

Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 105 Entry Year 2015 Acreage: 3,541

County Schoolcraft

Management Area: Danaher Kingston Outwash

Revision Date: 04/09/2013 Stand Examiner: Josh Wall

Legal Description:

T47N, R13W, sections 2, 3, 10, 11, 13 – 15.

Identified Planning Goals:

Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

Soil and topography:

Rubicon sands are found in the level pine plains, and AuTrain Loamy Sand where the hardwoods are growing.

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

The property North, west and east of the compartment is owned by the Forestland Group. There are several homes to the northwest. State owned land borders the compartment to the south.

Unique Natural Features:

Potential for sharp-tail grouse since they have been documented in the open lands in compartment 107 to the south. Checked database 4/19/13

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Clear Creek is a designated Natural River as part of the Fox River system from its beginnings as a perennial stream in section 15 to its confluence with the East Branch of the Fox.

Watershed and Fisheries Considerations:

Fisheries Values: Excellent

Fisheries Concerns: This compartment contains Clear Creek a designated trout stream and tributary of the East Branch Fox River. Clear Creek has a native brook trout population and serves as nursery areas for young of year brook trout. A buffer of 300 feet should be maintained in areas were any treatments are prescribed.

Wildlife Habitat Considerations:

This compartment is located in the east of Lavender Corners in the Grand Marais Sandy End Moraine and Outwash Subsubsection. Pre-settlement vegetation in this area was dominated by a mix of hemlock, white pine, beech, yellow birch, red maple, and sugar maple. The first surveyors also noted a large component of mountain ash in the understory.

Current vegetation patterns are substantially different than those found circa 1850. Red pine plantations and grass openings now are the dominant feature on the landscape. Aspen has also increase in this landscape.

Wildlife habitat objectives in this compartment include allowing some of the northern most openings to succeed into a natural forest composition, reestablishing the mountain ash component, maintaining the aspen component, and promoting the large opening complexes.

Wildlife species of special interest utilizing this compartment include marsh hawk, upland sandpiper, and sharp-tailed grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These are used for stone/dolomite. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

There are numerous two track roads throughout the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Danaher Plains ORV Trail loops throughout the compartment while snowmobile trail #443 traverses north to south through the compartment. As standard practice, keep the trails clear of logging slash and debris. If ORV confidence marker trees are cut, try to cut above them above the markers. Winter logging shouldn't be an issue in this compartment, so there shouldn't be any grooming season conflicts.

Fire Protection:

This compartment is within the Fox River Zone Dispatch Area.

