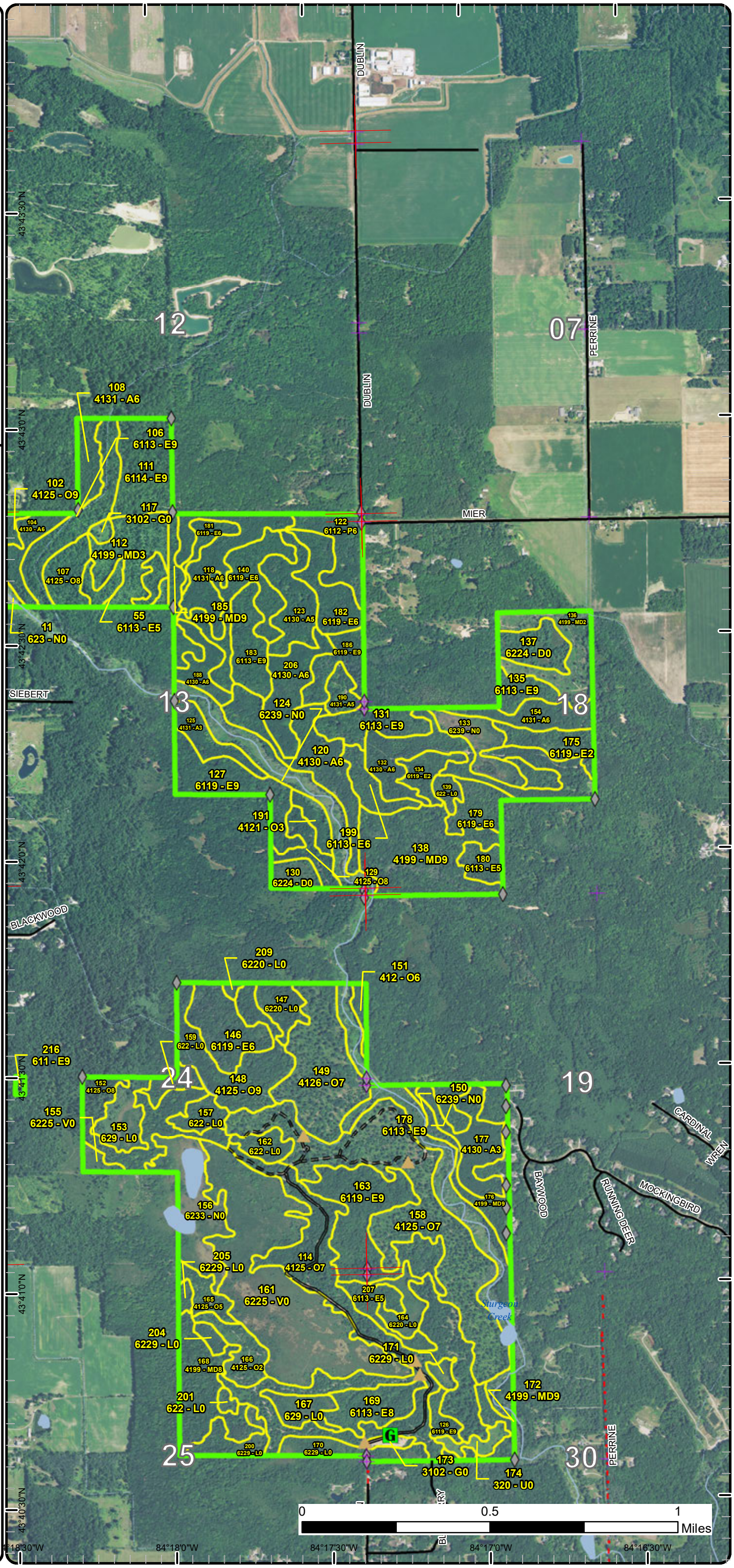

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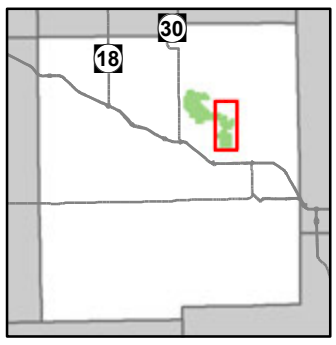

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  - 5C: Delay treatment for age/size class diversity or exceptional site quality
  - 2G: Too wet (sensitive soils, does not include access issues)
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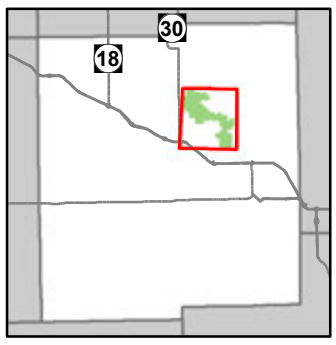
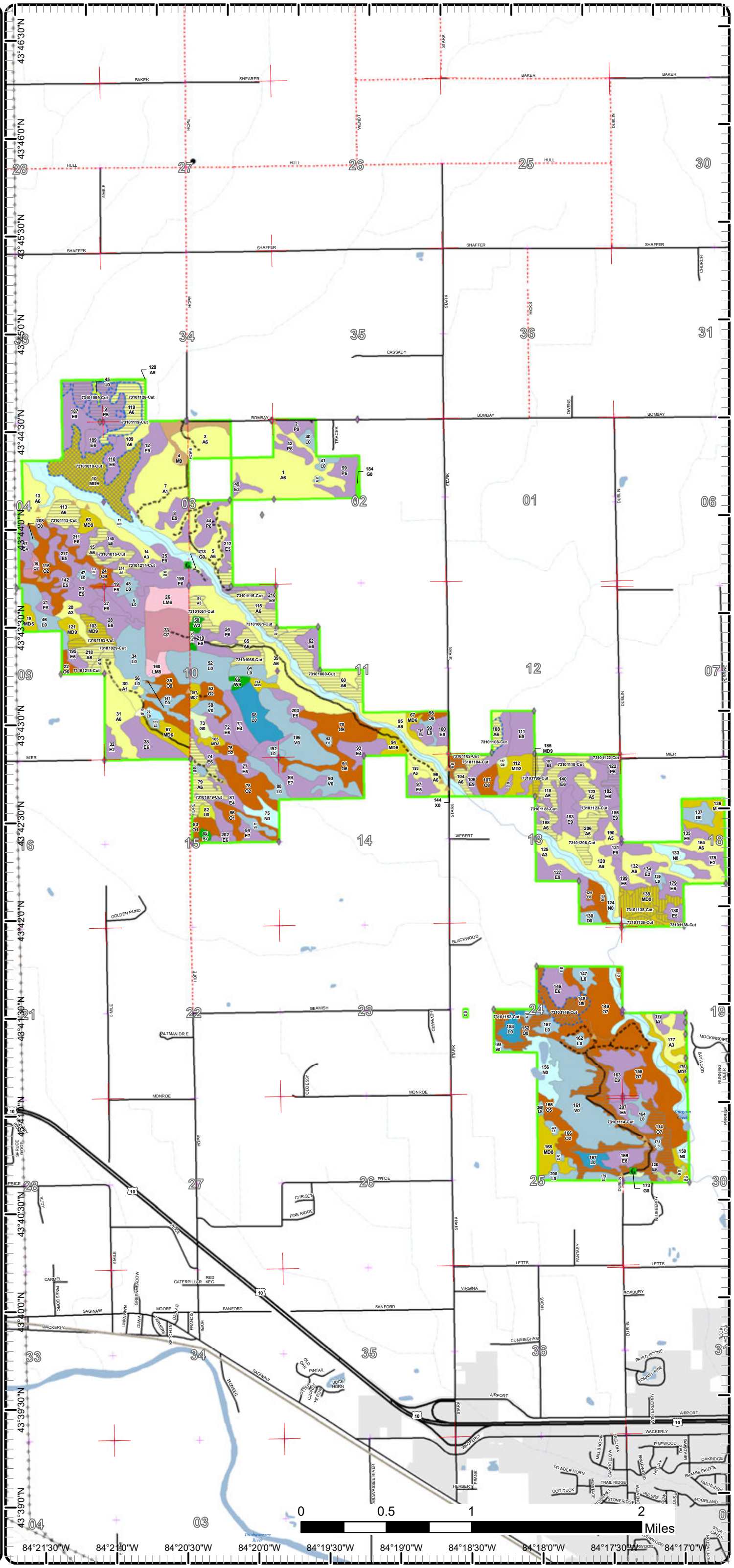
Map Revised: 8/22/2018
Map Phase: Post - Maps



N

- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Berms
- Gate
- Culvert
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- 710 - Sand/Soil
- Lakes



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 101

Total Compartment Acres: 3,569

Commercial Harvest - 433

Harvests with Site Condition - 172

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	294	0	0	0	0	0	0	0	0	**294**
Lowland Aspen/Balsam Poplar	52	0	0	0	0	0	0	0	0	**52**
Mixed Upland Deciduous	21	71	0	0	34	0	0	0	0	**126**
Oak	108	0	0	0	0	24	0	0	0	**133**
Total	**476**	**71**	**0**	**0**	**34**	**24**	**0**	**0**	**0**	**605**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	605	0	0	0	0	0	0	0	0	**605**
Next Step	0	0	0	0	0	0	581	0	0	**581**
Total	**605**	**0**	**0**	**0**	**0**	**0**	**581**	**0**	**0**	**1186**

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
9	73101009-Cut	37.8	6112 - Lowland Aspen	Poletimber Well	42	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition: Portable Bridge Needed**

Prescription Specs: Clear-cut 2" and up. Dry or frozen harvest only. Utilize island retention over single tree retention.

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

Acceptable Regen: A medium to full stocking of aspen, maple, and oak.

Other Comment: Portable bridge required to cross Hope Drain. Harvest acres may vary significantly from inventory acres due to wet ground.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
10	73101010-Cut	71.4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	66	81-110	Harvest	Group Selection	4199 - Other Mixed Upland Deciduous	Uneven-Aged	Approved Proposal

Habitat Cut: No **Site Condition: Portable Bridge Needed**

Prescription Specs: Reduce stand BA to 70. Focus on improving stand form and creating regeneration gaps by targeting poor formed and multi-stemmed trees. Create one 80 foot canopy gap for every two acres.

