



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61041

Entry Year 2017

Acreage: 3,174

County Grand Traverse

Management Area: Williamsburg Moraine

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**Revision Date:** 2015-05-27

**Stand Examiner:** Pat Ruppen

**Legal Description:**

T27N - R09W - Sec. 7, 8, 9, 10, 15, 16, 17, 18

**Identified Planning Goals:**

This compartment is within the Williamsburg Moraine Management Area(MA). Vegetation management in this (MA) will provide various forest products; maintain or enhance wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; and provide for forest-based recreational uses. Three main management objectives identified for this management area for this 10-year planning period include: (1)improving the age-class structure of aspen. , (2) regenerating oak, (3) the continuation of management through selection or restarting harvests of red pine and upland hardwood communities.

This compartment falls within land-type associations 1111 and 1122 of sub-subsection VII.5.1. LTA 1111, which occurs in the southwestern two-thirds of the compartment, is characterized by steep broken moraine ridges, few kettle lakes, and excessively drained sandy soil. The circa 1800 vegetation of LTA 1111 was American beech/sugar maple and white pine/beech/red maple forests. MIRIS current land cover maps show LTA 1111 to be dominated by aspen/birch, hardwood, and conifer woodlands. LTA 1122, which occurs in the northeastern portion of the compartment, is characterized by steep broken moraine ridges and well drained loamy sand and sandy loam. Circa 1800, LTA 1122 was characterized by American beech/sugar maple forests. LTA 1122 is presently characterized by cropland and Northern hardwood forests. Several management concerns were identified in this re-inventory process. Several mature jack pine stands remain that have shown poor growth and form on these soils. In addition, they have moderate storm damage and mortality. Most of this acreage will be prescribed for final harvest and re-planting to red pine. In addition some previously harvested jack pine stands have robust jack pine regeneration, but due to this specie's poor performance on these soils it is recommended that these stands be chopped and re-planted to red pine. Hardwood stands in this compartment have been thinned in the past with little success at recruiting new age classes of desirable species in the understory. This is likely due to selective deer browsing on desirable species, (oak and northern hardwoods), which was noted in inventory. Most stands have moderate to heavy ironwood and beech understory at this time. A number of possible oak wilt infection centers have been identified in this compartment. They will be evaluated and a determination of treatment options will be made. If necessary, red oak salvage harvests will be prescribed in these stands. Red oak found in this compartment is of high quality but the ability to regenerate oak by sprouting or seeding seem to be very limited due to browsing concerns and the beech and ironwood seed bank. Several red pine stands were also identified that have moderate beech and ironwood understory and poor northern hardwood seedling recruitment. It is recommended that these stands are harvested and re-planted to red pine to build the soil potential on these sites. Many of these pine stands were originally planted on agricultural fields with depleted soils. Some remnant Christmas Tree fields and Scotch Pine stands were found in Section 7. An effort should be made to eliminate this Scotch Pine seed source as it is very invasive on these soils.

Wildlife habitat management objectives include increasing the structural complexity of upland hardwood communities for forest interior species; perpetuating early-successional communities for young-forest-dependent species, hunting and other wildlife-related recreation opportunities; maintaining soft and hard mast sources including oak. Expected trends within this 10-year planning period are: increased recreational pressure, especially on established trails; increased oil and gas development; issues with introduced pests and diseases, especially beech bark disease oak wilt and emerald ash borer; an increased need to regenerate oak and red pin

**Soil and topography:**

Rubicon sands. Compartment is slightly rolling to rolling.

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

Scattered State – Private ownership within and around the comp. Heavy residential development occurring around comp. This area receives heavy recreational use throughout the year from skiers, bikers, hikers and hunters.

**Unique Natural Features:**

## **Archeological, Historical, and Cultural Features:**

## **Special Management Designations or Considerations:**

Visual and BMP considerations along all lakes, bogs, marshes, streams and recreational trails.

## **Watershed and Fisheries Considerations:**

This compartment contains both Acme Creek and Follet Creek, which is a tributary to Williamsburg Creek. Follet Creek supports a naturally reproducing brook trout population. Acme Creek is a designated trout stream that supports naturally reproducing brown trout, rainbow trout, brook trout, coho salmon and Chinook salmon. Reasonable buffers (as outlined in Water Quality Management Practices on Forest Land) should be adhered to around all streams in this compartment. Existing buffers appear to be appropriate for the proposed treatments.

## **Wildlife Habitat Considerations:**

The SW half of the compartment lies on a steep moraine ridge (LTA 1111). Soils are sandy and excessively drained. Within this compartment, aspen stands, northern hardwoods, red pine plantations, and forested openings are located on this LTA type. The NE portion of Compartment 41 consists of a moraine ridge with well drained loamy sands (LTA 1122). Habitat types are similar to those of LTA 1111.

Ruffed grouse use different aged aspen throughout their life cycle. Younger stands provide cover while older stands provide catkins (food source) for the winter months. Within each compartment, clear cutting helps facilitate different sized aspen trees by mimicking the necessary disturbance vital for regeneration. The inclusion of coarse woody debris (CWD) for drumming logs and maintaining berry-producing shrubs is also desirable. Wildlife considerations for northern hardwood stands involve maintaining tree species diversification, the inclusion of den/nesting trees & snags, CWD, and maintaining a scattering of mast-producing trees/shrubs. This will insure use by many species of wildlife. Examples of species include scarlet tanager, raccoon, broad-winged hawk, wild turkey, and white-tailed deer. Many wildlife species rely on small forest openings. These openings provide grassy nest sites, plentiful seeds and insects, and cover. Examples of species include northern flicker, eastern chipmunk, and blue racer. Hand felling with chainsaws may be needed to maintain this forest edge habitat.

## **Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no current economic use for the Coldwater. A gravel pit is located one mile to the east and there should be good potential. This area is located along the north edge of the prolific Niagaran reef trend and has had minor previous production. Most of the Compartment is leased for oil and gas exploration. Additional reefs could be found in the compartment or the Antrim Shale may be developed in this area.

## **Vehicle Access:**

No new roads are needed and no closures.

## **Survey Needs:**

## **Recreational Facilities and Opportunities:**

A section of the Vasa non-motorized pathway is located in the SW corner of this compartment, and a short section of Snowmobile Trail #55 (Boardman Valley Snowmobile Trail) is located in the SE corner of this compartment. Trail protection specifications should be included in any timber sale impacting these recreational facilities. Specifically, measures identified in DNR Policy & Procedures "32.22XX Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails" should be adhered to. Fishing and hunting are also popular within this compartment (T.M.N. 12/9/14).

## **Fire Protection:**

: This area is protected by Grand Traverse Fire Dept. Battalion # 3, and DNR protection is from the Traverse City Field Office. Access is acceptable. There is not a lot of recent wildfire in this compartment. Fires that have occurred have been fairly small. It is mostly hardwood, with some scattered pine. There is quite a bit of residential activity occurring around this compartment, so Urban Interface issues could be a problem in the future.

## **Additional Compartment Information:**

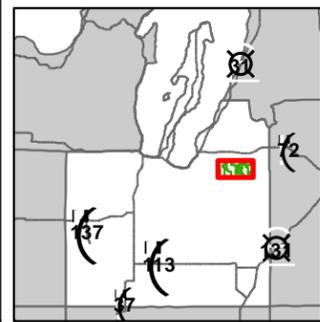
**The following reports from the Inventory are attached:**

