



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 127

Entry Year 2016

Acreage: 3,122

County Kalkaska

Management Area: Grayling Outwash

Revision Date: 04/03/2014

Stand Examiner: Kelly Standerfer

Legal Description:

T25N R6W Sections 3, 4, and 5; T26N R6W Sections 27, 28, 29, 32, 33, and 34

Identified Planning Goals:

Timber management in the Grayling Outwash management area will emphasize balancing the age class of aspen on suitable sites, thinning northern hardwoods, balancing age classes of red pine and jack pine, and regenerating the aging swamp hardwood and conifer resource where possible. Management will strive to sustainably produce various timber products, enhance game and non-game wildlife habitat, protect areas of unique character and provide for forest-based recreational uses. Management activities are constrained by poor access in the swampy portions of this area, some of which fall in the riparian zone of the Manistee River, a dedicated natural river. Expected trends within this 10-year planning period are increased recreational pressure, introduced pests and diseases and the difficulty in regenerating swamp types.

Soil and topography:

Most of the upland is Rubicon sand or Croswell sand. The lowland is mostly Tawas-Lupton mucks or other associations. The compartment is relatively flat with some slopes near the Manistee River and the lower end of the North Branch of the Manistee River.

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

There are small scattered private parcels along the Manistee River in the south end of this compartment. Some private holdings are within the compartment. The surrounding area is fairly remote with heavy state ownership to the east and north and state and private to the south and west.

Unique Natural Features:

No Unique Natural Features known.

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:

The Manistee River and its tributaries are protected by Natural Rivers designation.

Watershed and Fisheries Considerations:

The Manistee River and the North Branch of the Manistee River are both Designated Trout Streams and Natural Rivers. The Manistee River is one of the most popular trout streams in Michigan and has excellent populations of wild brook and brown trout. The North Branch of the Manistee has an excellent population of wild brook trout.

Wildlife Habitat Considerations:

Featured wildlife species for this management area are: Eastern massasauga rattlesnake, pileated woodpecker, ruffed grouse, snowshoe hare, wild turkey, and white-tailed deer. Some of the most significant wildlife management issues will be maintenance of young forest and large open grassland complexes, the retention of large, over-mature trees and snags, and the maintenance and expansion of hard mast and mesic conifer components.

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 200 and 400 feet. Beneath the glacial drift are the Mississippian Michigan Formation and the Marshall Sandstone. The Michigan is used for gypsum and the Marshall was previously used as a building stone. A gravel pit is located in Section 4 and there may be some potential on uplands. This area is located two miles northwest of Tiger's new field. The field appears to produce from the Devonian Richfield and the Ordovician PdC. There are not any current oil and gas leases in the compartment.

Vehicle Access:

There is sufficient vehicle access to the compartment however some of the roads are in need of repair.

Survey Needs:

There are several survey needs within this compartment, mainly at the south end of the compartment.

Recreational Facilities and Opportunities:

A short stretch of the Cranberry Snowmobile/Kalkaska Route ORV trail runs through the northeast part of the compartment. Appropriate trail protection specifications should be added to the timber sale contracts to reduce potential impacts to trails where treatments are prescribed. The Manistee River is popular for paddling and fishing. (T.M.N 5/15/14)

Fire Protection:

There is limited wildfire potential in much of this compartment due to wet ground. Fire protection would be provided by the Kalkaska FRD office and Garfield Fire Department. Sections 4, 5, 27, 32, 33, and 34 are within Zone 5 zone dispatch area, meaning additional units would be dispatched from the Grayling and Houghton Lake DNR offices depending on fire danger rating.

Additional Compartment Information:

With the large lowland complex in this compartment there is also the potential for sensitive plants and animals.

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**

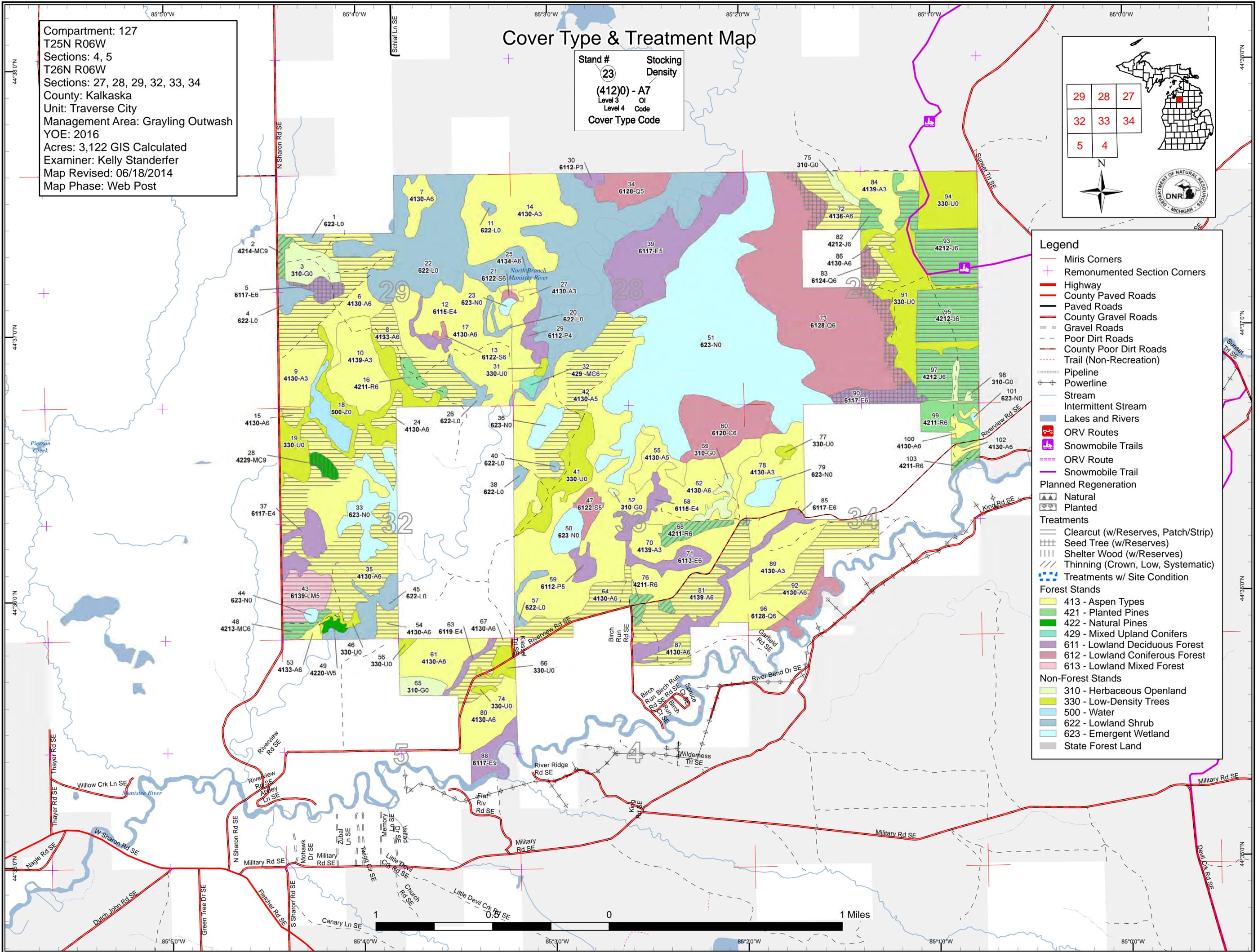
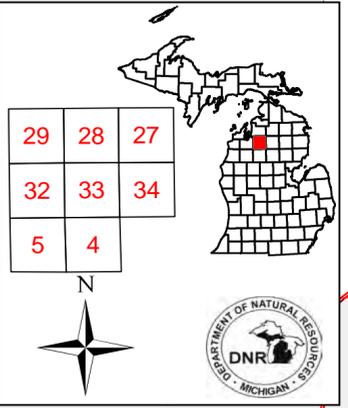
The following information is displayed, where pertinent, on the attached compartment maps:

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

Compartment: 127
 T25N R06W
 Sections: 4, 5
 T26N R06W
 Sections: 27, 28, 29, 32, 33, 34
 County: Kalkaska
 Unit: Traverse City
 Management Area: Grayling Outwash
 YOE: 2016
 Acres: 3,122 GIS Calculated
 Examiner: Kelly Standerfer
 Map Revised: 06/18/2014
 Map Phase: Web Post