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

Acceptable Regen: Scattered pockets of maple, oak, and aspen along with released under-story individuals.

Other Comment: Portable bridge required to cross Hope Drain. Dry\frozen harvest only. Apply oak wilt specifications.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
15	73101015-Cut	15.9	4131 - Aspen, Oak	Poletimber Well	40	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention in south end where density is lower. Apply grouse habitat specifications.

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

Acceptable Regen: A moderate to full stocking of aspen, oak, and maple.

Other Comment: Stand is operable during most times of the year. Restrict operations to dry/frozen conditions because of poor access roads. Hope Rd. is impassible during the spring.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
29	73101029-Cut	6.8	4131 - Aspen, Oak	Sawtimber Well	61	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2 inches and up. Leave trace white pine. Utilize standard island retention. Apply grouse habitat specifications.

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

Acceptable Regen: Any mix of aspen, oak, or maple meeting minimum stocking levels.

Other Comment: Dry/frozen harvest due to wet access and seasonally saturated soils.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
51	73101051-Cut	11.7	4131 - Aspen, Oak	Poletimber Well	44	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Leave all pine. Utilize standard area retention. Apply grouse habitat specifications.

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

Acceptable Regen: A medium stocking of aspen, oak, and pine.

Other Comment: Access during dry or frozen conditions due to difficult access and seasonally saturated soils.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
60	73101060-Cut	38.3	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize standard area retention. Dry\frozen harvest only. Apply grouse habitat specifications.

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

Acceptable Regen: Full to medium stocked aspen stand with mixed maple and oak.

Other Comment: Harvest to Sturgeon Creek floodplain bank. Boundary excluded large crown and large diameter trees were possible to provide vertical structure along Sturgeon Creek.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
61	73101061-Cut	5.7	4131 - Aspen, Oak	Sawtimber Well	64	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Dry\frozen harvest only. Apply grouse habitat specifications.

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

Acceptable Regen: Fully to moderately stocked aspen mixed with maple and oak.

Other Comment: No permit required to cross drainage with harvest equipment. Utilize 6 crane mats to cross. Utilize eastern wet E-type inclusion as retention. Boundary exclude large crown and large diameter trees were possible to provide vertical structure along Sturgeon Creek.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
65	73101065-Cut	19.0	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize standard island retention, not to exceed 5% of prescribed area. Apply grouse habitat specifications.

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

Acceptable Regen: A fully stocked aspen stand.

Other Comment: Stand is true upland but access from Hope Rd. will limit operations to dry/frozen conditions unless Hope Rd. is improved.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
79	73101079-Cut	27.7	4131 - Aspen, Oak	Poletimber Well	45	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize standard area retention. Apply grouse habitat specifications.

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

Acceptable Regen: Any mix of aspen, oak and maple meeting minimum stocking levels.

Other Comment: Access is from the north. State boundary does not touch Hope Rd.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
102	73101102-Cut	5.3	4125 - Black, N. Pin Oak	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention around wet area in northwest corner.

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

Acceptable Regen: A medium stocking of oak mixed with maple and aspen. Stand may convert to mixed deciduous.

Other Comment: Narrow hand dug ditch located in the NE corner.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
103	73101103-Cut	16.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	61	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Leave all pine. Dry/frozen harvest due to scattered wet areas and difficult access. Apply grouse habitat specifications. Utilize area retention and place along forested drain. Exclude as much of forested drain from harvest as possible.

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

Acceptable Regen: Any mix of aspen, oak, or maple meeting minimum stocking.

Other Comment: Access is possible from the north via a closed road system however the best option is to forward the wood across the Dittmar Drain with crane mats. DEQ permit will be required. Harvest acres may vary significantly from inventory acres.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
104	73101104-Cut	10.4	4130 - Aspen	Poletimber Well	45	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention along drainage which bisects the stand. Apply grouse habitat specifications.

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

Acceptable Regen: Fully stocked aspen mixed with oak and maple.

Other Comment: Forested drainage should only be crossed in one place. The historic crossing is marked in the mifi reference layer.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
108	73101108-Cut	6.9	4131 - Aspen, Oak	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition: Unknown Access**

Prescription Specs: Clear-cut 2" and up. Leave XL size class oak. Utilize area retention; place at north end, excluding E-type. Apply grouse habitat specifications.

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

Acceptable Regen: Fully stocked aspen stand mixed with oak and maple.

Other Comment: Permission to access through PVT property will be required.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
113	73101113-Cut	16.7	4131 - Aspen, Oak	Poletimber Well	40	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up except leave all white pine. Utilize area retention. Apply grouse habitat specifications.

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

Acceptable Regen: Moderate to full stocking of aspen mixed with oak and maple.

Other Comment: Dry/frozen harvest due to difficult access and seasonally saturated soils within the stand. Hope Rd. is impassible during the spring.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
114	73101114-Cut	81.1	4125 - Black, N. Pin Oak	Sawtimber Poor	85	1-50	Harvest	Clearcut with Retention	4125 - Black, N. Pin Oak	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut two inches and up. Leave all pine. Mark leave trees as needed to help re-enforce road closures. Apply oak wilt restrictions due to the lengthy harvest boundary.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: A medium stocking of oak mixed with aspen, maple, and birch.

Other Comment: Both open and closed roads run throughout the entire stand. Re-enforce road closures with harvest debris. No chipping allowed. Installation of a 24" culvert plus fill, cloth, and gravel along the main trail will be necessary.

Proposed Start Date: 10/1 /2018

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
115	73101115-Cut	27.5	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize standard area retention. Dry\frozen harvest only. Apply grouse habitat specifications.

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

Acceptable Regen: Fully to moderately stocked aspen stand.

Other Comment: Harvest to Sturgeon Creek floodplain bank. Boundary excluded large crown and large diameter trees were possible to provide vertical structure along Sturgeon Creek. Treatment area includes west end of stand 210.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
118	73101118-Cut	23.3	4131 - Aspen, Oak	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention. Apply grouse habitat specifications. Dormant season harvest to promote coppice regeneration.

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

Acceptable Regen: Full to moderate stocking of aspen mixed with maple and oak.

Other Comment: Maybe possible to utilize private road along northern boundary to remove timber. Contact Lawrence Salva.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
119	73101119-Cut	25.4	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition: Portable Bridge Needed**

Prescription Specs: Clear-cut 2" and up. Utilize island retention only, not to exceed 5% of prescribed area. Apply grouse habitat specifications.

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

Acceptable Regen: Any mix of aspen, oak, and maple meeting minimum stocking levels.

Other Comment: Portable bridge needed to cross Hope Drain.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
122	73101122-Cut	14.4	6112 - Lowland Aspen	Poletimber Well	45	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention. Apply grouse habitat specifications.

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

Acceptable Regen: A fully stocked aspen stand mixed with maple and oak.

Other Comment: Harvest dry or frozen to minimize root damage. Harvest acres may vary significantly from prescribed acres due to wet ground.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
123	73101123-Cut	12.8	4130 - Aspen	Poletimber Medium	41	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up except do not cut pine. Utilize area retention around low areas. Apply grouse habitat specifications.

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

Acceptable Regen: Any mix of aspen, oak and maple meeting minimum stocking levels.

Other Comment: Dormant season harvest to promote coppice regeneration.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
128	73101128-Cut	6.7	4131 - Aspen, Oak	Sawtimber Well	66	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition: Survey Needed**

Prescription Specs: Clear-cut 2" and up. Mark 2-3 oak per acre for future mast production and visual management. Apply oak wilt specifications.

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

Acceptable Regen: Any mix of aspen, oak, and maple meeting minimum stocking levels.

Other Comment: No retention due to small stand size. Portable bridge needed to cross Hope Drain. Survey required for private line work.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
138	73101138-Cut	33.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	72	81-110	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Reduce stand BA to an average of 50 square feet. BA will vary depending on prevalence of aspen. Focus on retaining oak and maple. Where aspen is dominant retain less BA. Apply oak wilt specifications. Dry/frozen and dormant season harvest due to sensitive soils and to promote aspen regeneration. Exclude forested drains and wet areas from harvest.

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

Acceptable Regen: A medium stocking of oak, maple and aspen.

Other Comment: South line may need to be surveyed. Locally used corner (SE). Crane mats required to cross large central drainage. Access from the north will require several culverts. No DEQ permits required.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
148	73101148-Cut	24.3	4125 - Black, N. Pin Oak	Sawtimber Well	60	81-110	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition: Portable Bridge Needed**

Prescription Specs: Thin from above reducing average BA to 70 sq. ft. Focus on removing poor formed stems in the oldest age class and aspen in the younger age class. Release crop tree oak and maple were BA allows. Apply oak wilt restrictions.

Next Step Treatments:

Acceptable Regen:

Other Comment: DEQ permit and a portable bridge are required to cross the Dittmar Drain. Establish a new crossing location with stand 148. The drain is relatively narrow with good high ground on either side.

Proposed Start Date: 10/1 /2018

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
152	73101152-Cut	21.9	4125 - Black, N. Pin Oak	Sawtimber Medium	96	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Mark one white oak per acre to leave for mast. Leave trace of pine.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Any mix of oak, maple, and birch meeting minimum stocking levels.

Other Comment: Difficult access from east. Dry/frozen harvest unless improved. Stand is dry enough to harvest at any time of the year.

Proposed Start Date: 10/1 /2018

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
185	73101185-Cut	5.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	80	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention around wet pockets. Dormant season harvest to promote coppice regeneration.

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

Acceptable Regen: Any mix of maple, oak, and aspen meeting minimum stocking levels.

Other Comment: Maybe possible to utilize private road along northern boundary to remove timber. Contact Lawrence Salva.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
188	73101188-Cut	8.6	4130 - Aspen	Poletimber Well	45	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention around forested drains. Apply grouse habitat specifications.

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

Acceptable Regen: Fully stocked stand with a mix of aspen, oak and maple.

Other Comment: Dry/frozen harvest due to difficult access.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
206	73101206-Cut	16.4	4130 - Aspen	Poletimber Well	41	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention and place in wet areas of the stand. Apply grouse habitat specifications.