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

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

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

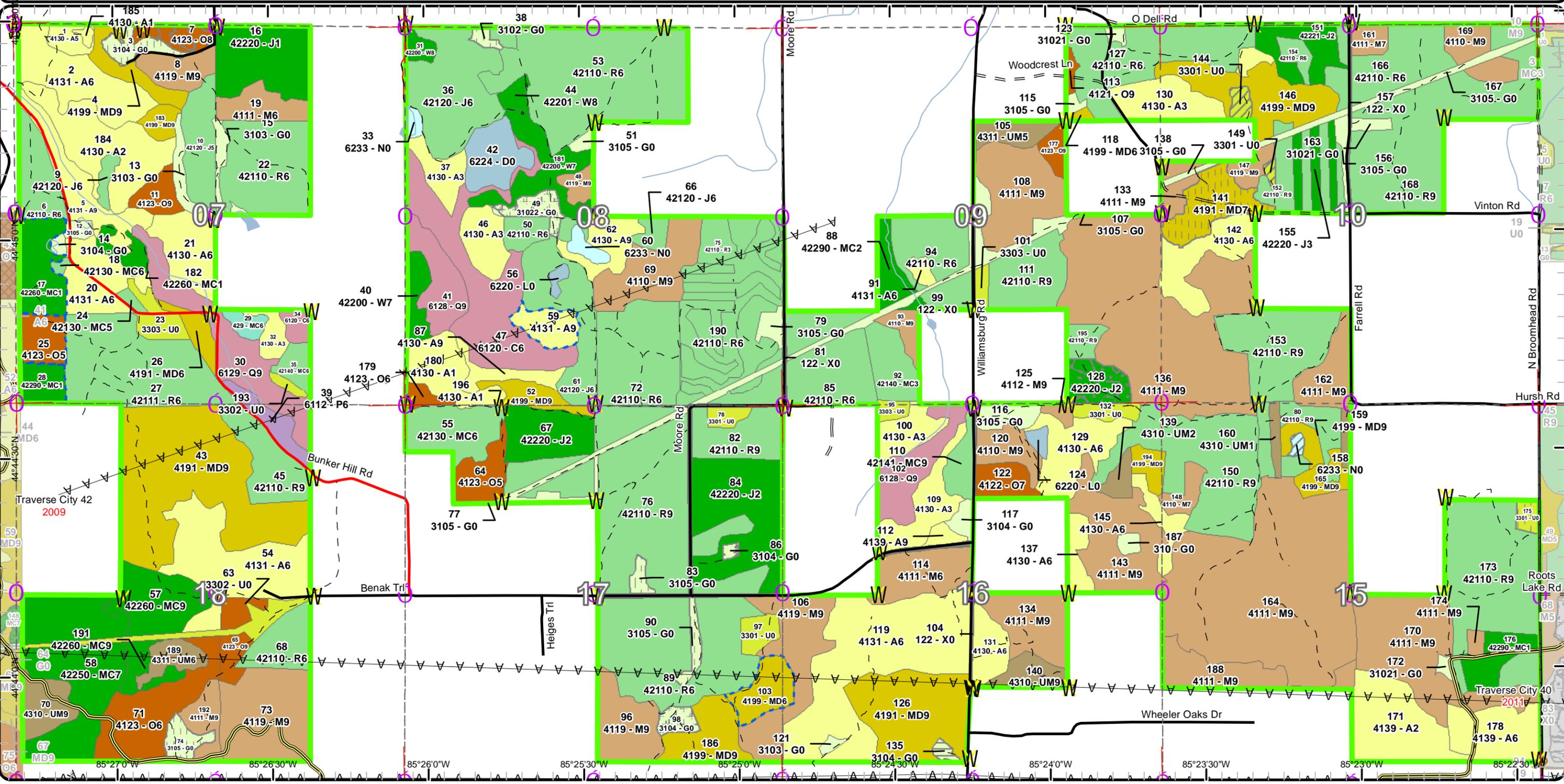
# Cover Type & Treatments



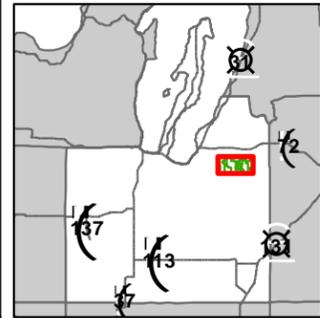
Compartment: 41  
 T27N R09W 07-10, 15-18  
 Grand Traverse  
 Unit: Traverse City  
 Mgmt Area: Williamsburg Moraine  
 YOE: 2017  
 Acres: 3174 GIS Calculated  
 Examiner: Pat Ruppen  
 Map Revised: 6/24/2015  
 Map Phase: Pre-Review



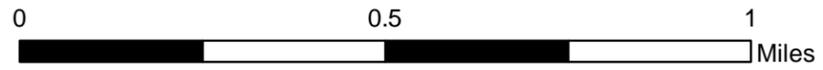
- Remonumented Section Corners
- W Survey Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- = Gravel Roads
- - Poor Dirt Roads
- - County Poor Dirt Roads
- Campground
- Rivers
- Lakes
- A A Powerline
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Planting (tree species)
- Other Treatment - See Comments
- Opening Maintenance
- Regeneration Survey
- Thinning (Crown, Low, Systematic)
- Forest Coverture
  - 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Coverture
  - 122 - Roads/Parking Lot
  - 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



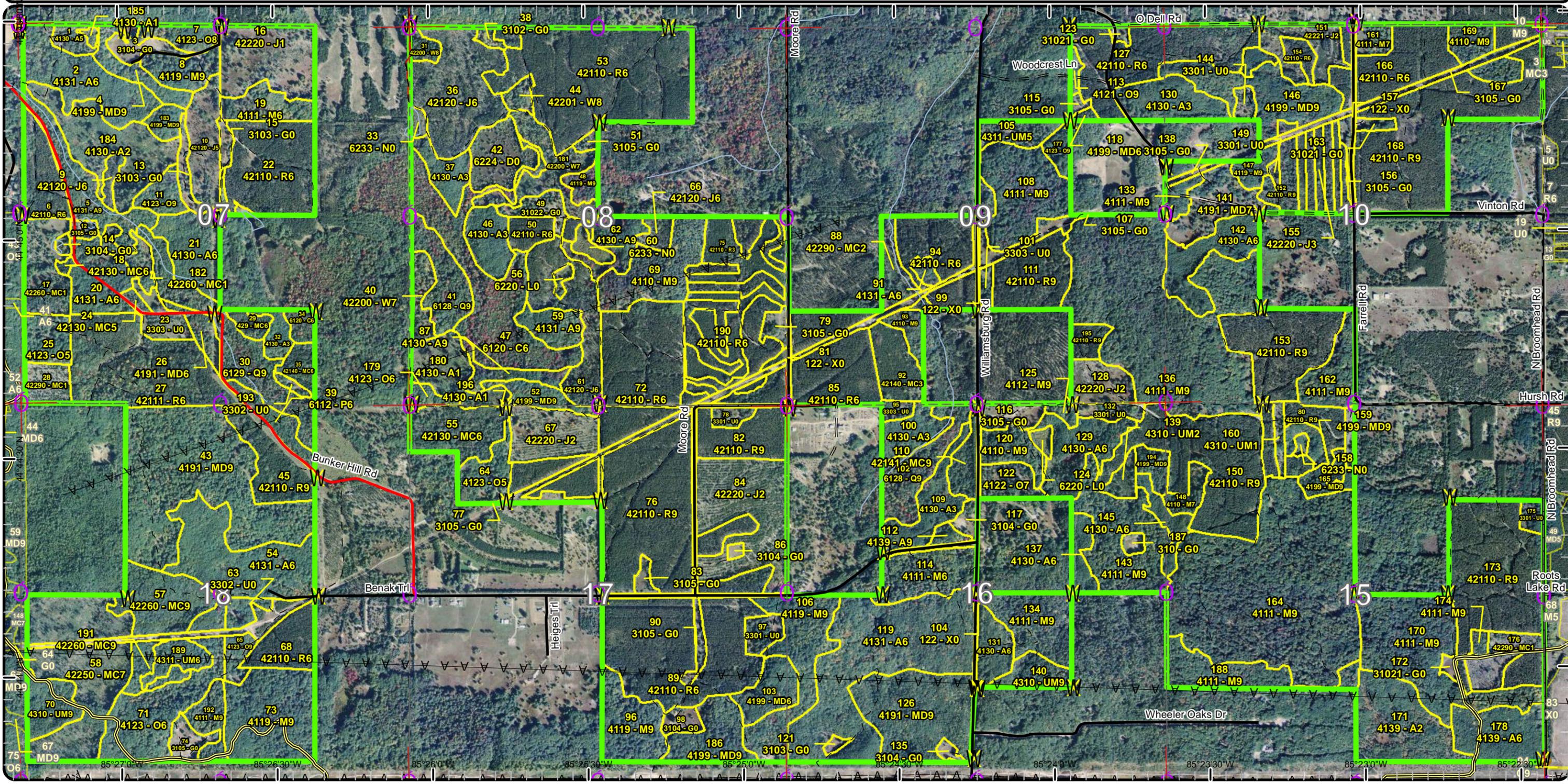
# Stand Boundary Map



Compartment: 41  
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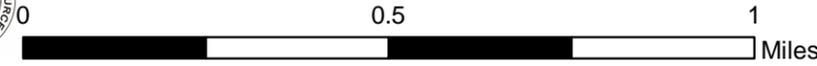
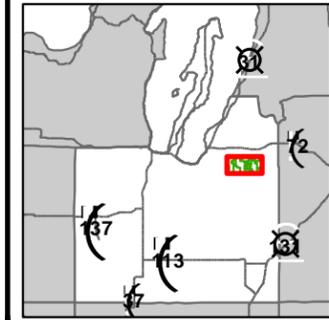


