



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 26

Entry Year 2016

Acreage: 1,882

County Benzie

Management Area: Benzie Outwash

Revision Date: 02/21/2014

Stand Examiner: Craig Allen

Legal Description:

T25N- R14W; sections 4, 9, 16

Identified Planning Goals:

This compartment is a part of the Benzie Outwash Management Area. The management plan for this area involves many aspects. Vegetation management in the Benzie Outwash management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character, including the Betsie River which is a designated natural river; and threatened, endangered and special concern species and provide for forest-based recreational uses and Native American non-commercial uses of forest products. Timber management for the next 10 years includes improving the age-class distribution of aspen and red pine. Northern hardwoods management includes continued selective or regeneration harvesting of northern hardwoods to achieve an uneven age-class structure or improve timber quality. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends in this 10-year planning period are increased recreational pressure on recreational trails and introduced insect and disease concerns, especially emerald ash borer and beech bark disease.

Soil and topography:

The topography is mostly level except for a deep ravine containing Dair creek and part of its headwaters. The upland areas consist of the well drained Kalkaska- Rubicon soil association. Lowland areas of wet and semi- wet flats are made up of permeable Roscommon- Augres- Croswell soils.

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

This compartment is part of a large block of State land, which includes some scattered private ownerships. The areas lying to the west, south and east of this compartment are also mostly State owned. The area to the north is mostly private, and parceled into various ownerships mostly used for vacation and recreation.

"Homestead Orchards" and "Homestead Orchards 1" are two old platted subdivisions located in the southwest corner of section 4. These are 2 of 11 subdivisions in this area that were established between 1919 and 1927. Since that time most of the parcels became State property through tax reversion. There are only two small undeveloped parcels that remain in private ownership in section 4 (see map). Most of the platted roads (except some on sections lines) in these 11 subs were never installed.

Unique Natural Features:

Dair Creek is located in section 16. This is a designated trout stream and "Natural River" as it is a tributary to the Betsie River.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

See attached proposed treatments.

Watershed and Fisheries Considerations:

Dair Creek flows through Compartment 26. Dair Creek is a significant tributary of the Betsie River. Dair Creek is a Designated Trout Stream, with naturally reproducing populations of brook trout, brown trout, and rainbow trout (steelhead). Dair Creek is critical in that it produces a large percentage of the wild steelhead parr from the Betsie River watershed. Therefore, Dair Creek should receive the utmost protection. (Fish Div., Tonello)

Wildlife Habitat Considerations:

Compartment 26 is located on Newaygo Outwash Plain. The land type association is characterized by a broad, flat outwash plain, with few lakes and wetlands (LTA 5111). Topography is flat, with localized kettle lakes or wetlands.

Presettlement vegetation varied, but was mostly dominated by upland conifers. Large areas of wildfire were noted by GLO surveys. Windthrows were common, but not large in size. Present vegetation of LTA 5111 is mostly hardwoods and conifer woodlands.

The priority wildlife species within this compartment are white-tailed deer, ruffed grouse, and woodcock. The abundance of public land within this compartment provides many hunting and viewing opportunities for many wildlife species.

There is a probable red-shouldered hawk nest within this compartment. Another hawk nest was noted during inventory, likely a broad-winged hawk. The Michigan Natural Feature Inventory has a record of eastern box turtle and wood turtle occupying the Betsie River watershed. Dair Creek is part of this watershed. Northern goshawk activity was noted in a compartment nearby by MNFI. (Wildlife Div., Traverse City F.O.).

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Devonian Ellsworth Shale. The Ellsworth is used for cement products. A gravel pit is located three miles to the southeast, but there may be some potential. This area is located northwest of the current Antrim Shale gas play and the Antrim appears to have potential. Some of the Compartment is leased and the rest is nominated for oil and gas leasing.

Vehicle Access:

South Pioneer road (677) is a paved county road that borders the entire east side of this compartment. There are several seasonal county roads within this area offering good and easy access to State lands. There are also many forest "2-track" roads in various areas of the compartment that are in good condition and are used for public and DNR land management accessibility.

Survey Needs:

There are no known survey needs in this compartment at this time.

Recreational Facilities and Opportunities:

The Platte River State Snowmobile Trail runs along the south edge of the compartment on Landis road (seasonal county road) and along the north edge of section 9 then south toward the Weldon Township cemetery and continuing east across pioneer road. The Betsie Vally Rail Trail (open to snowmobiles in the winter, and non-motorized recreation trail use during non-winter seasons) travels diagonally through this compartment. Appropriate trail protection specifications should be used along all designated snowmobile trails. The Betsie Valley Rail Trail is an improved rail grade that warrants retention consideration to address aesthetic concerns. Hunting, trapping, mushroom hunting and dispersed camping are also popular recreational activities throughout the compartment. (T.M.N. 4/14/14)

Fire Protection:

This area has wildfire protection by Traverse City DNR and local volunteer Fire Departments.

Additional Compartment Information:

Any of the private lands within this compartment should be considered for purchase if they become available. Purchase of these lands would further help to block in State ownership of land within this compartment, thereby making land management easier with better access and allowing more contiguous land area for Public enjoyment and use.