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

Acceptable Regen: A medium to full stocking of aspen mixed with maple and oak.

Other Comment: Dry/frozen and dormant season harvest due to seasonally saturated soils and to promote coppice regeneration.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
214	73101214-Cut	5.3	4131 - Aspen, Oak	Poletimber Well	40	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention in the form of boundary excluded acres. Apply grouse habitat specifications.

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

Acceptable Regen: A medium stocking of aspen mixed with oak & maple.

Other Comment: Access to stand is dry/frozen dependent unless improved, this includes Hope Rd.

Proposed Start Date: 10/1 /2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
218	73101218-Cut	9.0	4130 - Aspen	Poletimber Well	40	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal

Habitat Cut: No **Site Condition:**

Prescription Specs: Clear-cut 2" and up. Utilize area retention in low areas. Apply grouse habitat specifications.

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

Acceptable Regen: Medium stocking of aspen, maple, and oak.

Other Comment: Dry/frozen harvest due to wet access and seasonably saturated soils.

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed: **605.3**

Report 4 – Site Conditions

Gladwin Mgt. Unit

Scott Shooltz : Examiner

Compartment: 101

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions *2B*	*2D*	*2I*	*5B*	*5C*	2G	3D	3J	5E
894	803	***75***	16	**Aspen**	***34***	***33***	***7***			10			6
180	180	***0***	0	**Bog**									
3	0	***3***	0	**Cropland**			***3***						
14	14	***0***	0	**Herbaceous Openland**									
6	6	***0***	0	**Low-Density Trees**									
122	64	***34***	25	**Lowland Aspen/Balsam Poplar**		***34***				25			
48	0	***43***	5	**Lowland Conifers**				***43***		5			
860	195	***191***	474	**Lowland Deciduous**	***32***	***54***		***56***	***48***	457		17	
30	21	***0***	9	**Lowland Mixed Forest**						9			
287	287	***0***	0	**Lowland Shrub**									
219	219	***0***	0	**Marsh**									
295	189	***91***	16	**Mixed Upland Deciduous**	***14***	***71***		***5***		6	6		4
20	0	***0***	20	**Northern Hardwood**							20		
541	306	***178***	57	**Oak**	***14***	***21***		***143***		5		3	49
3	3	***0***	0	**Red Pine**									
2	2	***0***	0	**Sand, Soil**									
24	18	***6***	0	**Treed Bog**	***6***								
5	5	***0***	0	**Upland Shrub**									
2	2	***0***	0	**Urban**									
4	4	***0***	0	**Water**									
10	10	***0***	0	**White Pine**									
3,569	2,328	***619***	623	Total Forested Acres	***100***	***214***	***9***	***247***	***48***	518	26	20	59
	65%	***17%***	17%	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	Dominant Site 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)**	17	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified

Comments:

Tributary drain to Sturgeon Creek.

2	**Available**	**2D: Portable Bridge Needed (Dept. bridge will be adequate)**	193	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Blocked by Hope Drain and Sturgeon Creek.						
3	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	**Unavailable**	**3D: Recreational / Scenic values**	20	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Visual buffer.						
5	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	8	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
	Comments: East end is too wet, west end is a visual buffer for Sturgeon Creek.						
6	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand is too wet for harvest equipment. Habitat cut to regenerate.						
7	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

8	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	35	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified

Comments:
Dittmar Drain.

9	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	18	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified

Comments:
Dittmar Drain.

10	**Available**	**2I: Survey needed**	7	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified

Comments:
Blocked by Hope Drain and Sturgeon Creek.

11	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	7	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

12	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	10	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Stand is too wet for harvest equipment. Habitat cut to regenerate.

13	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	18	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

14	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	21	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified

Comments:

Boyle Drain.

15	**Available**	**5B: Maintain for regeneration purposes**	11	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Hold ten years. Stand was shelter-wood harvested in 2008 under contract # 73-004-06-01, Seahorse Harvest. The residual BA consisted of 36 sq. ft. of oak and paper birch/aspen den trees. The goal of the harvest was remove the aspen and birch and thin out dense oak pockets.

16	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	11	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

17	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	18	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

18	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	42	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

19	**Available**	**5B: Maintain for regeneration purposes**	19	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified

Comments:

Allow aspen to fall out of the stand as a mechanism for regenerating additional hardwood into the canopy. Portable bridge needed to cross Dittmar Drain.

20	**Available**	**2D: Portable Bridge Needed (Dept. bridge will be adequate)**	21	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

21	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	24	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified

Comments:

Hope Drain.

22	**Available**	**5B: Maintain for regeneration purposes**	43	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

23	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	16	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

24	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	13	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

25	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	13	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

26	**Available**	**5B: Maintain for regeneration purposes**	13	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

27	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	52	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

28	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	53	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

29	**Unavailable**	**5E: Long-Term Retention**	2	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Retention for stand 136 as specified under contract # 73-023-10-01, Dittmar Oak Unit 1.

30	**Unavailable**	**5E: Long-Term Retention**	4	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Retention for stand 149 as specified under contract # 73-023-10-01, Dittmar Oak Unit 2.

31	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	5	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

32	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	30	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

33	**Available**	**5B: Maintain for regeneration purposes**	36	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified

Comments:

Portable bridge utilized during 2012 harvest.

34	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	1	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

35	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	12	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

36	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	6	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Stand is too wet for harvest equipment. Habitat cut to regenerate.

37	**Available**	**5B: Maintain for regeneration purposes**	83	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

38	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	16	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

39	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	16	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Stand is too wet for harvest equipment. Habitat cut to regenerate.

40	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	17	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified

Comments:

41	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	6	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

42	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	10	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Stand is too wet for harvest equipment. Habitat cut to regenerate.

43	**Available**	**5B: Maintain for regeneration purposes**	24	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Hold until 2030 YOE. Stand was select harvested in 2008 under contract # 73-004-06-01, Seahorse Harvest. Residual BA was 75 sq. ft. Of that 52 sq. ft. consisted of good quality red maple and ash and 23 sq. ft. consisted of good quality red and white oak. Higher than average quality oak for the area. 25 BA was harvested from the stand.

44	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	16	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Too wet for harvest equipement. Habitat cut if regeneration required.

45	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	12	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

46	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	9	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

47	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
48	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
49	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
50	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
51	**Available**	**5B: Maintain for regeneration purposes**	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
52	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

53	**Unavailable**	**5E: Long-Term Retention**	5	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

54	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	7	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	2I: Survey needed	Unspecified	Unspecified

Comments:

Boyle Drain is too wide to cross with portable bridge. Best access across OVT is at SW corner.

55	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	10	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

56	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	3	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified

Comments:

57	**Available**	**2I: Survey needed**	3	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Survey required to determine trespass.

58	**Unavailable**	**5E: Long-Term Retention**	4	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

TS #039-95-01

59	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
60	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
61	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
62	**Unavailable**	**5E: Long-Term Retention**	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
63	**Unavailable**	**5E: Long-Term Retention**	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
64	**Unavailable**	**5E: Long-Term Retention**	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

65	**Unavailable**	**5E: Long-Term Retention**	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						
66	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
67	**Unavailable**	**5E: Long-Term Retention**	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
68	**Unavailable**	**5E: Long-Term Retention**	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention for stand 188.						
69	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
70	**Unavailable**	**5E: Long-Term Retention**	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						

71	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
72	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
73	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	38	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
74	**Available**	**5B: Maintain for regeneration purposes**	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
75	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
76	**Unavailable**	**3D: Recreational / Scenic values**	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

77	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
78	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
79	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
	Comments:						
80	**Unavailable**	**5E: Long-Term Retention**	1	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
	Comments:						
81	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	3	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
	Comments: Access blocked by PVT and Sturgeon Creek. Stand is a visual and ecological buffer for Sturgeon Creek.						
82	**Unavailable**	**5E: Long-Term Retention**	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

83	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	10	Unspecified	Unspecified	Unspecified	Unspecified