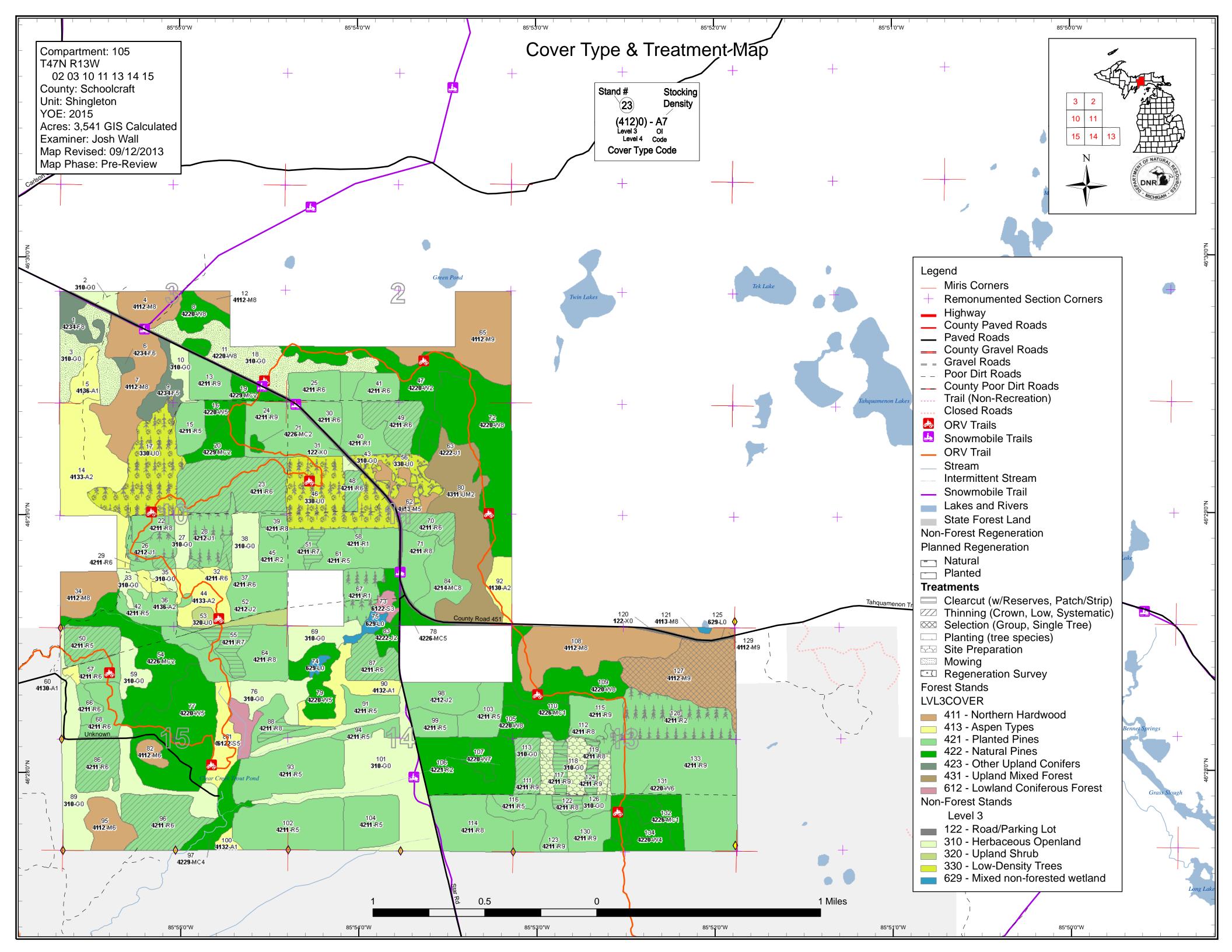
Additional Compartment Information:

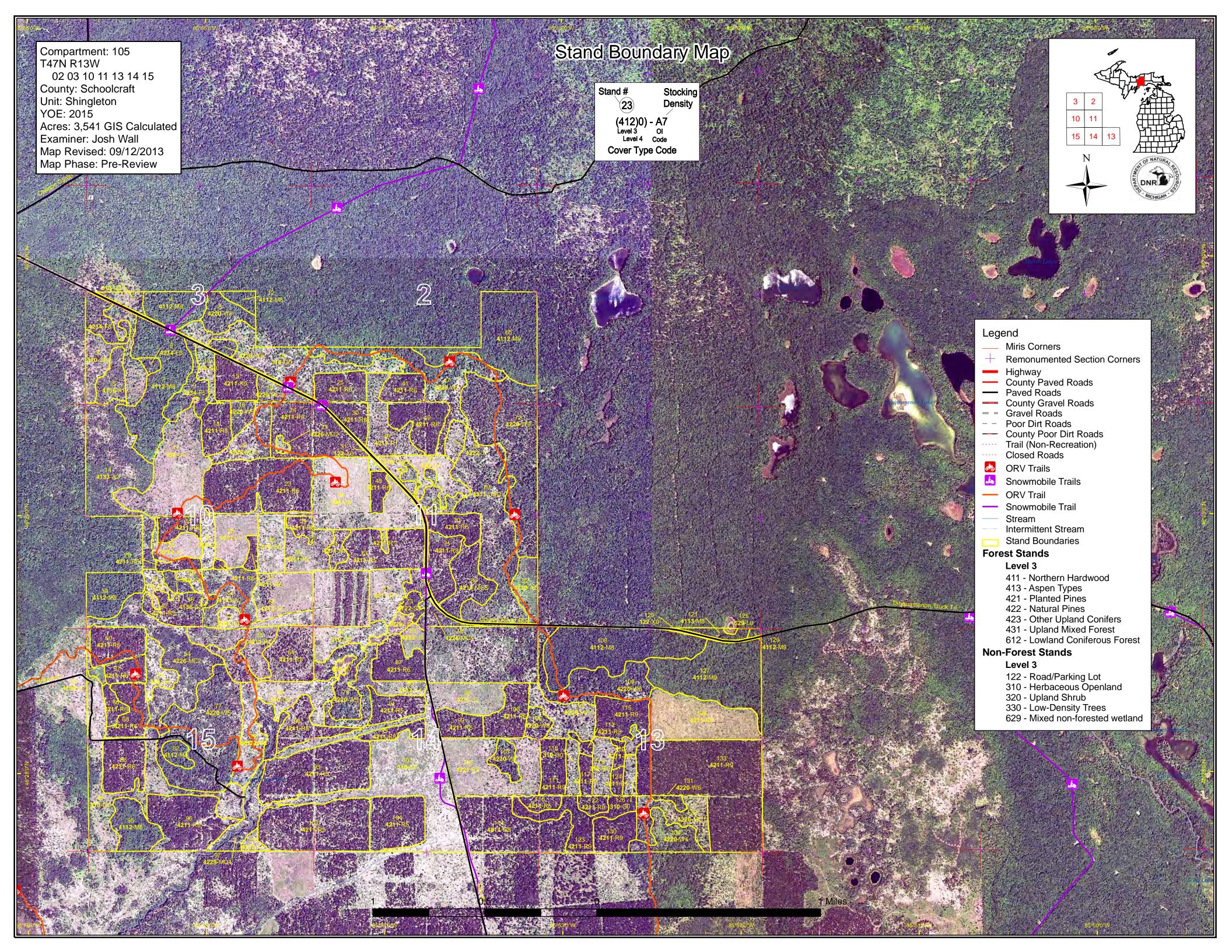
The following reports from the Inventory are attached:

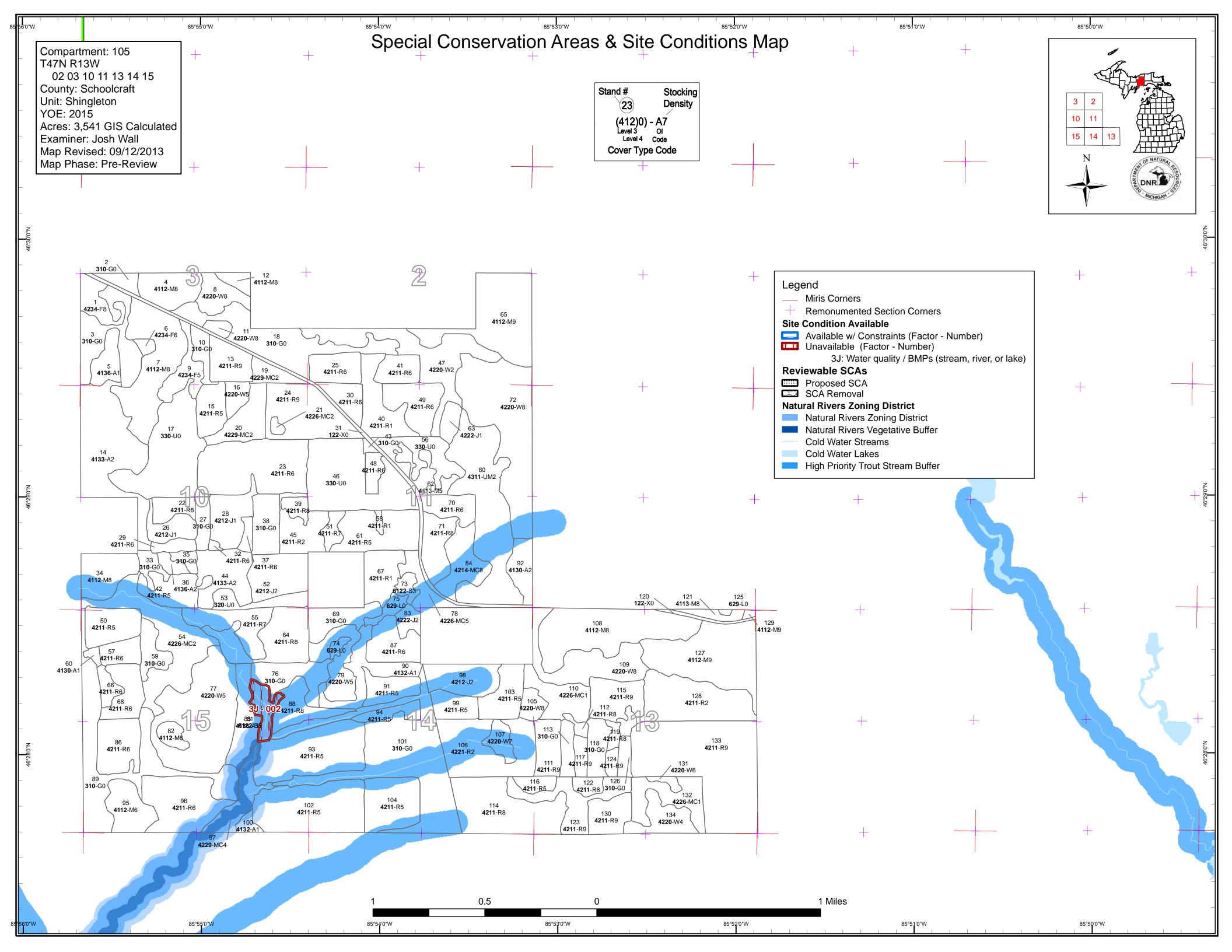
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