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**

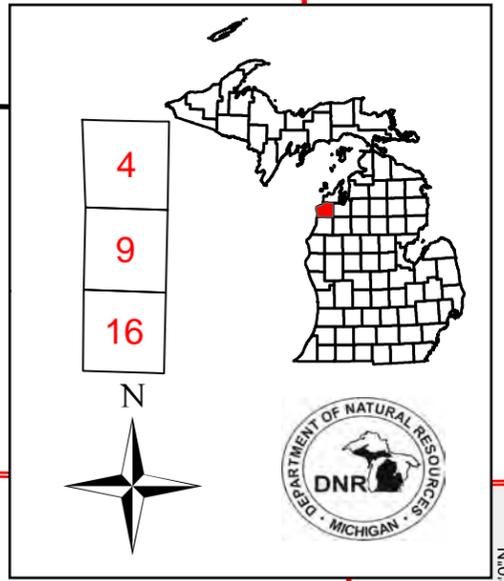
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

Compartment: 026
 T25N R14W
 Sections: 4, 9, 16
 County: Benzie
 Unit: Traverse City
 Management Area: Benzie Outwash
 YOY: 2016
 Acres: 1,882 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 06/18/2014
 Map Phase: Web Post

Stand #
 23
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Remonumented Section Corners
- Bridges
- Culverts
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Snowmobile Trails
- Bike Trail
- Hiking Trail
- Snowmobile Trail
- Lakes and Rivers
- Stream
- Intermittent Stream

Planned Regeneration

- Natural
- Planted

Treatments

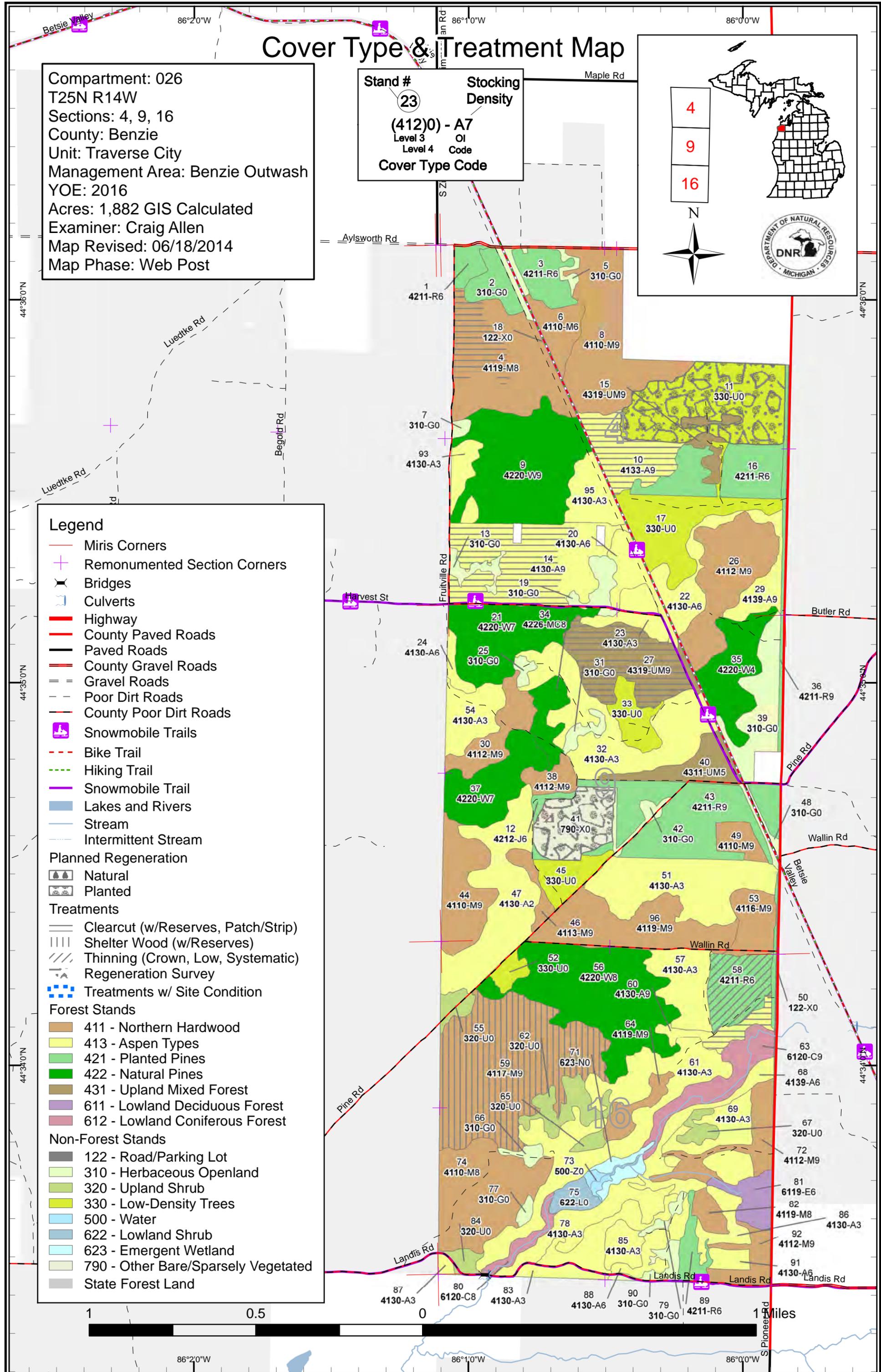
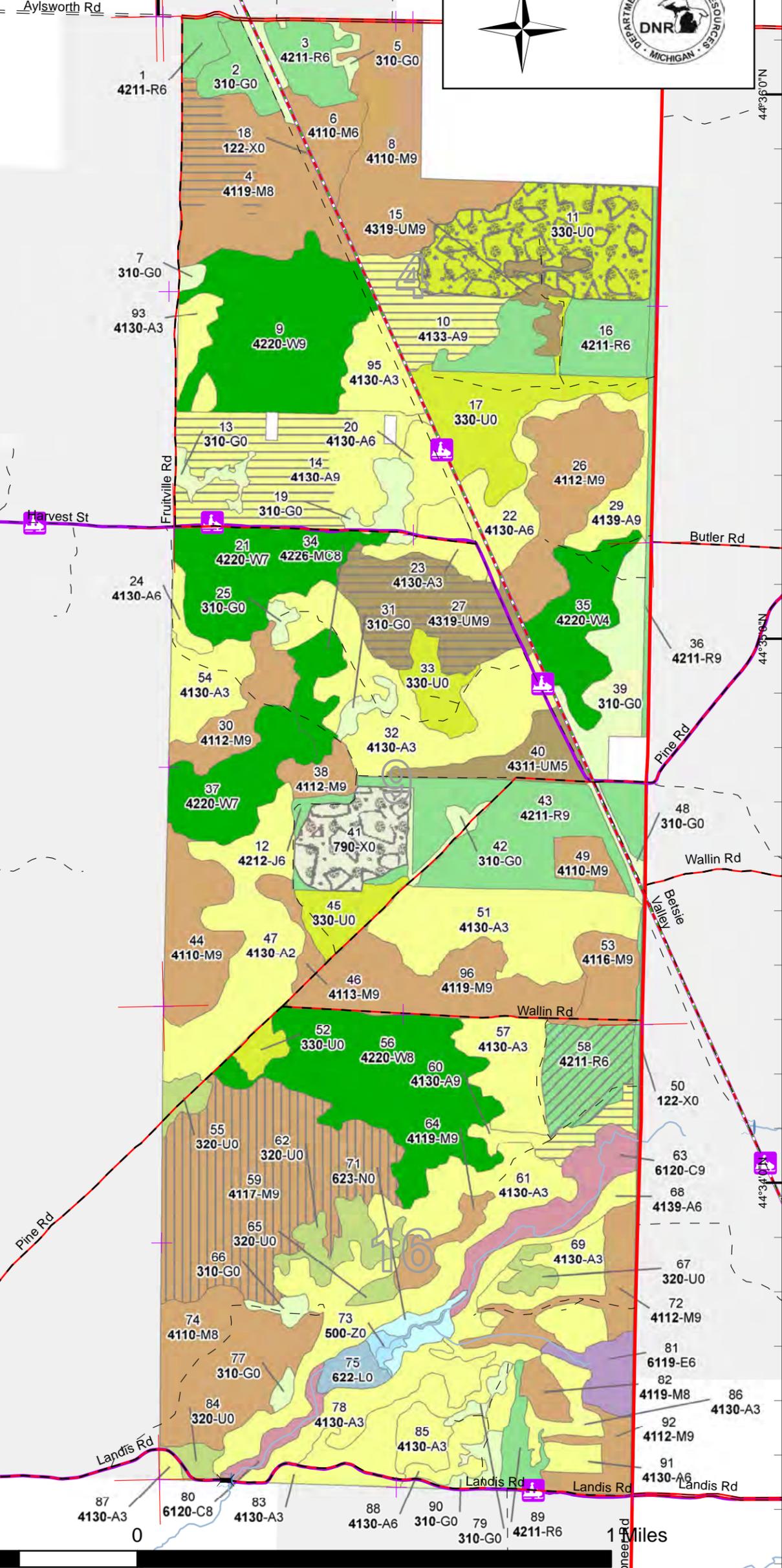
- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Treatments w/ Site Condition