- Remonumented Section Corners
- Forest Covertypes
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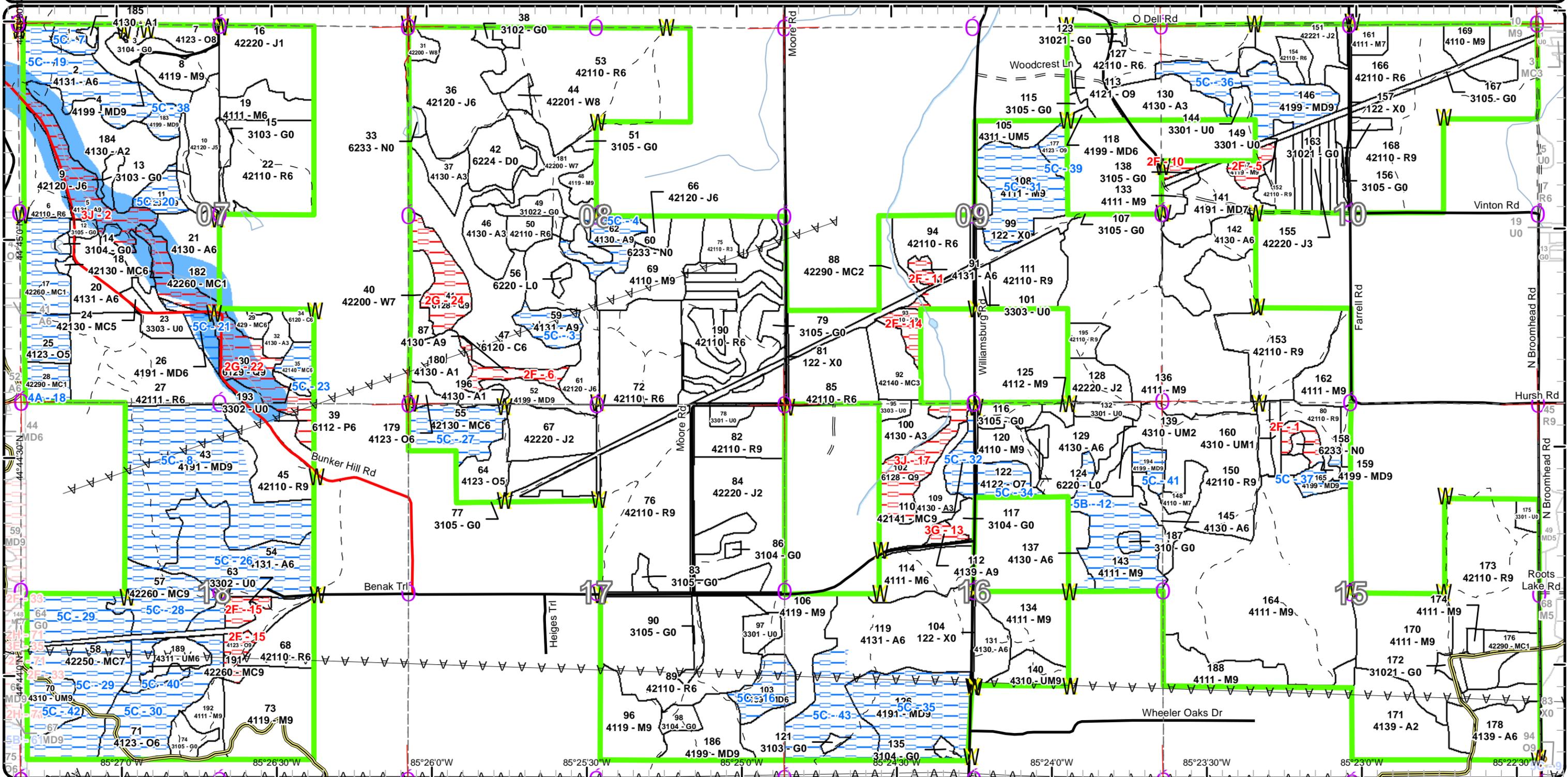


# Special Conservation Areas & Site Conditions Map

Compartment: 41  
 T27N R09W 07-10, 15-18  
 Grand Traverse  
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- Remonumented Section Corners Site Condition
- Survey Grade GPS Corners
- Miris Corners
- County Paved Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Campground
- Rivers
- Powerline
- Stand Boundaries
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints**
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- Special Conservation Areas**
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	50	33	101	42	52	107	43	50	0	3	0	0	0	0	0	0	0	481
Cedar	0	0	0	0	0	0	0	0	0	0	4	49	0	0	0	0	0	0	53
Herbaceous Openland	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107
Jack Pine	0	54	71	0	0	0	92	0	0	0	0	0	0	0	0	0	0	0	217
Low-Density Trees	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Aspen/Balsam Poplar	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	0	0	16	31	18	0	0	0	0	0	0	65
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	64	0	62	12	5	100	0	0	0	0	0	0	243
Natural Mixed Pines	0	11	41	0	0	0	0	7	22	0	54	0	0	0	0	0	0	0	135
Northern Hardwood	0	0	0	0	0	0	0	0	16	0	331	277	0	0	0	0	0	5	629
Oak	0	0	0	0	0	0	22	0	3	16	47	5	0	0	0	0	0	2	95
Planted Mixed Pines	0	0	14	0	20	9	0	0	0	7	0	0	0	0	0	0	0	0	50
Red Pine	0	0	36	0	0	0	829	53	0	0	0	0	0	0	0	0	0	0	918
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	6	4	8	0	0	17	0	0	0	12	0	0	0	0	0	0	0	47
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
White Pine	0	0	0	0	0	3	7	3	19	0	0	0	0	0	0	0	0	0	32
<b>Total</b>	<b>199</b>	<b>121</b>	<b>199</b>	<b>109</b>	<b>70</b>	<b>68</b>	<b>1138</b>	<b>106</b>	<b>172</b>	<b>51</b>	<b>487</b>	<b>449</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>3176</b>





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
7	61041007-Monitor	5.7	4123 - Red Oak	Sawtimber Medium	97	51-80	Monitoring	Natural Regen (Re-Inventory)	4123 - Red Oak	Two-Aged	Draft Field Boundary

**Habitat Cut: Yes**

**Site Condition:**

Prescription  
Specs:

Next Step  
Treatments:

Acceptable Regen: oak, maple, white pine, red pine, aspen, jackpine

Other Comment: Percent to Treat = 100% Old next step comments:

Proposed Start Date: 10/1 /2020

16	61041016-Prep	28.5	42220 - Natural Jack Pine	Sapling Poor	6	Immatu re	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription TMS to evaluate site to determine how to prepare site for planting. Jack pine has regenerated in thick patches in stand but the perimeter has poor regeneration. Jack pine has poor growth and form on this soil and it would be desirable to replace it with red pine if the site can be prepared for planting. Slopes and slash are a concern as well as eliminating the advanced jack pine and cherry regeneration.

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

Acceptable Regen: red pine, with some oak, aspen, maple.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

17	61041017-Prep	17.8	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	15	Immatu re	SitePrep	Other - Specify	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: Yes**

**Site Condition: No Markets**

Prescription Eliminate existing remnants of Christmas tree plantation and other un-merchantable vegetation to prep site for trenching and planting. TMS to investigate.

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

Acceptable Regen: red pine oak

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

18	61041018-Cut	0.9	42130 - Planted Scotch Pine	Poletimber Well	43	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Harvest all scotch pine to remove seed source from this area. Trench and plant with red pine.

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

Acceptable Regen: red pine. oak, white pine, northern hardwoods.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
23	61041023-Prep	7.7	3303 - Mixed Low Density Trees	Nonstocked			SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Proposal

**Habitat Cut: Yes**

**Site Condition:**

Prescription Chop site to eliminate scotch pine, autumn olive and other vegetation. Mature scotch pine should be harvested with stand 24. Trench and plant with stand 24 and 182 after site preparation.  
Specs:

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

Acceptable Regen: red pine, white pine, oak, aspen, maple, basswood

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

24	61041024-Cut	1.6	42130 - Planted Scotch Pine	Poletimber Medium	43	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Harvest scotch pine to remove seed source from this area. It is very invasive and seeding in all over surrounding ground.  
Specs:

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

Acceptable Regen: red pine, oak, aspen, northern hardwoods.

