



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41153

Entry Year 2019

Acreage: 2,933

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 2017-05-16

Stand Examiner: Mario Molin

Legal Description:

T46N R15W Sections 19-21 and 28-30

Identified Planning Goals:

To manage the compartment in accordance with the principles of sustainable forest eco-system management, with emphasis on timber production, maintaining & enhancing wildlife habitat, and protection of riparian areas.

Soil and topography:

Overall the topography may be described as flat to gently rolling, with occasionally steeper ridges. Soil drainage is generally moderate to slow, but significantly better with even slight increases in elevation.

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

There are several private land parcels with hunting camps located within this compartment, and also timber company lands enrolled in the Commercial Forest Reserve. A communications tower is located on state-owned land in section 28, and electric power transmission lines run east-west through sections 28-30.

Unique Natural Features:

The Creighton Marsh is classified as a patterned fen, and extends from the northwest into section 19.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

The Patterned Fen ERA management plan is currently under development. It should be noted that there are currently no treatments proposed for any stands within compartment 153's portion of the ERA.

Watershed and Fisheries Considerations:

Walsh Creek and Ducey Creek are found within this compartment. Walsh Creek has summer water temperatures suitable for trout while Ducey Creek is warm-water. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Sections 19 - 21 & 28 - 30, T46N-R15W, Schoolcraft Co.

Surface sediments consist of lacustrine (lake) sand & gravel and peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subcrops below the glacial drift. These rocks are quarried for stone/dolomite in the UP. Gravel pits are not located in the area and potential appear to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

The Walsh Grade is the only improved road in this compartment, running essentially north-south through sections 21 and 28. This road crosses Walsh Creek in the southeast quarter of section 28, where a permanent bridge is located. The Eklund Road heads east off of the Walsh Grade in section 21; several woods roads run westward off of the Walsh Grade, providing access to private lands and into the northeast quarter of section 20.

There is also a pair of woods roads accessible from the Highway M-28 right-of-way in sections 29 and 30, but motor

vehicle access to areas between the powerline and Walsh Creek is extremely limited. Access to areas north of Walsh Creek in both the south half of section 20 and in section 19 is not presently available.

Survey Needs:

Recreational Facilities and Opportunities:

Dispersed recreation (hunting, fishing and snowmobiling) occur in this compartment, but there are no developed recreational facilities.

Fire Protection:

Difficult access to conifer & lowland fuel types have the potential to make fire suppression extremely challenging in much of this compartment.

Additional Compartment Information:

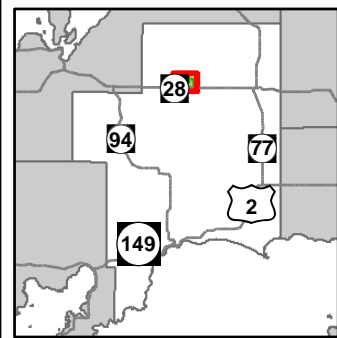
The following reports from the Inventory are attached:

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

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

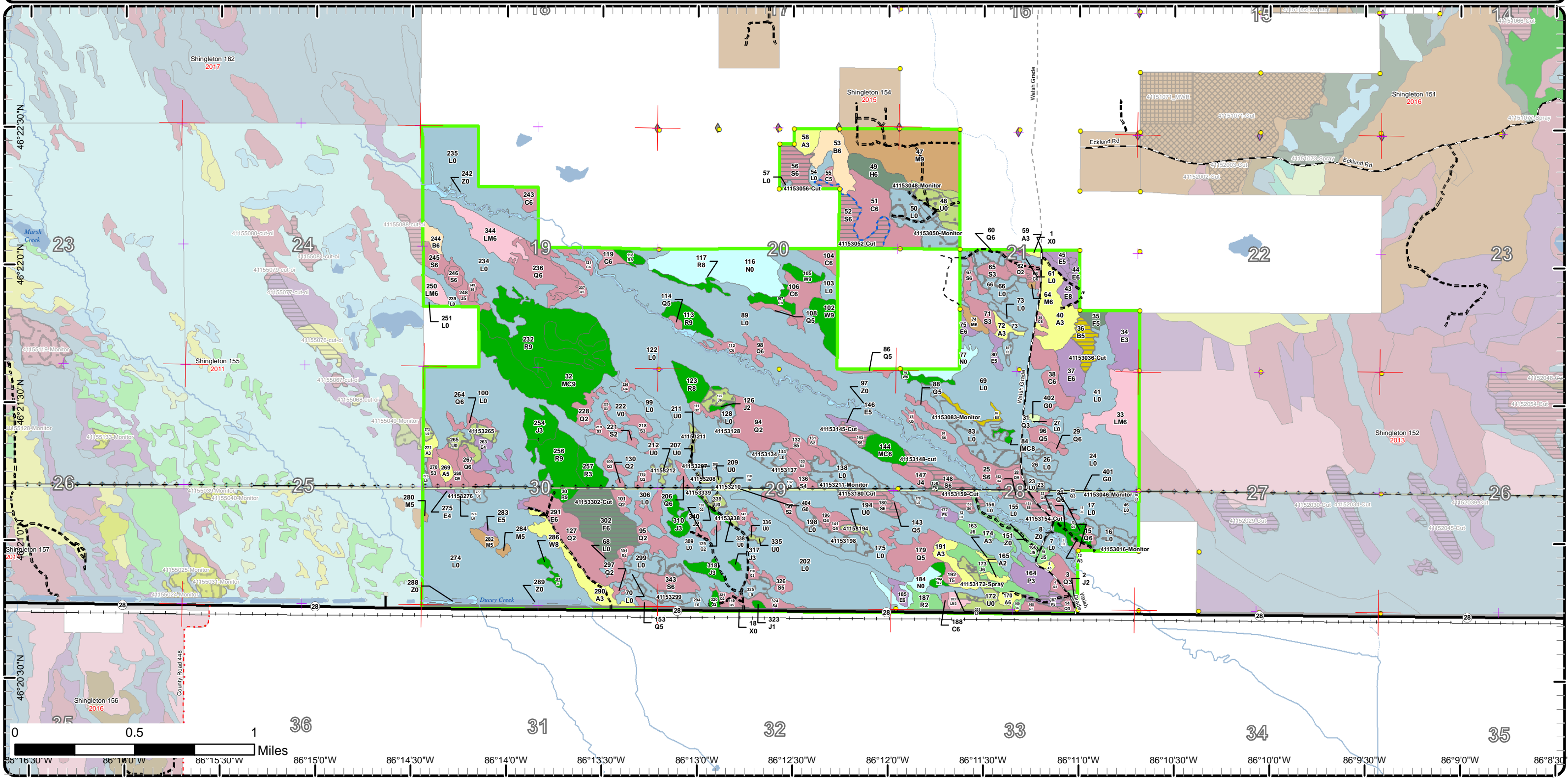
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

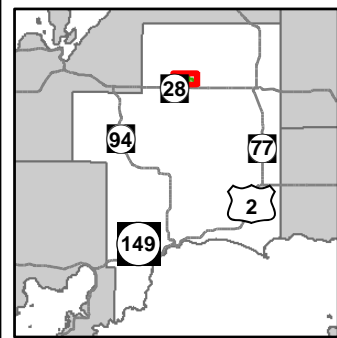


Compartment: 153
 T46N, R15W, Sec: 19-21, 28-30
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique Swamp
 YOE: 2019
 Acres: 2,933 GIS Calculated
 Examiner: Mario Molin
 Map Revised: 7/30/2018
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Primary Forest Road
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- - - Federal / State - Dirt / Gravel Road
- - - Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Pesticide
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