Forest Stands

- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated
- State Forest Land



Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	115	0	276	0	4	42	124	0	0	0	0	0	0	0	560
Bare/Sparsely Vegetated	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Cedar	0	0	0	0	0	0	0	0	0	0	0	21	6	0	28
Herbaceous Openland	75	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Jack Pine	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Low-Density Trees	130	0	0	0	0	0	0	0	0	0	0	0	0	0	130
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	11	0	0	0	11
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	0	15	0	74	173	177	60	0	0	0	499
Red Pine	0	0	0	0	0	95	59	10	0	0	0	0	0	0	164
Upland Mixed Forest	0	0	0	0	0	0	61	8	0	0	0	0	0	0	68
Upland Shrub	31	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	29	0	0	144	0	0	0	0	72	245
Total	405	0	276	0	4	185	244	103	317	177	71	21	6	72	1882



Report 2 – Proposed Treatment Summaries

Traverse City Mgt. Unit
Year of Entry 2016

Compartment 026
Total Compartment Acres: 1,882

Acres by Treatment Type

Commercial Harvest - 267 Tree Planting - 0 Other - 0
Habitat Cut - 0 Opening Maintenance - 15

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen Types	80	0	0	0	0	0	80
Northern Hardwood	20	0	0	102	0	0	122
Planted Pines	0	0	0	0	23	0	23
Upland Mixed Forest	42	0	0	0	0	0	42
Total	142	0	0	102	23	0	267



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4 61026004-Cut	20.4	4119 - Mixed Northern Hardwoods	Medium Density Log	73	51-80	Harvest	Clearcut with Reserves	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal

Prescription Specs: --Craig Allen : In Northwest part of stand, harvest all species to regenerate and expand aspen. However, leave majority of good form sugar maple on site for diversity and seed source. Mark leave trees of other species for retention, leaving trees of better form, health and wind firmness. Cut all ironwood. Create some CWD during harvest operations and leave any standing dead trees and den trees that may exist.