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

Comments

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4131 - Aspen, Oak	Poletimber Well	94.1	38	51-80	Stand was clear-cut in 1980 under contract # 13-78A. Very good mixed (big tooth and quaking) aspen regeneration. Most of the stand is upland with scattered pockets of P-Type. Aspen diameters are best in low lying areas of the stand. Droughty ridges have adequate stem density but smaller diameters.
2	6112 - Lowland Aspen	Sawtimber Well	11.7	79	81-110	Very wet site, adjacent to road and several homes. Stand is a nice buffer between road and A6 stand to the south. Tag alder/dogwood understory in many places. Marsh grass ground cover. Pockets of overmature aspen; what aspen is left is falling apart.
3	4130 - Aspen	Poletimber Well	34.1	38	81-110	Stand was clear-cut in 1980 under contract # 13-78A.
4	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	20.3	98	111-140	Stand was a buffer for 1980 cut of stand to the south. Upland site but has some low wet pockets. Stand is a nice mix of aspen, white pine, oak and maple. Decided at 2010 YOE pre-review to hold stand. Converting to white pine with a componant of snags.
5	4131 - Aspen, Oak	Poletimber Well	36.5	38	81-110	Stand was clearcut in 1980. Scattered oak and maple were left. Upland sand ridge. South end has best vigor.
7	4131 - Aspen, Oak	Sapling Poor	73.5	4	Immature	SALE CLOSING COMMENTS: The stand was harvested during the period of 12/16/13 and 11/11/14. The western 1/2 of the stand started to regenerate to a mix of aspen, maple and oak post harvest. The eastern 1/2 was harvested in late summer through the dormancy period so regeneration started the following spring of 2015. COMMENTS SPRING 2016: The stand is well on its way to regenerating however the regeneration is patchy. There is also heavy browse on the maple. There are several aspen clones that are doing well. most are in the areas that were harvested during the winter of 13/14. The regen is not as good as the areas that were harvested during the spring and summer months. Currently the average stems per acre is around 770 and is a mixture of oak, maple, aspen, and some scattered white pines. COMMENTS WINTER 2018: Stand is continuing to fill in. Deer browse is present but not significant. Aspen, oak, and maple above 5 feet are at approximately 1,287 stems per acre. Countable aspen, oak, and maple equal approximately 3500 stems per acre. This stand will continue filling in over the next ten years.
8	6114 - Lowland Oak	Sawtimber Well	17.1	95	81-110	Undulations of topography create a mixed E/O stand overall.
9	6112 - Lowland Aspen	Poletimber Well	37.5	42	81-110	Stand was clearcut in 1976. Mix of aspen, red maple, and pin oak. Aspen is somewhat concentrated towards the west end of the stand.
10	4199 - Other Mixed Upland Deciduous	Sawtimber Well	71.4	66	81-110	Two-aged stand but predominately 66 years old. Scattered individual and clump 98 year old oak and maple. Best site index is along Sturgeon Creek because of Bellville soil concentration. Oak ranges from large crown pin oak to gun barrel red oak.
12	6113 - Lowland Maple	Sawtimber Well	24.1	95	81-110	True lowland hardwood stand which contains Hope Drain. Water spills out of Hope Drain in several spots causing oxbows.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4131 - Aspen, Oak	Poletimber Well	32.8	27	Immature	Stand was clear-cut 2 inches and up in1990 under contract # 73-009-89-01, Lost Traverse.
14	4131 - Aspen, Oak	Sapling Well	21.5	18	Immature	Stand was clear-cut 2 inches and up except for oak 4 inches and under. Work was completed in 2000 under contract # 73-005-99-01, Sturgeon Creek 2. Timber was removed through private land to the west. A3 is patchy in places. Oak establishing in the understory. Highest quality is along Sturgeon Creek.
15	4131 - Aspen, Oak	Poletimber Well	15.9	40	81-110	Stand was manually harvested from 1976-78. Stand sits on a covert sand ridge bordered by lowland hardwood. Southern end is less dense with a high proportion of oak and maple.
16	6127 - Lowland Pine	Sawtimber Poor	5.1	96	1-50	Low and wet stand. Canopy closure is close to 25%. Scattered mature trees.
17	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	11.0	65	1-50	Canopy closure close to 25%. Dense lowland brush understory.
18	4199 - Other Mixed Upland Deciduous	Poletimber Medium	7.3	27	Immature	Stand was clear-cut 2 inches and up in1990 under contract # 73-009-89-01, Lost Traverse. East edge mostly oak, center has very scattered aspen. Historic beaver activity present.
19	6113 - Lowland Maple	Poletimber Medium	17.3	61	1-50	
20	4130 - Aspen	Sapling Well	11.4	27	Immature	Stand was clear-cut 2 inches and up in1990 under contract # 73-009-89-01, Lost Traverse. Nice oak in the understory.
21	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	5.8	56	1-50	Low quality lowland hardwood stand. Small red pine sawlog inclusion.
22	4125 - Black, N. Pin Oak	Poletimber Well	5.7	40	51-80	Stand was habitat cut in 1976-78. The majority of the oak was cut at that time resulting in a dominant age of 40. Older aged oak (61)however are scattered throughout the stand increasing average DBH.
23	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	16.1	61	81-110	Wet lowland hardwood drainages mixed with slightly elevated ridges. Stand origin is 1957 however older stems in each species category are scattered throughout the stand. Stand is a mix of saw and pole timber. Upland ridges are predominantly saw class oak. Lowland drainages predominantly consist of pole class maple.
24	4126 - White, Black, N. Pin Oak	Sawtimber Well	13.1	92	51-80	Stand sits on a covert sand ridge bordered by lowland brush and hardwood stands. Previous inventory indicated 50% oak mortality in the north end accompanied by adequate oak regeneration. Mortality has since slowed and the majority of the oak regeneration is now part of the canopy. South half still has an aspen component and mature canopy.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	6113 - Lowland Maple	Sawtimber Well	13.4	62	111-140	Stand borders the Sturgeon Creek floodplain. This stand should be left as a buffer. Surface water flow bisects this stand in the form of intermittent streams and broad based drainages. Areas of this stand are true E-type while other areas resemble a P-Type noted by the presence of quaking aspen. The later are concentrated in the east end. The very northwest end is a dry upland ridge.
26	6139 - Mixed Lowland Forest	Poletimber Well	21.2	25	Immature	Stand was seed-tree harvested in 1993. Roughly 10 BA of residual red pine, white pine, pin oak, and maple remains. Featured stand is the regeneration which is a mix of pine and hardwoods. The pine regenerated in pockets. Stand is lowland with evenly mixed upland knobs.
27	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	13.3	80	51-80	Ridge along old railroad grade is exceptional quality for the area, containing true red oak. The timber was harvested from this pocket in 1957. The rest of the stand is a mix of good quality lowland hardwood along the west border to poor quality mixed deciduous along eastern ridge. Aspen is decadent and has been falling out of the stand for decades. It is concentrated along eastern ridge. A moderate stocking of oak/maple regeneration fills in the gaps. Overall the stand is lowland. Allow stand to progress naturally.
28	6113 - Lowland Maple	Poletimber Well	12.9	30	51-80	Stand is dense lowland hardwood.
29	4131 - Aspen, Oak	Sawtimber Well	7.6	61	51-80	Stand sits on a small ridge. Aspen is declining. Trace of white pine in the canopy.
30	4131 - Aspen, Oak	Sapling Poor	17.8	20	Immature	Age estimated from 1998 DOQ imagery. Sparse aspen clones mixed with scattered oak and maple. Illegal off-road activity throughout the stand.
31	4130 - Aspen	Poletimber Well	33.6	20	Immature	Bisected by defined lowland drainage.
32	6114 - Lowland Oak	Sapling Medium	9.5	20	Immature	Scattered log size oak left along eastern boundary. Pole size oak left throughout. Regeneration is patchy from 1998 harvest.
33	6127 - Lowland Pine	Sawtimber Poor	42.5	82	1-50	Stand was harvested in approximately 2011. Treatment was seed-tree with a residual BA between 20 and 30 sq. ft. Regeneration is sparse and predominantly maple stump sprouts and seed source white pine. White pine is primarily seeding in to dry areas of the stand.
35	4125 - Black, N. Pin Oak	Sawtimber Well	27.7	57	51-80	Stand year of origin is 1961. Older stems still persist and are 18+ inches in diameter. Over the past 10 years birch and aspen stems have fallen out of the stand releasing the oak understory.
38	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	29.8	89	81-110	Stand has two ages. Dominant age year of origin is approximately 1929 and is comprised of mostly swamp white oak in the wettest areas of the stand. The second age year of origin is approximately 1961 and is located on higher areas of the stand, primarily the boundary.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4131 - Aspen, Oak	Poletimber Well	73.5	25	Immature	Stand was clear-cut between '91 and '93 under contract # 73-021-89-01, Sturgeon River Sale. Soil Kingsville Loamy Fine Sand. The stand is regenerating well except for some widely scattered semi open area. The stand is bisected by many wet drainages which flow into Sturgeon Creek. Some drainages are well defined and narrow while others are more broad and less defined.
42	6112 - Lowland Aspen	Poletimber Well	9.7	38	51-80	Stand clear-cut in 1980 under contract # 13-78A. Stand is seasonally wet throughout the year but harvestable. Lowland hardwoods make up the majority of the canopy.
44	6112 - Lowland Aspen	Poletimber Well	15.7	38	51-80	Stand was clear-cut in 1980 under contract # 13-78A. Initial aspen regeneration was sparse, which has allowed the aspen to put on good DBH growth. Maple, birch, and oak have since filled in the gaps but are considerably smaller DBH.
49	6113 - Lowland Maple	Sapling Well	5.7	38	51-80	Low area of mostly red maple and birch. Scattered large diameter oak.
50	42200 - Natural White Pine	Sapling Well	6.0	10	Immature	Stand was seed-tree harvested in 2008 under sale name Seahorse Harvest; Sale # 73-004-06-01. The residual BA was 10 sq. ft. of red pine. Stand was prescribed to be burned pre-harvest but this never occurred. Stand has since filled in with a fairly even distribution of pine/oak regeneration which exceeds pine stocking requirements.
51	4131 - Aspen, Oak	Poletimber Well	11.7	44	51-80	Stand was habitat cut in April of 1974. Stand sits on an upland ridge of covert sand, leveling out to pipestone sand flats along its borders. Stand is a mix of oak, aspen, and pine. The pine readily seeds into this area and is present in the understory.
53	4125 - Black, N. Pin Oak	Sapling Medium	10.8	19	Immature	Harvested under TS #039-95-01. Clear-cut 11/99. Soil Covert Sand. Stand has not regenerated well with the best regeneration in the west half. Comprised of mainly oak with only patches of aspen in it.
54	6112 - Lowland Aspen	Poletimber Well	12.7	45	51-80	Stand was habitat cut in January of 1973. Aspen is poor quality overall. Site is best suited for lowland hardwood species.
55	6113 - Lowland Maple	Poletimber Medium	8.8	53	1-50	Stand was harvest to a 6" DBH prior to 1995 when it was purchased. Residual stems appear to be growing well. Regeneration from that harvest was primarily lowland brush.
57	4199 - Other Mixed Upland Deciduous	Poletimber Well	17.2	20	Immature	Aspen is concentrated along trail road which runs along a sand ridge. Lowland swath bisects stand center east to west. Stand just transitioning to pole timber.
59	6112 - Lowland Aspen	Poletimber Well	20.7	38	51-80	Stand was clearcut in 1980 under contract # 13-78A. Stand is mostly quaking aspen and red maple poles but includes a pocket of oak and pine sawlogs in the NE corner and red maple sawlogs in the SE corner. Water has been artificially backed up in this stand by a man made berm. The berm appears to be historic in nature.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4130 - Aspen	Poletimber Well	43.6	45	81-110	Stand was habitat cut in February of 1973. The terrain varies a fair amount and goes from level to rolling. The site index changes a fair amount as well ranging from excellent to good. Overall the stand is a high quality aspen stand.
61	4131 - Aspen, Oak	Sawtimber Well	7.0	64	111-140	Buffer stand left when surrounding stands were habitat cut. West side contains high quality red oak. East side is primarily aspen. South boundary is a well defined forested drain approximately 20 Ft wide.
62	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	12.1	45	51-80	Stand was habitat cut in February of 1973. This stand is low and wet except for along the east edge and a narrow ridge in the center. There is a heavy amount of tag alder along the west edge. The over-story is mainly red maple and pin oak with scattered aspen.
63	4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.8	63	81-110	Stand is split between sand ridge and lowland drainage. The western half is a ridge and the eastern is lowland. This stand was harvested around 1955. The residual from that harvest today amounts to approximately 20 - 30 square feet of BA and is a mix of white oak, n. pin oak, black oak, and white pine. The regeneration from that harvest is now log/pole maple and black oak in the east and log/pole n. pin oak in the west. The aspen has fallen out of the western portion of the stand but remains in the east. True red oak in the east end.
65	4130 - Aspen	Poletimber Well	19.0	44	81-110	Stand was habitat cut in April of 1974. Topography is a covert sand ridge.
66	42200 - Natural White Pine	Sawtimber Well	4.4	64	141-170	Isolated pine pocket. Stand has decreased in size due to beaver flooding, relegating the stand to just it's upland portions.
67	4199 - Other Mixed Upland Deciduous	Poletimber Well	5.5	45	51-80	Stand was habitat cut in February of 1973. This stand is on a ridge and is made up of mainly black, and pin oaks. There is some scattered aspen in the stand. The ground cover is bracken fern.
70	4125 - Black, N. Pin Oak	Poletimber Well	34.1	45	51-80	Stand was habitat cut in February of 1973. Soil is predominantly Covert Sand. Scattered low pockets and drainages throughout the stand.
71	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	17.7	69	1-50	Soil Pipestone Sand. Stand has scattered swamp white oak in it mix with some maple. Ridge of upland along drain. Very diverse stand in regards to tree diameter and age. Most likely due to heavy beaver activity over time.
72	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	13.5	35	51-80	Stand was most likely habitat cut with stands to the west. Aspen is sparse and noticeably larger in diameter than other species. Regeneration took approximately ten years to fill in.
74	6113 - Lowland Maple	Poletimber Well	9.9	45	1-50	Stand was habitat cut in January of 1973. Soil Pipestone Sand. Stand is mainly made up of maple and swamp white oak. The brush is mainly tag alder which is over marsh grass.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	4125 - Black, N. Pin Oak	Sapling Medium	7.3	19	Immature	Harvested under TS #039-95-01. Clear-cut 11/99. Soil Pipestone Sand. Stand has not regenerated well. Sparsest in the center of the stand; gradually becoming more dense out towards the edges.
77	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	6.4	40	1-50	Lowland stand with a high percentage of dead ash poles.
78	4125 - Black, N. Pin Oak	Sapling Medium	33.2	19	Immature	Harvested under TS #039-95-01. Clear-cut 11/99. SOIL PIPESTONE SAND. The Aspen in the stand has not regenerated. Primary regeneration is from sparse oak stump sprouts. Medium density of oak below 5ft in the understory which will eventually overcome browse pressure.
79	4131 - Aspen, Oak	Poletimber Well	27.7	45	51-80	Stand was habitat cut in February of 1973. Soil Covert Sand. Stand varies in density from sparse aspen to A6.
81	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	17.6	45	1-50	Stand was habitat cut in 1973. The brush in the stand is a mix of tag alder and dogwood. Stand will continue to fill in over the next 10 years.
83	4125 - Black, N. Pin Oak	Sapling Poor	10.1	10	Immature	Stand was clear-cut in 2008 under contract # 73-004-06-01, Seahorse Harvest. Dryest along the north edge becoming progressively more wet towards the south. Stand is accessed from the north because Hope Rd. lies west of the section line. Total aspen regeneration failure.
84	6114 - Lowland Oak	Sawtimber Poor	7.4	50	1-50	Sparse lowland oak stand with mixed lowland brush/oak understory.
85	42210 - Natural Red Pine	Sawtimber Poor	2.7	75	1-50	Seed-tree harvested in 2008 under contract # 73-004-06-01, Seahorse Harvest. The stand was a R9 prior to harvest. The stand was marked down to 25 BA and was prescribed to be burned pre-harvest. Burn never occurred. Red pine seedlings are scattered throughout the understory at low density.
86	4125 - Black, N. Pin Oak	Sapling Poor	15.5	19	Immature	Harvested under TS #039-95-01. Clear-cut 11/99. Soil Covert Sand mixed with Pipestone. The Aspen in the stand has not regenerated leaving only sparse oak and maple regeneration. Stand will remain sparse without intervention.
89	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	34.8	75	1-50	Soil Pipestone Sand. Stand was most likely habitat cut as part of Deer Range Improvement. Canopy closure will most likely be reduced over the next several decades as the aspen component falls out.
91	4125 - Black, N. Pin Oak	Poletimber Medium	25.6	45	51-80	Stand was habitat cut in February of 1973. Pin oak is two-aged; the older age class is 1943 origin. Soil Covert Sand.
93	6113 - Lowland Maple	Poletimber Poor	17.5	69	1-50	Stand is low and wet with lots of tag alder.
94	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.7	45	51-80	Stand was habitat cut in February of 1973. This stand is an area of higher ground. At present the stand appears to be healthy.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
95	4131 - Aspen, Oak	Poletimber Well	24.4	25	Immature	Stand was clear-cut between '91 and '93 under contract # 73-021-89-01, Sturgeon River Sale.
96	4139 - Aspen, Mixed Deciduous	Poletimber Well	13.2	29	Immature	Stand was harvested in 1989 under contract # 73-016-89-01, Stark Road Again. All trees were cut 2 inches and up.
97	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	12.0	60	1-50	Stand is low and wet. The brush in the stand is a mix of gray and red dogwoods with tag alder and is concentrated in the west half. The trees in the stand are mainly black and pin oaks mixed with maple. Aspen 4 inches and up were removed from this stand in 1989 under contract # 73-017-89-01, Stark Road Cleanup. Only aspen regeneration from that harvest is in the NE. Soil Kingsville Loamy Fine Sand.
98	4121 - Oak, Aspen	Poletimber Well	5.0	25	51-80	Stand was clear-cut between '91 and '93 under contract # 73-021-89-01, Sturgeon River Sale. This stand is on a ridge and is made up of mainly black, and pin oaks. Scattered older stems of oak present.
100	6114 - Lowland Oak	Sawtimber Medium	9.0	62	1-50	Stand had the aspen removed between '91 and '93 under contract # 73-021-89-01, Sturgeon River Sale. The trees in the stand are a mix of red maple regeneration under oak and maple residual . Soil Kingsville Loamy Fine Sand.
102	4125 - Black, N. Pin Oak	Sawtimber Well	6.2	60	81-110	Stand was habitat cut in January of 1973. Stand is an oak pocket which was left. Northwest corner is wet.
103	4199 - Other Mixed Upland Deciduous	Sawtimber Well	16.0	61	51-80	Slight upland ridge bisected by a broad based forest drain in the north and west. Dittmar Drain is southern boarder. Red pine is a mix of Log/XLog parent trees and 61 year old seed source trees. Stand origin is 1957 with scattered older stems of oak , maple, and pine.
104	4130 - Aspen	Poletimber Well	10.7	45	111-140	Stand was habitat cut in January of 1973. Productive aspen site. A drainage bisects the stand in the north end. Historic crossing noted in mifi reference layer. North end big tooth dominated; south end mixed with quaking.
105	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	6.1	67	1-50	Sparse oak/ maple plain. Visual buffer left during adjacent harvests.
106	6113 - Lowland Maple	Sawtimber Well	20.5	92	51-80	Stand is in a low wet flat along the Boyle Drain. It is prone to flooding mainly because of beaver activity.
107	4125 - Black, N. Pin Oak	Sawtimber Medium	10.9	60	51-80	Previous inventory put the year of origin at 1921. Currently that age only applies to a handful of scattered large diameter oak. Current age is origin 1958 and is represented by the majority of the residual oak and all of the residual aspen and birch. Stand was shelter-wood harvested in 2008 under contract # 73-004-06-01, Seahorse Harvest. The residual BA consisted of 36 sq. ft. of oak and paper birch/aspen den trees. The goal of the harvest was remove the aspen and birch and thin out dense oak pockets.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
108	4131 - Aspen, Oak	Poletimber Well	8.6	46	81-110	Stand was habitat cut in November of 1972 except the north few acres which is an E-type. South half of the stand is productive aspen. Access to the stand is blocked by PVT and Boyle Drain.
109	4130 - Aspen	Poletimber Well	8.2	27	Immature	Stand clear-cut in 1991 under contract # 73-007-91-02. North end drier than south end of stand.
110	6113 - Lowland Maple	Poletimber Well	13.3	64	81-110	Primary year of origin is 1954. Second year of origin is 1920 and consists of scattered log size swamp white oak and red maple. The older age class used to consist of aspen and ash. These have since been reduced through decadence and harvest.
111	6114 - Lowland Oak	Sawtimber Well	23.9	74	51-80	Stand was select harvested in 2008 under contract # 73-004-06-01, Seahorse Harvest. Residual BA was 75 sq. ft. Of that 52 sq. ft. consisted of good quality red maple and ash and 23 sq. ft. consisted of good quality red and white oak. Higher than average quality oak for the area. 25 BA was harvested from the stand. The soils are moist (Kingville loamy fine sand) with numerous vernal ponds and broad based drainages. 2018: regeneration is 2 to 5 Ft high. Allow regeneration to become more established before re-entering stand.
112	4199 - Other Mixed Upland Deciduous	Sapling Well	22.5	10	Immature	Stand was clear-cut in 2008 under contract # 73-004-06-01, Seahorse Harvest. Oak were removed down to a 4" DBH and all other species were cut to a 2" DBH. Oak residual is most dense in the NE corner. Stand was originally cut to a 6" DBH when it was purchased in 1995 but did not regenerated well. Mostly upland with small amounts of wetlands associated with adjacent E-types.
113	4131 - Aspen, Oak	Poletimber Well	16.7	40	81-110	Stand was manually harvested from 1976-78. East end of the stand is a dry covert ridge with pin oak and white pine. The west end is lower and growing decent aspen.