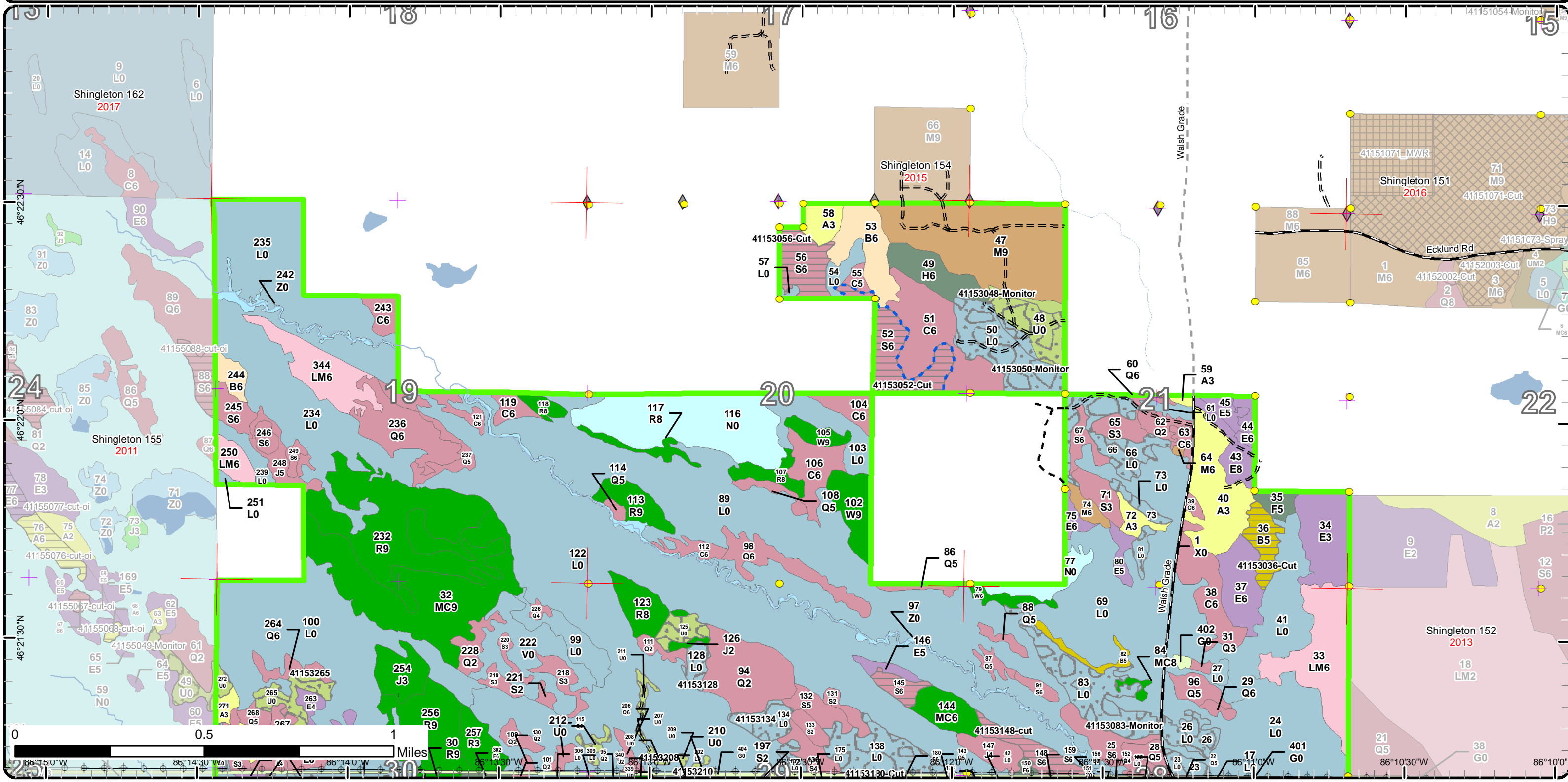


Cover Type & Treatments Map

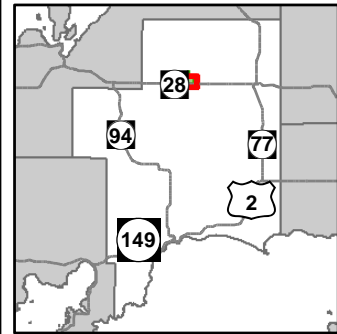


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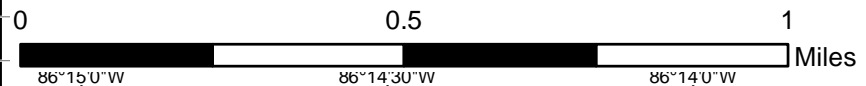
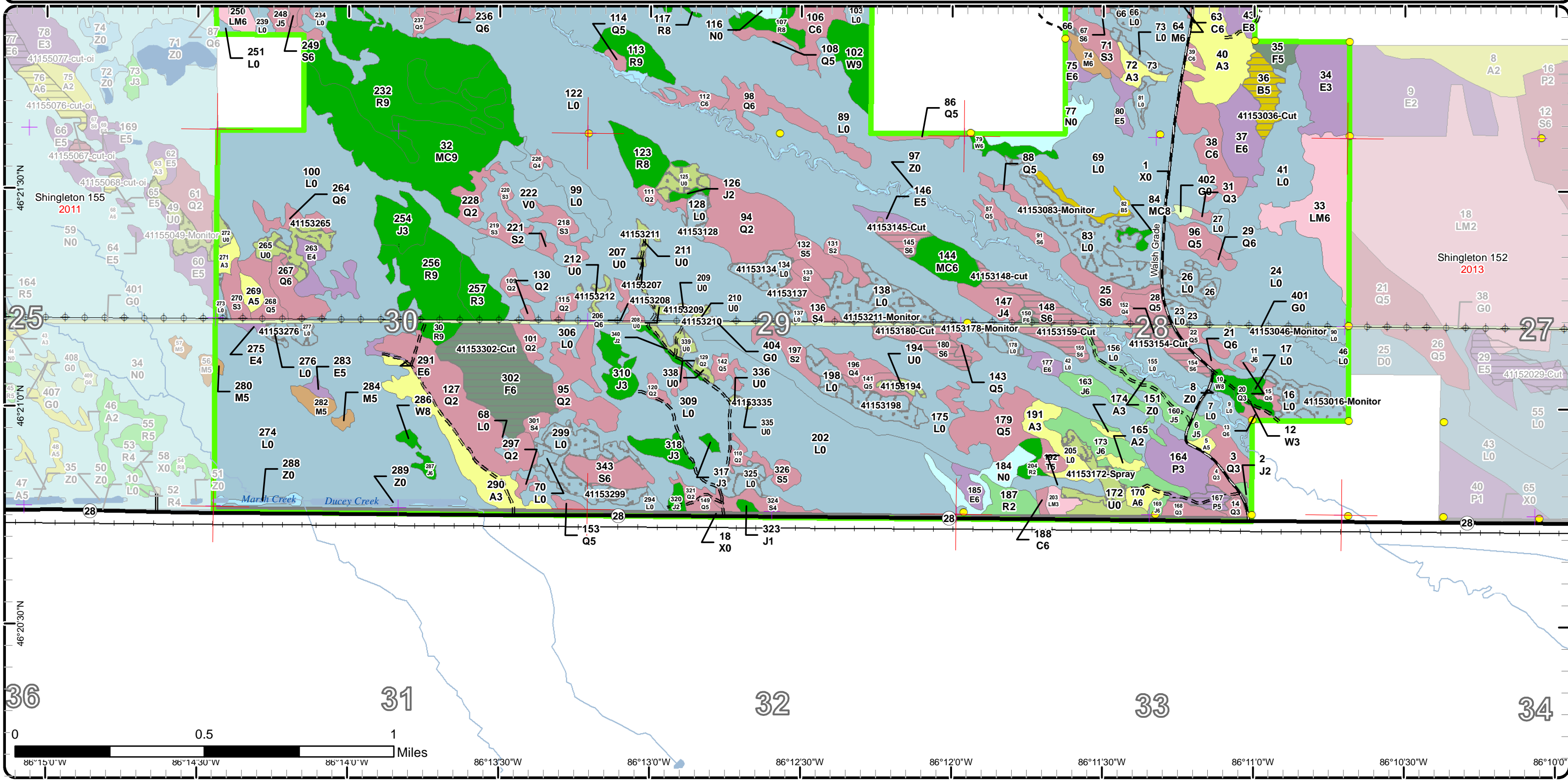


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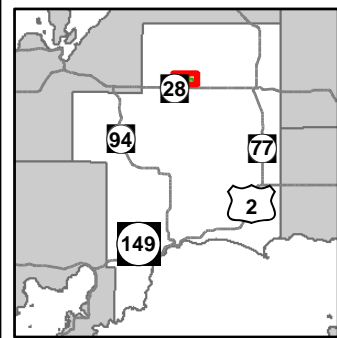
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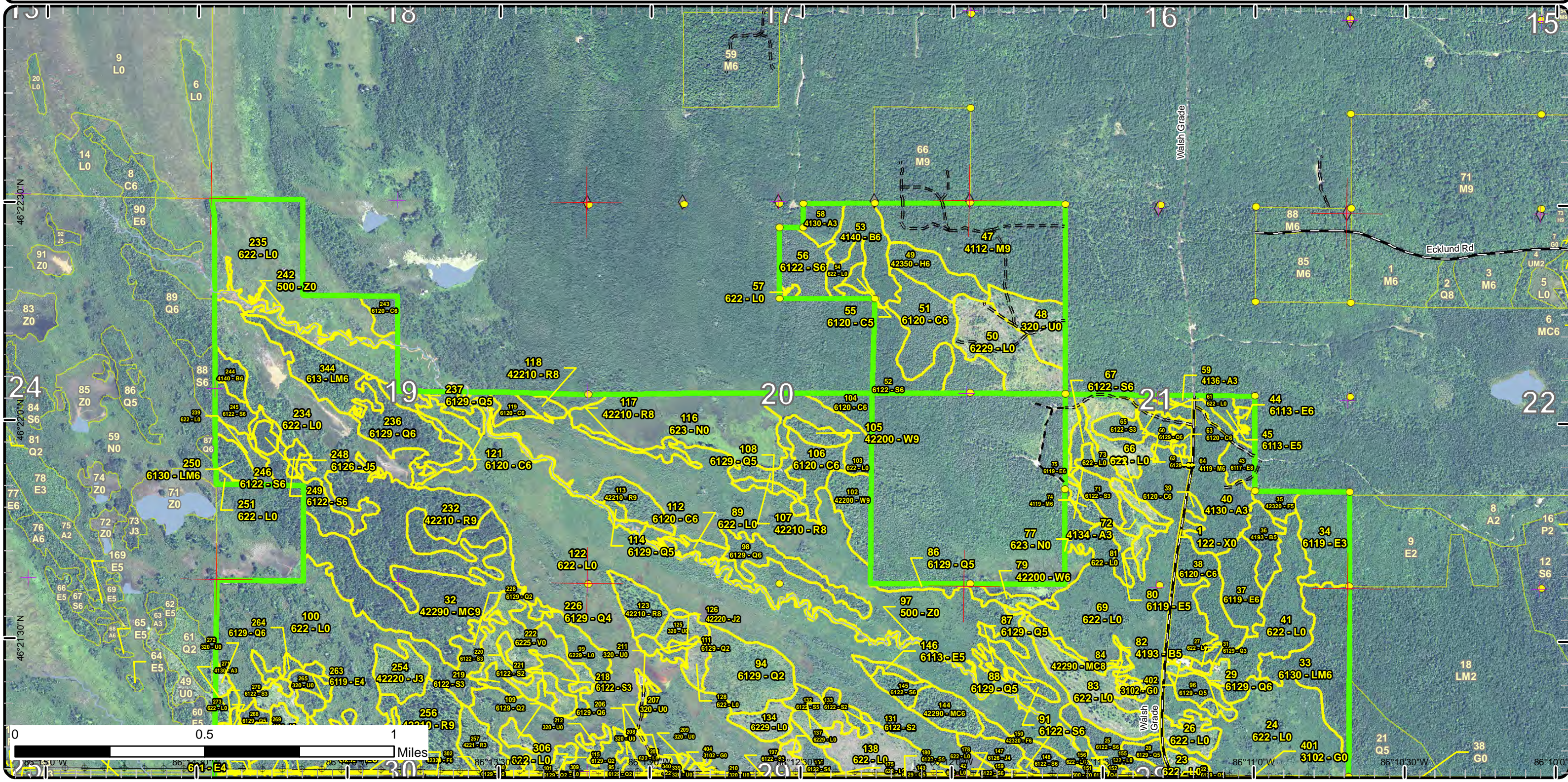
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Stand Boundary Map

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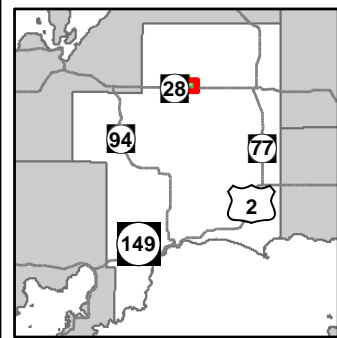


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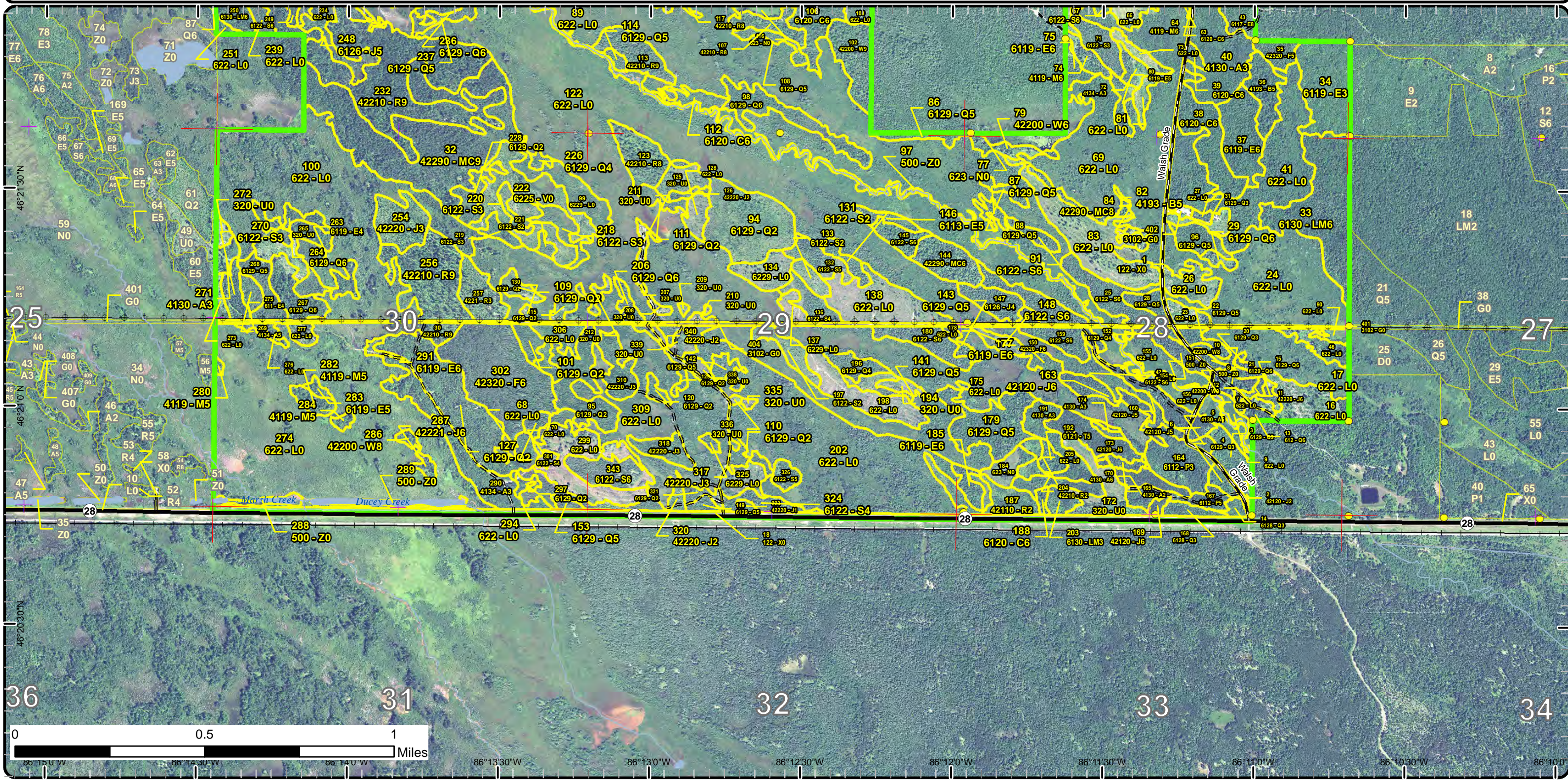


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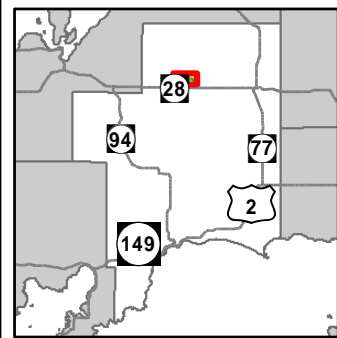


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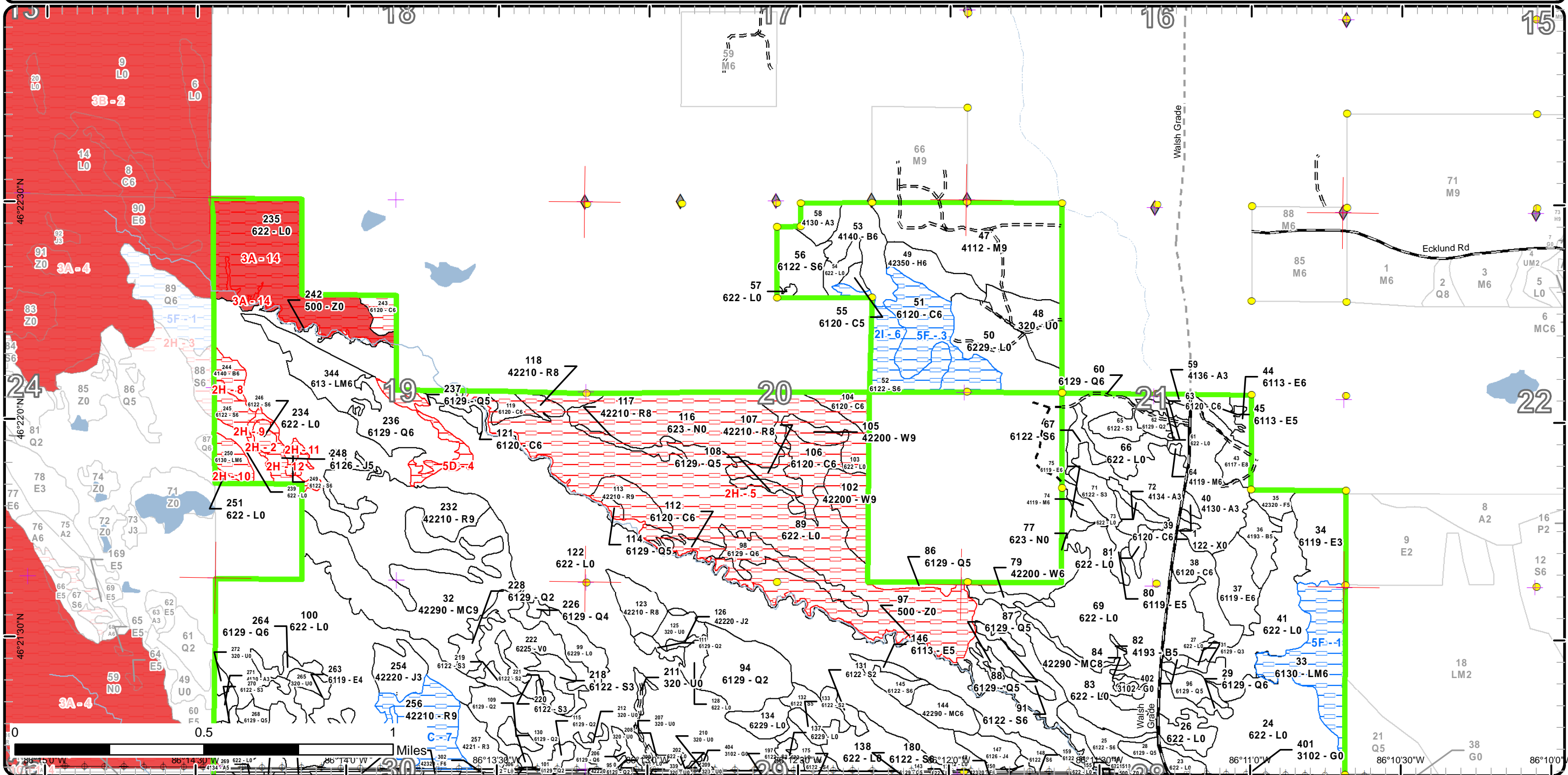