Other Comments: --Steve Griffith: Leave tops unchipped as much as possible to provide horizontal habitat component for wildlife. Please leave tops in scattered piles for wildlife habitat as much as possible.

Next Steps:

Proposed Start Date: 10/01/2015

10 61026010-Cut	25.2	4133 - Aspen, Mixed Pine	High Density Log	65	81-110	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
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Prescription Specs: --Craig Allen : Cut all hardwood species and mark retention leave trees and/or islands to open area up for aspen regeneration. Select mark poorer form/health pine to cut or where needed to open areas for aspen growth. Create some CWD during harvest operations and leave any standing dead trees and den trees that may exist.

Other Comments: --Steve Griffith: Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible to provide horizontal habitat component for wildlife. Please leave tops in scattered piles for wildlife habitat as much as possible. Any aspen cuts that are adjacent to a lowland stand please at conclusion of the sale have the logger fell the marked boundary trees in the adjoining lowland stand for hare habitat.

Next Steps:

Proposed Start Date: 10/01/2015

14 61026014-Cut	47.1	4130 - Aspen	High Density Log	60		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Specs: --Craig Allen : Harvest all aspen, red maple and cherry. Also, cut all pine 6 inches DBH and larger. Mark scattered retention trees of cherry, maple and pine. Possibly, could leave some retention islands particularly where there is thick advanced regen of pine or maple. Create some CWD during harvest operations and leave any standing dead trees and den trees that may exist.

Other Comments: --Steve Griffith: Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible to provide horizontal habitat component for wildlife. Please leave tops in scattered piles for wildlife habitat as much as possible. Any aspen cuts that are adjacent to a lowland stand please at conclusion of the sale have the logger fell the marked boundary trees in the adjoining lowland stand for hare habitat.

Next Steps:

Proposed Start Date: 10/01/2015

27 61026027-Cut	42.0	4319 - Mixed Upland Forest	High Density Log	67	51-80	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal
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Prescription Specs: --Craig Allen : Manage for mixed species regeneration. Harvest all hardwood trees, except leaving scattered retention trees of better form/health, windfirmness. Also, select mark poor form/health pine to cut. Cut all ironwood trees to facilitate harvest operations. Create some CWD during harvest operations and leave any standing dead trees and den trees that may exist. Do not cut strip between road and BVT trail...leave for retention and aesthetics.

Other Comments: --Steve Griffith: Leave tops unchipped as much as possible to provide horizontal habitat component for wildlife. Please leave tops in scattered piles for wildlife habitat as much as possible.

Next Steps:

Proposed Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
58 61026058-Cut1	22.9	42110 - Planted Red Pine	High Density Pole	53	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: --Craig Allen : Thin stand by select marking. Adjust for variable BA's in the stand, but try to aim for residual BA target of about 110-120. (current average is 150).

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

59 61026059-Cut	101.7	4117 - Mixed N. Hardwood - Pine	High Density Log	88	81-110	Harvest	Shelter Wood with Reserves	4117 - Mixed N. Hardwood - Pine	Cmpt. Review Proposal
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Prescription Specs: Select mark stand to remove trees of poor form/ health and create openings for advanced regen or for new sprouts. Protect areas of sugar maple advance regen as much as possible. Remaining BA may be quite variable from 20 to 80 depending on location. Create some CWD during harvest operations and leave any standing dead trees and den trees that may exist. Leave tops unchipped as much as possible to provide horizontal habitat component for wildlife. Please leave tops in scattered piles for wildlife habitat as much as possible.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

60 61026060-Cut	7.2	4130 - Aspen	High Density Log	60		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Specs: --Craig Allen : Harvest all hardwoods, except mark some retention trees of better form/health. Keep sale boundary a minimum of 100 feet away from Dair Creek. Create some CWD during harvest operations and leave any standing dead trees and den trees that may exist.

Other Comments: --Steve Griffith: Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible to provide horizontal habitat component for wildlife. Please leave tops in scattered piles for wildlife habitat as much as possible. Any aspen cuts that are adjacent to a lowland stand please at conclusion of the sale have the logger fell the marked boundary trees in the adjoining lowland stand for hare habitat.

Next Steps:

Proposed Start Date: 10/01/2015

13 NF_61026013-NonFor	4.8	3103 - Rubus-Fern				Non-Forest Management	Brush Cutting	3205 - Mixed Upland Shrub	Cmpt. Review Proposal
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Prescription Specs: FRD may want to use this stand as a timber landing. 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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Could plant forage crop appropriate for site location and seasonal (i.e. summer vs. winter forage) wildlife uses. May want/need to work around existing beneficial vegetation (i.e. blackberry).

Other Comments:

Next Steps: Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Proposed Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17 NF_61026017-NonFor	37.6	3302 - Low Density Conifer Trees				Non-Forest Management	Brush Cutting	3205 - Mixed Upland Shrub	Cmpt. Review Proposal

Prescription If FRD agrees, include this stand in adjacent timber sale and, harvest woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. WLD can mark trees to cut or to leave. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. site location and seasonal (i.e. summer vs. winter forage) wildlife uses. May want/need to work around existing beneficial vegetation (i.e. blackberry).

Other
Comments:

Next
Steps: Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. This stand was identified last entry period as a possible location for a State Land Winter Turkey Food Plot location.