114	4125 - Black, N. Pin Oak	Sawtimber Poor	88.3	85	1-50	This stand was harvested as a shelter-wood harvest in 2002 under contract # 73-021-00-01, Dublin Oak. Approximately 40 sq. ft. was removed from the stand leaving 30 sq. ft. of residual oak and red pine. All aspen, red maple, and paper birch were harvested. Prior to harvest there was an abundance of oak regeneration under 3 ft. The regeneration in the stand is good and is overall an O3. The stand also has a component of white pine much of which is being degraded by weevils. The red pine in the stand is doing much better. Previous inventory featured the under-story as the stand when in actuality the parent stand occupies upwards of 50% crown closure.
115	4130 - Aspen	Poletimber Well	23.5	45	81-110	Stand was habitat cut in February of 1973. The terrain varies a fair amount and goes from level to rolling. The site index changes a fair amount throughout the stand with the best index along Sturgeon Creek.
116	4125 - Black, N. Pin Oak	Sapling Medium	35.0	18	Immature	Stand was clear-cut 2 inches and up except for oak 4 inches and under. Work was completed in 2000 under contract # 73-005-99-01, Sturgeon Creek 2. Timber was removed through private land to the west.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
118	4131 - Aspen, Oak	Poletimber Well	23.3	45	81-110	Stand was habitat cut in January of 1973. Stand is mainly big tooth aspen. Stand sits on a narrow ridge. Site index is noticeably lower at the ridge top compared to the bottom.
119	4130 - Aspen	Poletimber Well	25.4	42	51-80	Stand was clear-cut in 1976. Mix of pin oak, sparse white pine, aspen and red maple poles. The oak in the stand is comprised of multiple ages suggesting it was left in 76 harvest. Stand is closer to 75% crown closure. Topography is a dry sandy ridge bisected by minor forested drainages and depressions.
120	4130 - Aspen	Poletimber Well	27.1	22	Immature	The stand is a well stocked aspen stand. There is some oak regeneration as well as lowland hardwood. The ground cover is mainly bracken fern. Several feeder streams of the Sturgeon flow through the stand.
121	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.9	61	51-80	Stand wasn't harvested during 1998 YOE due to wet ground and sensitive soils. Most of the aspen has since fallen over. Stand should be managed for oak and white pine, as site productivity is low and not suitable for aspen. Small two acre patch at the north end was habitat cut between 1976 - 78.
122	6112 - Lowland Aspen	Poletimber Well	14.4	45	111-140	Stand was habitat cut in January of 1973. Stand is fairly moist and is mainly a mix of trembling aspen and red maple.
123	4130 - Aspen	Poletimber Medium	17.7	41	1-50	The north end contains a .5 acre red pine stand that has suffered some blow down. The stand is on a ridge and has areas of A4/A5 mixed with areas of A6.
125	4131 - Aspen, Oak	Sapling Well	9.4	19	Immature	The stand is regenerating well and has a fair amount of oak. The oak is mainly black oak and is concentrated more on the top of the ridge. Beaver activity reducing aspen component.
126	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	5.7	84	51-80	The stand is a low depression between two oak ridges. The ground in the stand is hummocky with areas of standing water mixed with scattered oak knobs. The white oak in the stand is swamp white oak. The ground cover in the area is a mix of shrub and sensitive fern so the area is quite wet. The main soil type under the stand is Belleville
127	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	22.4	65	81-110	Borderline upland. West side of the stand is an upland knoll. Stand has a fair amount of wind-throw in isolated areas. Scattered large individuals are 1927 origin but vast majority of the stand is 1953 origin.
128	4131 - Aspen, Oak	Sawtimber Well	6.7	66	81-110	Stand is a buffer strip that was left during 76 cutting. Parent stand to stand 119. Buffer was most likely left due to lack of survey corners.
129	4125 - Black, N. Pin Oak	Sawtimber Medium	8.8	88	51-80	Stand sits on a sand ridge. Could be classified as two-aged because some sort of harvest or disturbance took place around 1953 which regenerated some sparse aspen and released some understory oak. Because the oak is predominantly 1943 origin and older plus the aspen component is small, the stand was coded as even-aged. Mortality has slowed since previous inventoried. Was mostly attributed to the aspen falling out of the stand. There is a fence along the private that appears to be well maintained.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
131	6113 - Lowland Maple	Sawtimber Well	13.6	86	81-110	A well defined forested drain bisects the stand. There are also slight knolls that have a higher percentage of aspen and oak. The aspen in the stand has a low percentage of soundness except for in the far west end. Stand is entering the gap phase dynamics stage which should naturally increase understory composition.
132	4130 - Aspen	Poletimber Well	34.0	26	Immature	This stand is a portion of a larger partent stand which was clear-cut 2 inches and up in 1992 under contract # 73-042-90-01, Mier Road Sale. The stand has regenerated as an aspen stand mixed with red maple, oak and paper birch. The aspen in the stand is a mix of bigtooth and trembling aspen. Paper birch is a significant component in the stand were it is wetter and along the main trail. The main soil types are Covert.
134	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	7.6	26	Immature	This stand is a portion of a larger partent stand which was clear-cut 2 inches and up in 1992 under contract # 73-042-90-01, Mier Road Sale. The stand has regenerated as a lowland mixed stand comprised of red maple, oak and paper birch. There is a single aspen clone in the center of the stand. Overall the stand is medium stocked; dense sapling areas mixed with lowland brush openings. The main soil types are Covert and Pipestone.
135	6113 - Lowland Maple	Sawtimber Well	7.4	77	51-80	Stand grades from upland aspen/oak in the west to lowland maple in the east. The aspen in the stand has a low percentage of soundness and will not regenerate well. The maple in the stand is just reaching log class.
136	4199 - Other Mixed Upland Deciduous	Sapling Medium	20.4	6	Immature	The stand has inclusions of low wet ground. When the stand was harvest some oak and pine were retained. The north east coner of the stand is down off a ridge and it is wetter. The main soil type is Covert. The stand was harvested under Ditmar Oak Sale # 73-023-10-01. The sale was not chipped. Comment 2016: The stand has regenerated well. The mix of species is heavy to oak. There is scattered aspen, maple, and white pine. The terrain is undulating. The Trail to the stand has been cleared.
138	4199 - Other Mixed Upland Deciduous	Sawtimber Well	42.4	72	81-110	The stand is slightly undulating with ridges and knolls as well as shallow hummocky swales. Site productivity varies from good to medium. Best site index is along Sturgeon Creek. The aspen in the stand is holding well for its age but the presence of root suckers in the stand suggests decline may quicken. Several well defined forested drains bisect the stand. This stand was created as a leave stand during the 1990 YOE. Stands to the north were clear-cut and regenerated well. Regenerating aspen may prove difficult now. The main soils are a mix of Covert and Kingsville.
140	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	27.1	45	51-80	Stand was habitat cut in January of 1973. This stand is a low wet depression. It is heavy to tag alder and willow in the understory. The over-story is mainly red maple and paper birch.
142	6113 - Lowland Maple	Poletimber Medium	8.4	81	Unspecified	Lowland brush with mixed lowland hardwood.
143	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	4.7	25	Immature	Stand is filling in with white pine. Scattered older stems of oak. Soil Covert Sand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
145	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	15.5	40	81-110	Stand was manually harvested from 1976-78. Inclusions of non-forested L-type. Moderate density of well formed, single stemmed hardwood.
146	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	19.1	60	51-80	The stand is wet with a lot of standing water in the spring. The ground cover is Michigan holly with pockets of bracen fern knolls. There are inclusions of L-type in the stand as well as slight knolls of oak. The main soil is Kinross.
148	4125 - Black, N. Pin Oak	Sawtimber Well	30.4	60	81-110	Two-aged stand located on a slight ridge. Oldest year of origin is 1928 and was taken from previous inventory data. This age class is represented by large crown, poor formed white oak, red maple, and n. pin oak scattered throughout and averaging 40 BA of the stand. The primary year of origin is 1958 which is represented by log/pole class n. pin oak, maple, and trembling aspen. BA for this age class averages 60.
149	4126 - White, Black, N. Pin Oak	Sawtimber Poor	39.3	100	1-50	The species composition has more oak and aspen in it along Sturgeon Creek and goes to more maple along western border. Eastern side of the stand has numerous draws that drain into the Sturgeon. The stand is land locked between Sturgeon Creek, Dittmar Drain, and private land. The Dittmar Drain was buffered by 25 feet taking it to the base of the spoil piles. The main soil type is Covert. Portable Bridge was put in and stand was havested in the fall and winter of 2011 in the sale Dittmar Oak; sale # 73-023-10-01. This stand is doing well. Regeneration is primarily stump sprout origin. There is also a component of aspen present in the stand. The Residual BA is around 16 sq. ft. and it looks healthy. There is some ORV traffic in the stand but it is not heavy. They are coming in from the south, crossing the creek at the temporary bridge location. The regeneration is successful.
151	412 - Oak Types	Poletimber Well	2.9	88	81-110	This stand is mainly a buffer along Sturgeon Creek with a small stand at the southern end. The main soil is Belleville.
152	4125 - Black, N. Pin Oak	Sawtimber Medium	24.4	96	51-80	The stand is mostly on a sand ridge. Historically the stand had a high percentage of oak mortality. Most of the dead oak has been harvested by private landowners to the west and north of the stand. There are numerous cut stumps present in the area. Between the timber theft and the oak mortality, the stand has taken on the characteristic of a shelter-wood harvest and it is regenerating well. The canopy oak ranges from 96 to 75 with younger pole class timber scattered. The main soil under that stand is Covert.
154	4131 - Aspen, Oak	Poletimber Well	12.8	26	Immature	This stand is a portion of a larger partent stand which was clear-cut 2 inches and up in 1992 under contract # 73-042-90-01, Mier Road Sale. Dense stand of aspen regeneration mixed with red maple, oak and paper birch. The main soil types are Covert and Pipestone.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
158	4125 - Black, N. Pin Oak	Sawtimber Poor	83.1	91	1-50	The stand is a matrix of ridges and swales especially in the south end of the stand. Because of this, there are some very wet areas included in the stand as well as some drainages. The area was harvested 4 inches and up in 1993 (contract # 73-043-90-01 Dublin Road Sale), all oak and pine trees were retained. The stand was then seed-tree harvested in the fall and winter of 2011 under contract # 73-023-10-01, Dittmar Oak. The sale was set up to minimize damage to advance regeneration by cutting 4" DBH and up. Stand has good stump sprout regeneration in pockets while other areas are still fairly sparse. Current height is >5'. The Residual BA is around 18 square feet. Deer Browse is not bad. Most of the regeneration is tall enough to be out of browse range. The heaviest dear browse is near the creeks.
160	6139 - Mixed Lowland Forest	Sawtimber Medium	9.3	81	81-110	Stand is characterized by scattered upland knolls surrounded by lowland drainages. White and red pine appear to be natural.
163	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	38.4	83	51-80	The stand is low and wet overall; located in a depression between ridges. Within the stand boundaries, the ground is a matrix of low ridges and shallow swales. There are also inclusion in the stand of lowland brush and oak knobs. The main soil type is Pipestone.
165	4125 - Black, N. Pin Oak	Poletimber Medium	7.0	25	Immature	Stand had the over-story removed in 2002 under contract # 73-021-00-01, Dublin Oak. Scattered red pine were left for seed source, diversity, and visual. Prior to harvest existing regeneration was deemed adequate. The regeneration was established under contract Dublin Swamp North (73-038-93-02).
166	4125 - Black, N. Pin Oak	Sapling Medium	10.7	25	Immature	The stand was clear-cut 2 inches and up in 1993 and was burned in 1998. The harvest was conducted under two contracts, Dublin Swamp North (73-038-93-02) and Dublin Swamp South (73-039-93-02).
168	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	24.3	57	1-50	The stand has a high percentage of oak mortality with a lot of down trees present. The area also has inclusions of low wet ground. Because of the amount of mortality and down trees, the stand now has the characteristics of a shelter-wood and it is regenerating well. The regeneration is mainly oak and red maple. So leave the stand to proceed naturally. To harvest the stand would do more damage to the advance regeneration than the over-story is worth. The quality of the oak is very low. The stand also has an inclusion of about 15 white pine saw-logs. Also in the stand, there is a 1-acre patch of natural red pine. These trees have a diameter range of 4-20 inches. The main soils under the stand are Pipestone and Kingsville.
169	6113 - Lowland Maple	Sawtimber Medium	14.5	81	1-50	Drainage between two sand ridges. Ground is saturated throughout most of the year except for scattered low narrow ridges. Some canopy gaps are filling in with lowland hardwood while others are remaining lowland brush. The main soil type under the stand is Kinross.
172	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.6	84	81-110	Stand serves as a visual buffer along the Sturgeon Creek. Allow stand to progress naturally.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
175	6119 - Mixed Lowland Deciduous Forest	Sapling Medium	15.0	26	Immature	This stand is a portion of a larger partent stand which was clear-cut 2 inches and up in 1992 under contract # 73-042-90-01, Mier Road Sale. The stand has regenerated as a lowland mixed stand consisting of red maple, oak, aspen and paper birch. The aspen in the stand is primarily trembling aspen. Open/sparse pockets along south boarder. The main soil types are Covert and Pipestone.
176	4199 - Other Mixed Upland Deciduous	Sawtimber Well	14.1	88	81-110	This stand is mainly a buffer along Sturgeon Creek with a small stand at the southern end. The main soil is Belleville.
177	4130 - Aspen	Sapling Well	18.2	16	Immature	The stand was habitat cut in 2002. The area has regenerated as an A3. There is a mix of species, trembling and bigtooth aspen; red maple, and black oak. The maple and oak increases going toward Sturgeon Creek. There is a sparse area right behind the subdivision. Because it was a habitat cut there is a lot of wood on the ground. This is rotting down well.
178	6113 - Lowland Maple	Sawtimber Well	9.4	88	51-80	This stand was not harvested when the surrounding stand was habitat cut. It is in a depression and has some standing water in it. The trees are heavy to swamp hardwood and oak. There is some aspen in the area but much is way over mature and has very low vigor. Therefore, let the stand become full a swamp hardwoods stand. The main soil type is Kingsville.
179	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	10.5	56	51-80	Stand appears to have been select harvested around 1962. Parent stems of maple, oak, and aspen scattered throughout the stand. Dominant cohort is '62 origin. Topography consists of two broad shallow drainages running east-west divided by slightly elevated ground. Entire stand is lowland. Dense lowland brush in drainages.
180	6113 - Lowland Maple	Poletimber Medium	6.5	72	1-50	Low wet depression. Substantial dead ash component which has reduced stocking. Being replaced by lowland brush and maple.
181	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	5.0	45	51-80	Stand was habitat cut in January of 1973. The stand is a low pocket of mainly birch and maple. The ground cover is mainly other herb and lowland shrub.
182	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	15.9	45	51-80	Stand was habitat cut in January of 1973. This stand is a low wet depression. Stand has a very good site index at north end. Maple is mixed red and silver, possibly hybridized. BA reduced by 1/3rd after ash die off.
183	6113 - Lowland Maple	Sawtimber Well	15.1	77	81-110	Broad forested drain with scattered upland knolls. Central portion of the stand flows significant water in the spring to a well defined drainage south of the stand. Dead ash component throughout. Both aspen and ash are being replaced by maple.
185	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.1	80	51-80	Sliver of timber left during DRIP cuts due to lack of survey work at the time. Aspen is still present in the stand but steadily falling out. Maple and oak regeneration filling gaps.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
186	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	11.5	91	51-80	The stand is low and wet. The white oak in the stand is swamp white oak. Overall the stand is an E-Type. North boundary of the stand is an old beaver damn which reduces the spring water level by backing up water.
187	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	31.7	66	51-80	E-type with scattered inclusions of L-type.
188	4130 - Aspen	Poletimber Well	9.2	45	111-140	Stand was habitat cut in January of 1973. Good quality aspen for the area. Oak in the stand ranges from pure red oak to high quality hybrids. Shallow forested drain bisects the stand in the middle.
189	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.3	42	81-110	Stand was habitat cut in 1976 (W8-646). Stand primarily consists of a slight oak knob surrounded by oak E-type. Oak is mostly multi-stem stump sprout origin.
190	4131 - Aspen, Oak	Poletimber Medium	5.5	22	Immature	Soil Pipestone Sand. The stand has not regenerated well. The ground cover is mainly bracken fern/wintergreen with sparse grass and moss.
191	4121 - Oak, Aspen	Sapling Well	5.4	20	Immature	The stand is mainly an O3A2 with the ground cover of bracken fern. It has regenerated well and is mainly on a ridge. Beaver activity reducing aspen component.
193	4131 - Aspen, Oak	Poletimber Medium	5.5	29	1-50	Stand was harvested in 1989 under contract # 73-016-89-01, Stark Road Again. All trees were cut 2 inches and up. The stand is on a high dry ridge with the ground cover of bracken fern. The oak is mainly black oak about 3" DBH. Aspen is scattered throughout with several dense pockets.
194	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	6.0	45	51-80	The east 1/3 of the stand had the aspen removed between '91 and '93 under contract # 73-021-89-01, Sturgeon River Sale. The west 2/3rds were habitat cut in February of 1973. The stand has a fair amount of poles in it. The understory is an O2/E3 and has a ground cover more toward other herb.
195	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	5.7	40	1-50	Stand was habitat cut in 1976-78. Center of stand is slightly higher in elevation and contains the oak. All oak was left in 76-78 habitat cut resulting in a varied species age structure. Stand is surrounded by a buffer of alder and willow.
197	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	5.2	75	1-50	The stand was harvested in 1999 leaving a mix of 10 BA oak, 5 BA red maple, and 5 BA of red pine. Regeneration is minimal consisting mainly of oak clumps and scattered individual pine.
198	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	28.3	40	81-110	Stand was manually harvested from 1976-78. Even mix of oak and maple with the oak being slightly large in diameter. Quaking aspen in the stand is low quality.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
199	6113 - Lowland Maple	Poletimber Well	8.7	45	51-80	Stand is a forested drainage between two ridges. Spring surface flow is slow in nature, almost stagnant. Most likely habitat or select cut in 1973 as part of Deer Range Improvement. Canopy is made up of scattered poor quality maple/oak stems surrounded by good quality single stem maple. Aspen was a historic part of the stand but fell out early. Rotting stumps visible.
202	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	5.2	50	51-80	Low quality hardwood stand. Standing water present in the spring.
203	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	13.0	56	1-50	Low vigor stand. Understory is slowly filling in.
206	4130 - Aspen	Poletimber Well	17.9	41	51-80	Aspen stand with lowland hardwood edges. Good site index. Narrow center is low and wet.
207	6113 - Lowland Maple	Poletimber Medium	9.4	83	1-50	The stand is low and wet overall, and it is in a depression between ridges. Within the stand boundaries, the ground is a matrix of low ridges and shallow swales. There are also inclusion in the stand of lowland brush and oak knobs. The main soil type is Pipestone.
210	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	12.1	64	81-110	West several acres sit on a knob which has the majority of the aspen. The rest of the stand is low and wet and dominated by maple and oak.
211	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	14.3	40	81-110	Stand was manually harvested from 1976-78.
212	6113 - Lowland Maple	Poletimber Medium	10.0	38	1-50	Stand was clearcut in 1980 under contract # 13-78A. Regenerated to a sparse E-type with an alder under-story.
214	4131 - Aspen, Oak	Poletimber Well	5.3	40	81-110	Stand was manually harvested from 1976-78.
215	6114 - Lowland Oak	Sawtimber Medium	5.6	92	81-110	Sparse large diameter pin oak with mixed maple. Understory is mostly lowland brush with some oak and maple regeneration along the eastern edge.
216	611 - Lowland Deciduous Forest	Sawtimber Well	0.7	89	Unspecified	Dispose of parcel. Tax reverted.
217	6113 - Lowland Maple	Poletimber Medium	16.3	65	1-50	Medium density lowland hardwood over L-type. Scattered upland islands of log class pine/oak.
218	4130 - Aspen	Poletimber Well	9.0	40	51-80	Habitat cut in 76 - 78. Stand is a mix of sand ridges and lowland flats.
219	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	14.6	45	51-80	Stand was habitat cut in 1973. Oak and pine were left. Transition zone between lowland swales and upland aspen. The aspen in this stand is off-site/poor quality. Pine readily seeds into the stand. This combination of factors has allowed the pine types to reclaim portions of this stand.