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

25	61041025-Cut	10.0	4123 - Red Oak	Poletimber Medium	55	51-80	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Proposal
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**Habitat Cut: No**

**Site Condition: No Markets**

Prescription Retain some well formed oak and chip harvest remaining stems to prep site for trenching and planting. Treat wit stands 17 and 28. These treatments are non commercial at this time.  
Specs:

Next Step Treatments:

Acceptable Regen: red pine, oak, white pine

Other Comment: scotch pine needs to be controlled in stand. Old next step comments:

Proposed Start Date: 10/1 /2016

28	61041028-Prep	8.1	42290 - Natural Mixed Pine	Sapling Poor	15	Immature	SitePrep	Scarification	42110 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: Yes**

**Site Condition: No Markets**

Prescription Mechanically eliminate remnants of old Christmas tree plantation. Trench and plant site after treatment. Seed from scotch pine is a concern.  
Specs: TMS to evaluate.

Next Step Treatments:

Acceptable Regen: planted red pine/ oak

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
29	61041029-Cut	2.6	429 - Mixed Upland Conifers	Poletimber Well	43	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Proposal

**Habitat Cut: No**                      **Site Condition:**

Prescription Harvest all scotch pine to remove seed source from this area.  
Specs:

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

Acceptable red pine white pine, oak, northern hardwoods  
Regen:

Other Scotch pine is very invasive in this area and has seeded in adjacent stands. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

31	61041031-Cut	3.5	42200 - Natural White Pine	Sawtimber Medium	60	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**                      **Site Condition:**

Prescription Harvest weeviled white pine. Retain some widely scattered well formed oak and pine then trench and plant stand to red pine. Treat with stand  
Specs: 36.

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

Acceptable red pine, white pine, oak, northern hardwoods  
Regen:

Other If stand 36 is not treated delete this treatment. Access is needed across a small piece of private property(hops farm) at the end of Arnold Road.  
Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

36	61041036-Cut	40.6	42120 - Planted Jack Pine	Poletimber Well	57	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**                      **Site Condition:**

Prescription Retain any well formed oak if found in stand. Consider retaining some of the red pine. Heavy snow damage in stand and access is difficult.  
Specs: Chip harvesting would be desirable if stand could be accessed with chipping job.

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

Acceptable red pine, jack pine, white pine  
Regen:

Other Need to work out access across small piece of private land (hops farm) Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

44	61041044-Cut	3.5	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	49	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**                      **Site Condition:**

Prescription Harvest this poorly formed weeviled white pine to re-start stand. Retain a few well formed pine and harvest remaining stems to prepare site fro  
Specs: trenching and planting. Harvest with stands 31 and 36.

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

Acceptable red pine, white pine, oak, northern hardwoods.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
50 61041050-Cut	8.0	42110 - Planted Red Pine	Poletimber Well	57	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	Draft Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Reduce basal area to 120. Remove suppressed and poorly formed trees.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Third row thinned 2010. Mark within rows. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

59 61041059-Cut	9.1	4131 - Aspen, Oak	Sawtimber Well	75	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Proposal
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**Habitat Cut: No**

**Site Condition: Age-Class or Site Quality**

Prescription Retain some well formed oak, maple and white pine for mast and seed production. Final harvest remaining stems. Access is difficult.

Specs:

Next Step

Treatments:

Acceptable aspen, oak, white pine, red pine, jack pine, maple

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

61 61041061-Cut	27.2	42120 - Planted Jack Pine	Poletimber Well	56	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Stand has heavy storm damage. Access is difficult. Attempt to get stand chip harvested to prep site for trenching and planting to red pine.

Specs: Buffer small low area. Retain well formed oak, white pine and maple.

Next Step SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable red pine, jack pine, maple, oak

Regen:

Other Access needs to be obtained across a small piece of private ground (hops farm) to work from north. Part of stand could also be worked from

Comment: south. Old next step comments:

Proposed Start Date: 10/1 /2016

74 61041074-NF	6.0	3105 - Mixed Upland Herbaceous	Nonstocked	Unspec ified	NonForestMgt	Brush Cutting		310 - Herbaceous Openland		Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription This opening had a lot of spotted knapweed. Remove exotics and plant to annual rye for several years and then convert to an appropriate perennial pasture mix (i.e. clover/alfalfa) or native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
96	61041096-Cut	19.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	102	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Proposal

**Habitat Cut: No Site Condition:**

Prescription Mark stand to remove some of the mature hardwoods and red oak. Remove all remaining ash and most beech. Create larger canopy gaps to  
Specs: try to encourage northern hardwood regeneration.

Next Step  
Treatments:

Acceptable Maple, basswood, birch, hemlock, oak, white pine, red pine  
Regen:

Other Heavy ironwood and beech understory is a concern. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

103	61041103-Cut	11.9	4199 - Other Mixed Upland Deciduous	Poletimber Well	83	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Proposal
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**Habitat Cut: No Site Condition: Age-Class or Site Quality**

Prescription Retain some well formed oak and northern hardwoods for mast and seed production. Retain all hemlock. Harvest remaining stems to 2"dbh to  
Specs: regenerate stand

Next Step  
Treatments:

Acceptable aspen, oak, maple, cherry, basswood, hemlock, white pine, red pine,  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

119	61041119-Cut	45.8	4131 - Aspen, Oak	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Proposal
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**Habitat Cut: No Site Condition:**

Prescription retain some well formed oak, northern hardwoods and pine and harvest remaining stems to regenerate stand. Younger age in south part of  
Specs: stand. Follow older age class with treatment boundary.

Next Step  
Treatments:

Acceptable aspen, oak, maple, white pine, red pine, basswood, birch.  
Regen:

Other Old roadbed parallels Broomhead Road. Consider retention strip along Broomhead for visual buffer as possible. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

127	61041127-Cut	12.3	42110 - Planted Red Pine	Poletimber Well	57	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No Site Condition:**

Prescription Harvest down to 2" and chip tops to prep site for planting. Retain some well formed pine and northern hardwoods. Oak wilt pocket in stand so  
Specs: eliminate adjacent red oak.

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

Acceptable planted red pine, white pine, northern hardwood mix, oak.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
128	61041128-Monitor	11.0	42220 - Natural Jack Pine	Sapling Medium	6	Immature	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Even-Aged	Completed - Pending Edits

**Habitat Cut: Yes**

**Site Condition:**

Prescription monitor  
Specs:

Next Step  
Treatments:

Acceptable oak type with other species to meet minimum stocking requirements for a fully stocked stand.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

141	61041141-NF	18.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	50	1-50	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. As needed, treat site to remove exotics. Then seed to site appropriate grasses for wildlife food and cover. Consider seeding in native grasses and forbs.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

150	61041150-Cut	51.9	42110 - Planted Red Pine	Sawtimber Well	57	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Harvest stand to re-plant. Retain patches on steep area such as the SE corner south of the road.  
Specs:

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

Acceptable red pine, northern hardwoods, oak  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

151	61041151-Prep	14.0	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	7	Immature	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Chop existing jack pine regeneration to prep site for trenching and planting.  
Specs:

Next Step  
Treatments:

Acceptable red pine, oak, northern hardwoods  
Regen:

Other TMS to evaluate Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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154	61041154-Cut	8.9	42110 - Planted Red Pine	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**                      **Site Condition:**

Prescription Harvest red pine and re-plant with stand 151 if TMS decides it will be right to chop stand 151. If not do not treat this stand at this time. Retain  
Specs: visual buffer along east side-roadway.

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

Acceptable planted red pine.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

160	61041160- Prep	5.9	4310 - Pine, Oak Mix	Sapling Poor	7	Immatu re	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: Yes**                      **Site Condition:**

Prescription chop stand to prep site for trenching and planting. TMS to evaluate.  
Specs:

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

Acceptable red pin, oak, northern hardwoods, white pine  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

166	61041166-Cut	22.1	42110 - Planted Red Pine	Poletimber Well	57	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**                      **Site Condition:**

Prescription Retain visual buffer along west side-roadway. Treat with north part of stand 168. Understory ironwood, beech, autumn olive and honeysuckle is  
Specs: a concern if stand is not re-started.