Proposed
Start Date: 10/01/2015

19 NF_61026019-NonFor	8.2	3103 - Rubus-Fern				Non-Forest Management	Brush Cutting	320 - Upland Shrub	Cmpt. Review Proposal
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Prescription Prune remnant apple trees. 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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

31 NF_61026031-NonFor	3.9	3105 - Mixed Upland Herbaceous				Non-Forest Management	Brush Cutting	320 - Upland Shrub	Cmpt. Review Proposal
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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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

33 NF_61026033-NonFor	12.6	3303 - Mixed Low Density Trees				Non-Forest Management	Brush Cutting	320 - Upland Shrub	Cmpt. Review Proposal
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Prescription If FRD agrees, include this stand in adjacent timber sale and, harvest some of the white pine to maintain upland brush/grassland community. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

39 NF_61026039-NonFor	25.4	3103 - Rubus-Fern				Non-Forest Management	Brush Cutting	320 - Upland Shrub	Cmpt. Review Proposal
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Prescription Could plant forage crop appropriate for Winter Turkey Food Plot.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	NF_61026042- NonFor	4.7	31021 - Cool Season Grass				Non-Forest Management	Mowing	31021 - Cool Season Grass	Cmpt. Review Proposal
<p><u>Prescription</u> Prune remnant apple trees. 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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p>										

45	NF_61026045- NonFor	12.6	3303 - Mixed Low Density Trees				Non-Forest Management	Brush Cutting	320 - Upland Shrub	Cmpt. Review Proposal
<p><u>Prescription</u> Harvest some of the white pine to maintain upland brush/grassland community.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p>										

62	NF_61026062- NonFor	14.0	3205 - Mixed Upland Shrub				Non-Forest Management	Other - Specify	320 - Upland Shrub	Cmpt. Review Proposal
<p><u>Prescription</u> If FRD agrees, include this stand in adjacent timber sale and, harvest some of the white pine to maintain upland brush/grassland community. Work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p>										

65	NF_61026065- NonFor	2.5	3204 - Mast Producing Shrub				Non-Forest Management	Brush Cutting	320 - Upland Shrub	Cmpt. Review Proposal
<p><u>Prescription</u> 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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p>										

66	NF_61026066- NonFor	3.0	3103 - Rubus-Fern				Non-Forest Management	Other - Specify	320 - Upland Shrub	Cmpt. Review Proposal
<p><u>Prescription</u> If FRD agrees, include this stand in adjacent timber sale and, harvest some of the white pine to maintain upland brush/grassland community. Work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. <u>Steps:</u></p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p>										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
67 NF_61026067-NonFor	4.8	3204 - Mast Producing Shrub				Non-Forest Management	Brush Cutting	320 - Upland Shrub	Cmpt. Review Proposal

Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

75 NF_61026075-NonFor	6.7	6220 - Alder/willow				Non-Forest Management	Brush Cutting	622 - Lowland Shrub	Cmpt. Review Proposal
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Prescription Cut declining alder and willow in order to stimulate regeneration of these lowland shrubs. Cut should take place during the dormant season.
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

77 NF_61026077-NonFor	1.9	3103 - Rubus-Fern				Non-Forest Management	Brush Cutting	320 - Upland Shrub	Cmpt. Review Proposal
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

79 NF_61026079-NonFor	2.7	3105 - Mixed Upland Herbaceous				Non-Forest Management	Brush Cutting	320 - Upland Shrub	Cmpt. Review Proposal
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or
Specs: conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

90 NF_61026090-NonFor	6.0	3105 - Mixed Upland Herbaceous				Non-Forest Management	Brush Cutting	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
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Prescription Remove exotics as needed by herbiciding, or other methods. Seed in forage crop appropriate for site location and seasonal (i.e. summer vs. winter
Specs: forage) wildlife uses. May want/need to work around existing beneficial vegetation (i.e. blackberry).

Other
Comments:

Next Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.
Steps:

Proposed
Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11 61026011-Cut_Plant_Survey	29.1	3302 - Low Density Conifer Trees				Regeneration Survey	Artificial Regeneration (1yr)	42110 - Planted Red Pine	Fld. Tr. Bdy.

Prescription Specs:

Other Comments: --Craig Allen : 12/07/2005 comments:

Stands 11,12 - Since these are quality red pine areas per the Red Pine Project guidelines, change from a systematic thinning to a clearcut, herbicide to control competition and re-plant with red pine.

Next Steps: --Craig Allen : 12/20/2013 comments: will need regen check

--Craig Allen : 03/17/2011 comments: area has been trenched, just needs to be planted to red pine FTP # C-61-489

Proposed Start Date: 04/27/2014

12 61026012-Cut_Plant_Survey	31.5	42120 - Planted Jack Pine	High Density Pole	55		Regeneration Survey	Artificial Regeneration (1yr)	4199 - Other Mixed Upland Deciduous	Fld. Tr. Bdy.
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Prescription Specs:

Other Comments: --Craig Allen : 12/20/2013 comments:

Area has been trenched and next step will be to plant area to red pine. FTP # C-61-489
will need regen check

Proposed Start Date: 04/27/2014

41 61026041-Cut_Plant_Survey	24.5	790 - Other Bare/Sparsely Vegetated				Regeneration Survey	Artificial Regeneration (1yr)	42110 - Planted Red Pine	Fld. Tr. Bdy.
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Prescription Specs:

Other Comments: Stand 41 Discussed increasing diversity and to manage as a Red Pine/Oak type. Consider leaving a total of 5 acres of islands throughout the stand. Plant oak in leave islands.