Stand	Cover Type	Acres	Managed Site	General Comments:
6	6229 - Mixed lowland shrub	3.2	No	Scattered hardwood.
11	623 - Emergent Wetland	104.6	No	Sturgeon Creek Corridor stand. Acts as a good BMP filter strip to the creek. Includes areas of marsh grass, lowland brush, and flooded E. Stand is extremely variable. Beaver activity.
34	6220 - Alder/willow	37.6	No	Dittmar drain flows through center of the stand.
36	500 - Water	4.0	No	Old county sand/gravel pit.
37	710 - Sand, Soil	1.5	No	Resource damage area.
40	6220 - Alder/willow	5.2	No	Tag alder, scattered birch and ash. No measurable volume.
41	6220 - Alder/willow	4.8	No	
43	6229 - Mixed lowland shrub	1.1	No	
45	3301 - Low Density Deciduous Tree	2.1		Narrow upland ridge which did not regenerate well from 76 cutting. Sparse aspen throughout.
46	6220 - Alder/willow	20.5	No	
47	622 - Lowland Shrub	3.2	No	
48	622 - Lowland Shrub	6.0	No	
52	6220 - Alder/willow	43.4	No	SOIL KINGVILLE LOAMY FINE SAND The Dittmar Drain runs through the stand. This stand has some beaver activity that has converted this stand to a N-Type. Scattered white pine, mostly pole size, through the northern portion of the stand. A few isolated upland pockets along the north boundary and the Dittmar Drain.
56	6229 - Mixed lowland shrub	6.4	No	North east section appears to be leather leaf and the southern leg appears to be lowland shrubs.
58	6225 - Bog	9.0	No	SOIL KINGSVILLE LOAMY FINE SAND
64	622 - Lowland Shrub	12.0	No	SOIL KINGSVILLE LOAMY FINE SAND. Stand is slowly filling in with white pine, oaks , and maples.