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

Acceptable red pine  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

168	61041168-Cut	37.7	42110 - Planted Red Pine	Sawtimber Well	57	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**                      **Site Condition:**

Prescription and possible healthy red oak as found. Harvest north part of stand. Keep retention along west side-roadway. Harvest oak wilt pocket in south  
Specs: part of treatment area. Replant with red pine

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

Acceptable red pine  
Regen:

Other Undesirable understory may need to be controlled-ironwood, beech, autumn olive, honeysuckle. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
176 61041176-Prep	11.3	42290 - Natural Mixed Pine	Sapling Poor	5	Immature	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Proposal

**Habitat Cut: Yes**

**Site Condition:**

Prescription Poor stocking after last harvest but heavy slash load. TMS to evaluate opportunities to reclaim site-chopping-burning. windrowing?  
Specs:

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

Acceptable red pine, oak, white pine. maple  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

182 61041182-Prep	5.6	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	10	Immature	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Chop site to eliminate scotch pine and other advanced regeneration.  
Specs:

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

Acceptable red pine, white pine, oak, maple, basswood, aspen.  
Regen:

Other Trench and plant after treatment. Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

186 61041186-Cut	17.4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	102	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Mark stand to remove some of the mature hardwoods and red oak. Remove all remaining ash and most beech. Create larger canopy gaps to  
Specs: try to encourage northern hardwood regeneration.

Next Step  
Treatments:

Acceptable maple, oak, cherry, birch, aspen, red pine, white pine. basswood.  
Regen:

Other Heavy beech and ironwood sub canopy is a concern Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

190 61041190-Cut	39.5	42110 - Planted Red Pine	Poletimber Well	56	171-200	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Retain some pine patches along roadways at good spots for visual management. Final harvest remaining stems to restart stand. Require  
Specs: chipping of tops.

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

Acceptable red pine, white pine  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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195	61041195-Cut	5.0	42110 - Planted Red Pine	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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**Habitat Cut: No**                      **Site Condition:**

Prescription Retain some well formed oak and northern hardwoods and final harvest red pine to re-plant stand. Treat only if TMS decides that stand 128 to south should be chopped and re-planted to red pine. If not, drop treatment and re-join stand to stand 111.

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

Acceptable red pine, oak, northern hardwoods, white pine.  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

7	NF_61041003-NonFor	6.7	4123 - Red Oak	Sawtimber Medium	97	51-80	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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**Habitat Cut: Yes**                      **Site Condition:**

Prescription plant native herbaceous vegetation (grasses) in 3-4 acre degraded portion of opening.  
Specs:

Next Step  
Treatments:

Acceptable maintain as grass stand  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 10/1 /2016

38	NF_61041038-NonFor	1.8	3102 - Grass	Nonstocked			NonForestMgt	Brush Cutting	3101 - Poverty Grass, Cladonia		Draft Field Boundary
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**Habitat Cut: Yes**                      **Site Condition:**

Prescription Maintain this opening by handfelling pine encroachment.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 12/30/1899

49	NF_61041049-NonFor	6.2	31022 - Warm Season Grass	Nonstocked			NonForestMgt	Other - Specify	3103 - Rubus-Fern		Draft Field Boundary
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**Habitat Cut: Yes**                      **Site Condition:**

Prescription Possible handfell of smaller trees by WLD. Promote existing LBS by mowing or burning.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other Old next step comments:  
Comment:

Proposed Start Date: 12/30/1899



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
83	NF_61041083-NonFor	2.4	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary

**Habitat Cut: Yes**

**Site Condition:**

Prescription Handfell red pine encroachment - BJR  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 12/30/1899

86	NF_61041086-Plant	1.0	3104 - Degraded	Nonstocked			Planting	Initial Plant	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Degraded site. Recommend using as a timber landing during adjacent timber sales. Plant to FMFM specifications when adjacent timber sales are replanted. - BJR, WLD.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 12/30/1899

90	NF_61041090-NonFor	3.6	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Handfell encroaching pine.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 12/30/1899

98	NF_61041098-NonFor	4.1	3104 - Degraded	Nonstocked			NonForestMgt	Other - Specify	31021 - Cool Season Grass		Draft Field Boundary
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**Habitat Cut: Yes**

**Site Condition:**

Prescription Herbaceous planting to a perennial native grass. - WLD  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 12/30/1899



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
135 NF_61041135-Plant	1.6	3104 - Degraded	Nonstocked		Unspecified	Harvest	Clearcut	42100 - Planted White Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: Yes**

**Site Condition:**

Prescription WLD will plant white pine within this degraded opening.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 12/30/1899

144 NF_61041144-NonFor	2.9	3301 - Low Density Deciduous Trees	Nonstocked			Harvest	Crown Thinning	3301 - Low Density Deciduous Trees		Draft Field Boundary
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**Habitat Cut: Yes**

**Site Condition:**

Prescription This stand has indications of being a dumping ground. Restrict access by blocking two tracks. Possibly use stumps from adjacent timber

Specs: harvest or cedar posts. - BJR

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 12/30/1899

149 NF_61041149-NonFor	1.1	3301 - Low Density Deciduous Trees	Nonstocked			Harvest	Crown Thinning	3301 - Low Density Deciduous Trees		Draft Field Boundary
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**Habitat Cut: Yes**

**Site Condition:**

Prescription

Specs:

Restrict access by blocking two tracks with cedar posts. - BJR

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 12/30/1899

158 NF_61041158-NonFor	1.2	6233 - Wet Meadow	Nonstocked			Harvest	Crown Thinning	6233 - Wet Meadow		Draft Field Boundary
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**Habitat Cut: Yes**

**Site Condition:**

Prescription --David Johnson : 12/07/2005 comments:

Specs:

Evidence of mud bogging. WLD will restrict access to this stand.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 12/30/1899



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
175	NF_61041175- NonFor	3.3	3301 - Low Density Deciduous Trees	Nonstocked			NonForestMgt	Brush Cutting	31021 - Cool Season Grass		Draft Field Boundary

**Habitat Cut: Yes**

**Site Condition:**

Prescription --David Johnson : 12/07/2005 comments: like to save red pine

Specs: Maintain this opening by handfelling red pine seedling encroachment and maybe some locust seedlings.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 12/30/1899

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**Total Treatment  
Acreage Proposed: 555.0**

Dominant Site Conditions

	2G	3G	3J	4A	5B	5C
Aspen		3	20		1	125
Cedar						
Herbaceous Openland					2	
Jack Pine						
Low-Density Trees						
Lowland Aspen/Balsam Poplar						
Lowland Conifers	47		18			
Lowland Shrub						
Marsh						
Mixed Upland Deciduous						182
Natural Mixed Pines				26		83
Northern Hardwood					31	30
Oak				10		50
Planted Mixed Pines						33
Red Pine						
Treed Bog						
Upland Conifers						
Upland Mixed Forest						12
Urban						
White Pine						0
Total Forested Acres	47	3	38	36	35	516
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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2F: Too steep	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep bowl around small seasonal wet/low							

## Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 41

Year of Entry: 2017

2	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mature aspen - final harvest							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Mature Aspen - Oak , final harvest - scattered Oak residual for mast							
5	<b>Unavailable</b>	<b>2F: Too steep</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Selection harvest lowering ba to 80sq.ft. - straight forward hdwd mgt.							
6	<b>Unavailable</b>	<b>2F: Too steep</b>	7	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Steep slope along lowland area.							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 41

Year of Entry: 2017

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	81	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand has variable stocking but overall, stocking is acceptable. Stand had been high-graded by previous owner. Let stand put on more volume and look a next entry for thinning or regeneration harvest.							
10	<b>Unavailable</b>	<b>2F: Too steep</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2F: Too steep</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2F: Too steep</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2F: Too steep</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 41

Year of Entry: 2017

16	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> headwater area of small stream							
18	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	36	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Remnant Christmas tree fields. low stocking and volume. Not commercial							
19	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 41

Year of Entry: 2017

22	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
26	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 41

Year of Entry: 2017

29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 41

Year of Entry: 2017

36	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
40	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

# Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 41

Year of Entry: 2017

42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 6 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Poletimber Medium	4.6	50	51-80	
2	4131 - Aspen, Oak	Poletimber Well	28.2	51	81-110	
4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.2	75	81-110	
5	4131 - Aspen, Oak	Sawtimber Well	20.0	78	81-110	Creek runs along west side of stand. Small Oak log pocket in NE corner of stand
6	42110 - Planted Red Pine	Poletimber Well	15.4	56	81-110	
7	4123 - Red Oak	Sawtimber Medium	7.5	97	51-80	2015: TS# 058-13. Cut orange marked red oak. Removed some of the large wolfy oak. Harvested Winter 2014-15.
8	4119 - Mixed Northern Hardwoods	Sawtimber Well	10.7	98	81-110	
9	42120 - Planted Jack Pine	Poletimber Well	3.0	57	1-50	2015: Heavy storm damage and mortality. Mature aspen on NE corner. Looks like retention from the harvest of stand 184. Aspen sprouting along edges of this stand from that harvest as well. Not much volume left but harvest if the opportunity comes up with a nearby treatment. Otherwise leave for bedding cover and travel corridor. 2005:health stand with very little mortality - should add growth and be ready for harvest in next inventory 2015
10	42120 - Planted Jack Pine	Poletimber Medium	16.7	57	1-50	
11	4123 - Red Oak	Sawtimber Well	7.0	86	51-80	
16	42220 - Natural Jack Pine	Sapling Poor	28.5	6	Immature	
17	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	17.8	15	Immature	
18	42130 - Planted Scotch Pine	Poletimber Well	0.9	43	81-110	
19	4111 - S.Maple, Hard Mast Association	Poletimber Well	11.3	96	81-110	
20	4131 - Aspen, Oak	Poletimber Well	18.6	34	Unspecified	
21	4130 - Aspen	Poletimber Well	18.4	33	Unspecified	