Cover Type & Treatment Map

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



Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Pipeline
- Powerline
- Stream
- Intermittent Stream
- Lakes and Rivers
- ORV Routes
- Snowmobile Trails
- ORV Route
- Snowmobile Trail

Planned Regeneration

- Natural
- Planted

Treatments

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

Forest Stands

- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- State Forest Land



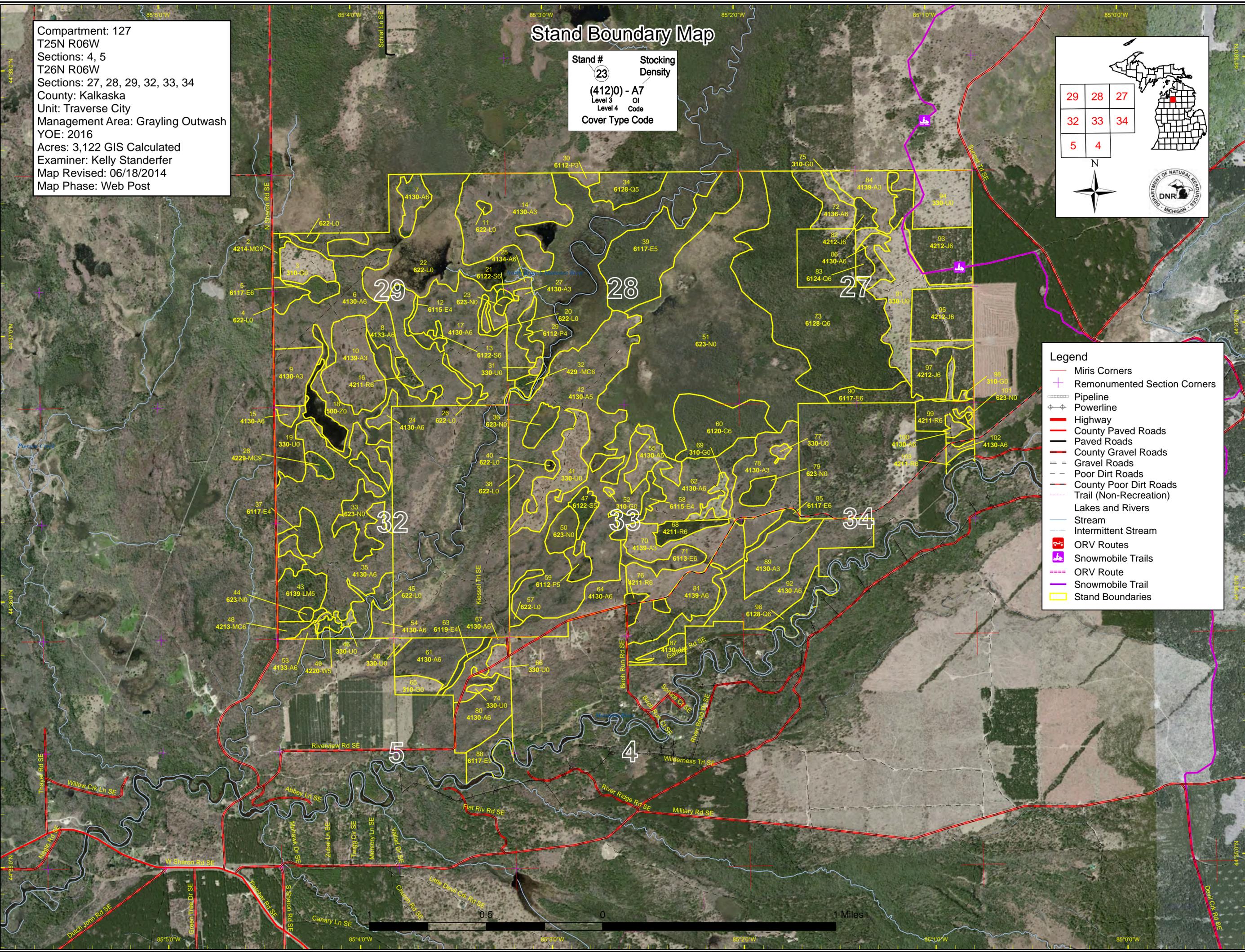
Stand Boundary Map

Compartment: 127
 T25N R06W
 Sections: 4, 5
 T26N R06W
 Sections: 27, 28, 29, 32, 33, 34
 County: Kalkaska
 Unit: Traverse City
 Management Area: Grayling Outwash
 YOE: 2016
 Acres: 3,122 GIS Calculated
 Examiner: Kelly Standerfer
 Map Revised: 06/18/2014
 Map Phase: Web Post

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

| | | |
|----|----|----|
| 29 | 28 | 27 |
| 32 | 33 | 34 |
| 5 | 4 | |

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Legend

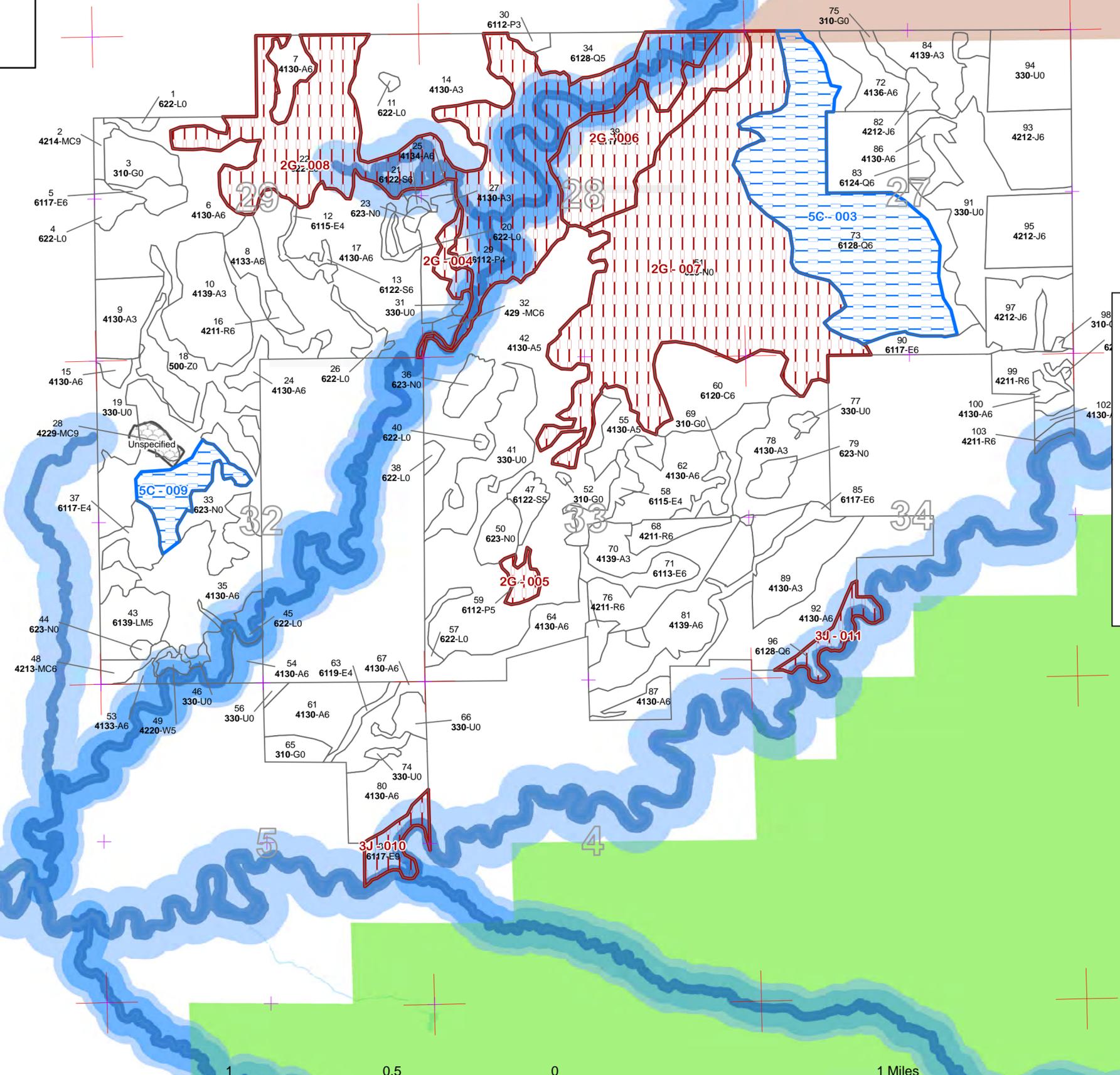
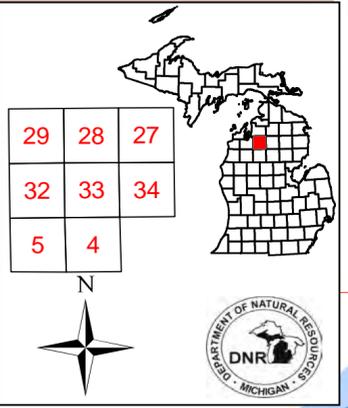
- Miris Corners
- Remonumented Section Corners
- Pipeline
- Powerline
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
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- County Poor Dirt Roads
- Trail (Non-Recreation)
- Lakes and Rivers
- Stream
- Intermittent Stream
- ORV Routes
- Snowmobile Trails
- ORV Route
- Snowmobile Trail
- Stand Boundaries