Next Steps: --Craig Allen : 12/20/2013 comments: Was planted to redpine...now follow up with regen survey

area has been clearcut (except for leave islands) and heavy slash had to be burned. Has been trenched and now waiting for area to be hand planted to red pine.

Proposed Start Date: 04/27/2014

Total Treatment Acreage Proposed: 503.3



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: 0.0

Report 5 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment 026

Year of Entry 2016

Availability for Management

Total Acres	Acres Available	Acres Not Available	Dominant Site Conditions	Dominant Site Conditions						
				No	5E	5C	5B	3A	2G	2F
560	545	15	Aspen	478		57	10			15
28		28	Cedar						28	
4		4	Jack Pine		4					
11		11	Lowland Deciduous						11	
12	12		Natural Mixed Pines	12						
499	499		Northern Hardwood	491		8				
164	164		Red Pine	154		10				
68	68		Upland Mixed Forest	51		17				
245	176	69	White Pine	174		2		69		
1,591	1,464	127	Total Forested Acres	1,360	4	94	10	69	39	15
	92%	8%	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
002	Available	5B: Maintain for regeneration purposes	10				
Comments: LF- left for natural conversion to ash and age class diversity.							
004	Not Available	3A: Potential old growth / biodiversity	69				
Comments:							
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10				
Comments:							

Report 5 – Site Conditions

Traverse City Mgt. Unit

Compartment 026

Craig Allen : Examiner

Year of Entry 2016

008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17		
Comments: Kotar Survey					
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	22	3J: Water quality / BMPs (stream, river, or lake)	
Comments:					
010	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6	3J: Water quality / BMPs (stream, river, or lake)	
Comments: Dair creek corridor					
011	Not Available	2F: Too steep	15		
Comments: LF- Terrain and river setback					
013	Not Available	2G: Too wet (sensitive soils, does not include access issues)	11		
Comments: Lf= wet					
015	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13		
Comments:					

Report 5 – Site Conditions

Traverse City Mgt. Unit
Craig Allen : Examiner

Compartment 026
Year of Entry 2016

016	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16
Comments:			
017	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13
Comments:			
018	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10
Comments:			
019	Not Available	5E: Long Term Retention	4
Comments:			
020	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16
Comments:			



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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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 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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Traverse City Mgt. Unit		Report 8 – Forested Stands			Compartment: 026 Year of Entry: 2016
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	High Density Pole	6.3	53	111-140	seedlings=red and sugar maple Height= 52' (in 2004)
3	42110 - Planted Red Pine	High Density Pole	25.7	53	111-140	Heights= 57' and 54' seedlings= sugar maple and ironwood.
4	4119 - Mixed Northern Hardwoods	Medium Density Log	61.2	73	51-80	Not much aspen, and it is quite scattered (not much in clones). Some Large, old white pine present. Some witch hazel present.
6	4110 - Sugar Maple Association	High Density Pole	13.0	79	51-80	Seedlings=sugar maple Also contains a few aspen and hemlock.
8	4110 - Sugar Maple Association	High Density Log	56.6	93	51-80	Also, Some w. pine super canopy trees. Some hemlock. Seedlings=sugar maple. Thinned = Nov/dec. 2010 2012...Maple decline present in stand...particularly in north end.
9	42201 - Natural White Pine, Mixed Deciduous	High Density Log	69.0	85	111-140	
10	4133 - Aspen, Mixed Pine	High Density Log	25.2	65	81-110	Very mixed species stand. Good white pine and good aspen. Most of the red pine in the stand is plantation that was taken over by hardwoods.
12	42120 - Planted Jack Pine	High Density Pole	4.3	55		
14	4130 - Aspen	High Density Log	63.3	60		Lots of apple trees were planted on this 80 in what appears as a failed attempt at an orchard, most likely planted pre-depression era. seedlings= cherry, wp, rm
15	4319 - Mixed Upland Forest	High Density Log	7.5	78	51-80	seedlings=maple,beech,ironwood. Quality of hardwoods is low. Red pine is plantation that is over taken by hardwoods.
16	42110 - Planted Red Pine	High Density Pole	31.9	53	111-140	
20	4130 - Aspen	High Density Pole	12.7	55		Aspen is doing good. Consider harvest in 10 to 20 years. Want to delay in order to stagger age classes of aspen here. seedlings= rm, ironwood