Special Conservation Areas & Site Conditions Map

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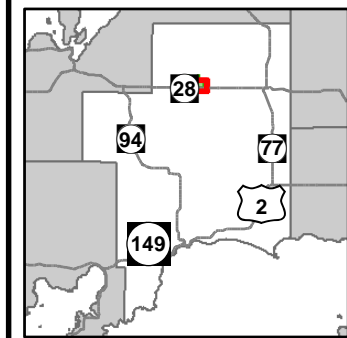


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams

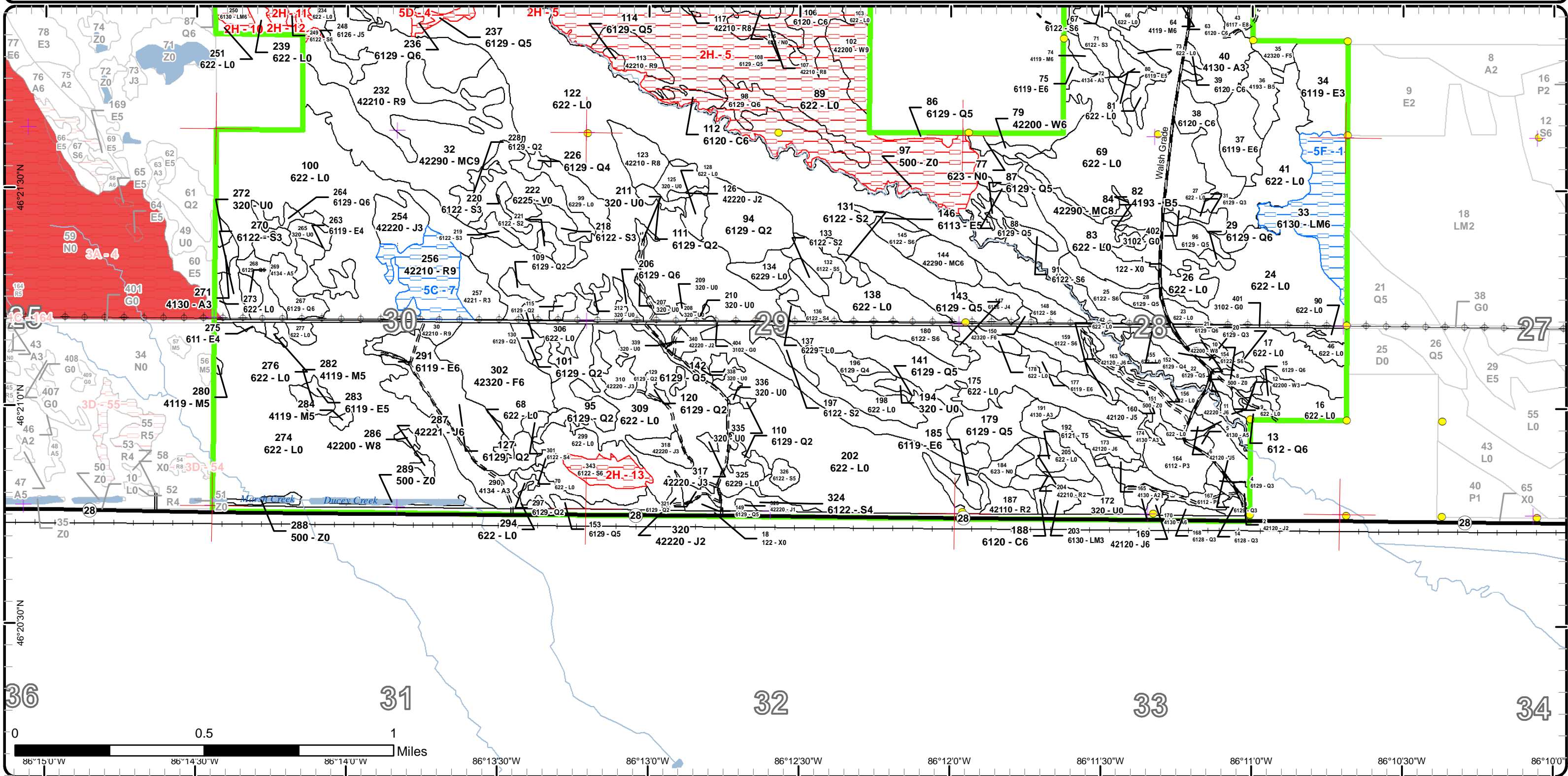


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	6	21	40	4	0	0	0	3	0	0	0	0	0	0	0	0	74
Bog	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Cedar	0	0	0	0	0	0	0	0	0	19	29	34	0	0	0	0	0	2	84
Hemlock	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Jack Pine	0	0	4	25	9	32	0	0	0	0	0	0	0	0	0	0	0	9	79
Lowland Aspen/Balsam Poplar	0	0	0	0	12	0	4	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	18	4	91	4	3	20	0	12	11	0	0	0	0	0	0	80	243
Lowland Deciduous	0	0	20	0	0	4	6	0	0	3	0	0	0	0	0	0	0	43	75
Lowland Mixed Forest	0	0	0	0	3	0	0	19	0	36	0	0	0	0	0	0	0	0	58
Lowland Shrub	1543	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1543
Lowland Spruce/Fir	0	0	5	3	8	9	23	5	15	50	36	0	0	0	0	0	0	5	159
Marsh	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	10	61	0	0	0	0	0	0	2	73
Northern Hardwood	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	63	68
Paper Birch	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	20	32
Red Pine	0	0	18	0	0	0	0	0	0	0	26	9	0	0	0	0	0	80	133
Tamarack	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Upland Shrub	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Upland Spruce/Fir	0	0	0	0	1	0	0	0	0	38	0	0	0	0	0	0	0	0	39
Urban	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
White Pine	0	0	0	2	0	0	0	0	0	0	0	3	0	0	0	0	0	21	26
Total	1758	0	71	55	164	53	41	45	15	197	166	46	0	0	0	0	0	325	2932



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 153
Total Compartment Acres: 2,933

Commercial Harvest - 83
Harvests with Site Condition - 18
Next Step Harvest - 5
Habitat Cut - 5

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Aspen/Balsam Poplar	4	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	55	0	0	0	0	0	0	0	0	55
Paper Birch	9	0	0	0	0	0	0	0	0	9
Upland Spruce/Fir	34	0	0	0	0	0	0	0	0	34
Total	101	0	0	0	0	0	0	0	0	101

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	101	0	0	0	0	8	211	0	0	320
Next Step	5	69	20	0	0	0	109	0	0	203
Total	106	69	20	0	0	8	320	0	0	523



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
23	23	3.3	622 - Lowland Shrub Nonstocked	0	Unspec ified		Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Monitor
Specs:

Next Step
Treatments:

Acceptable Any mix of trees
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

26	26	7.1	622 - Lowland Shrub Nonstocked	0	Unspec ified		Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor
Specs:

Next Step
Treatments:

Acceptable Any mix of trees
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

16	41153016- Monitor	11.4	622 - Lowland Shrub Nonstocked	0	Unspec ified		Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor
Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable Any mix of trees
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

36	41153036-Cut	8.5	4193 - Birch, Aspen Poletimber Medium	83	51-80		Harvest	Clearcut with Retention	4193 - Birch, Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut to regenerate birch and aspen. Retention will be with redline, exclude /paint some birch.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Birch and other trees.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
46	41153046- Monitor	1.2	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6139 - Mixed Lowland Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant											
<u>Treatments:</u>											
<u>Acceptable</u> Any type of trees.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
48	41153048- Monitor	14.5	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
50	41153050- Monitor	22.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Black spruce											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
52	41153052-Cut	18.2	6122 - Black Spruce	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Clearcut to regenerate spruce. Leave .5 acre retention pocket with cedar.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Spruce and other trees.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
56	41153056-Cut	13.0	6122 - Black Spruce	Poletimber Well	93	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut to regenerate spruce. Retention is .4 acres include cedar.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce and other trees

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

83	41153083-Monitor	24.1	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor

Specs:

Next Step

Treatments:

Acceptable Any mix of trees

Regen:

Other

Comment:

Proposed Start Date: 10/01/2019

125	41153125	5.2	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Regen check.

Specs:

Next Step

Treatments:

Acceptable Jack pine and other trees

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/01/2019

128	41153128	3.9	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Regen check.

Specs:

Next Step

Treatments:

Acceptable Jack pine and other trees

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/01/2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
134	41153134	6.9	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

137	41153137	2.5	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

145	41153145-Cut	4.6	6122 - Black Spruce Poletimber Well	88	51-80		Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clearcut to regenerate spruce. No retention due to size.Specs:Next Step Harvest, Clearcut; Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Spruce and other treesRegen:OtherComment:Proposed Start Date: 10/01/2018

148	41153148-cut	8.2	6122 - Black Spruce Poletimber Well	93	81-110		Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clearcut to regenerate spruce, no retention due to size. If any retention is left it should be done on east side near the creek.Specs:Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Spruce and other treesRegen:OtherComment:Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
154	41153154-Cut	4.1	6122 - Black Spruce	Poletimber Well	93	111- 140	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut with no retention-too small acreage, some retention may be made along west boundary against the marsh.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce and other lowland trees

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

159	41153159-Cut	6.5	6122 - Black Spruce	Poletimber Well	93	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut to regenerate spruce, no retention due to size. If any retention is left it should be done on east side near the creek.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce and other trees

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

167	41153167-Cut	3.9	6112 - Lowland Aspen	Poletimber Medium	53	1-50	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut to regenerate aspen, no retention due to size and want maximum sprouting.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Aspen and other trees

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

172	41153172- Spray	7.7	320 - Upland Shrub	Nonstocked	0	Unspec ified	Pesticide	Skidder/Mechanic al	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Spray for scotch pine removal.

Specs:

w-1421 remove sub merchantable scotch pine.

Next Step ; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Jack Pine and other species

Regen:

Other

Percent to Treat = 100%

Comment:

Proposed Start Date: 01/04/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
42	41153178- Monitor	3.0	622 - Lowland Shrub	Nonstocked		Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6123 - Mixed Lowland Forest	Even-Aged	Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Regen check											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of trees											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
180	41153180-Cut	8.2	6122 - Black Spruce	Poletimber Well	83	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Clearcut to regenerate spruce, due to size no retention.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Spruce and other trees											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
194	41153194	2.1	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Regen check.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Jack pine and other trees											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
198	41153198	13.2	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Regen check.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Jack pine and other trees											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
207	41153207	0.4	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

208	41153208	0.9	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

209	41153209	0.4	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

210	41153210	1.0	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
211	41153211	1.8	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	42120 - Planted Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Regen check.

Specs:

Next Step

Treatments:

Acceptable Jack pine and other trees

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/01/2019

138	41153211-Monitor	18.3	622 - Lowland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Regen check.

Specs:

Next Step

Treatments:

Acceptable Jack pine and other trees

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/01/2019

212	41153212	2.0	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Regen check.

Specs:

Next Step

Treatments:

Acceptable Jack pine and other trees

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/01/2019

265	41153265	8.9	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Regen check.