Stand	Cover Type	Acres	Managed Site	General Comments:
68	629 - Mixed non-forested wetland	31.3	No	The stand is more or less an L/Nm type. It is going more toward marsh.
69	310 - Herbaceous Openland	1.7	No	Stand is a reclaimed oil well pad.
73	3103 - Rubus-Fern	7.1	No	Stand is a G-Type with widely scattered oak in it. SOIL KINGVILLE LOAMY FINE SAND
75	623 - Emergent Wetland	10.7	No	Marsh grass
80	6225 - Bog	2.8	No	
82	3301 - Low Density Deciduous Tree	4.1	No	Stand is a G-Type with widely scattered oak in it. Landing for stand contract # 73-004-06-01 was located here. SOIL KINGVILLE LOAMY FINE SAND.
87	6225 - Bog	6.3	No	SOIL BELLEVILLE LOAMY SAND
88	6220 - Alder/willow	14.4	No	SOIL KINGSVILLE LOAMY FINE SAND. DENSE TAG ALDER WILLOW STAND.
90	6225 - Bog	21.9	No	SOIL KINGSVILLE LOAMY FINE SAND
92	622 - Lowland Shrub	2.6	No	Good escape cover consisting of chokeberry, willow, blueberry, alder.
99	6220 - Alder/willow	3.9	No	This stand is a low wet depression that is very heavy to tag alder. There are some swamp hardwood present but they are scattered. SOIL KINGVILLE LOAMY FINE SAND
101	6229 - Mixed lowland shrub	2.0	No	
117	3102 - Grass	1.9	No	Old landing for contract # 73.004-06-01. Stand was non-forested prior to landing use.
124	6239 - Mixed Emergent Wetland	25.7	No	KINGSVILLE LOAMY FINE SAND. The stand has had a lot of beaver activity and has killed off the overstory. The stand is currently not flooded but it is very wet with ground cover more toward cattails and marsh grass.
130	6224 - Treed Bog	5.9	No	
133	6239 - Mixed Emergent Wetland	12.7	No	This stand is an emergent marsh with areas of open water. The edges of the area are heavy to tag alder.