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 026
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	42200 - Natural White Pine	Low Density Log	42.0	Uneven Age	51-80	Nice white pine quality, not much for weevil problems. Stand was harvest of all aspen and red maple in fall of 2007. Majority of pine was left on site.
22	4130 - Aspen	High Density Pole	15.9	52		Aspen is in good health and condition. seedlings= beech, rm, sm.
23	4130 - Aspen	High Density Sapling	12.4	26		
24	4130 - Aspen	High Density Pole	3.9	40		Seedlings=RM, SM, Cherry Healthy, young aspen.
26	4112 - Maple, Beech, Cherry Association	High Density Log	42.3	83	51-80	seedlings are primarily sugar maple. Thinned in fall of 2010
27	4319 - Mixed Upland Forest	High Density Log	43.8	67	51-80	seedlings=rm, sm, beech, ironwood Handful of elm trees in stand. Many very large DBH ironwood.
29	4139 - Aspen, Mixed Deciduous	High Density Log	13.1	52	81-110	Seedlings= sugar, red maple, ironwood, white pine. Nice quality in all tree species.
30	4112 - Maple, Beech, Cherry Association	High Density Log	18.1	93	81-110	Medium quality maple.
32	4130 - Aspen	High Density Sapling	56.9	26		
34	42260 - Natural Pine, Mixed Deciduous	Medium Density Log	11.6	70	51-80	seedlings= red maple, cherry
35	42200 - Natural White Pine	Low Density Pole	28.7	50	1-50	seedlings=mostly white pine and some cherry.
36	42110 - Planted Red Pine	High Density Log	10.1	72	200+	
37	42200 - Natural White Pine	Low Density Log	29.7	Uneven Age	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4112 - Maple, Beech, Cherry Association	High Density Log	8.2	83	81-110	Mid to lower quality N. hardwoods. Heavy ironwood content. seedlings= ironwood, sugar maple. Took 6 different BA's for avg of 105.
40	4311 - Pine, Aspen Mix	Medium Density Pole	16.8	60	51-80	
43	42110 - Planted Red Pine	High Density Log	59.0	61	111-140	Very good quality. seedlings= sugar maple.
44	4110 - Sugar Maple Association	High Density Log	29.0	103	51-80	.
46	4113 - R.Maple, Conifer	High Density Log	6.0	80	51-80	
47	4130 - Aspen	Medium Density	51.9	26		
49	4110 - Sugar Maple Association	High Density Log	8.0	95	51-80	Also has a few ash, basswood, and cherry. Not much indicator plants. seedlings= ironwood, sugar maple.
51	4130 - Aspen	High Density Sapling	49.5	6	1-50	
53	4116 - Mixed N. Hardwood - Aspen	High Density Log	15.2	55	81-110	seedlings=sugar maple. Aspen=65' tall
54	4130 - Aspen	High Density Sapling	18.0	7		Stand was harvest of all aspen and red maple in fall of 2007. Majority of large old white pine was left on site.
56	42200 - Natural White Pine	Medium Density Log	75.4	80		
57	4130 - Aspen	High Density Sapling	22.0	24		Scattered (mostly log-sized) white pine trees left when this was cut. Also, scattered natural openings.
58	42110 - Planted Red Pine	High Density Pole	22.9	53	111-140	Heights: 55' and 50'
59	4117 - Mixed N. Hardwood - Pine	High Density Log	101.7	88	81-110	Medium to low quality hardwoods intermixed with good white pine. Most likely a low site index for the hardwoods. Also contains some beech.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4130 - Aspen	High Density Log	10.3	60		East end = aspen large and starting to show signs of decline. Scattered w. pine saps in understory.
4130 - Aspen	High Density Sapling	64.1	24		
6120 - Lowland Cedar	High Density Log	21.5	115		
4119 - Mixed Northern Hardwoods	High Density Log	8.6	83	51-80	Seedlings= cherry, ironwood.
4139 - Aspen, Mixed Deciduous	High Density Pole	15.5	60		
4130 - Aspen	High Density Sapling	22.1	24		Forbs= raspberry, Brachen, trout lilly Also some scattered white pine pole/sawlog trees were left when this stand was cut.
4112 - Maple, Beech, Cherry Association	High Density Log	19.1	103	81-110	Also has: scattered witch hazel, white pine saps, ash sweet cicely, trout lilly, violet.
4110 - Sugar Maple Association	Medium Density Log	50.0	90	51-80	Dry site scattered openings
4130 - Aspen	High Density Sapling	22.2	24		
6120 - Lowland Cedar	Medium Density Log	6.3	120		
6119 - Mixed Lowland Deciduous Forest	High Density Pole	11.3	103		Lots of puddles of standing water with Marsh Marigold.
4119 - Mixed Northern Hardwoods	Medium Density Log	6.0	88	51-80	park-like, with natural openings Saplings moving into the openings.
4130 - Aspen	High Density Sapling	22.4	7		Stand was cut in June, 2007. Red maple, aspen, cherry was cut (except those trees marked with green paint) Lots more maple and ash in understory in the south end. Medium quality aspen.
4130 - Aspen	High Density Sapling	8.4	24		
4130 - Aspen	High Density Sapling	9.3	24		