Special Conservation Areas & Site Conditions Map

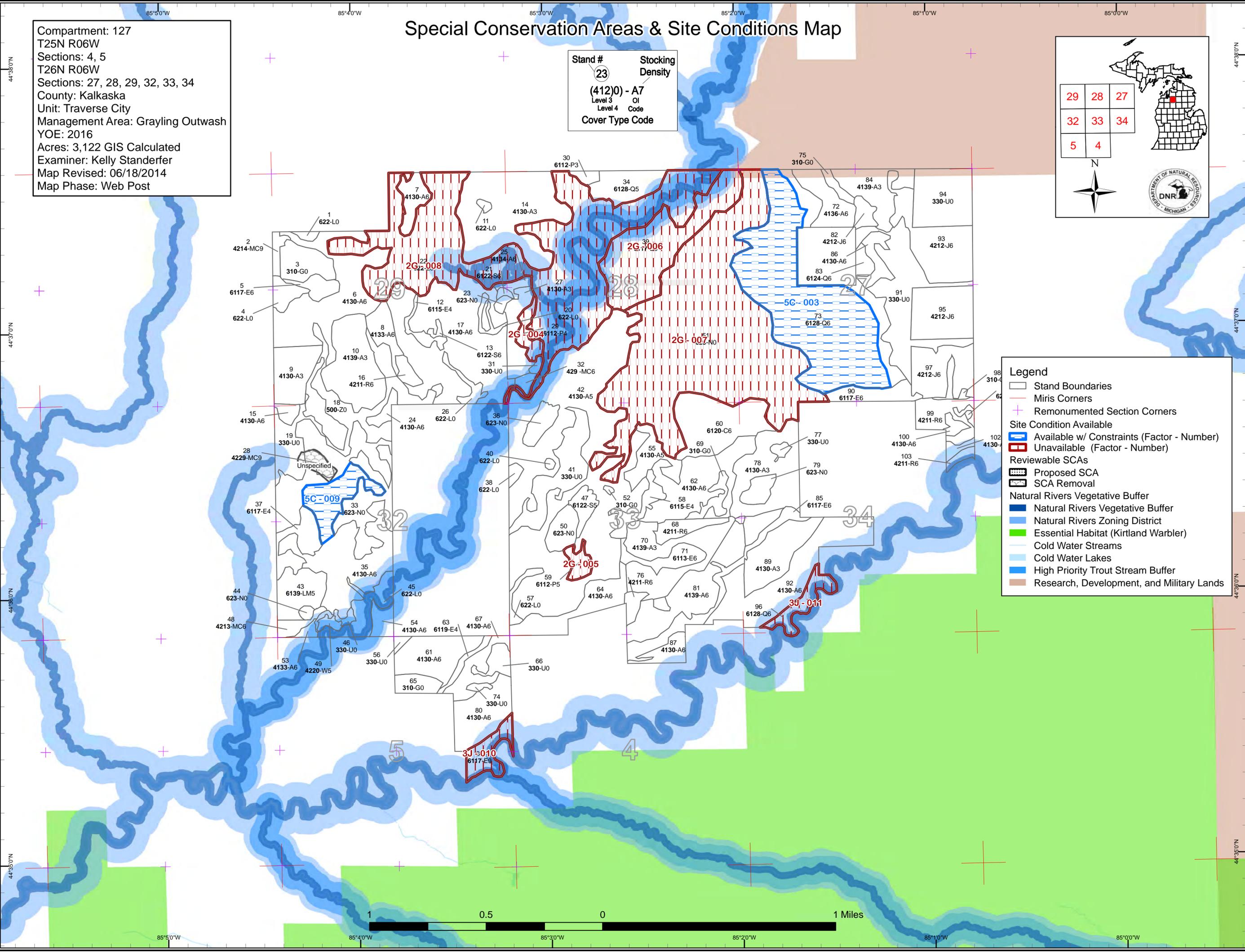
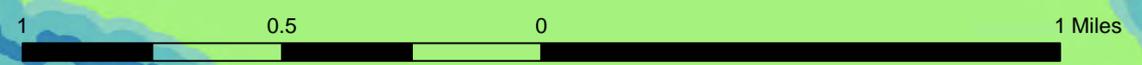
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 Examiner: Kelly Standerfer
 Map Revised: 06/18/2014
 Map Phase: Web Post

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



Legend

- Stand Boundaries
- ✕ Miris Corners
- ✕ Remonumented Section Corners
- Site Condition Available
- ▒ Available w/ Constraints (Factor - Number)
- ▒ Unavailable (Factor - Number)
- Reviewable SCAs
- ▒ Proposed SCA
- ▒ SCA Removal
- Natural Rivers Vegetative Buffer
- ▒ Natural Rivers Vegetative Buffer
- ▒ Natural Rivers Zoning District
- ▒ Essential Habitat (Kirtland Warbler)
- ▒ Cold Water Streams
- ▒ Cold Water Lakes
- ▒ High Priority Trout Stream Buffer
- ▒ Research, Development, and Military Lands



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 | 215 | 68 | 134 | 459 | 183 | 262 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1338 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 52 |
| Herbaceous Openland | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| Jack Pine | 0 | 0 | 0 | 0 | 0 | 0 | 126 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 126 |
| Low-Density Trees | 221 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 221 |
| Lowland Aspen/Balsam Poplar | 0 | 4 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 23 | 218 | 0 | 0 | 0 | 0 | 0 | 247 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 6 | 59 | 123 | 17 | 0 | 0 | 0 | 0 | 0 | 204 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Lowland Shrub | 349 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 349 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Marsh | 395 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 395 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 |
| Planted Mixed Pines | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 11 |
| Red Pine | 0 | 0 | 0 | 0 | 31 | 11 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Water | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| White Pine | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 1241 | 72 | 134 | 459 | 223 | 320 | 216 | 160 | 235 | 57 | 5 | 0 | 0 | 0 | 3122 |



Report 2 – Proposed Treatment Summaries

Traverse City Mgt. Unit
Year of Entry 2016

Compartment 127
Total Compartment Acres: 3,122

Acres by Treatment Type

Commercial Harvest - 690 Tree Planting - 118 Other - 61
Habitat Cut - 0 Opening Maintenance - 11

Cover Type by Harvest Method

| | | Clearcut | Selection | Seed Tree | Shelterwood | Thinning | Other - Specify | Total Acres |
|---------------------------|------------|----------|-----------|-----------|-------------|----------|-----------------|-------------|
| Aspen Types | 448 | 0 | 0 | 0 | 0 | 0 | 0 | 448 |
| Lowland Coniferous Forest | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 31 |
| Lowland Deciduous Forest | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 24 |
| Lowland Mixed Forest | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Natural Pines | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 |
| Planted Pines | 131 | 0 | 0 | 0 | 27 | 0 | 0 | 158 |
| Total | 603 | 0 | 55 | 5 | 27 | 0 | 0 | 690 |