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## Traverse City Mgt. Unit

## Report 8 – Forested Stands

Compartment: 41  
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	42110 - Planted Red Pine	Poletimber Well	35.8	60	111-140	
24	42130 - Planted Scotch Pine	Poletimber Medium	1.6	43	81-110	Root collar weevil
25	4123 - Red Oak	Poletimber Medium	10.0	55	51-80	
26	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	6.0	55	111-140	
27	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	51.9	50	111-140	
28	42290 - Natural Mixed Pine	Sapling Poor	8.1	15	Immature	
29	429 - Mixed Upland Conifers	Poletimber Well	3.8	43	111-140	
30	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	30.9	92	141-170	
31	42200 - Natural White Pine	Sawtimber Medium	3.5	60	81-110	
32	4130 - Aspen	Sapling Well	5.1	31	Unspecified	
34	6120 - Lowland Cedar	Poletimber Well	3.8	92	141-170	
35	42140 - Planted Mixed Pine	Poletimber Well	5.8	44	171-200	
36	42120 - Planted Jack Pine	Poletimber Well	40.6	57	51-80	
37	4130 - Aspen	Sapling Well	9.3	25	Immature	Healthy aspen showing good growth
39	6112 - Lowland Aspen	Poletimber Well	8.4	31	Unspecified	
40	42200 - Natural White Pine	Sawtimber Poor	7.4	55	1-50	
41	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	16.1	80	51-80	
43	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	82.2	100	81-110	