Specs:

Next Step

Treatments:

Acceptable Jack pine and other trees

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/01/2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
272	41153272	1.6	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

273	41153273	1.9	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

276	41153276	1.1	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

277	41153277	2.2	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
299	41153299	18.2	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

302	41153302-Cut	34.1	42320 - Upland Spruce	Poetimber Well	83	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clearcut to regenerate fir, retention is 1 acre including white pine.Specs:Next Step SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Fir and other treesRegen:OtherComment:Proposed Start Date: 10/01/2018

325	41153325- Monitor	5.2	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen checkSpecs:Next StepTreatments:Acceptable Black spruce and other treesRegen:OtherComment:Proposed Start Date: 10/01/2019

335	41153335	1.0	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
338	41153338	1.3	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

339	41153339	2.8	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42220 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Regen check.Specs:Next StepTreatments:Acceptable Jack pine and other treesRegen:Other Percent to Treat = 100%Comment:Proposed Start Date: 10/01/2019

66	66	17.0	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription MonitorSpecs:Next StepTreatments:Acceptable Any mix of treesRegen:OtherComment:Proposed Start Date: 10/01/2019

73	73	2.9	622 - Lowland Shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription MonitorSpecs:Next StepTreatments:Acceptable Any mix of treesRegen:OtherComment:Proposed Start Date: 10/01/2019



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
81	81	2.5 622 - Lowland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Monitor
Specs:

Next Step
Treatments:

Acceptable Any mix of trees
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

**Total Treatment
Acreage Proposed: 329.5**

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 153

Mario Molin : Examiner

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2I	5C	5F	2H	3A	5D	
75	75	0	0	Aspen							
24	24	0	0	Bog							
84	26	28	30	Cedar			28	25	5		
12	12	0	0	Hemlock							
15	15	0	0	Herbaceous Openland							
77	70	0	7	Jack Pine				7			
16	16	0	0	Lowland Aspen/Balsam Poplar							
244	219	0	25	Lowland Conifers				17		8	
75	75	0	0	Lowland Deciduous							
58	22	30	6	Lowland Mixed Forest			30	6			
1543	1283	53	207	Lowland Shrub			53	154	53		
160	122	18	19	Lowland Spruce/Fir	18			19			
64	17	0	47	Marsh				47			
73	73	0	0	Natural Mixed Pines							
68	68	0	0	Northern Hardwood							
32	28	0	5	Paper Birch				5			
132	88	23	22	Red Pine		23		22			
3	3	0	0	Tamarack							
55	55	0	0	Upland Shrub							
39	39	0	0	Upland Spruce/Fir							
31	31	0	0	Urban							
26	26	0	0	Water							
27	10	0	16	White Pine				16			
2,933	2,397	152	384	Total Forested Acres	18	23	111	318	58	8	
	82%	5%	13%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5F: Evaluated for Forest Health Considerations	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 153

Mario Molin : Examiner

Year of Entry: 2019

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5F: Evaluated for Forest Health Considerations	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5D: Unproductive Forest Land	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	281	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2I: Survey needed	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 153