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| Treatment Name | Acres | CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|---|-------|----------------------------|------------------|-----------|----------|----------------|------------------|----------------------------|-----------------------|
| 2 61127002-Cut | 4.8 | 42140 - Planted Mixed Pine | High Density Log | 93 | 200+ | Harvest | Crown Thinning | 42140 - Planted Mixed Pine | Cmpt. Review Proposal |
| <p><u>Prescription</u> Historical pine plantation. Dense and tall stand, take a row or two out and take all trees under 6" out throughout stand to clean up form below. few rows of red and few rows of white. Cut all jack as well.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p> | | | | | | | | | |

| | | | | | | | | | |
|---|-----|--|-------------------|----|--------|---------|-------------------------|--|-----------------------|
| 5 61127005-Cut | 8.4 | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Pole | 65 | 81-110 | Harvest | Seed Tree with Reserves | 6117 - Lowland Deciduous, Mixed Coniferous | Cmpt. Review Proposal |
| <p><u>Prescription</u> Most is lowland, some is upland around the edge. Cut all trees over 4" dbh except save most or all cedar. Green tree mark mix bag of species for seed, diversity and retention. Some may be to wet to treat @ sw edge of stand. Any mix of regen acceptable. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p> | | | | | | | | | |

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|--|------|--------------|-------------------|----|---------|---------|------------------------|-------------|-----------------------|
| 6 61127006-Cut | 52.2 | 4130 - Aspen | High Density Pole | 45 | 111-140 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
| <p><u>Prescription</u> South end of stand seems a bit younger, tough to tell where the break is. North end has some very nice aspen. Wet fingers throughout stand. Nothing looks to be bed and banky water flow but rather seasonal flooded/ sheet flow. Final harvest north 1/2 to 2/3 this YO, leave retention along wet areas. OK to green tree mix bad of species as well. Treat north 1/2 to 2/3 of the stand this YO for age class distribution. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2015</p> | | | | | | | | | |

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|--|------|--------------------------|-------------------|----|---------|---------|------------------------|--------------------------|-----------------------|
| 8 61127008-Cut | 13.3 | 4133 - Aspen, Mixed Pine | High Density Pole | 55 | 111-140 | Harvest | Clearcut with Reserves | 4133 - Aspen, Mixed Pine | Cmpt. Review Proposal |
| <p><u>Prescription</u> Nice mixed mature aspen with pine & maple. Final harvest but green tree some larger diameter white pine and maple. OK to leave a bit thicker in areas without aspen but in heavy aspen areas cut a bit harder for thick stem density regen. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed 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 |
|-----------------|-------|--------------|-------------------|-----------|----------|----------------|------------------------|-------------------------------|-----------------------|
| 15 61127015-Cut | 4.4 | 4130 - Aspen | High Density Pole | 43 | 51-80 | Harvest | Clearcut with Reserves | 4139 - Aspen, Mixed Deciduous | Cmpt. Review Proposal |

Prescription Specs: small stand of mature timber. Final harvest but save all pine. retention will be less than 3-10% as the stand is only 4.4 acres. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------------|------|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|
| 17 61127017-Cut_small | 23.2 | 4130 - Aspen | High Density Pole | 38 | 81-110 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
|-----------------------|------|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|

Prescription Specs: Most is A4 to A6 just coming into good merchantable size. Cut ~ 1/4 - 1/3 of the stand this YOY to break up age class dist. in the area. South West end of stand appears to be the farthest along so final harvest this area. The rest should hold good 10 years. Big tooth areas doing very good, quaking aspen areas noo as great. Save most or all pine for cut area. Good pine ground. More birch mixed in along wet areas. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------|-----|--------------|-------------------|----|---------|---------|------------------------|-------------|-----------------------|
| 24 61127024-Cut | 5.2 | 4130 - Aspen | High Density Pole | 70 | 111-140 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
|-----------------|-----|--------------|-------------------|----|---------|---------|------------------------|-------------|-----------------------|

Prescription Specs: Stand itself is mostly upland. access is WET! Painted out of large stand to the north last YOY. May be able to get to stand from the north, will likely need to be done in winter and crane mats may still be needed to get across a small LO/VO area. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------|-----|----------------------------|------------------|-----|------|---------|-------------|---|-----------------------|
| 28 61127028-Cut | 5.3 | 42290 - Natural Mixed Pine | High Density Log | 103 | 200+ | Harvest | Shelterwood | 42141 - Planted Mixed Pine, Mixed Deciduous | Cmpt. Review Proposal |
|-----------------|-----|----------------------------|------------------|-----|------|---------|-------------|---|-----------------------|

Prescription Specs: Nice mixed pine. West 1/3 or so is red pine east 2/3 is white pine. some looked like it may have been planted but most is randomly spaced so called natural stand. thick maple understory in much of stand. Shelterwood stand while we are cutting in the area. save the nicest and healthiest trees. either green tree to leave or orange tree mark down to

Other Comments:

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 |
|-----------------|-------|--------------|-------------------|-----------|----------|----------------|------------------------|----------------------|-----------------------|
| 35 61127035-Cut | 62.3 | 4130 - Aspen | High Density Pole | 55 | 81-110 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |

Prescription Specs: Some is pretty wet and some is dry with bracken fern. calling upland but much will be low ground. some is pretty rough with poor stocking and some is pretty nice. try to treat ~ 2/3 of the stand this YOE to break up age class diversity of the area. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

| | | | | | | | | | |
|-----------------------|------|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|
| 35 61127035-Cut_small | 47.3 | 4130 - Aspen | High Density Pole | 55 | 81-110 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
|-----------------------|------|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|

Prescription Specs: Some is pretty wet and some is dry with bracken fern. calling upland but much will be low ground. some is pretty rough with poor stocking and some is pretty nice. try to treat ~ 2/3 of the stand this YOE to break up age class diversity of the area.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

| | | | | | | | | | |
|-----------------|------|--------------|---------------------|----|-------|---------|------------------------|-------------|-----------------------|
| 42 61127042-Cut | 55.6 | 4130 - Aspen | Medium Density Pole | 38 | 51-80 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
|-----------------|------|--------------|---------------------|----|-------|---------|------------------------|-------------|-----------------------|

Prescription Specs: Treatment area scaled back after pre-review to better fit MA plan. Cutting approximately 1/4 of the stand. Final harvest but save all fir over 4" dbh. save some retention around wet areas if needed. Retention will likely be less than the 3% to maximize stem density, remainder of the parent stand retention will be left next YOE when remainder of the stand is cut. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments: Most is A5 A6ish but some is pretty rough shape one or two stick A4. Some LO and E4 inclusions as well. difficult to line out every wet drain area. Alot of it is upland but Alot is low and wet. Most of stand is upland however drains throughout stand will make skidding pretty tricky so probably winter or extremely dry summer harvest only.

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------|------|-----------------------------|---------------------|----|-------|---------|------------------------|-----------------------------|-----------------------|
| 43 61127043-Cut | 24.0 | 6139 - Mixed Lowland Forest | Medium Density Pole | 55 | 51-80 | Harvest | Clearcut with Reserves | 6139 - Mixed Lowland Forest | Cmpt. Review Proposal |
|-----------------|------|-----------------------------|---------------------|----|-------|---------|------------------------|-----------------------------|-----------------------|

Prescription Specs: Seed tree harvest. Cut most or all aspen and red maple. leave mix bag of green trees for seed, diversity & water pumping, save more conifer than deciduous to try to promote conifer regeneration as this is good natural pine ground (PARVCo). May need to have this stand chip harvested so that we can get someone to cut and chip the scotch pine to the south. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments: Separated this stand out as it has a bit more conifer component than the similar stand to the NE. Some is wet and some is dry... looks to be 50/50 mix of wet and dry, called it wet as that will have a greater bearing on treatment timing.

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 |
|-----------------|-------|-----------------------------|-------------------|-----------|----------|----------------|------------------|--------------------------------|-----------------------|
| 48 61127048-Cut | 6.5 | 42130 - Planted Scotch Pine | High Density Pole | 49 | 81-110 | Harvest | Clearcut | 611 - Lowland Deciduous Forest | Cmpt. Review Proposal |

Prescription Specs: Some looks to be wet footed scotch pine plantation, or atleast it looks pretty wet, 3 feet of snow :-/ Chip harvest in winter to minimized scotch pine spread. Should fill back in with understory tag and maple.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

| | | | | | | | | | |
|-----------------|-----|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|
| 54 61127054-Cut | 8.1 | 4130 - Aspen | High Density Pole | 64 | 81-110 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
|-----------------|-----|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|

Prescription Specs: Final harvest if we can get access across private. House 10 feet off the private line to the south. East edge more GO. final harvest all deciduous. green tree som maple @ south edge for visual and retention. save most or all pine. cut fir 4" and over. should regenerate nicely. Stay atleast 175' from river. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------|------|--------------|-------------------|----|---------|---------|------------------------|-------------|-----------------------|
| 64 61127064-Cut | 29.8 | 4130 - Aspen | High Density Pole | 44 | 111-140 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
|-----------------|------|--------------|-------------------|----|---------|---------|------------------------|-------------|-----------------------|

Prescription Specs: Survey looks to be needed. Final harvest all deciduous over 2" dbh to increase stem density post harvest. Save most or all conifer. OK to green tree leave some red maple as well for structural diversity and for visual management with road along and through stand. Leave a few retention posckets along drain to the north. Retention of ~3% aka on the light side for this stand as it is long and skinny. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments: Nice aspen stand. Some is pretty small yet but the majorety is good size. shoudl regenerate nicely to a similar species composition.