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## Traverse City Mgt. Unit

## Report 8 – Forested Stands

Compartment: 41  
Year of Entry: 2017

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	3.5	49	51-80	
42110 - Planted Red Pine	Sawtimber Well	19.6	50	111-140	
4130 - Aspen	Sapling Well	11.7	25	Unspecified	
6120 - Lowland Cedar	Poletimber Well	48.9	106	111-140	
4119 - Mixed Northern Hardwoods	Sawtimber Well	4.4	76	81-110	
42110 - Planted Red Pine	Poletimber Well	8.0	57	171-200	
4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.5	76	81-110	Scattered Hemlock and White Pine Sugar Maple and Oak along south side of stand
42110 - Planted Red Pine	Poletimber Well	78.2	57	141-170	
4131 - Aspen, Oak	Poletimber Well	43.4	64	81-110	Rolling to steep terrain
42130 - Planted Scotch Pine	Poletimber Well	20.1	39	1-50	2015: Could try to sell this as discounted chip job. Barely merchantable. Would likely need to burn or spray to eliminate scotch pine before replanting. This is heavily used by deer for cover and forage. May want to plant jp or spruce. 2005:Diseased Scotch and Austrian Pine
42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	22.4	74	141-170	
42250 - Pine, Oak	Sawtimber Poor	53.6	91	1-50	
4131 - Aspen, Oak	Sawtimber Well	9.1	75	51-80	
42120 - Planted Jack Pine	Poletimber Well	27.2	56	51-80	
4130 - Aspen	Sawtimber Well	11.4	75	81-110	Small pot hole marsh along north border
4123 - Red Oak	Poletimber Medium	11.8	50	1-50	Oak filling in old farm field
4123 - Red Oak	Sawtimber Well	9.6	99	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	42120 - Planted Jack Pine	Poletimber Well	4.1	56	81-110	
67	42220 - Natural Jack Pine	Sapling Medium	19.0	15	Immature	
68	42110 - Planted Red Pine	Poletimber Well	14.0	57	111-140	2015: Good height 5-6 stick. Stocking is a bit low at this point. Stems have good form. Pole potential in the future if this stand is allowed to grow...but if we need to re-start some of this age class this might be a good candidate as the stocking is already a bit low. 2005:4 stick - 63 feet total.
69	4110 - Sugar Maple Association	Sawtimber Well	24.5	90	51-80	rolling terrain
70	4310 - Pine, Oak Mix	Sawtimber Well	11.9	91	141-170	
71	4123 - Red Oak	Poletimber Well	29.7	99	81-110	
72	42110 - Planted Red Pine	Poletimber Well	37.4	56	111-140	
73	4119 - Mixed Northern Hardwoods	Sawtimber Well	35.9	99	81-110	
75	42110 - Planted Red Pine	Sapling Well	35.7	16	Immature	
76	42110 - Planted Red Pine	Sawtimber Well	88.6	56	111-140	
80	42110 - Planted Red Pine	Sawtimber Well	15.9	57	111-140	
82	42110 - Planted Red Pine	Sawtimber Well	17.6	63	81-110	
84	42220 - Natural Jack Pine	Sapling Medium	42.5	10	Immature	
85	42110 - Planted Red Pine	Poletimber Well	33.1	56	111-140	
87	4130 - Aspen	Sawtimber Well	7.4	76	81-110	Scattered Hemlock and White Pine
88	42290 - Natural Mixed Pine	Sapling Medium	9.3	17	Immature	
89	42110 - Planted Red Pine	Poletimber Well	67.9	56	111-140	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
91	4131 - Aspen, Oak	Poletimber Well	2.5	70	111-140	
92	42140 - Planted Mixed Pine	Sapling Well	13.7	17	Immature	
93	4110 - Sugar Maple Association	Sawtimber Well	5.5	96	111-140	2015: Large open grown hardwoods and oak with Ironwood, oak and maple poles grown in to canopy in old canopy gaps. Steep east aspect slope - inoperable. Factor limit
94	42110 - Planted Red Pine	Poletimber Well	24.5	57	81-110	
96	4119 - Mixed Northern Hardwoods	Sawtimber Well	19.8	102	111-140	
100	4130 - Aspen	Sapling Well	10.3	25	Unspecified	
102	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	18.3	102	111-140	Small creek begins in stand. Some blow-down areas along creek
103	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.9	83	111-140	2015: aspen is mature but could hold. North part is heavier to red oak and some hardwood mix on west edge. Enough aspen mixed in that it would regenerate parts of this stand well. May also be able to get some oak and maple stump sprouts. May be desirable to do a small clear cut with oak and maple retention. TS# 031-90. part of log sale-cut mostly red oak. TCR 5/91. Stand may be influenced by timber sale in 1965-Cut aspen to release small suppressed n. hardwoods. 2005:Small aspen clone along south end of stand
105	4311 - Pine, Aspen Mix	Poletimber Medium	7.7	55	1-50	2015: Red oak poles in east side. Bushy open grown white pine getting large diameter. Would be desirable to get his cleared and planted. Not much understory growing in. May be depleted soil in old field. Stand on side slope but not real steep. May be able to harvest this with stand 111 when it is final harvested. 2005:Small grassy opening on ridge in N. part of stand
106	4119 - Mixed Northern Hardwoods	Sawtimber Well	30.6	102	81-110	
108	4111 - S.Maple, Hard Mast Association	Sawtimber Well	30.4	100	111-140	
109	4130 - Aspen	Sapling Well	15.9	25	Unspecified	
110	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	7.4	81	51-80	2015: Jack Pine is falling out of stand and stand is converting to white pine/ mixed northern hardwood and oak. Not much volume left in the jp. Removing would damage new stand growing in. Let stand convert. Strip of White Pine Sawtimber (windbreak) along east side of stand. Small area on west side of stand mix of oak, rp, wp, and maple.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
111	42110 - Planted Red Pine	Sawtimber Well	21.5	56	111-140	
112	4139 - Aspen, Mixed Deciduous	Sawtimber Well	2.6	90	81-110	
113	4121 - Oak, Aspen	Sawtimber Well	1.8	40	51-80	
114	4111 - S.Maple, Hard Mast Association	Poletimber Well	19.1	98	81-110	
118	4199 - Other Mixed Upland Deciduous	Poletimber Well	1.2	75	51-80	
119	4131 - Aspen, Oak	Poletimber Well	74.1	51	81-110	
120	4110 - Sugar Maple Association	Sawtimber Well	9.9	91	81-110	
122	4122 - Oak, Pine	Sawtimber Poor	8.8	80	1-50	
125	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.3	90	51-80	
126	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	40.3	51	111-140	2015: Timber sale in this area 1964-65. Cut all aspen and red maple in stands 2 cd/acre or more and oak 14" or less. A good bit of this stand is too steep to treat. Aspen could get better if allowed to grow in. Aspen size is variable. Some is l/p and some p/l. Looks like red oak was retained in last harvest and some younger aged pine. Pine looks natural? Blue line on south end that crosses power line. Not sure what that is. Scattered Pine throughout stand but can be in heavy pockets
127	42110 - Planted Red Pine	Poletimber Well	41.2	57	111-140	
128	42220 - Natural Jack Pine	Sapling Medium	11.0	6	Immature	
129	4130 - Aspen	Poletimber Well	20.1	40	51-80	
130	4130 - Aspen	Sapling Well	20.1	26	Immature	
131	4130 - Aspen	Poletimber Well	10.1	41	81-110	
133	4111 - S.Maple, Hard Mast Association	Sawtimber Well	6.3	90	111-140	low quality hardwood stand. Not many crop trees. Near houses and part of stand north of road has steep unworkable slope. Not commercial.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
134	4111 - S.Maple, Hard Mast Association	Sawtimber Well	20.9	96	51-80	2015: Good bit of large dead red oak. Possible oak wilt but looks more like decline. Stocking is not high. Sugar maple stems are fair-good. Good bit of ash but much is dead. Steep in spots. Good height on stems. Could get dead oak and ash and mark for CTR. Stocking is already low. Not much volume may not be commercially economical. Evaluate oak wilt risk with forest health tech and salvage red oak if needed. 2005: Some die-off around old landing Oak, Basswood. Old top pile still on landing.
136	4111 - S.Maple, Hard Mast Association	Sawtimber Well	115.1	90	81-110	
137	4130 - Aspen	Poletimber Well	6.8	25	Unspecified	
139	4310 - Pine, Oak Mix	Sapling Medium	4.4	17	Immature	
140	4310 - Pine, Oak Mix	Sawtimber Well	8.8	50	81-110	2015: Dominant age 50 but older open grown red oak, white pine, red maple, ash with aspen wp, ro, rm grown in ( 50 age class) Let stand develop. Stocking is not too high. Hilly ground. 2005:White Pine weaviled but seems to be nursing oak and aspen along - straight and clean boles
141	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	18.2	50	1-50	2015: Was non forested stand but changed to forested-low stocking. Pockets of forested among open ground. 2005 WLD: Elm, basswood, oak, maple, black cherry. Ground cover is patches of bracken fern, with cool summer grasses. areas of spotted knapweed. Autumn olive and juneberry underneath trees. A few witch-hazel. A little bit of junk.
142	4130 - Aspen	Poletimber Well	19.4	26	81-110	Stand is well stocked. Self thinning aspen. Portion of old Twp dump along NE side of stand
143	4111 - S.Maple, Hard Mast Association	Sawtimber Well	32.8	96	51-80	
145	4130 - Aspen	Poletimber Well	7.6	25	Unspecified	
146	4199 - Other Mixed Upland Deciduous	Sawtimber Well	27.6	79	111-140	
147	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.9	90	111-140	Small stand with lower quality hardwoods. Red oak is decent quality and looks healthy. Let grow in. Does not seem to be enough for a commercial harvest. Old Twp dump site
148	4110 - Sugar Maple Association	Sawtimber Poor	5.5	96	1-50	
150	42110 - Planted Red Pine	Sawtimber Well	51.9	57	111-140	
151	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	14.0	7	Immature	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
152	42110 - Planted Red Pine	Sawtimber Well	18.1	57	81-110	2015: jp mixed with rp in west strip. This jp is falling out and this part of stand has a lot of autumn olive growing in. This stand should be harvested and re-started if the alternate jp strips can be chopped. Otherwise, keep this stand until jp in alternate strips matures and the harvest all.
153	42110 - Planted Red Pine	Sawtimber Well	33.5	56	111-140	.
154	42110 - Planted Red Pine	Poletimber Well	8.9	57	81-110	
155	42220 - Natural Jack Pine	Sapling Well	9.4	19	Immature	
159	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.8	75	81-110	
160	4310 - Pine, Oak Mix	Sapling Poor	5.9	7	Immature	
161	4111 - S.Maple, Hard Mast Association	Sawtimber Poor	4.9	60	1-50	2015: Moved to forested stand. Open grown maple and oak with some maple and oak poles and red and white pine filling in. Various ages as old field has succeeded. West 1/3 is still open herbaceous. 2005: West 1/2 is mixed upland herbaceous/cool summer grasses. East 1/2 is a sugar maple stand with pine saplings and maple seedlings underneath. Stand as a whole is a low density deciduous tree, even though there could be two stand here. A couple apple trees. Unlisted is hawkweed.
162	4111 - S.Maple, Hard Mast Association	Sawtimber Well	15.0	91	81-110	Has been thinned in prior entry. Some old orange marked still in stand. Stocking is fine. Let grow in.
164	4111 - S.Maple, Hard Mast Association	Sawtimber Well	129.0	105	51-80	
165	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.1	70	111-140	
166	42110 - Planted Red Pine	Poletimber Well	22.1	57	111-140	
168	42110 - Planted Red Pine	Sawtimber Well	72.5	57	111-140	
169	4110 - Sugar Maple Association	Sawtimber Well	11.4	79	51-80	
170	4111 - S.Maple, Hard Mast Association	Sawtimber Well	47.1	102	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
171	4139 - Aspen, Mixed Deciduous	Sapling Medium	31.6	16	Immature	2015: TS# 019-97. Cut to 2" but no hemlock or red pine. TCR 11/98. Scattered Red Pine retention L-XL. Regeneration is a bit patchy but has filled in pretty well. Some areas are heavier to rm sprouts. 2005: Stand received heavy deer browse in south central part - growth and stems /acre are less
173	42110 - Planted Red Pine	Sawtimber Well	60.1	57	111-140	
174	4111 - S.Maple, Hard Mast Association	Sawtimber Well	1.8	92	111-140	Small stand could be treated by small sale receipt
176	42290 - Natural Mixed Pine	Sapling Poor	11.3	5	Immature	
177	4123 - Red Oak	Sawtimber Well	4.8	100	81-110	
178	4139 - Aspen, Mixed Deciduous	Poletimber Well	21.9	46	81-110	2015: Looks like the white and red pine and some oak was left when this stand was clear-cut in 1969. Cut all merchantable aspen in clones 2 acres or more and maple and oak only within clones. Most oak in stand is in younger age from sprouts after last harvest. 2005: Good mixed stand with good quality oak. Good mixed stand. Red oak looks healthy.
179	4123 - Red Oak	Poletimber Well	3.5	76	51-80	Scattered Hemlock and White Pine Sugar Maple and Oak along south side of stand
180	4130 - Aspen	Sapling Poor	17.4	4	Immature	
181	42200 - Natural White Pine	Sawtimber Poor	18.9	70	1-50	
182	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	5.6	10	Immature	2015: North part of opening changed to forested stand. Mix of scotch pine, white pine, cherry, aspen with scattered log sized red oak. 2005: North lobe is growing in. South portion is more open with pine regeneration.
183	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.6	78	81-110	
184	4130 - Aspen	Sapling Medium	32.7	4	Immature	Filling in after last harvest. Regeneration is a little patchy. More aspen on slopes and heavier to rm and cherry in lower parts.
185	4130 - Aspen	Sapling Poor	1.0	10	1-50	Dead oak - possible oak wilt
186	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.4	102	81-110	
188	4111 - S.Maple, Hard Mast Association	Sawtimber Well	19.8	105	81-110	

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 41  
Year of Entry: 2017



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
189	4311 - Pine, Aspen Mix	Poletimber Well	7.7	25	51-80	
190	42110 - Planted Red Pine	Poletimber Well	39.5	56	171-200	
191	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	6.8	60	111-140	
192	4111 - S.Maple, Hard Mast Association	Sawtimber Well	8.9	99	81-110	
194	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.2	96	81-110	
195	42110 - Planted Red Pine	Sawtimber Well	5.0	56	81-110	
196	4130 - Aspen	Sapling Poor	0.0	4	Immature	