Stand	Cover Type	Acres	Managed Site	General Comments:
137	6224 - Treed Bog	11.7	No	The area is a leather leaf bog with pocket of brush scattered in the stand as well as some white pine, red maple, and paper birch. Canopy closure is approaching 25%.
139	622 - Lowland Shrub	3.5	No	The stand is an area of tag alder with some swamp hardwood scattered in it. The main soil type is Pipestone.
141	6224 - Treed Bog	4.5	No	Bog with lowland brush/scattered hardwood edges.
144	122 - Road/Parking Lot	1.6	No	Stark Rd.
147	6220 - Alder/willow	8.4	No	This area is a little lower than the surrounding stands; as a result, it is a tag alder stand. There are some swamp hardwoods but they are scattered.
150	6239 - Mixed Emergent Wetland	39.1	No	This stand is the flood plain of Sturgeon Creek. It is a matrix of swamp hardwoods pockets; and areas of tag alder and marsh. The area has had intermittent beaver activity so the amount of water versus other cover types is variable.
153	629 - Mixed non-forested wetland	11.4	No	The stand is mainly lowland shrub with some leather leaf. The soil under the stand is Kinross.
155	6225 - Bog	3.0	No	The stand is a leather leaf bog. The area has inclusions of lowland brush and marsh grass. The main soil under the stand is Kinross.
156	6233 - Wet Meadow	26.6	No	This stand is mainly and wet meadow of grasses and sedges mixed with some tag alder and leather leaf. . The main soil type under the stand is Kinross.
157	622 - Lowland Shrub	6.2	No	The stand is in a depression and it is mainly a lowland brush stand. There are some over-story swamp hardwoods present. Most of these trees are along the edges of the stand, but they become widely scattered throughout the rest of the area. The main soil under the stand is Kinross.
159	622 - Lowland Shrub	5.0	No	The stand is mainly lowland shrub with some lowland hardwood. The soil under the stand is Kinross.
161	6225 - Bog	87.2	No	This area is a large leather leaf bog that has inclusion of marsh grass. There are some trees present, which are mainly scattered paper birch, red maple and white pine. The main soil under the stand is Kinross
162	622 - Lowland Shrub	6.1	No	This stand is in a depression. The area has an E3 along the edges that quickly thins out to lowland brush. The main soil under the stand is Kinross.
164	6220 - Alder/willow	8.1	No	The stand is in a depression that is made up of mainly tag alder/willow. The area has a fair amount of swamp hardwood sapling and small poles along the edges of the stand, but these thin out going into the area. The main soil type under the stand is Kinross.

Stand	Cover Type	Acres	Managed Site	General Comments:
167	629 - Mixed non-forested wetland	8.0	No	This stand is mainly tag alder with some widely scattered paper birch, red maple and swamp white oak. The east end of the stand is heavier to swamp hardwoods and has areas that have density as high as an E2/L. However, the stand as a whole is a lowland brush type. The main soil type under the stand is Kinross.
170	6229 - Mixed lowland shrub	10.3	No	This stand is mainly tag alder with some widely scattered paper birch, red maple and swamp white oak. Both the west and east ends of the stand is heavier to swamp hardwoods. However, the stand as a whole is a lowland brush type. The main soil type under the stand is Kinross.
171	6229 - Mixed lowland shrub	2.7	No	This stand is in a depression that has some paper birch, swamp white oak, and black tupelo present. The densities of the trees are not high enough to call it a poorly stocked swamp hardwood site so it is classified as a lowland brush type. The main soil type under the stand is Kinross.
173	3102 - Grass	2.2	No	This area is a historic resource damage area; it was heavily damaged by 4X4 trucks and quads. Rehabilitation work was conducted in 2015. A stump barriers were placed and the site re-seeded. The site appears to be healing but additional barriers are needed at the east end.
174	320 - Upland Shrub	4.7		Stand was havested in the fall and winter of 2011 in the sale Dittmar Oak; sale # 73-023-10-01. Comment 2016: This is a failed cut. Prior to harvest this stand was typed out as an O9 but was described as wet. There are only a few saplings in the stand consisting of a few oaks and one aspen clone. The stand will probably have to be seeded to jack pine. The ground cover is heavy to blackberry and there are some cattails.
184	211 - Cropland	2.6	No	Planted row crops. Potential trespass pass stand. Survey needed.
192	6220 - Alder/willow	4.1	No	
196	6225 - Bog	50.2	No	Scattered islands of trees separated by Leatherleaf/lowland shrub.
200	6229 - Mixed lowland shrub	8.7	No	The ground is low wet and hummocky. The main ground covers are Michigan holly, tag alder, dogwood and marsh grass. There are some overstory swamp hardwoods in the stand, which are mainly ash and red maple. Most of the trees have a diameter of = 4". The main soil type under the stand is Kinross.
201	622 - Lowland Shrub	1.7	No	The ground is low wet and hummocky. The main ground covers are Michigan holly, tag alder, dogwood and marsh grass. There are some overstory swamp hardwoods in the stand, which are mainly ash and red maple. Most of the trees have a diameter of = 4". The main soil type under the stand is Kinross.
204	6229 - Mixed lowland shrub	2.7	No	The ground is low wet and hummocky. The main ground covers are Michigan holly, tag alder, dogwood and marsh grass. There are some overstory swamp hardwoods in the stand, which are mainly ash and red maple. Most of the trees have a diameter of = 4". The main soil type under the stand is Kinross.

Stand	Cover Type	Acres	Managed Site	General Comments:
205	6229 - Mixed lowland shrub	1.9	No	The ground is low wet and hummocky. The main ground covers are Michigan holly, tag alder, dogwood and marsh grass. There are some overstory swamp hardwoods in the stand, which are mainly ash and red maple. Most of the trees have a diameter of = 4". The main soil type under the stand is Kinross.
208	6224 - Treed Bog	2.0	No	LOW/WET STAND, SCATTERED MATURE TIMBER. Leatherleaf under dogwood/holly.
209	6220 - Alder/willow	1.0	No	This area is a little lower than the surrounding stands; as a result, it is a tag alder stand. There are some swamp hardwoods but they are scattered.
213	310 - Herbaceous Openland	1.5	No	Stand is a reclaimed oil well pad.