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------|------|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|
| 67 61127067-Cut | 16.5 | 4130 - Aspen | High Density Pole | 59 | 81-110 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
|-----------------|------|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|

Prescription Specs: nice aspen stand mixed with red maple. final harvest but save all pine. Save oak if any and all conifer which will account for some retention but ok to have retention slightly lower than the 3-10% as this are is small and will likely get heavily browsed. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments:

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 |
|-----------------|-------|--------------------------|-------------------|-----------|----------|----------------|------------------|-------------------------|-----------------------|
| 68 61127068-Cut | 11.8 | 42110 - Planted Red Pine | High Density Pole | 49 | 141-170 | Harvest | Crown Thinning | 4211 - Planted Red Pine | Cmpt. Review Proposal |

Prescription Thinned last YOE. could probably hold or could do a light thin. give a light thin this YOE taking poor form and smaller diameter stuff to overall improve growing stock in stand. Management of the pine stands here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Deciduous species should be encouraged within conifer plantations for diversity.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------|------|-----------------------------|-------------------|----|-------|---------|------------------------|-----------------------------|-----------------------|
| 72 61127072-Cut | 21.4 | 4136 - Aspen, Mixed Conifer | High Density Pole | 55 | 51-80 | Harvest | Clearcut with Reserves | 4136 - Aspen, Mixed Conifer | Cmpt. Review Proposal |
|-----------------|------|-----------------------------|-------------------|----|-------|---------|------------------------|-----------------------------|-----------------------|

Prescription North end is pretty nice, South end is smaller two stick and falling over quaking aspen :-/ Final harvest all deciduous over 2" DBH and all fir over 4" DBH. Cut all jack. West edge feathers down into Qtype. treat portion of Q type to west for age class diversity and habitat improvement. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------------|------|--|-------------------|----|---------|---------|-------------------------|--|-----------------------|
| 73 61127073-Cut_small | 15.6 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 85 | 111-140 | Harvest | Seed Tree with Reserves | 6128 - Lowland Coniferous, Mixed Deciduous | Cmpt. Review Proposal |
|-----------------------|------|--|-------------------|----|---------|---------|-------------------------|--|-----------------------|

Prescription West edge more T5/T6 over LO. Center section more cedar, spruce, tam, fir, birch. East edge (transition area) has some nice thick areas of mature black spruce along with birch, fir, maple etc. Treat approximately ~20-25% of stand via seed tree/shelterwood/ final harvest to promote age class and habitat diversity within the Q cover type. North end looks to have a 30 acre area that is maneageable. Green tree mark to leave clumps throughtout treatment area to help with windfirmness and seed dispersal. South end also has good maneagable ground on the east edge. Green tree clump here as well. OK to cut some scattered cedar that isnt providing good thermal cover but save as much of the cedar in thick clumps to mantain thermal cover. Save all trees 3"and under where possible. Lines will likely deffer a bit from inventory to timber sale boundary as its a highly variable stand in areas. Try to keep treatment area mostly out of thick cedar areas and try to focus on tamarack, fir and spruce.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-------------------------------|-----|--|-------------------|----|---------|---------|-------------------------|--|-----------------------|
| 73 61127073-Cut_small_1_small | 9.9 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 85 | 111-140 | Harvest | Seed Tree with Reserves | 6128 - Lowland Coniferous, Mixed Deciduous | Cmpt. Review Proposal |
|-------------------------------|-----|--|-------------------|----|---------|---------|-------------------------|--|-----------------------|

Prescription Treat approximately ~20-25% of stand via seed tree/shelterwood/ final harvest to promote age class and habitat diversity within the Q cover type. North end looks to have a 30 acre area that is maneageable. Green tree mark to leave clumps throughtout treatment area to help with windfirmness and seed dispersal. South end also has good maneagable ground on the east edge. Green tree clump here as well. OK to cut some scattered cedar that isnt providing good thermal cover but save as much of the cedar in thick clumps to mantain thermal cover. Save all trees 3"and under where possible. Lines will likely deffer a bit from inventory to timber sale boundary as its a highly variable stand in areas. Try to keep treatment area mostly out of thick cedar areas and try to focus on tamarack, fir and spruce.

Other Comments: West edge more T5/T6 over LO. Center section more cedar, spruce, tam, fir, birch. East edge (transition area) has some nice thick areas of mature black spruce along with birch, fir, maple etc.

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 |
|-----------------|-------|--------------------------|-------------------|-----------|----------|----------------|------------------|-------------------------|-----------------------|
| 76 61127076-Cut | 7.2 | 42110 - Planted Red Pine | High Density Pole | 54 | 141-170 | Harvest | Crown Thinning | 4211 - Planted Red Pine | Cmpt. Review Proposal |

Prescription just thinned last YOE but could use another light thin this YOE. Take out poor formed and small diameter stuff that wont respond if left anyways. Nice red pine for the most part. red maple understory may be tough to contend with in the future to keep in red pine :-/ Management of the pine stands here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Deciduous species should be encouraged within conifer plantations for diversity.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------|------|-------------------------------|-------------------|----|---------|---------|------------------------|-------------------------------|-----------------------|
| 81 61127081-Cut | 49.2 | 4139 - Aspen, Mixed Deciduous | High Density Pole | 55 | 111-140 | Harvest | Clearcut with Reserves | 4139 - Aspen, Mixed Deciduous | Cmpt. Review Proposal |
|-----------------|------|-------------------------------|-------------------|----|---------|---------|------------------------|-------------------------------|-----------------------|

Prescription Very nice stand fo rthe most part. some has started to blow over by the road. looks to have pretty high water table. shoudl regenerate very nicely to a similarmixed stand. final harvest all deciduous. Save all pine. save all fir under 4" dbh. make brush piles away from road for hare habitat. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------|-----|---------------------------|-------------------|----|--------|---------|------------------------|--|-----------------------|
| 82 61127082-Cut | 6.4 | 42120 - Planted Jack Pine | High Density Pole | 62 | 81-110 | Harvest | Clearcut with Reserves | 42221 - Natural Jack Pine, Mixed Deciduous | Cmpt. Review Proposal |
|-----------------|-----|---------------------------|-------------------|----|--------|---------|------------------------|--|-----------------------|

Prescription final harvest but save 3-10% retention @ sw end of stand to let if fall over and improve hare habitat close to the swamp complex. ~1/3 of jack pine is on ground or dead :-/

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2015

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|-----------------|-----|---------------------------|-------------------|----|--------|---------|-------------------------|--|-----------------------|
| 83 61127083-Cut | 5.2 | 6124 - Lowland Spruce-Fir | High Density Pole | 65 | 81-110 | Harvest | Seed Tree with Reserves | 6128 - Lowland Coniferous, Mixed Deciduous | Cmpt. Review Proposal |
|-----------------|-----|---------------------------|-------------------|----|--------|---------|-------------------------|--|-----------------------|

Prescription small Qtype stand. green tree leave approximately 10-30 BA. Seed tree harvest. leave brush piles for hare habitat. Dont cut any cedar. Use diameter spec to leave younger balsam for wildlife cover.