Stand	Cover Type	Acres	Managed Site	General Comments:
3	3104 - Degraded	6.7	No	Mostly degraded with spotted knapweed. Evidence of a very old timber landing. Includes a lobe with bracken fern. I don't know what WLD can do here. A little bit of aspen encroachment west side.
12	3105 - Mixed Upland Herbaceous	2.1	No	Would like to take structure down. Maintain pond area. Possible area for rye? Two cabins, a pond, and a large oak. A few apple trees and a small spot of aspen encroachment.
13	3103 - Rubus-Fern	5.0	No	Raccoon damage to juneberry. Nice opening. Bracken fern dominated (pink on imagery). Plenty of poverty grass in-between (blue). One juneberry and one paper birch. A few pine saplings along edge.
14	3104 - Degraded	1.2	No	Cabin with pond. Borderline degraded. Remove structures. Possibly plant rye here and into portion of adjacent stand?
15	3103 - Rubus-Fern	4.1	No	On top of hill. A few large maples along perimeter. A dry site. Log oaks on north side.
23	3303 - Mixed Low Density Trees	7.7		North lobe is growing in. South portion is more open with pine regeneration.
33	6233 - Wet Meadow	2.0	No	Center is bulrushes and grasses - wet meadow. Probably seasonally wet. Perimeter is all willow with a few dogwood. Some spotted knapweed around perimeter also. Found dead trees (snags) along east side.
38	3102 - Grass	1.8	No	Possibly an old homestead site. A couple apple trees on their last leg. One large walnut with several pole walnut or ash trees. Mixed grasses with spotted knapweed. Cut out pine encroachment. Grasses are mixture of warm and cool summer varieties. Some spots of cladia.
42	6224 - Treed Bog	14.9	No	Awesome treed bog. Leatherleaf, michigan holly, and blueberry, with tamarack and white pine. A few viburnum sp. along perimeter.
49	31022 - Warm Season Grass	6.4	No	Possibly cut and chip white pine along the north side with adjacent aspen cut. OR handfell a few of the smaller one. Grasses would benefit from a prescribed burn, but 6.2 acres is too small.
51	3105 - Mixed Upland Herbaceous	1.6	No	Old timber landing. Pine encroachment. Some pigweed(?). Mullein. Bracken fern. May want to cut out pine (20 minutes) or use as a future timber landing.
56	6220 - Alder/willow	1.7	No	Main part is all young willow. A little bit of tag alder, a patch of rubus, and upland deciduous (cherry/aspens) south portion.
60	6233 - Wet Meadow	3.3	Yes	Seasonally wet. Tag alders and willow along perimeter. A few small will scattered throughout. Grasses, mixed forbs, a few bull thistle. An unknown plant found throughout.
63	3302 - Low Density Conifer Trees	10.0		The main part of the opening has a fair amount of regenerating jack pine. A pine stand with a few small opening. The rest of the opening is powerline right-of-way.



Stand	Cover Type	Acres	Managed Site	General Comments:
74	3105 - Mixed Upland Herbaceous	6.0	No	Degraded in some spots. Rolling terrain. Unlisted 1 is hoary alysum. Unlisted 2 is mullein.
77	3105 - Mixed Upland Herbaceous	16.6	No	Powerline. Area north of private and south of pine stand has autumn olive, spotted knapweed, poverty grass, and cladonia. This area is degraded, but is adjacent to private land. Rest is powerline right-of-way. Mixed upland herbaceous and a two-track.
78	3301 - Low Density Deciduous Tree	3.2	No	A little bit of slash here. Mainly black cherry and apples. Plenty of grass, but with spots of hoary alysum and st. john's wort/spotted knapweed.
79	3105 - Mixed Upland Herbaceous	3.4	No	Within big clump, aspen and cottonwood with maple. Some autumn olive underneath. Rest is old apple orchard.
81	122 - Road/Parking Lot	6.9	Unspecified	
83	3105 - Mixed Upland Herbaceous	2.4	No	Might want to cut out red pine seedlings (20 minutes of work) or leave as-is. Unlisted is apple. Unlisted 2 is hoary alysum.
86	3104 - Degraded	1.0	No	Allot of st. john's wort. Sandy soils. Completely degraded. Do something here! Unlisted is mullein.
90	3105 - Mixed Upland Herbaceous	3.6	No	Might want to cut out encroaching pine (15 minutes of chainsaw work). Mixture of grass and spotted knapweed. SW corner is bracken fern.
95	3303 - Mixed Low Density Trees	2.6	No	Mostly cherry and oak. Oak is in good shape. Nice maple also. Pine sapling growth. Old pickup topper/deer blind within this stand. Adjacent to private junk yard.
97	3301 - Low Density Deciduous Tree	5.5	No	Apple trees mixed throughout. White pine & jack pine sapling/poles. Mostly deciduous trees.
98	3104 - Degraded	4.1	No	Allot of spotted knapweed with warm season grasses mixed in. Two large maples within this opening.
99	122 - Road/Parking Lot	1.9	Unspecified	
101	3303 - Mixed Low Density Trees	2.7	No	A combination of upland deciduous and white pine. A little bit of cherry mixed.
104	122 - Road/Parking Lot	9.1	Unspecified	
107	3105 - Mixed Upland Herbaceous	8.4	No	South portion degraded with spotted knapweed.
115	3105 - Mixed Upland Herbaceous	1.2	No	On top of hill. Would like to maintain this opening. 1/2 has fair amount of spotted knapweed. No work need to be done at this time.



Stand	Cover Type	Acres	Managed Site	General Comments:
116	3105 - Mixed Upland Herbaceous	6.7	No	Unknown poplar species near road (silver/white leaf). A few apples. Cool summer grass in spots. Other areas with warm season grasses. Spotted knapweed throughout.
117	3104 - Degraded	3.0	No	Barren spot (all sand) 100ft by 100ft in center. Little bluestem and spotted knapweed surrounding. Might be a good place to plant something (pine, sand cherry, etc.) Mixture of little bluestem and a few trees in north part makes this a medium-priority degraded site.
121	3103 - Rubus-Fern	1.2	No	Walk-in. Mostly bracken fern with poverty grass/cladonia in center. A little bit of aspen encroachment south side, but deer are browsing these down.
123	31021 - Cool Season Grass	1.4	No	Old homestead site with apple.
124	6220 - Alder/willow	2.1	No	Lowland with willow. Raspberry/rubus heavy around perimeter. One of the few lowlands within this compartment.
132	3301 - Low Density Deciduous Tree	4.8	No	Hilly. Multiple deciduous tree species. A few white pine scattered, along with jack pine saplings. 85% bracken fern, 15% warm season grasses.
135	3104 - Degraded	1.6	No	Old oil well pad. A little bit of pine and aspen encroachment in SE finger - good thing. Main part of opening is DEGRADED. Would like to do something with this spot. Unlisted species are mullein and hoary alysum.
138	3105 - Mixed Upland Herbaceous	1.5	No	Powerline. At this portion, multiple clumps of bracken fern. other spots with grasses and spotted knapweed.
144	3301 - Low Density Deciduous Tree	2.9	No	Restrict access by blocking two tracks. Major dumping grounds in years past. Possibly clean up and placing "no dumping" signs.
149	3301 - Low Density Deciduous Tree	1.1	No	Side of slope. Mostly bracken fern iwth sapling cherries. A dump site on the south side of this stand.
156	3105 - Mixed Upland Herbaceous	2.9		Possibly an old homestead. Couple holes. Areas that are degraded with spotted knapweed. A variety of tree species next to young jack pine strip. One good spot of wild grape. A few apples.
157	122 - Road/Parking Lot	2.8	Unspecified	
158	6233 - Wet Meadow	1.2	No	Bowl-shaped. S 1/2 is cool summer grasses. N1/2 is a wet meadow. Evidence of mud bogging. Post 2-track leading to opening. @-3 access points.
163	31021 - Cool Season Grass	2.1	No	Most of the sumac is dead. A few red pine seedling encroachment. Slight slope. Sugar maples and one beech along north perimeter. A few apple trees. Cut down dead sumac and encroaching red pine and stack/pile wood at one end.



Stand	Cover Type	Acres	Managed Site	General Comments:
167	3105 - Mixed Upland Herbaceous	8.0	No	Powerline with two-track. Grass with spotted knapweed. NE portion has pole upland deciduous. A little bit of wood/slash.
172	31021 - Cool Season Grass	1.5	Yes	A small hill. Both types of hawkweed present (unlisted species).
175	3301 - Low Density Deciduous Tree	3.3	No	Nice cool summer grass opening with apples, surrounded by ash & sugar maple. Maintain this opening by cutting out red pine seeding and maybe some locust seedlings (20 minutes of work).
187	310 - Herbaceous Openland	1.9	No	Old well pad.
193	3302 - Low Density Conifer Trees	1.7	No	Steep hillside with few scattered white pine