Mario Molin : Examiner

Year of Entry: 2019

8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 153

Year of Entry: 2019

13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3A: Conservation Values incompatible with harvest at this time	58	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: ERA							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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
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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
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42120 - Planted Jack Pine	Sapling Medium	1.0	16	Immature	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Planted in 2002 - Survival check in 2004 indicated acceptable stocking. Stand exam in 2007 confirms the same.
3	6129 - Mixed Coniferous Lowland Forest	Sapling Well	6.4	16	Immature	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Planted in 2002 - Survival check in 2004 indicated acceptable stocking. Stand exam in 2007 reveals that the stand is now a mix of jack pine, fir, spruce, red maple and aspen regeneration.
4	6129 - Mixed Coniferous Lowland Forest	Sapling Well	2.3	16	Immature	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Planted in 2002 - Survival check in 2004 indicated acceptable stocking. Stand exam in 2007 reveals that the stand is now a mix of jack pine, fir, spruce, red maple and aspen regeneration.
5	4130 - Aspen	Poletimber Medium	1.2	42	1-50	
6	42120 - Planted Jack Pine	Poletimber Medium	2.0	42	1-50	
10	42200 - Natural White Pine	Sawtimber Medium	3.2	101	1-50	OPIC - FMD: Soils - Proper Fine Sand 0-6% slopes Habitat - PVE Large pine over a mix of regen including pines, aspen, balsam fir and red maple. The regen appears to be from a partial cutting around 1990. Mixed pulpwood includes red maple and balsam fir.
11	42220 - Natural Jack Pine	Poletimber Well	1.0	40	111-140	OPIC - FMD: Soils - Proper Fine Sand 0-6% slopes Habitat - PVE Young jack pine with residual 12-14" DBH red & white pine from the previous stand. The understory is mixed regeneration consisting of balsam fir, white pine, etc.
12	42200 - Natural White Pine	Sapling Well	2.1	28	Immature	OPIC - FMD: Soils - Proper Fine Sand 0-6% slopes Habitat - PVE Mix of regen including primarily white pines but also red & jack pines aspen, balsam fir and red maple. This stand appears to be the result of cutting around 1990. Scattered larger trees (residuals from the last stand) are also present.
13	612 - Lowland Coniferous Forest	Poletimber Well	1.8	51	1-50	OPIC - FMD: Soils - Proper Fine Sand 0-6% slopes Habitat - PVE Mature jack pine - ready to cut. [8-03-10] Stand is now under contract TS 41-013-09-01 Cheesy Troll Mix. Residual BA: w.pine = 10 sq.ft./acre. [2-24-14] Sale is closed - TCR dtd 2-10-14. Schedule regen survey in accordance w/the work instructions.
14	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	1.5	16	Immature	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Planted in 2002 - Survival check in 2004 indicated acceptable stocking. Stand exam in 2007 reveals that the stand is now a mix of jack pine, fir, spruce, red maple and aspen regeneration.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	1.6	63	111-140	OPIC - FMD: Soils - Proper Fine Sand 0-6% slopes Habitat - PVE Mixed stand with some age variability - primarily spruce over smaller white pine and balsam fir.
20	6129 - Mixed Coniferous Lowland Forest	Sapling Well	0.9	43	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Slow-growing conifer mix (primarily spruce, fir and tamarack, plus a few aspen) with scattered merchantable trees. The site index for most tree species is low but still acceptable for commercial management; however, the surrounding lowlands may be too wet for reasonable access.
21	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	1.4	41	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mixed stand - primarily tamarack over spruce and fir, but the understory is also filling in with white & jack pines, red maple, paper birch etc. The year of origin is probably sometime around 1975-1980, but a lot of age variability is evident.
22	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.9	99	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Semi-open mix of slow-growing conifers and lowland brush on a very wet site. Some patches of conifer regeneration are beginning to appear.
25	6122 - Black Spruce	Poletimber Well	10.9	76	51-80	
28	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	3.3	51	1-50	OPIC - FMD: Soils - Markey Mucky Peat Semi-open mix of lowland timber - too wet for operability. A few tamarack, paper birch and white pine are also present. The understory is a mix of lowland brush and scattered conifer regeneration.
29	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	1.6	51	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mixed stand on low, gently rolling terrain - species composition and site indices are variable, and age variation is evident. The white pine are relicts from an earlier stand, and medium-to-large (12-18") yellow birch culls are present. The understory is a mix of balsam fir, spruce, cedar, red maple and white pine; some lowland brush is present in the wetter areas.
30	42210 - Natural Red Pine	Sawtimber Well	3.2	91	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Stand is now stocked to W2-W3 level with a mix that includes all the pine spp. and a variety of others including spruce, red maple, aspen and cherry brush. The residual 8-16" DBH red & white pine are healthy. 2017- Lots of white pine regen, some red pine. Could cut to seed tree level and scarify in hopes to promote more red pine.
31	6129 - Mixed Coniferous Lowland Forest	Sapling Well	0.9	43	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mixed conifer regeneration - spruce, jack pine, tamarack and cedar.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42290 - Natural Mixed Pine	Sawtimber Well	61.4	91	81-110	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Large red and white pine over a mix of spruce, jack pine, red maple, tamarack and balsam fir. Partially cut in approximately 1950, leaving the pine. Mixed pulpwood volume includes tamarack, balsam fir, birch, aspen and red pine poles. The understory is a mix of all species present plus areas of lowland brush. Due to the rolling terrain, site indices are somewhat variable.
33	6130 - Fir, Aspen, Maple	Poletimber Well	30.4	88	51-80	Flagged for SBW- not worth the effort, essentially a mix of poor quality timber with low volume.
34	6119 - Mixed Lowland Deciduous Forest	Sapling Well	19.9	16	Immature	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Recently cut - regeneration is a mix of red maple, black ash and conifers, with a few patches of aspen whips and scattered large white left from the last stand. Site index was carried forward from the old stand records.
35	42320 - Upland Spruce	Poletimber Medium	4.1	83	81-110	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Mixed stand on wet ground with an understory of fir, spruce and red maple. Mixed pulpwood volume represents scattered aspen and balsam fir. 2017- Small hill with decent timber, transitions in the low ground.
36	4193 - Birch, Aspen	Poletimber Medium	8.5	83	51-80	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Mature aspen & paper birch with a scattered understory of paper birch, red maple, black ash, balsam fir and a lot of lowland brush.
37	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	14.1	51	1-50	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Very wet site - inoperable. Mixed softwood pulp includes balsam fir and cedar. Site index may be lower than that shown here, but the age variability makes accurate determination difficult. There are scattered dead poplar and birch throughout the stand.
38	6120 - Lowland Cedar	Poletimber Well	15.3	83	111-140	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Age class and species diversity are developing as the last remnants of aspen fall out and are replaced by younger cedar, balsam fir and red maple from the understory. The birch is still relatively healthy.
39	6120 - Lowland Cedar	Poletimber Well	1.3	83	111-140	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Age class and species diversity are developing as the last remnants of aspen fall out and are replaced by younger cedar, balsam fir and red maple from the understory. The birch is still relatively healthy.
40	4130 - Aspen	Sapling Well	25.2	31	Immature	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Mix of aspen and conifer regen - some patches are dominated by the conifers. In places the understory is primarily lowland hardwoods, with lowland brush also scattered throughout.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	7.8	81	51-80	<p>OPIC - FMD: Soils - Pullup Fine Sand 15-35% slopes on the uplands, and Carbondale-Lupton-Tawas Mucks in the low areas. Upland Habitat - PVE</p> <p>Rolling terrain supporting a mix of conifers, lowland hardwoods and a few surviving aspen and paper birch.. The understory consists of balsam fir, red maple, black ash and lowland brush. There are pockets of dead aspen & paper birch throughout. Mixed softwood pulp includes cedar and hemlock.</p>
44	6113 - Lowland Maple	Poletimber Well	3.4	61	51-80	<p>OPIC - FMD: Soils - Pullup Fine Sand 15-35% slopes and Proper Fine Sand 0-6% slopes, plus Carbondale-Lupton-Tawas Mucks in the lower areas. Habitat - PVE</p> <p>Rolling terrain supporting mainly red maple with scattered balsam fir over brush & scattered hardwood regeneration. Mixed pulpwood volume consists of scattered paper birch and the surviving overmature aspen. Black ash is also present in the lower areas.</p>
45	6113 - Lowland Maple	Poletimber Medium	3.8	47	1-50	<p>OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks</p> <p>Mixed regen including pockets of aspen and conifers. Red maple and black ash are the dominant species in most places, and lowland brush is found throughout the area. Scattered individuals and a few narrow strips of residual conifers are also present.</p>
47	4112 - Maple, Beech, Cherry Association	Sawtimber Well	58.8	81	81-110	<p>[1-17-03] Underplanted with oak under FTP #C41-738.</p> <p>YOE 2009: Red maple stand with hemlock, balsam fir, a few beech and scattered white pine. The understory varies but tends more toward hardwood regen in the eastern half of the stand and a mix of balsam fir/hemlock in the west. Overall the highest concentration of conifers is along the western edge. The poles are 7-10" DBH and the sawlogs run 12-16".</p>
49	42350 - Upland Hemlock	Poletimber Well	12.3	81	51-80	<p>OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa</p> <p>Rolling terrain where some partial cutting has occurred in the past, resulting in several different age classes and variable composition. Site indices are also highly variable. Mixed sawlogs include white pine, white spruce and red maple; mixed softwood pulp includes spruces, white pine and tamarack.</p>
51	6120 - Lowland Cedar	Poletimber Well	28.0	93	81-110	<p>2007- Cedar with other conifers and a few scattered lowland hardwoods and occasional pockets of hemlock. The understory is generally a mix of cedar, balsam fir and spruce, with pockets of lowland brush. Site indices are variable and some age class diversity is beginning to develop. Mixed hardwood pulp includes red maple, paper birch and black ash.</p>
52	6122 - Black Spruce	Poletimber Well	18.2	86	81-110	<p>2007- Slightly rolling but generally very wet ground supporting a mix of conifers and scattered lowland hardwoods, with extremely variable site indices. The understory includes the same mix plus lowland brush, which is dominant in some areas. A few large white pine are also present. Mixed hardwood includes red maple and paper birch.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	4140 - Other Upland Deciduous	Poletimber Well	16.0	61	81-110	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Gently rolling terrain supporting a mix of paper birch, red maple and cedar, with a few merchantable balsam fir and some black ash in the lowest swales. The understory is a mix of the same species. 2017- Clear Cut next entry, Green tree a few birch for seed and some birch along edge exclude with redline.
55	6120 - Lowland Cedar	Poletimber Medium	2.0	76	51-80	Scattered merchantable but slow-growing conifers and lowland brush.
56	6122 - Black Spruce	Poletimber Well	13.0	93	81-110	Black spruce 5-10" DBH. The understory includes spruce, fir, cedar and scattered red maple & birch. Ready to cut now. Acceptable regeneration includes all conifer species. [9/21/11 BB] Stand was put on 2011 POW but factored off due to access and because it can be harvested with adjacent stands when re-inventoried.
58	4130 - Aspen	Sapling Well	6.2	19	Immature	Young aspen with residual white pine and a few spruce & fir.
59	4136 - Aspen, Mixed Conifer	Sapling Well	0.9	31	Immature	OPIC - FMD: Soils - Proper Fine Sand 0-6% slopes Habitat - PVE
60	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	1.8	48	51-80	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Some partial cutting was probably done here to remove aspen.
62	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	3.9	31	Immature	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Mixed regeneration - pockets of Q2, A3 and scattered residuals.
63	6120 - Lowland Cedar	Poletimber Well	2.2	88	81-110	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Cedar etc. over a mix of lowland hardwood/conifer regeneration and brush. Mixed pulpwood includes spruce, fir and paper birch.
64	4119 - Mixed Northern Hardwoods	Poletimber Well	0.5	101	81-110	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Rolling terrain supporting a mix of paper birch, red maple and balsam fir.
65	6122 - Black Spruce	Sapling Well	4.8	68	1-50	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Immature black spruce - some dominant trees are now reaching merchantable size, but the average DBH is still 4".
67	6122 - Black Spruce	Poletimber Well	4.3	78	1-50	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Slow-growing spruce on a very wet site. Mixed pulpwood volume includes balsam fir, tamarack and red maple. No clear records of past cutting history are available, and some age variation is evident. Operability is questionable in parts of this stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	6122 - Black Spruce	Sapling Well	6.2	42	1-50	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Black spruce regeneration - 3-5" DBH trees.
72	4134 - Aspen, Spruce/Fir	Sapling Well	3.8	26	Immature	OPIC - FMD: Soils - Rubicon sand 15-35% slopes Habitat - PARV Steep-sided ridge supporting an upland mix of aspen, balsam fir, spruce and white pine regeneration. The merchantable paper birch and balsam fir are residuals from the previous stand.
74	4119 - Mixed Northern Hardwoods	Poletimber Well	3.5	101	51-80	OPIC - FMD: Soils - Rubicon sand 15-35% slopes Habitat - PARV Rolling upland supporting paper birch/red maple over a mix of balsam fir, spruce, white pine & red maple regeneration. White pine logs are scattered throughout. Mixed softwood includes spruce and white pine poles. Many of the larger paper birch are dead or dying.
75	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	2.9	66	51-80	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Wet area with a mix of hardwoods and conifers. Density and composition are variable. Lowland brush is also present and dominates the understory in places. Operability may be questionable.
79	42200 - Natural White Pine	Poletimber Well	3.9	101	81-110	OPIC - FMD: Soils - Rubicon-Deford Complex 0-15% slopes Habitat - PARV Mix of pine, spruce and red maple on rolling terrain. The pine logs average about 13-14" DBH. The understory is dominated by balsam fir.
80	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	3.5	51	1-50	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Semi-open pockets of lowland timber on a very wet site - operability may be questionable.
82	4193 - Birch, Aspen	Poletimber Medium	3.5	76	51-80	OPIC - FMD: Soils - Rubicon-Deford Complex 0-15% slopes Habitat - PARV Narrow upland ridge with an old road across it. Mostly paper birch with a few white pine, plus spruce on the edges. The mixed pulpwood includes red maple and aspen. Retain for wildlife habitat while the adjacent spruce stand is being regenerated.
84	42290 - Natural Mixed Pine	Sawtimber Medium	1.5	101	51-80	OPIC - FMD: Soils - Rubicon-Deford Complex 0-15% slopes Habitat - PARV Unevenaged mix of large pine over pine, spruce & birch poles, with an understory of mixed conifer regeneration (spruce, red & white pines and red maple) on rolling upland terrain. [7-22-09] Approved OI change - shelterwood prep cut along with stand #83. Reserve the red & white pine. [8-03-10] Stand is now under contract TS 41-013-09-01 Cheesy Troll Mix. [2-24-14] Sale is closed - TCR dtd 2-10-14. [2-24-14] Sale is closed - TCR dtd 2-10-14.
86	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.7	101	1-50	OPIC - FMD: Soils - Markey Mucky Peat Semi-open mix of lowland timber - too wet for operability. A few tamarack, paper birch and white pine are also present. The understory is a mix of lowland brush and scattered conifer regeneration.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
87	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.6	101	1-50	OPIC - FMD: Soils - Markey Mucky Peat Semi-open mix of lowland timber - too wet for operability. A few tamarack, paper birch and white pine are also present. The understory is a mix of lowland brush and scattered conifer regeneration.
88	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.3	101	1-50	OPIC - FMD: Soils - Markey Mucky Peat Semi-open mix of lowland timber - too wet for operability. A few tamarack, paper birch and white pine are also present. The understory is a mix of lowland brush and scattered conifer regeneration.
91	6122 - Black Spruce	Poletimber Well	2.3	93	81-110	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Small island of spruce surrounded by lowland brush/marsh - retain for its value as wildlife habitat while the large spruce stand to the east is being regenerated.
94	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	24.4	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
95	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	14.7	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
96	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	5.4	101	1-50	OPIC - FMD: Soils - Markey Mucky Peat Semi-open mix of lowland timber - too wet for operability. A few tamarack, paper birch and white pine are also present. The understory is a mix of lowland brush and scattered conifer regeneration.
98	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.4	83	51-80	OPIC - FMD: Soils - Markey Mucky Peat Island of mixed conifer surrounded by lowland brush. Some age variation is present - an average figure is shown.
101	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	3.3	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
102	42200 - Natural White Pine	Sawtimber Well	11.8	101	111-140	OPIC - FMD: Soils - Rubicon-Deford Complex 0-15% slopes Habitat - PARV Very large white pine over a variable mix of hardwood & softwood poles (6-10" DBH) on rolling terrain. Regeneration is primarily balsam fir and red maple, but spruce, cedar, white pine, hemlock, beech and some lowland brush are also present. Mixed softwood volume represents balsam fir, hemlock and white pine poles.
104	6120 - Lowland Cedar	Poletimber Well	6.2	103	81-110	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Cedar with red maple and large (16-30" DBH) white pine throughout, plus a few paper birch and black ash Mixed softwood represents spruce and balsam fir. Age class diversity is becoming more pronounced over time. The understory is a mix of conifer and lowland hardwood species, with lowland brush in the wetter areas.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
105	42200 - Natural White Pine	Sawtimber Well	4.5	101	81-110	OPIC - FMD: Soils - Rubicon-Deford Complex 0-15% slopes Habitat - PArV Rolling upland terrain featuring large white pine over a variety of conifers, red maple and paper birch. A few aspen are also present. The understory is dominated by a mix of balsam fir and red maple, but white pine, hemlock and spruce are also common. Mixed softwood pulp includes cedar, spruce and hemlock.
106	6120 - Lowland Cedar	Poletimber Well	11.1	103	81-110	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks and Markey Mucky Peat Wet site featuring cedar with red maple plus a few scattered white pine, paper birch and balsam fir. The understory is a mix of lowland conifers, hardwoods and brush. Site indices and age classes are variable.
107	42210 - Natural Red Pine	Sawtimber Medium	5.7	101	51-80	OPIC - FMD: Soils - Rubicon-Deford Complex 0-15% slopes Habitat - PArV Rolling upland terrain featuring large red & white pine over red maple and paper birch. The understory is dominated by a mix of balsam fir and red maple, but pines and spruce are also common. Mixed softwood pulp includes spruce and pine poles.
108	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	3.1	101	1-50	OPIC - FMD: Soils - Markey Mucky Peat Semi-open mix of lowland timber - too wet for operability. A few paper birch are also present. The understory is a mix of lowland brush and scattered conifer regeneration.
109	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	3.0	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
110	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	2.9	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
111	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	2.8	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
112	6120 - Lowland Cedar	Poletimber Well	3.8	103	81-110	OPIC - FMD: Soils - Markey Mucky Peat Wet site featuring cedar with a few spruce and tamarack. The understory is primarily cedar 0-2" DBH.
113	42210 - Natural Red Pine	Sawtimber Well	9.0	101	111-140	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Upland terrain supporting large red & white pine over a mix of 8-12" poles including pines, spruce, cedar, red maple and some large (5-6 stick) tamarack. A few paper birch and balsam fir are also present. Inaccessible - Too wet to get there across the marsh.
114	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	1.2	101	1-50	OPIC - FMD: Soils - Markey Mucky Peat Semi-open mix of lowland timber - too wet for operability. A few paper birch are also present. The understory is a mix of lowland brush and scattered conifer regeneration.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
115	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	2.2	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
117	42210 - Natural Red Pine	Sawtimber Medium	4.0	101	51-80	OPIC - FMD: Soils - Deford-Augres-Rubicon Deep Water Table Complex 0-15% slopes Secondary Habitat - PARV Rolling terrain featuring large red & white pine over red maple and paper birch. The understory is dominated by a mix of balsam fir and red maple, but pines and spruce are also common. Mixed softwood pulp includes spruce and pine poles.
118	42210 - Natural Red Pine	Sawtimber Medium	3.3	101	51-80	OPIC - FMD: Soils - Deford-Augres-Rubicon Deep Water Table Complex 0-15% slopes Secondary Habitat - PARV Rolling upland terrain featuring large red & white pine over red maple and paper birch. The understory is dominated by a mix of balsam fir and red maple, but pines and spruce are also common. Mixed softwood pulp includes spruce and pine poles.
119	6120 - Lowland Cedar	Poletimber Well	4.0	103	51-80	OPIC - FMD: Soils - Markey Mucky Peat Wet site featuring cedar with a few spruce and tamarack, shown here as mixed softwood. Also a few red maple, birch, balsam fir and white pine present. The understory is primarily cedar 0-2" DBH. Access across wetlands is questionable - hold for wildlife habitat.
120	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	1.7	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
121	6120 - Lowland Cedar	Poletimber Well	3.7	103	81-110	OPIC - FMD: Soils - Markey Mucky Peat Wet site featuring cedar with a few spruce and tamarack. The understory is primarily cedar 0-2" DBH. Access across wetlands is questionable - hold for wildlife habitat.
123	42210 - Natural Red Pine	Sawtimber Medium	10.1	101	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Last cut completed in 2002. Large red & white pine plus a few scattered pine poles.
126	42220 - Natural Jack Pine	Sapling Medium	1.2	39	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Young jack pine
127	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	30.1	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
129	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	1.0	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.
130	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	0.8	39	Unspecified	OPIC - FMD: Soils - Markey Mucky Peat Mix of jack pine and cedar regeneration.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
131	6122 - Black Spruce	Sapling Medium	3.2	39	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mix of spruce, fir, tamarack, red maple & jack pine regeneration - a few trees are reaching merchantable size.
132	6122 - Black Spruce	Poletimber Medium	6.1	54	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Slow-growing mix of spruce and jack pine on a wet site.
133	6122 - Black Spruce	Sapling Medium	3.1	20	Immature	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mixed regeneration - primarily black spruce with tamarack, jack pine & red maple mixed in. Additional regeneration (under snow at the time of the stand exam, and still becoming established) may bring this stand up to full stocking.
136	6122 - Black Spruce	Poletimber Poor	5.5	55	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Slow-growing spruce with a few tamarack etc. on a wet site. Site indices are low but vary within the stand. Lowland brush is also a major component of the understory. Old timber sale records indicate that some cutting was probably done here in about 1962-1963.
141	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	3.3	51	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Rolling terrain - Most of the paper birch has died out of this stand, leaving an unevenaged mix of large white pine, a few red maple and scattered young conifers. Mixed softwood includes white pine and balsam fir. The understory includes spruce, fir, jack & white pines, red maple and lowland brush.
142	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.9	101	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Rolling terrain - Most of the paper birch has died out of this stand, leaving an unevenaged mix of large white pine, a few red maple and scattered young conifers. Mixed softwood includes white pine and balsam fir. The understory includes spruce, fir, jack & white pines, red maple and lowland brush.
143	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.0	101	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Rolling terrain - Most of the paper birch has died out of this stand, leaving an unevenaged mix of large white pine, a few red maple and scattered young conifers. Mixed softwood includes white pine and balsam fir. The understory includes spruce, fir, jack & white pines, red maple and lowland brush.
144	42290 - Natural Mixed Pine	Poletimber Well	9.6	88	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Aspen & birch have died out, leaving red and white pine logs, a few jack & white pine poles, mixed softwood (balsam fir & spruce) and a few scattered red maple poles.
145	6122 - Black Spruce	Poletimber Well	4.6	88	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mixed timber on rolling (but generally low) terrain.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
146	6113 - Lowland Maple	Poletimber Medium	2.8	88	81-110	Small pocket of cedar in the north tip.
147	6126 - Lowland Jack Pine	Poletimber Poor	6.6	38	1-50	
148	6122 - Black Spruce	Poletimber Well	8.2	93	81-110	
149	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	1.7	101	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Rolling terrain - Most of the paper birch has died out of this stand, leaving an unevenaged mix of large white pine, a few red maple and scattered young conifers. Mixed softwood includes white pine and balsam fir. The understory includes spruce, fir, jack & white pines, red maple and lowland brush.
150	42320 - Upland Spruce	Poletimber Well	1.2	38	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa
152	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	1.7	51	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mix of slow-growing conifers on a wet site. The understory includes black spruce, tamarack and lowland brush. Mixed softwood represents tamarack and jack pine. Operability may be questionable.
153	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	1.2	51	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Rolling terrain - Most of the paper birch has died out of this stand, leaving an unevenaged mix of large white pine, a few red maple and scattered young conifers. Mixed softwood includes white pine and balsam fir. The understory includes spruce, fir, jack & white pines, red maple and lowland brush.
154	6122 - Black Spruce	Poletimber Well	4.1	93	111-140	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Spruce old enough to cut, but healthy enough to hold for another entry cycle in order to maintain some closed-canopy wildlife cover near Walsh Creek per WLD request.
159	6122 - Black Spruce	Poletimber Well	6.5	93	81-110	
160	42120 - Planted Jack Pine	Poletimber Medium	7.0	42	1-50	
163	42120 - Planted Jack Pine	Poletimber Well	6.7	42	81-110	
164	6112 - Lowland Aspen	Sapling Well	12.1	32	1-50	Just becoming merchantable.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
165	4130 - Aspen	Sapling Medium	1.8	32	Immature	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Young aspen on somewhat wetter ground than the surrounding jack pine. The understory includes scattered conifers, and a few merchantable (one-stick) jack pine are also present.
167	6112 - Lowland Aspen	Poletimber Medium	3.9	53	1-50	OPIC - FMD: Soils - some Finch-Spot Complex 0-3% slopes on the higher ground in the west half but mostly Deford Muck in the lower areas, particularly in the east half of this stand Habitat - PARVAa on the higher ground Mostly wet ground - the understory includes scattered conifers. Mixed volume includes balsam fir and red maple. 2017- moderately stocked stand, seems to be near rotation age, could cut now and possibly get a properly stacked aspen stand to regenerate depending on water table.
168	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	2.9	16	Immature	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mix of conifers - 2 acres were planted to red pine in 2002 with partial survival. Generally a mix of spruce, fir, red maple, aspen and the red pine.
169	42120 - Planted Jack Pine	Poletimber Well	1.2	40	81-110	
170	4130 - Aspen	Poletimber Well	3.0	42	51-80	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Young aspen - will be an A6 next entry, as many stems are not quite merchantable yet.
173	42120 - Planted Jack Pine	Poletimber Well	13.7	40	81-110	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Young jack pine - many stems are still only 4" DBH.
174	4130 - Aspen	Sapling Well	0.9	32	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV 2-3" DBH aspen on wetter ground than the surrounding jack pine. Scattered spruce/fir make up the understory.
177	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	2.8	101	1-50	OPIC - FMD: Soils - Deford Muck Wet site - Many paper birch have died out of this stand, leaving an unevenaged mix of surviving birch, a few spruce and scattered red maple. The understory includes spruce, fir, jack & white pines and red maple.
179	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	18.0	101	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Rolling terrain - Most of the paper birch has died out of this stand, leaving an unevenaged mix of large white pine, a few red maple and scattered young conifers. Mixed softwood includes white pine and balsam fir. The understory includes spruce, fir, jack & white pines, red maple and lowland brush.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
180	6122 - Black Spruce	Poletimber Well	8.2	83	51-80	OPIC - Spruce stand on slightly rolling terrain. In the understory, lowland brush is a major component in the wetter areas, while the dryer areas feature a mix of spruce, fir and red maple.
185	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	3.4	51	81-110	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Mix of birch, red maple and a few aspen over 1-2 stick spruce. Maintain for aesthetics until the regen in the adjacent stands is taller.
187	42110 - Planted Red Pine	Sapling Medium	6.0	16	Immature	OPIC - FMD: Soils - Augres-Deford Complex 0-3% slopes Habitat - PARVAa Cut under TS# 06-00-01 TCR dtd 6-13-01. [1-6-03] RFT: Red pine handplanted by inmates during 2002 under FTP# C41-950; schedule survival check for 2003. [6-18-04] Regen survey indicates that the stand is now stocked with a mix of acceptable species.
188	6120 - Lowland Cedar	Poletimber Well	1.1	98	111-140	OPIC - FMD: Soils - Augres-Deford Complex 0-3% slopes Habitat - PARVAa Cedar with a few spruce, red maple and jack pine.
191	4130 - Aspen	Sapling Well	8.8	33	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Aspen regeneration 1-4" DBH with variable site indices and some apparent age class diversity, but cutting records are unclear. For management purposes an average age is shown here. Mixed volume represents the scattered aspen, red maple, and jack pine that have reached merchantable size. Small pockets of young but merchantable cedar were also left when various cuts were executed.
192	6121 - Tamarack	Poletimber Medium	2.7	98	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Very wet terrain - inoperable. Maintain for wildlife habitat.
196	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	4.7	51	1-50	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Very wet site with a semi-open mix of tamarack & spruce, plus a few scattered red maple, paper birch, cedar and jackpine. The understory is mostly lowland brush with a few pockets of submerchantable spruce. Site indices are variable but generally low. Operability is highly questionable.
197	6122 - Black Spruce	Sapling Medium	5.3	16	Immature	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa
203	6130 - Fir, Aspen, Maple	Sapling Well	2.9	33	1-50	OPIC - FMD: Soils - Augres-Deford Complex 0-3% slopes Habitat - PARVAa Aspen regeneration 1-4" DBH with variable site indices and some apparent age class diversity, but cutting records are unclear. For management purposes an average age is shown here. Mixed volume represents the scattered aspen, red maple, and jack pine that have reached merchantable size. Small pockets of young but merchantable cedar were also left when various cuts were executed.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
204	42210 - Natural Red Pine	Sapling Medium	2.9	16	Immature	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV
206	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	2.5	101	51-80	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Wet but slightly rolling terrain - composition, density, structure and site indices change rapidly throughout. This stand is mainly spruce, but also includes cedar, tamarack, jack pine, red maple & paper birch, plus a few scattered red & white pine. Many of the cedar are 12" DBH and larger. The understory and ground cover spp. are also highly variable.
218	6122 - Black Spruce	Sapling Well	5.3	56	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Slow-growing black spruce & tamarack on wet ground. Site index & stand density vary with slight changes in elevation; DBH runs anywhere from 1-4 " with some trees up to 6-7". The site index given is a rough average, but stand history makes this somewhat unreliable. Timber sale records indicate that this stand was partially cut in 1962, and some merchantable trees were also cut during the last timber sale (2002.)
219	6122 - Black Spruce	Sapling Well	2.6	56	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Slow-growing black spruce & tamarack on wet ground. Site index & stand density vary with slight changes in elevation; DBH runs anywhere from 1-4 " with some trees up to 6-7". The site index given is a rough average, but stand history makes this somewhat unreliable. Timber sale records indicate that this stand was partially cut in 1962, and some merchantable trees were also cut during the last timber sale (2002.)
220	6122 - Black Spruce	Sapling Well	2.2	56	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Slow-growing black spruce & tamarack on wet ground. Site index & stand density vary with slight changes in elevation; DBH runs anywhere from 1-4 " with some trees up to 6-7". The site index given is a rough average, but stand history makes this somewhat unreliable. Timber sale records indicate that this stand was partially cut in 1962, and some merchantable trees were also cut during the last timber sale (2002.)
221	6122 - Black Spruce	Sapling Medium	1.3	56	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Slow-growing black spruce & tamarack on wet ground. Site index & stand density vary with slight changes in elevation; DBH runs anywhere from 1-4 " with some trees up to 6-7". The site index given is a rough average, but stand history makes this somewhat unreliable. Timber sale records indicate that this stand was partially cut in 1962, and some merchantable trees were also cut during the last timber sale (2002.)