Other Comments:

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 |
|-----------------|-------|--------------|-------------------|-----------|----------|----------------|------------------------|-------------------------------|-----------------------|
| 86 61127086-Cut | 10.9 | 4130 - Aspen | High Density Pole | 55 | 51-80 | Harvest | Clearcut with Reserves | 4139 - Aspen, Mixed Deciduous | Cmpt. Review Proposal |

Prescription Most is in pretty rough shape. Quaking that is falling apart. Final harvest all deciduous over 2" DBH. save all balsam & Pine. Please include CWD
Specs: (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

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|-----------------|------|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|
| 87 61127087-Cut | 10.7 | 4130 - Aspen | High Density Pole | 51 | 81-110 | Harvest | Clearcut with Reserves | 413 - Aspen | Cmpt. Review Proposal |
|-----------------|------|--------------|-------------------|----|--------|---------|------------------------|-------------|-----------------------|

Prescription Sliver of red pien @ SE end of stand. thin this whiel here. dont drop down hill into sliver of Q type @ SE end of stand. Cut all red maple and aspen over 2" DBH and cut all fir over 4" DBH. LEave everythine else for visual, retention and species diversity. Please include CWD (drumming log spec) in sale. Leave tops unchipped as much as possible, especially in lowland stands and aspen adjacent to lowlands, 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. Leave younger balsam for wildlife cover.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

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|-----------------|------|--|-------------------|----|--------|---------|-------------------------|--|-----------------------|
| 90 61127090-Cut | 15.5 | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Pole | 65 | 81-110 | Harvest | Seed Tree with Reserves | 6117 - Lowland Deciduous, Mixed Coniferous | Cmpt. Review Proposal |
|-----------------|------|--|-------------------|----|--------|---------|-------------------------|--|-----------------------|

Prescription More deciduous mixed in throught this stand than the Q type to the north. Some younger aspen and maple present as well. Green tree clumps of
Specs: trees for seed, diversity and retention. Cut most deciduous to increase browse potential. Should regenerate nicely to a mix of aspen, maple and Q type. Save most cedar but ok to cut some of the scattered rought shape stuff that isnt providing thermal cover. Use diameter spec to leave younger balsam for wildlife cover.

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2015

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|-----------------|------|--------------|-------------------|----|---------|---------|------------------------|-----------------------------|-----------------------|
| 92 61127092-Cut | 37.7 | 4130 - Aspen | High Density Pole | 44 | 111-140 | Harvest | Clearcut with Reserves | 4136 - Aspen, Mixed Conifer | Cmpt. Review Proposal |
|-----------------|------|--------------|-------------------|----|---------|---------|------------------------|-----------------------------|-----------------------|

Prescription Most is very nice bigtooth aspen mixed with deciduous and fir and white pine. Far north east end has a acre pocket of red pine. mark this area down
Specs: to 90-120 BA. Save most or all white pine. cut all fir over 4" dbh. OK to green tree some red maple and birch for visual mgmt close to roads butnot in the road ROW. Survey likely needed. Save all oak if there is anyand probably save most sugar maple if present.

Other
Comments:

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 |
|-----------------|-------|---------------------------|-------------------|-----------|----------|----------------|------------------|-------------------------|-----------------------|
| 93 61127093-Cut | 46.3 | 42120 - Planted Jack Pine | High Density Pole | 62 | 51-80 | Harvest | Clearcut | 4211 - Planted Red Pine | Cmpt. Review Proposal |

Prescription ~1/3 of stand is dead :-/ final harvest via 2" spec and replant to red pine. Leave 3-10% retention pocket @ north end of stand in one or two pockets.
Specs: As per Rec Specialist Todd Neise Save as much of the understory brush along trail as possible and leave this unplanted to minimize trail exposure, OK to cut jack pine right up to trail to minimize blow over potential. Try to save wildlife shrubs throughout sale where possible.

Other
Comments:

Next mechanically or chemicaly treat site so we can get a well established red pine stand. trench and hand plant to red pine where cut. OK to plant Utype
Steps: and GO at south end with red pine but save the shrubs in this area.

Proposed
Start Date: 10/01/2015

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|-----------------|------|--|-------------------|----|--------|---------|----------|-------------------------|-----------------------|
| 95 61127095-Cut | 38.2 | 42121 - Planted Jack Pine, Mixed Deciduous | High Density Pole | 62 | 81-110 | Harvest | Clearcut | 4211 - Planted Red Pine | Cmpt. Review Proposal |
|-----------------|------|--|-------------------|----|--------|---------|----------|-------------------------|-----------------------|

Prescription 1/3 of stand is falling over. final harvest and replant to red pine. chip harvest. leave 3-10% retention pocket along edges to minimize influence on tree
Specs: planting operations.

Other
Comments:

Next mechanically or chemically treat site if needed and trench and plant to red pine.
Steps:

Proposed
Start Date: 10/01/2015

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|-----------------|------|--|-------------------|----|-------|---------|----------|-------------------------|-----------------------|
| 97 61127097-Cut | 33.8 | 42121 - Planted Jack Pine, Mixed Deciduous | High Density Pole | 62 | 51-80 | Harvest | Clearcut | 4211 - Planted Red Pine | Cmpt. Review Proposal |
|-----------------|------|--|-------------------|----|-------|---------|----------|-------------------------|-----------------------|

Prescription Final harvest and replant to red pine. chip harvest. Leave 3-10% retention pocket by Q type to the west so it will fall over and improve hare habitat
Specs: near lowland complex.

Other
Comments:

Next mechanically or chemically treat site if needed and trench and plant red pine.
Steps:

Proposed
Start Date: 10/01/2015

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|------------------|-----|--------------------------|-------------------|----|------|---------|---------------------|-------------------------|-----------------------|
| 103 61127103-Cut | 3.5 | 42110 - Planted Red Pine | High Density Pole | 53 | 200+ | Harvest | Systematic Thinning | 4211 - Planted Red Pine | Cmpt. Review Proposal |
|------------------|-----|--------------------------|-------------------|----|------|---------|---------------------|-------------------------|-----------------------|

Prescription Never been thinned red pine. try to take one row out and maybe all trees under 4" dbh in adjacent rows to minimize. Natural river influence. long term
Specs: goal to push out of plantation look and into a more natural lookign stand. Thin this YOE with the comparmtnetto the east (Comp 128 stand 105 & 99). Crane mats could likely be used to skid this wood to the east across drain area. Try not to cut any deciduous but some will need to be taken out of cut rows for access. Stay a few rows off the river edge for the thin. No decking or landing areas near water features. Management of the pine stands here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Deciduous species should be encouraged within conifer plantations for diversity.

Other OK to cut within natural river buffer as this is a red pine plantation. goal will be to eventually push to a more natural looking stand and then likely leave
Comments: for good.

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 |
|---|-------|---------------------------|--------------|-----------|----------|-----------------------|------------------|---------------------------|-----------------------|
| 3 NF_61127003-Burn | 19.6 | 310 - Herbaceous Openland | | | | Prescribed Burn | Unspecified | 310 - Herbaceous Openland | Cmpt. Review Proposal |
| <u>Prescription</u> See locked OFS Comments. Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients. | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | |
| <u>Other Comments:</u> | | | | | | | | | |
| <u>Next Steps:</u> Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2015 | | | | | | | | | |
| 94 NF_61127094-Burn | 40.4 | 330 - Low-Density Trees | | | | Prescribed Burn | Unspecified | 310 - Herbaceous Openland | Cmpt. Review Proposal |
| <u>Prescription</u> Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients. | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | |
| <u>Other Comments:</u> | | | | | | | | | |
| <u>Next Steps:</u> Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2015 | | | | | | | | | |
| 41 NF_61127041-NonFor | 36.7 | 330 - Low-Density Trees | | | | Non-Forest Management | Other - Specify | 31021 - Cool Season Grass | Cmpt. Review Proposal |
| <u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | |
| <u>Other Comments:</u> | | | | | | | | | |
| <u>Next Steps:</u> Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment. | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2015 | | | | | | | | | |
| 46 NF_61127046-NonFor | 3.6 | 330 - Low-Density Trees | | | | Non-Forest Management | Brush Cutting | 320 - Upland Shrub | Cmpt. Review Proposal |
| <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. | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | |
| <u>Other Comments:</u> | | | | | | | | | |
| <u>Next Steps:</u> | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2015 | | | | | | | | | |
| 69 NF_61127069-NonFor | 7.8 | 310 - Herbaceous Openland | | | | Non-Forest Management | Other - Specify | 31021 - Cool Season Grass | Cmpt. Review Proposal |
| <u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | |
| <u>Other Comments:</u> | | | | | | | | | |
| <u>Next Steps:</u> Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment. | | | | | | | | | |
| <u>Proposed Start Date:</u> 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 |
|-----------------------|-------|--------------|--------------|-----------|----------|-----------------------|------------------|---------------------------|-----------------------|
| 75 NF_61127075-NonFor | 4.3 | 3102 - Grass | | | | Non-Forest Management | Other - Specify | 31021 - Cool Season Grass | Cmpt. Review Proposal |

Prescription Specs: This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it.