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 026
Year of Entry: 2016

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
87	4130 - Aspen	High Density Sapling	1.6	24		This is a very small parcel in SW most corner of compartment that actually is managed by adjacent compartment (comp 27)
88	4130 - Aspen	High Density Pole	9.9	65		
89	42110 - Planted Red Pine	High Density Pole	8.4	56	81-110	Seedlings= ash, sugar maple, cherry
91	4130 - Aspen	High Density Pole	4.7	24		Also has raspberry.
92	4112 - Maple, Beech, Cherry Association	High Density Log	11.6	102	81-110	Stand was thinned spring of 2009
93	4130 - Aspen	High Density Sapling	9.2	7		
95	4130 - Aspen	High Density Sapling	15.8	7		
96	4119 - Mixed Northern Hardwoods	High Density Log	44.6	90	81-110	Also has some scattered large DBH beech. Has some very large and old white pine scattered locations.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3104 - Degraded	4.7	No	Medium	East portion is degraded, mostly spotted knapweed and sheep's sorrow. West of railroad grade is more mixed grasses/cladonia/spotted knapweed/hoary alysum. Unlisted specie is hoary alysum.
5	3105 - Mixed Upland Herbaceous	2.6	No	Low	A large forest juneberry along edge. Bracken fern in center. A nice forest transition between red pine and maple stands. Unlisted specie is hoary alysum.
7	3103 - Rubus-Fern	1.7	No	Low	Extends west of two-track for an additional acre outside of compartment.
11	3302 - Low Density Conifer Trees	61.6	Plantation	Red Pine	red pine/jack pine strip plantation that was clearcut in Oct.2007. Was roller chopped in fall of 2008 for site prep Was trenched and planted to red pine in spring of 2011
13	3103 - Rubus-Fern	4.8	No	Low	A few apple trees. Bracken fern covered. Some shrub species present.
17	3302 - Low Density Conifer Trees	37.6	No	Low	Trees mostly pole white pine, short and thick at the bases. A few seedling/sapling whitepine mixed in.
18	122 - Road/Parking Lot	5.2			
19	3103 - Rubus-Fern	8.2	No	Low	White pine in clumps to the south. Some aspen regeneration (very light) along perimeter. A few black cherries are dead. Two apple trees to the north. Single elm tree. Unlisted specie is apple.
25	3103 - Rubus-Fern	2.4	No	Low	Deer blind on state land with built-in outhouse. Dead porcupine inside and newspaper (Nov. 15, 2003).
31	3105 - Mixed Upland Herbaceous	3.9	No	Low	Some large white pine along south perimeter. Aspen regenerating in spots. A few areas with clumps of choke cherry/shrubby sapling black cherries. Two young (15ft) hemlock in one spot.
33	3303 - Mixed Low Density Trees	12.6	No	Low	Mostly white pine and black cherry, but there are some nice, large red maples to the north. Ground cover is mostly bracken fern, but less then other openings in area. Spots of cladonia/poverty grass. Some choke cherry, and large forest juneberry, and a snag along south border. Aspen/cherry clumps in SE part.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
39	3103 - Rubus-Fern	25.4	No	Low	Some natural regenerating jack/white pine along east perimeter, too much to cut with chainsaw. Recommend to let succeed. All bracken fern, but all of cladonia underneath. Variety of shrub species found here. Clumps of autumn olive to the south and east side. Unknown shrub, 3 total, found here - shaped like witch-hazel, kinda like an apple tree, multi-stemmed like a juneberry.
41	790 - Other Bare/Sparsely Vegetate	26.9	Plantation	Red Pine	formerly a jack pine stand that was clearcut, then slash was burned to prepare area to be trenched and handplanted to red pine seedlings. 4/28/2011 area planted to red pine (2-0)
42	31021 - Cool Season Grass	4.7	No	Low	Three large white pine. Two apple trees. Big black cherry along perimeter. Old homestead. Finger between pine stands is natural regenerating jack/red pine. Ground cover here is bracken fern/st. john's wort and cladonia/poverty. This part should not be included with the cool summer grass field. First unlisted specie is apple. Second unlisted species is hoary alysum.
45	3303 - Mixed Low Density Trees	12.6	No	Low	Unlisted specie is hawkweed.
48	3105 - Mixed Upland Herbaceous	3.3	No	Low	A couple bluebird houses placed along grade. A few seedling white/red pine along perimeter. Unlisted specie is hoary alysum.
50	122 - Road/Parking Lot	6.4			
52	3301 - Low Density Deciduous Trees	5.3	No	Low	Hodge-podge of stuff. Natural regenerating aspen and cherry. Pole/log size sugar maple left over from previous cut. Aspen in east half. Did not inventory small opening to SE due to time constraints. Unlisted one is mullein. Second unlisted specie is hawkweed.
55	3205 - Mixed Upland Shrub	5.1	No	Low	
62	3205 - Mixed Upland Shrub	14.0	No	Low	First unlisted is hawkweed. Second unlisted is goldenrod.
65	3204 - Mast Producing Shrub	2.5	No	Low	Lots of black cherry and witch-hazel. Ground cover is mostly rubus specie.
66	3103 - Rubus-Fern	3.0	No	Low	Unlisted is a mixture of forbs.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
67	3204 - Mast Producing Shrub	4.8	No	Low	A few nice snags. Some nice, straight white pine. Mostly black cherry shrubland with upland deciduous mixed in. Ground cover is dominated by raspberry/blackberry with clumps of goldenrod. Fair amount of mullein found here. Unlisted specie is hawkweed.
71	6233 - Wet Meadow	6.5	No	Low	Seasonally wet, currently has water in it. Mostly sedges with a few alders along perimeter. Dead wood and snags.
73	50 - Water	2.7	No	Low	Beaver lodge. Wood ducks flying around. Beaver activity. This is an old beaver pond with lots of dead wood. Perimeter is covered in sedges. Some cattails, tag alders, and bulrushes.
75	6220 - Alder/willow	6.7	No	Low	Beavers made a second-tier dam. Froms east edge, looks mostly tag alders. Unlisted specie is fern.
77	3103 - Rubus-Fern	1.9	No	Low	Mosty rubus specie with hawkweed and st. john's wort.
79	3105 - Mixed Upland Herbaceous	2.7	No	Low	NE portion (1 acre) is all bracken fern. Rest is mixed-upland herbaceous. First unlisted is Mullein, second unlisted is goldenrod, and third unlisted is hoary alysum.
84	3204 - Mast Producing Shrub	4.1	No	Low	Black cherry with mixed fruiting shrubs underneath. Ground cover is mostly rubus, cladonia, mixed grasses & forbs.
90	3105 - Mixed Upland Herbaceous	6.0	No	Low	South portion has a higher percentage of spotted knapweed/invasive exotics. Might want to do something here or leave as-is. First unlisted is hoary alysum. Second unlisted is mullein.