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
226	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	1.2	56	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Slow-growing conifers (black spruce with some jack pine and/or tamarack) on wet ground. Site index & stand density vary with slight changes in elevation; DBH runs anywhere from 1-4 " up to pockets of 6-7" trees. The site index given is a rough average, but stand history makes this somewhat unreliable. In many places the understory is lowland brush. Timber sale records indicate that this stand was partially cut in the late 50's/early 60's, and some merchantable trees were also cut during the last timber sale (2002.)
228	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	5.4	16	Unspecified	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Cut in 2002 - Regeneration is mostly black spruce/tamarack with jack & white pines also well represented on the slightly higher areas. The understory varies from lowland shrubs to grass and a variety of herbaceous plants.
232	42210 - Natural Red Pine	Sawtimber Well	57.1	91	81-110	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Large red and white pine over a mix of spruce, jack pine, red maple, tamarack and balsam fir. Partially cut in approximately 1950, leaving the pine. Mixed pulpwood volume includes tamarack, balsam fir, birch, aspen and red pine poles. The understory is a mix of all species present plus areas of lowland brush. Due to the rolling terrain, site indices are somewhat variable.
236	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	18.6	68	51-80	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Large red and white pine over a mix of spruce, jack pine, red maple, etc. Partially cut in approximately 1950, leaving the pine. The understory is a mix of all species present plus areas of lowland brush. Due to the rolling terrain, site indices are somewhat variable. Thin the red & white pine logs and poles as needed, and cut all jack pine, spruce, tamarack, balsam fir, red maple, aspen and birch. Scarify wherever possible. Acceptable regeneration includes all conifer species. Retention guidelines will be addressed during sale preparation.
237	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	7.9	99	51-80	OPIC - FMD: Soils - Markey Mucky Peat Mixed stand on low, wet terrain - inoperable. Age class diversity is present, so the age shown is a reasonable average.
243	6120 - Lowland Cedar	Poletimber Well	4.9	103	81-110	OPIC - FMD: Soils - Markey Mucky Peat Inoperable - Wet site featuring slow-growing cedar with spruce & tamarack. Also a few red maple, birch, balsam fir and white pine present. The understory is primarily cedar 0-2" DBH and lowland brush.
244	4140 - Other Upland Deciduous	Poletimber Well	4.5	87	81-110	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mix of birch plus a few aspen, spruce, balsam fir and red maple. Hold for wildlife habitat - closed canopy cover for moose adjacent to the marsh. Some age class diversity is developing. Access is also difficult across the marsh.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
245	6122 - Black Spruce	Poletimber Well	5.6	87	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mix of spruce and a few larger red & white pine on rolling terrain. A few red maple, aspen, birch and balsam fir are also present. Stand density is somewhat variable, and in some places the understory is dominated by lowland brush. Access issues across the marsh may be a problem.
246	6122 - Black Spruce	Poletimber Well	2.7	87	51-80	OPIC - FMD: Soils - Markey Mucky Peat Spruce on wet ground. A few balsam fir, cedar, tamarack & red maple are also present. In places lowland brush dominates the understory. Access issues across the marsh may be a problem.
248	6126 - Lowland Jack Pine	Poletimber Medium	7.0	91	1-50	OPIC - FMD: Soils - Markey Mucky Peat Semi-open mix of slow-growing conifers with a few birch & red maple over lowland brush. Mixed softwood includes tamarack & cedar; mixed hardwood represents birch and red maple. Site indices are low but vary considerably with slight changes in elevation. Very wet and inoperable.
249	6122 - Black Spruce	Poletimber Well	1.9	87	51-80	OPIC - FMD: Soils - Markey Mucky Peat is shown on maps, but may be Finch-Spot Complex 0-3% slopes with PARVAa habitat. Mix of spruce and a few larger red & white pine on rolling terrain. Red maple, birch and balsam fir are also present. Stand density is somewhat variable, and in some places the understory is dominated by lowland brush. Mixed pulpwood represents birch, red maple and other conifers. Access issues across the marsh may be a problem.
250	6130 - Fir, Aspen, Maple	Poletimber Well	5.7	87	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Mix of aspen, birch, spruce, balsam fir and red maple. Some age class diversity is developing. Access across the marsh is very difficult.
254	42220 - Natural Jack Pine	Sapling Well	10.4	20	Immature	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Mix of jack pine & black spruce regeneration, with red pine, white pine and red maple regen also scattered throughout. In some spots the stocking is lighter, but the stand is still slowly filling in.
256	42210 - Natural Red Pine	Sawtimber Well	22.6	91	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Stand is now stocked to W2-W3 level with a mix that includes all the pine spp. and a variety of others including spruce, red maple, aspen and cherry brush. The residual 8-16" DBH red & white pine are healthy. 2017- Lots of white pine regen, some red pine. Could cut to seed tree level and scarify in hopes to promote more red pine.
257	4221 - Natural Red Pine	Sapling Well	8.7	16	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Stand is now stocked to R3 level with red pine seedlings 1-2' tall plus a mix includes spruce, jack & white pines red maple and tamarack. The residual 6-16" DBH red pine are healthy.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
263	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	7.6	101	1-50	OPIC - FMD: Soils - Markey Mucky Peat Poorly stocked lowland hardwoods with low site indices - too wet for operability.
264	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	4.0	101	51-80	OPIC - FMD: Soils - Markey Mucky Peat Unevenaged mix on rolling terrain.
267	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.4	101	81-110	OPIC - FMD: Soils - Finch Sand 0-3% slopes Habitat - PARVAa Mix of conifers and red maple on upland/transitional ground. Mixed log volume includes cedar and red maple. Many of the white pine log trees are 20-30" DBH. Hold this stand while the adjacent aspen is being regenerated.
268	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	6.4	51	1-50	OPIC - FMD: Soils - Markey Mucky Peat Conifer/red maple mix on wet ground - inoperable.
269	4134 - Aspen, Spruce/Fir	Poletimber Medium	2.8	89	1-50	OPIC - FMD: Soils - Markey Mucky Peat Aspen/red maple/birch mix on wet ground - inoperable. The understory is a mix of red maple, scattered conifers and lowland brush.
270	6122 - Black Spruce	Sapling Well	4.6	35	1-50	OPIC - FMD: Soils - Finch Sand 0-3% slopes Habitat - PARVAa Spruce/fir stand that appears to have been cut around the early-to-mid-80's.
271	4130 - Aspen	Sapling Well	2.6	35	1-50	OPIC - FMD: Soils - Finch Sand 0-3% slopes Habitat - PARVAa Aspen stand that appears to have been cut around the early-to-mid-80's.
275	611 - Lowland Deciduous Forest	Poletimber Poor	0.9	51	1-50	OPIC - FMD: Soils - Markey Mucky Peat Poorly stocked lowland hardwoods with low site indices - too wet for operability.
280	4119 - Mixed Northern Hardwoods	Poletimber Medium	0.5	65	1-50	OPIC - FMD: Soils - Markey Mucky Peat Red maple & a few aspen on an island of upland habitat. The understory is a mix of red maple and balsam fir. Probably inaccessible across the lowlands.
282	4119 - Mixed Northern Hardwoods	Poletimber Medium	3.4	51	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Red maple & a few aspen on an island of upland habitat. The understory is a mix of red maple and balsam fir. Probably inaccessible across the lowlands.
283	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	1.2	51	51-80	OPIC - FMD: Soils - Markey Mucky Peat Red maple/birch mix with a few spruce, fir and pine. The understory is a mix of conifers, red maple and lowland brush. Probably inoperable - too soft and wet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
284	4119 - Mixed Northern Hardwoods	Poletimber Medium	1.2	51	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Red maple & a few aspen on an island of upland habitat. The understory is a mix of red maple and balsam fir. Probably inaccessible across the lowlands.
286	42200 - Natural White Pine	Sawtimber Medium	1.2	101	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Island of upland habitat featuring arge red & white pine, plus scattered red maple and jack pine. The understory is a mix of red maple, white pine and a few balsam fir. Probably inaccessible across the lowlands.
287	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	1.5	101	51-80	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Island of upland habitat featuring jack pine, large red & white pine, plus scattered red maple and other conifers. The understory is a mix of red maple, white pine and a few balsam fir. Probably inaccessible across the lowlands.
290	4134 - Aspen, Spruce/Fir	Sapling Well	17.4	22	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Young aspen - understory is a mix of balsam fir, spruce and red maple.
291	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	1.2	51	51-80	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Red maple with scattered conifers on soft, wet ground.
297	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	1.3	22	Immature	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Wet area - Mixed regeneration (spruce, fir, tamarack, jack & white pines, red maple and birch) 0-4" DBH, many of which appear to be residuals from the previous stand that was cut in the mid-90's. Site index given is a rough estimate.
301	6122 - Black Spruce	Poletimber Poor	2.0	93	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Low, wet area with sparse timber. The understory varies from pure lowland brush to areas that are fully stocked with submerchantable conifers - mainly spruce. Site indices are extremely variable, and many areas appear to be inoperable. A few mature red & white pine logs are also present on elevated knobs.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
302	42320 - Upland Spruce	Poletimber Well	34.1	83	81-110	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Black spruce on gently rolling terrain with a few other conifers scattered throughout, including red & white pine logs on the higher knobs. Minor age class diversity exists, and site indices are also variable. The lowest areas have lowland brush in the understory. Healthy enough to hold until the regen in the adjacent stands grows up enough to provide wildlife cover. In many areas this should also add volume by allowing a significant number of 4-5" DBH trees to become merchantable.
310	42220 - Natural Jack Pine	Sapling Well	7.2	20	Immature	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Mixed regen, but primarily jack pine.
317	42220 - Natural Jack Pine	Sapling Well	1.0	38	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Young jack pine/spruce mix on a slightly elevated knob - a few are just reaching merchantable size.
318	42220 - Natural Jack Pine	Sapling Well	5.2	20	Immature	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Mix of jack pine and black spruce regen up to 10' tall - 2003 regen survey typed the stand as S3, but in many places the jack pine regen is taller than the spruce and will dominate the stand. Jack pine was the original management objective.
320	42220 - Natural Jack Pine	Sapling Medium	1.7	16	Immature	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Mixed regeneration including jack, red & white pines, spruce and red maple.
321	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	2.5	20	Immature	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Mixed regeneration spruce, tamarack, birch, pines and red maple.
323	42220 - Natural Jack Pine	Sapling Poor	0.8	16	Immature	
324	6122 - Black Spruce	Poletimber Poor	4.8	101	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Highway buffer - mix of spruce, aspen, hardwoods, etc. The understory includes all the same species plus lowland brush.
326	6122 - Black Spruce	Poletimber Medium	2.8	41	1-50	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Mix of spruce, jack & white pines, and aspen/birch/red maple. The understory includes all the same species plus lowland brush.