Other Comments:

Next Steps: Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Proposed Start Date: 10/01/2015

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|-----------------------|------|------------------------------------|--|--|--|-----------------------|-----------------|---------------------------|-----------------------|
| 91 NF_61127091-NonFor | 61.1 | 3301 - Low Density Deciduous Trees | | | | Non-Forest Management | Other - Specify | 31021 - Cool Season Grass | Cmpt. Review Proposal |
|-----------------------|------|------------------------------------|--|--|--|-----------------------|-----------------|---------------------------|-----------------------|

Prescription Specs: The southern end of this opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it.

Other Comments:

Next Steps: Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment. Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients. 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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|----------------------|-----|---------------------------|--|--|--|-------|-------------|---------------------------|-----------------------|
| 52 NF_61127052-Other | 0.7 | 310 - Herbaceous Openland | | | | Other | Unspecified | 31021 - Cool Season Grass | Cmpt. Review Proposal |
|----------------------|-----|---------------------------|--|--|--|-------|-------------|---------------------------|-----------------------|

Prescription Specs: This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it.

Other Comments:

Next Steps: Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Proposed Start Date: 10/01/2015

Total Treatment Acreage Proposed: 864.5



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

#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

Kelly Standerfer : Examiner

Compartment 127

Year of Entry 2016

Availability for Management

| Total Acres | Acres | | Dominant Site Conditions | No | 5C | 3J | 2G |
|----------------|-----------|---------------|------------------------------------|-------|-----|----|-----|
| | Available | Not Available | | | | | |
| 1338 | 1338 | | Aspen | 1,310 | 28 | | |
| 52 | 52 | | Cedar | 52 | | | |
| 126 | 126 | | Jack Pine | 126 | | | |
| 21 | 4 | 17 | Lowland Aspen/Balsam Poplar | 4 | | | 17 |
| 247 | 231 | 16 | Lowland Conifers | 54 | 177 | 16 | |
| 204 | 104 | 100 | Lowland Deciduous | 104 | | 17 | 84 |
| 24 | 24 | | Lowland Mixed Forest | 24 | | | |
| 12 | 12 | | Lowland Spruce/Fir | 12 | | | |
| 5 | 5 | | Natural Mixed Pines | 5 | | | |
| 11 | 11 | | Planted Mixed Pines | 11 | | | |
| 49 | 49 | | Red Pine | 49 | | | |
| 4 | 4 | | Upland Conifers | 4 | | | |
| 3 | 3 | | White Pine | 3 | | | |
| 2,096 | 1,962 | 133 | Total Forested Acres | 1,758 | 205 | 33 | 101 |
| | 94% | 6% | 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 |
|---|---------------------------------|---|-------|---|----------------------|----------------------|----------------------|
| 003 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 177 | 2G: Too wet (sensitive soils, does not include access issues) | | | |
| Comments: some will likely be unmanageable. | | | | | | | |
| 004 | Not Available | 2G: Too wet (sensitive soils, does not include access issues) | 10 | | | | |
| Comments: | | | | | | | |

Report 5 – Site Conditions

Traverse City Mgt. Unit
 Kelly Standerfer : Examiner

Compartment 127
 Year of Entry 2016

| | | | | | |
|---|---------------|--|-----|--|--|
| 005 | Not Available | 2G: Too wet (sensitive soils, does not include access issues) | 8 | | |
| Comments: | | | | | |
| 006 | Not Available | 2G: Too wet (sensitive soils, does not include access issues) | 84 | | |
| Comments: | | | | | |
| 007 | Not Available | 2G: Too wet (sensitive soils, does not include access issues) | 326 | 4A: No merchantable products (see product standards) | |
| Comments: | | | | | |
| 008 | Not Available | 2G: Too wet (sensitive soils, does not include access issues) | 297 | 4A: No merchantable products (see product standards) | |
| Comments: | | | | | |
| 009 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 28 | | |
| Comments: | | | | | |
| 010 | Not Available | 3J: Water quality / BMPs (stream, river, or lake) | 17 | | |
| Comments: steep bluff down to stand that is down in natural river flood plain. Leave for natural river riparian corridor | | | | | |



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 |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

| | | | | |
|----------|--|--|--|--|
| Comments | | | | |
|----------|--|--|--|--|



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 | Archaeological Site | An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available. |
| SCA | Cold Water Lake | A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200. |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210. |
| SCA | Research and Military Areas | These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands. |
| SCA | Riparian Area | A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity. |
| HCVA | Designated Critical Habitat | Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat. |
| 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. |



| S t a n d | Traverse City Mgt. Unit | | Report 8 – Forested Stands | | | Compartment: 127 Year of Entry: 2016 |
|-----------------------|--|-------------------------|----------------------------|--------------|-------------|---|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 2 | 42140 - Planted Mixed Pine | High Density Log | 4.8 | 93 | 200+ | |
| 5 | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Pole | 8.4 | 65 | 81-110 | |
| 6 | 4130 - Aspen | High Density Pole | 71.0 | 45 | 111-140 | |
| 7 | 4130 - Aspen | High Density Pole | 13.8 | 38 | 81-110 | |
| 8 | 4133 - Aspen, Mixed Pine | High Density Pole | 13.3 | 55 | 111-140 | |
| 9 | 4130 - Aspen | High Density Sapling | 26.1 | 18 | | |
| 10 | 4139 - Aspen, Mixed Deciduous | High Density Sapling | 48.2 | 8 | | |
| 12 | 6115 - Lowland Ash | Low Density Pole | 5.7 | 55 | 1-50 | |
| 13 | 6122 - Black Spruce | High Density Pole | 1.6 | 65 | 81-110 | |
| 14 | 4130 - Aspen | High Density Sapling | 90.2 | 8 | | |
| 15 | 4130 - Aspen | High Density Pole | 4.4 | 43 | 51-80 | |
| 16 | 42110 - Planted Red Pine | High Density Pole | 6.6 | 60 | 111-140 | |
| 17 | 4130 - Aspen | High Density Pole | 125.9 | 38 | 81-110 | |
| 21 | 6122 - Black Spruce | High Density Pole | 1.4 | 65 | 81-110 | |
| 24 | 4130 - Aspen | High Density Pole | 5.2 | 70 | 111-140 | |
| 25 | 4134 - Aspen, Spruce/Fir | High Density Pole | 4.1 | 65 | 81-110 | |
| 27 | 4130 - Aspen | High Density Sapling | 18.6 | 23 | | |
| 28 | 42290 - Natural Mixed Pine | High Density Log | 5.3 | 103 | 200+ | |

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 127
Year of Entry: 2016

| Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|--|----------------------|-------|--------------|-------------|----------------------|
| 6112 - Lowland Aspen | Low Density Pole | 9.6 | 55 | 1-50 | |
| 6112 - Lowland Aspen | High Density Sapling | 3.6 | 14 | | |
| 429 - Mixed Upland Conifers | High Density Pole | 3.7 | 65 | 111-140 | |
| 6128 - Lowland Coniferous, Mixed Deciduous | Medium Density Pole | 23.3 | 75 | 51-80 | |
| 4130 - Aspen | High Density Pole | 137.3 | 55 | 81-110 | |
| 6117 - Lowland Deciduous, Mixed Coniferous | Low Density Pole | 18.7 | 65 | 1-50 | |
| 6117 - Lowland Deciduous, Mixed Coniferous | Medium Density Pole | 83.6 | 75 | 1-50 | |
| 4130 - Aspen | Medium Density Pole | 248.8 | 38 | 51-80 | |
| 6139 - Mixed Lowland Forest | Medium Density Pole | 24.0 | 55 | 51-80 | |
| 6122 - Black Spruce | Medium Density Pole | 8.7 | 75 | 51-80 | |
| 42130 - Planted Scotch Pine | High Density Pole | 6.5 | 49 | 81-110 | |
| 42200 - Natural White Pine | Medium Density Pole | 2.9 | 45 | 1-50 | |
| 4133 - Aspen, Mixed Pine | High Density Pole | 2.7 | 51 | 81-110 | |
| 4130 - Aspen | High Density Pole | 8.1 | 64 | 81-110 | |
| 4130 - Aspen | Medium Density Pole | 17.6 | 38 | 1-50 | |
| 6115 - Lowland Ash | Low Density Pole | 11.7 | 65 | 1-50 | |
| 6112 - Lowland Aspen | Medium Density Pole | 7.6 | 55 | 1-50 | |
| 6120 - Lowland Cedar | High Density Pole | 52.0 | 95 | 81-110 | |

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 127
Year of Entry: 2016

| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------------|-------|--------------|-------------|----------------------|
| 61 | 4130 - Aspen | High Density Pole | 33.0 | 28 | 51-80 | |
| 62 | 4130 - Aspen | High Density Pole | 52.8 | 38 | 81-110 | |
| 63 | 6119 - Mixed Lowland Deciduous Forest | Low Density Pole | 4.8 | 65 | 1-50 | |
| 64 | 4130 - Aspen | High Density Pole | 29.8 | 44 | 111-140 | |
| 67 | 4130 - Aspen | High Density Pole | 16.5 | 59 | 81-110 | |
| 68 | 42110 - Planted Red Pine | High Density Pole | 11.8 | 49 | 141-170 | |
| 70 | 4139 - Aspen, Mixed Deciduous | High Density Sapling | 47.7 | 9 | | |
| 71 | 6113 - Lowland Maple | High Density Pole | 14.0 | 75 | 81-110 | |
| 72 | 4136 - Aspen, Mixed Conifer | High Density Pole | 21.4 | 55 | 51-80 | |
| 73 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 202.4 | 85 | 111-140 | |
| 76 | 42110 - Planted Red Pine | High Density Pole | 7.2 | 54 | 141-170 | |
| 78 | 4130 - Aspen | High Density Sapling | 48.2 | 26 | | |
| 80 | 4130 - Aspen | High Density Pole | 33.7 | 29 | 1-50 | |
| 81 | 4139 - Aspen, Mixed Deciduous | High Density Pole | 49.2 | 55 | 111-140 | |
| 82 | 42120 - Planted Jack Pine | High Density Pole | 6.4 | 62 | 81-110 | |
| 83 | 6124 - Lowland Spruce- Fir | High Density Pole | 5.2 | 65 | 81-110 | |
| 84 | 4139 - Aspen, Mixed Deciduous | High Density Sapling | 29.1 | 8 | | |
| 85 | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Pole | 25.3 | 70 | 51-80 | |

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 127
Year of Entry: 2016

| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-----|--|-------------------------|-------|--------------|-------------|----------------------|
| 86 | 4130 - Aspen | High Density Pole | 10.9 | 55 | 51-80 | |
| 87 | 4130 - Aspen | High Density Pole | 10.7 | 51 | 81-110 | |
| 88 | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Log | 16.6 | 80 | 111-140 | |
| 89 | 4130 - Aspen | High Density Sapling | 42.3 | 16 | | |
| 90 | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Pole | 15.5 | 65 | 81-110 | |
| 92 | 4130 - Aspen | High Density Pole | 68.5 | 44 | 111-140 | |
| 93 | 42120 - Planted Jack Pine | High Density Pole | 47.8 | 62 | 51-80 | |
| 95 | 42121 - Planted Jack Pine, Mixed Deciduous | High Density Pole | 38.2 | 62 | 81-110 | |
| 96 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 16.0 | 85 | 111-140 | |
| 97 | 42121 - Planted Jack Pine, Mixed Deciduous | High Density Pole | 33.8 | 62 | 51-80 | |
| 99 | 42110 - Planted Red Pine | High Density Pole | 19.6 | 48 | 111-140 | |
| 100 | 4130 - Aspen | High Density Pole | 5.5 | 42 | 81-110 | |
| 102 | 4130 - Aspen | High Density Pole | 3.5 | 42 | 81-110 | |
| 103 | 42110 - Planted Red Pine | High Density Pole | 3.5 | 53 | 200+ | |



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|---------------------------|-------|--------------|---------------------------------|--|
| 1 | 622 - Lowland Shrub | 2.1 | No | Unspecified | |
| 3 | 310 - Herbaceous Openland | 19.6 | Yes | High | |
| 4 | 622 - Lowland Shrub | 8.5 | Unspecified | Unspecified | |
| 11 | 622 - Lowland Shrub | 1.5 | No | Unspecified | wet VO/LO |
| 18 | 50 - Water | 15.0 | No | Unspecified | Some LO/VO most looks to be water. |
| 19 | 330 - Low-Density Trees | 62.5 | No | Unspecified | Some low density tree areas. Most is a mix of VO, LO, E4. unmanageable. |
| 20 | 622 - Lowland Shrub | 4.2 | No | Unspecified | |
| 22 | 622 - Lowland Shrub | 297.4 | No | Unspecified | Mixed LO, VO & ZO |
| 23 | 623 - Emergent Wetland | 2.2 | No | Unspecified | |
| 26 | 622 - Lowland Shrub | 5.8 | No | Unspecified | some aspen feathered into stand in areas. Wet tag for the most part. |
| 31 | 330 - Low-Density Trees | 1.8 | No | Unspecified | bracken/grass opening fillin in with cherry and pine. |
| 33 | 623 - Emergent Wetland | 32.1 | No | Unspecified | north fingers have some aspen mixed in as well. WET with tag understory and low density, likely unmanageable. Most is LO or VO. |
| 36 | 623 - Emergent Wetland | 10.2 | No | Unspecified | LO/VO |
| 38 | 622 - Lowland Shrub | 2.7 | No | Unspecified | mainly Lowland brush. some trees filling in |
| 40 | 622 - Lowland Shrub | 1.1 | Unspecified | Unspecified | small vernal pond/ LO area |
| 41 | 330 - Low-Density Trees | 36.7 | Yes | Medium | previously maintained wildlife opening. burn of mechanically treat encroaching woody stems to maintain as opening. OK to chip everythign in this opening if a chip crew gets the adjacent aspen stand, |



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|------------------------------------|-------|--------------|---------------------------------|--|
| 44 | 623 - Emergent Wetland | 2.0 | No | Unspecified | looks like there may be some ORV damage to area. VO filling in with some trees on edges. |
| 45 | 622 - Lowland Shrub | 20.7 | No | Unspecified | Most LO. Some is timbered drain areas but unmanageable due to set back from river and creeks. |
| 46 | 330 - Low-Density Trees | 3.6 | No | Unspecified | fingery grassy opening with some jack and other trees filling in. |
| 50 | 623 - Emergent Wetland | 13.0 | No | Unspecified | most is VO. Some filling in with trees. |
| 51 | 623 - Emergent Wetland | 326.3 | No | Unspecified | |
| 52 | 310 - Herbaceous Openland | 0.7 | No | Unspecified | small grass opening. |
| 56 | 330 - Low-Density Trees | 2.0 | No | Unspecified | grassy opening filling in with trees. |
| 57 | 622 - Lowland Shrub | 4.6 | No | Unspecified | |
| 65 | 310 - Herbaceous Openland | 9.6 | No | Unspecified | grass opening filling in with trees. OK to cut out trees to keep as an opening |
| 66 | 330 - Low-Density Trees | 8.4 | No | Unspecified | |
| 69 | 310 - Herbaceous Openland | 7.8 | Yes | Medium | wildlife managed and planted opening, continue to maintain. |
| 74 | 330 - Low-Density Trees | 1.8 | No | Unspecified | |
| 75 | 3102 - Grass | 4.3 | Yes | Medium | wildlife maintained opening. |
| 77 | 330 - Low-Density Trees | 2.6 | No | Unspecified | some low density trees but most is leatherleaf bogish |
| 79 | 623 - Emergent Wetland | 8.4 | No | Unspecified | |
| 91 | 3301 - Low Density Deciduous Trees | 61.1 | Yes | Medium | Open area filling in with cherry, maple, fir and jack. maintain upper 1/3 of stand as open area via mechanical treatment or Rx burn. South 2/3 replant back to red pine with adjacent Jack pine final harvest areas. |
| 94 | 330 - Low-Density Trees | 40.4 | Yes | High | Grass opening slowly filling in with trees. Wildlife will likely want to Rx burn to maintain grass type. |



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|---------------------------|-------|--------------|---------------------------------|---|
| 98 | 310 - Herbaceous Openland | 4.2 | No | Unspecified | open area with road through it. south east end has small VO inclusion. Dont plant across road but OK to plant right up to it. |
| 101 | 623 - Emergent Wetland | 0.6 | No | Unspecified | VO |