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 153
Year of Entry: 2019



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
340	42220 - Natural Jack Pine	Sapling Medium	1.8	20	Immature	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Mixed regen, but primarily jack pine.
343	6122 - Black Spruce	Poletimber Well	9.2	81	81-110	Portion of stand 299 that was left uncut.
344	613 - Lowland Mixed Forest	Poletimber Well	19.0	61	1-50	



Stand	Cover Type	Acres	Managed Site	General Comments:
1	122 - Road/Parking Lot	6.0	No	OPIC - FMD: Walsh Grade (road)
7	622 - Lowland Shrub	4.1	No	OPIC - FMD: Soils - Deford-Ausable-Tawas mucks, frequently flooded Lowland brush along Walsh Creek
8	500 - Water	1.2	No	OPIC - FMD: Walsh Creek east of the Walsh Grade, including seasonally flooded areas
9	622 - Lowland Shrub	2.4	No	OPIC - FMD: Soils - Deford-Ausable-Tawas mucks, frequently flooded Lowland brush along Walsh Creek
16	622 - Lowland Shrub	11.4	No	OPIC - FMD: Soils - Proper Fine Sand 0-6% slopes and Finch-Spot Complex 0-3% slopes Habitats - PVE and PARVAa This stand may have been aspen at one time, but that is now dead and gone. Natural succession has converted this to an unevenaged mix of conifers and low-quality hardwoods on a wet site. Scattered large (4-5 stick) spruce and larger white pine suggest that the site itself may be best suited to managing for conifers. Mixed hardwood pulp includes birches and cherry, while mixed softwood includes spruce and tamarack. Site index is estimated by using nearby stands. [8-03-10] Stand is now under contract TS 41-013-09-01 Cheesy Troll Mix. [2-24-14] Sale is closed - TCR dtd 2-10-14. Schedule regen survey in accordance w/the work instructions.
17	622 - Lowland Shrub	24.0	No	OPIC - FMD: Soils - Markey Mucky Peat Lowland brush with patches of open marsh and scattered merchantable trees included.
18	122 - Road/Parking Lot	24.8	No	
23	622 - Lowland Shrub	3.3	No	OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Spruce that is ready to cut - must deal with communication tower lease/trespass that is in this stand. Mixed softwood pulp includes jack pine and balsam fir. The existing understory is a mix of balsam fir, red maple and spruce. All commercial species are acceptable regeneration. Retention guidelines will be met. [8-03-10] Stand is now under contract TS 41-013-09-01 Cheesy Troll Mix. [2-24-14] Sale is closed - TCR dtd 2-10-14. Schedule regen survey in accordance w/the work instructions.
24	622 - Lowland Shrub	52.7	No	OPIC - FMD: Soils - Markey Mucky Peat and Carbondale-Lupton-Tawas Mucks Lowland brush with patches of open marsh and scattered merchantable trees included.



Stand	Cover Type	Acres	Managed Site	General Comments:
26	622 - Lowland Shrub	7.1		<p>OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa</p> <p>Mixed stand on rolling terrain - species composition and site indices vary significantly from the high ground to the lower wet areas, some of which support only pockets of lowland brush. The nature of the terrain necessitates winter logging. Mixed softwood consists of balsam fir, cedar, tamarack and a few hemlock; there are also a few scattered aspen and large white pine on the higher ground. The understory is primarily a mix of balsam fir, spruce and red maple, but cedar, tamarack, hemlock, black ash, paper birch and white pine are also represented there.</p> <p>Acceptable regeneration after harvest will consist of any mix of the commercial species present. Retention guidelines will be met.</p> <p>[8-03-10] Stand is now under contract TS 41-013-09-01 Cheesy Troll Mix. [2-24-14] Sale is closed - TCR dtd 2-10-14. Schedule regen survey in accordance w/the work instructions.</p>
27	622 - Lowland Shrub	3.1	No	<p>OPIC - FMD: Soils - Markey Mucky Peat and Carbondale-Lupton-Tawas Mucks Lowland brush with patches of open marsh and scattered merchantable trees included.</p>
41	622 - Lowland Shrub	43.3	No	<p>OPIC - FMD: Soils - Markey Mucky Peat and Carbondale-Lupton-Tawas Mucks Lowland brush with patches of open marsh and scattered merchantable trees included.</p>
42	622 - Lowland Shrub	12.2		<p>OPIC - FMD: Soils - Deford Muck</p> <p>Lowland brush with patches of open marsh and scattered merchantable trees included. Some areas may have enough trees (spruce, cedar, red maple and paper birch) to be called either a Q4 or E4, but site indices generally appear to be too low for classification as manageable timber and their boundaries are indistinct.</p>
46	622 - Lowland Shrub	5.0		<p>OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa</p> <p>The aspen is all but gone from this stand, leaving a mix of red maple, paper birch and balsam fir on rolling terrain that is dryer than the surrounding lowlands. Scattered cedar, spruce and white pine are also present. Balsam fir dominates the understory, and should provide acceptable growing stock for the next stand. Retain the cedar and white pine for retention guidelines. Access issues restrict this to winter-only harvest. [8-03-10] Stand is now under contract TS 41-013-09-01 Cheesy Troll Mix. [2-24-14] Sale is closed - TCR dtd 2-10-14. Schedule regen survey in accordance w/the work instructions.</p>
48	320 - Upland Shrub	15.0		<p>10/31/11 bb stand is now on proposal Leftover Walsh 26-11. retention area left as well 4' of white pine, 9' of cedar and 2' hemlock 12/3/12 RFT Stand is now under contract 41-026-11-01 Leftover Walsh. TCR 8/10/15</p>
50	6229 - Mixed lowland shrub	25.1		<p>10/31/11 bb stand is now on proposal Leftover Walsh 26-11. retention area left as well 4' of white pine, 9' of cedar and 2' hemlock 12/3/12 RFT Stand is now under contract 41-026-11-01 Leftover Walsh. TCR 8/10/15 Some scattered cedar pockets and occasional large white pine.</p>
54	622 - Lowland Shrub	4.4	No	<p>OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Scattered merchantable conifers and black ash are present, but the site indices appear to be too low to classify this stand as manageable timber.</p>
57	622 - Lowland Shrub	0.9	No	<p>OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
61	622 - Lowland Shrub	2.6	No	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Lowland brush with patches of mixed regeneration (mostly cedar, paper birch and red maple) starting to break through, and a few scattered merchantable trees.
66	622 - Lowland Shrub	17.0		[8-03-10] TS 41-013-09-01 Cheesy Troll Mix. Residual BA: w.pine = 4; cedar = 10; hemlock = 1; total = 15 sq.ft./acre.
68	622 - Lowland Shrub	1.1	No	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Low, wet area - light lowland brush and open grassy bog.
69	622 - Lowland Shrub	80.6	No	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Lowland brush with patches of open marsh and scattered merchantable trees included.
70	622 - Lowland Shrub	1.0	No	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Low, wet area - light lowland brush and open grassy bog.
73	622 - Lowland Shrub	2.9		OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Black spruce now ready to cut - the spruce that have not reached merchantable size are dying off, and blowdown is becoming evident in some places. Acceptable regeneration includes all conifer species. [8-03-10] Stand is now under contract TS 41-013-09-01 Cheesy Troll Mix. [2-24-14] Sale is closed - TCR dtd 2-10-14. Schedule regen survey in accordance w/the work instructions.
77	623 - Emergent Wetland	7.4	No	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Seasonally flooded marsh
81	622 - Lowland Shrub	2.5		OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Ready to cut - Acceptable regeneration includes all conifer species. [8-03-10] Stand is now under contract TS 41-013-09-01 Cheesy Troll Mix. Residual BA: w.pine =3; cedar = 2; total = 5 sq.ft./acre. [2-24-14] Sale is closed - TCR dtd 2-10-14. Schedule regen survey in accordance w/the work instructions.
83	622 - Lowland Shrub	24.0		[8-03-10] TS 41-013-09-01 Cheesy Troll Mix. Residual BA: w.pine =3; red pine = 5; total = 8 sq.ft./acre. [2-24-14] Sale is closed - TCR dtd 2-10-14. Schedule regen survey in accordance w/the work instructions.
89	622 - Lowland Shrub	164.8	No	OPIC - FMD: Soils - Markey Mucky Peat Lowland brush with patches of open marsh and scattered merchantable trees included. Some areas may have enough trees (spruce, cedar, red maple and paper birch) to be called either a Q4 or E4, but site indices generally appear to be too low for classification as manageable timber and their boundaries are indistinct.
90	622 - Lowland Shrub	1.8	No	OPIC - FMD: Soils - Markey Mucky Peat Lowland brush with patches of open marsh and scattered merchantable trees included.



Stand	Cover Type	Acres	Managed Site	General Comments:
97	500 - Water	12.2	No	OPIC - FMD: Walsh Creek west of the Walsh Grade and north of the powerline, including seasonally flooded areas
99	6229 - Mixed lowland shrub	10.6	No	
100	622 - Lowland Shrub	102.4	No	OPIC - FMD: Soils - Deford Muck and Markey Mucky Peat Lowland brush with patches of open marsh and scattered merchantable trees included. Some areas may have enough trees (spruce, cedar, red maple and paper birch) to be called either a Q4 or E4, but site indices generally appear to be too low for classification as manageable timber and their boundaries are indistinct.
103	622 - Lowland Shrub	14.7	No	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks Lowland brush with patches of open marsh and scattered merchantable trees included.
116	623 - Emergent Wetland	47.4	No	OPIC - FMD: Soils - Carbondale-Lupton-Tawas Mucks and ponded Histosols & Aquents Marsh/pond - Some water remains year-round but depth and area covered vary significantly from year-to-year and seasonally.
122	622 - Lowland Shrub	290.0	No	OPIC - FMD: Soils - Deford Muck and Markey Mucky Peat 2017- Lowland brush with patches of open marsh and scattered merchantable trees included. Some areas may have enough trees (spruce, cedar, red maple and paper birch) to be called either a Q4 or E4, but site indices generally appear to be too low for classification as manageable timber and their boundaries are indistinct.
125	320 - Upland Shrub	5.2		OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Ready to cut - reserve the scattered white pine. Acceptable regeneration includes all conifer species. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. See also FTP C41-1423 (jack pine regeneration.) Residual BA: White pine = 5; red pine = 3; total = 8 sq.ft./acre.
128	622 - Lowland Shrub	3.9		OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Ready to cut. Acceptable regeneration includes all conifer species. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. See also FTP C41-1423 (jack pine regeneration.)
134	6229 - Mixed lowland shrub	6.9		OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Ready to cut. Acceptable regeneration includes all conifer species. Mixed softwood includes tamarack and white pine. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. See also FTP C41-1423 (jack pine regeneration.) Residual BA: White pine = 3 sq.ft./acre.
137	6229 - Mixed lowland shrub	2.5		OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Ready to cut. Acceptable regeneration includes all conifer species. Mixed softwood includes tamarack and white pine. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. See also FTP C41-1423 (jack pine regeneration.)



Stand	Cover Type	Acres	Managed Site	General Comments:
138	622 - Lowland Shrub	18.3		<p>OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa</p> <p>Mix of spruce & jack pine - ready to cut. Mixed softwood includes tamarack and scattered white pine. Some age variation appears to be present, as pockets of thrifty but smaller diameter (4-5") spruce & jack pine are present within this stand. Cutting history is somewhat vague but suggests that these pockets were cut in the late 1950's and/or early 1960's. During timber sale preparation, these areas can be reserved to satisfy retention guidelines. Acceptable regeneration includes all conifers. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual BA: White pine = 2; paper birch = 3; total = 5 sq.ft./acre.</p>
151	500 - Water	2.0	No	OPIC - FMD: Walsh Creek west of the Walsh Grade and south of the powerline, including seasonally flooded areas
155	622 - Lowland Shrub	9.0	No	OPIC - FMD: Soils - Deford-Ausable-Tawas Mucks, frequently flooded Lowland brush along Walsh Creek
156	622 - Lowland Shrub	7.7	No	OPIC - FMD: Soils - Deford-Ausable-Tawas Mucks, frequently flooded Lowland brush along Walsh Creek
172	320 - Upland Shrub	11.0		<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARVMixed plantation - scotch, red & jack pines plus a few scattered aspen volunteers. Many stems are still only 4" DBH. To eradicate the scotch pine this stand must be clearcut - reserve the red pine for aesthetics. Chipping is the only viable method that will insure removal of all the scotch pine. Follow up with TSI (inmates w/handtools) as needed if any scotch pine remain, then plant jack pine.[6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. See also FTP's C41-1422 (jack pine planting) and W41-1421 (scotch pine removal.) Residual BA: Red pine = 8 sq.ft./acre.</p>
175	622 - Lowland Shrub	82.0	No	OPIC - FMD: Soils - Deford Muck Lowland brush with patches of open marsh and scattered merchantable trees included. Some areas may have enough trees (spruce, cedar, red maple and paper birch) to be called either a Q4 or E4, but site indices generally appear to be too low for classification as manageable timber and their boundaries are indistinct.
178	622 - Lowland Shrub	3.0		<p>OPIC - FMD: Soils - Deford Muck</p> <p>Jack pine mix on wet ground - acceptable regeneration includes all conifer species. The understory is dominated by lowland brush with scattered conifer regeneration. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual BA: paper birch = 10 sq.ft./acre.</p>
184	623 - Emergent Wetland	9.2	No	OPIC - FMD: Soils - Histosols and Aquepts, ponded Open flooded marsh with a few patches of light lowland brush and an island (less than 0.2 acre) of spruce. Water levels vary seasonally.
194	320 - Upland Shrub	2.1		<p>OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa</p> <p>Ready to cut - a mix of jack pine, spruce and other conifers is acceptable regeneration. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
198	622 - Lowland Shrub	13.2		<p>OPIC - FMD: Soils - Finch-Spot Complex 0-3% slopes Habitat - PARVAa Ready to cut - a mix of jack pine, spruce and other conifers is acceptable regeneration. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin.</p>
202	622 - Lowland Shrub	92.4	No	<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Lowland brush with patches of open marsh and scattered merchantable trees included. Many small areas have enough trees (spruce, cedar, tamarack, red maple, paper birch, etc.) to be called either a Q4/5 or E4/5, but site indices are generally low, access is difficult, and their stand acreages/volumes would be too small to justify the costs of treatments.</p>
205	622 - Lowland Shrub	5.0	No	<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Lowland brush with scattered merchantable trees included.</p>
207	320 - Upland Shrub	0.4		<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Island of mature jack pine - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin.</p>
208	320 - Upland Shrub	0.9		<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Island of mature jack pine - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual BA: Red pine = 25 sq.ft./acre.</p>
209	320 - Upland Shrub	0.4		<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Island of mature jack pine - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration. [2-2-09 RFT] Stand is now factor limited due to inadequate volume - This stand was actually under one acre in size. During field preparation for inclusion in a timber sale, it was discovered that excessive mortality has occurred since the inventory was done, and the remaining volume/value does not justify harvesting. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin.</p>
210	320 - Upland Shrub	1.0		<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Island of mature jack pine - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
211	320 - Upland Shrub	1.8		<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Island of mature jack pine with a few red & white pine logs - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual BA: White pine = 3; red pine = 3; total = 6 sq.ft./acre.</p>
212	320 - Upland Shrub	2.0		<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Island of mature jack pine with a few red & white pine logs - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual BA: White pine = 20; red pine = 3; total = 23 sq.ft./acre.</p>
222	6225 - Bog	24.1	No	<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARV Boggy area with a wet grass & a few submerchantable conifers</p>
234	622 - Lowland Shrub	68.4	No	<p>OPIC - FMD: SCA - ERA Patterned Fen (Creighton Marsh) Soils - Markey Mucky Peat 2007- Lowland brush with patches of open marsh and scattered merchantable trees included. Some areas may have enough trees (spruce, cedar, red maple and paper birch) to be called either a Q4 or E4, but site indices generally appear to be too low for classification as manageable timber and their boundaries are indistinct.</p>
235	622 - Lowland Shrub	53.5	No	<p>OPIC - FMD: SCA - ERA Patterned Fen (Creighton Marsh) Soils - Markey Mucky Peat 2007-Lowland brush with patches of open marsh and scattered merchantable trees included. Some areas may have enough trees (spruce, cedar, red maple and paper birch) to be called either a Q4 or E4, but site indices generally appear to be too low for classification as manageable timber and their boundaries are indistinct.</p>
239	622 - Lowland Shrub	4.9	No	<p>OPIC - FMD: Soils - Markey Mucky Peat Lowland brush/open marsh with a few scattered trees included.</p>
242	500 - Water	5.0	No	<p>OPIC - FMD: Walsh Creek in the NW 1/4 of section 19 T46N R15W, including seasonally flooded areas</p>
251	622 - Lowland Shrub	1.0	No	<p>OPIC - FMD: Soils - Markey Mucky Peat Lowland brush/open marsh with a few scattered trees included.</p>
265	320 - Upland Shrub	8.2		<p>OPIC - FMD: Soils - Markey Mucky Peat Upland aspen/conifer mix ready to cut - TSI to regenerate aspen. Retention guidelines will be met at the time of sale preparation. Acceptable regen will include all species present. SALE PREPARATION NOTE: When preparing this stand, include stands # 21 & 49 in Cmp 155 (adjacent to the west) in the timber sale. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. See also FTP W41-1420 (aspen TSI.) Residual BA: White pine = 3; cedar = 13; total = 16 sq.ft./acre.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
272	320 - Upland Shrub	1.6		<p>OPIC - FMD: Soils - Finch Sand 0-3% slopes Habitat - PARVAa</p> <p>Mix of birch, balsam fir and a few surviving aspen on upland/transitional ground. The understory is a mix of red maple and balsam fir.</p> <p>Ready to harvest - retention guidelines will be met at the time of sale prep. Acceptable regen will include all species present.</p> <p>SALE PREPARATION NOTE: When preparing this stand, include stands # 21 & 49 in Cmp 155 (adjacent to the west) in the timber sale.</p> <p>[6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. See also FTP W41-1420 (aspen TSI.) Residual BA: White pine = 3 sq.ft./acre.</p>
273	622 - Lowland Shrub	1.9		<p>OPIC - FMD: Soils - Finch Sand 0-3% slopes Habitat - PARVAa</p> <p>Mix of aspen, birch, balsam fir and red maple on upland/transitional ground. The understory is a mix of red maple and balsam fir.</p> <p>Ready to harvest - retention guidelines will be met at the time of sale prep. Acceptable regen will include all species present.</p> <p>SALE PREPARATION NOTE: When preparing this stand, include stands # 21 & 49 in Cmp 155 (adjacent to the west) in the timber sale.</p> <p>[6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. See also FTP W41-1420 (aspen TSI.)</p>
274	622 - Lowland Shrub	155.6	No	<p>OPIC - FMD: Soils - Markey Mucky Peat</p> <p>Lowland brush with patches of open marsh and scattered merchantable trees included. Some areas may have enough trees (spruce, cedar, red maple and paper birch) to be called either a Q4 or E4, but site indices generally appear to be too low for classification as manageable timber and their boundaries are indistinct.</p>
276	622 - Lowland Shrub	1.1		<p>OPIC - FMD: Soils - Markey Mucky Peat</p> <p>Red maple/birch mix with a few spruce, fir and pine. The understory is a mix of conifers and red maple.</p> <p>Ready to harvest - retention guidelines will be met at the time of sale prep. Acceptable regen will include all species present.</p> <p>[6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual BA: red pine = 5 sq.ft./acre.</p>
277	622 - Lowland Shrub	2.2		<p>OPIC - FMD: Soils - Markey Mucky Peat</p> <p>Mix of red maple & cedar on transitional ground. The understory is a mix of red maple and balsam fir.</p> <p>Ready to harvest - retention guidelines will be met at the time of sale prep. Acceptable regen will include the same species present.</p> <p>[6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual BA: cedar = 95 sq.ft./acre.</p>
288	500 - Water	2.7	No	OPIC - FMD: flooded borrow pit along Highway M-28
289	500 - Water	3.2	No	OPIC - FMD: flooded borrow pit along Highway M-28
294	622 - Lowland Shrub	8.0	No	<p>OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PARVLow, wet area - light lowland brush and open grassy bog.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
299	622 - Lowland Shrub	18.2		OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArVMature black spruce on rolling terrain with a few other conifers scattered throughout, including red pine logs on the higher knobs. Stand breakup (blowdown) is becoming evident. Harvest ASAP - retention guidelines will be met at the time of sale preparation. All conifer species are acceptable regeneration.[6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual BA: red pine = 2; white pine = 1; total = 3 sq.ft./acre.
306	622 - Lowland Shrub	6.7	No	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArVLow, wet area - light-to-heavy lowland brush.
309	622 - Lowland Shrub	57.7	No	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArVLow, wet area - light-to-heavy lowland brush.
325	6229 - Mixed lowland shrub	5.2		OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Spruce with some jack pine, tamarack and a few aspen & red maple. The understory is a mix of spruce, red maple, a few aspen clones and lowland brush. Blowdown/breakup is occurring - harvest now. All species present are acceptable regeneration. Retention guidelines will be met at the time of sale preparation. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual trees: A few scattered red pine & paper birch.
335	320 - Upland Shrub	0.5	No	OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Ready to cut - Retention guidelines will be met at the time of sale preparation. Acceptable regen includes all conifer species. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin. Residual trees: A few scattered red pine.
336	320 - Upland Shrub	0.5		OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Mature jack pine with a few scattered red pine - ready to cut. Acceptable regeneration will be all pines and spruce. Retention guidelines will be met at the time of sale preparation. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin.
338	320 - Upland Shrub	1.3		OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Mature jack pine/spruce with a few tamarack etc. - ready to cut. Acceptable regeneration will be all conifers. Retention guidelines will be met at the time of sale preparation. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin.
339	320 - Upland Shrub	2.8		OPIC - FMD: Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Mature jack pine with a few red & white pine logs, tamarack, etc. - ready to cut. Acceptable regeneration will be all conifers. Retention guidelines will be met at the time of sale preparation. [6-19-10] Stand is now under contract TS 41-010-09-01 Raisins in the Muffin.



Stand	Cover Type	Acres	Managed Site	General Comments:
401	3102 - Grass	2.0	Yes	OPIC - FMD: POWERLINE
402	3102 - Grass	1.0	No	OPIC - FMD: Soils - 26A Finch-Spot Complex 0-3% slopes Habitat - PARVAa Grassy opening
404	3102 - Grass	12.2	No	OPIC - FMD: POWERLINE - many patches of young conifers 2-4' tall, but the power company maintains the r.o.w.