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









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Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

Compartment 105 Year of Entry 2015

Shingleton Mgt. Unit Josh Wall : Examiner



Age Class 11.00 M 700,709 70,79 10,0 % % ⁶0, 20.25 70°× Aspen Herbaceous Openland Jack Pine **Low-Density Trees** Lowland Shrub Lowland Spruce/Fir Natural Mixed Pines Northern Hardwood Planted Mixed Pines Red Pine Upland Mixed Forest Upland Shrub Upland Spruce/Fir Urban White Pine

Total

Compartment 105 Year of Entry 2015

Shingleton Mgt. Unit Josh Wall : Examiner



Age Class 11.00 M 700,709 70,79 10,0 % % ⁶0, 20.25 70°× Aspen Herbaceous Openland Jack Pine **Low-Density Trees** Lowland Shrub Lowland Spruce/Fir Natural Mixed Pines Northern Hardwood Planted Mixed Pines Red Pine Upland Mixed Forest Upland Shrub Upland Spruce/Fir Urban White Pine

Total



Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit Year of Entry 2015

Compartment 105
Total Compartment Acres: 3,541

Acres by Treatment Type

Commercial Harvest - 407

Northern Hardwood

Planted Pines

Tree Planting - 269

Other - 31

0

Habitat Cut - 0

Opening Maintenance - 97

Total

55

75

277

0

0

407

Compartment: 105 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n Method Objective d Name **Density** Age Range Type **Status** 42110 - Planted 4211 72.0 High 141-170 Harvest Crown Thinning - Planted Red Cmpt. Review 23 41105023-Cut 46 Red Pine Density Pine Proposal Pole Prescription Treatment- Mark stand to a residual BA of 100, remove double top trees while opening up rows for access. Avoid promoting any additional Red Maple. Sign and protect trail during harvest. Specs: Long trem MO- Red Pine sawlogs Retention- Residual BA MNFI/Archy Database checked 5/31/13 No Hits <u>Other</u> Comments: <u>Next</u> Steps: **Proposed** Start Date: 10/01/2014 29 41105029-Cut 3.4 42110 - Planted High 171-200 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Pine Density Thinning Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Sign and protect trail during harvest. Long trem MO- Red Pine sawlogs Specs: Retention- Residual BA MNFI/Archy Database checked 5/31/13 No Hits Other Comments: <u>Next</u> Steps: **Proposed** 10/01/2014 Start Date: 41105032-Cut 42110 - Planted 171-200 Harvest Systematic 4211 - Planted Red Cmpt. Review 32 High Thinning Red Pine Density Pine Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Long trem MO- Red Pine sawlogs Specs: Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits Other Comments: **Next** Steps: **Proposed** Start Date: 10/01/2014 41105037-Cut 4.7 42110 - Planted 171-200 Systematic 4211 - Planted Red Cmpt. Review High Harvest Red Pine Density Thinning Pine Proposal Pole

10/01/2014

Specs:

Other
Comments:
Next
Steps:
Proposed
Start Date:

Prescription Treatment- Mark first row thinning, walk through areas with low BA's.

MNFI/Archy Database checked 5/31/13 No Hits

Long trem MO- Red Pine sawlogs

Retention- Residual BA

Compartment: 105 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n **Density** Method Objective d Name Age Range Type **Status** 42110 - Planted 4211 - Planted Red Cmpt. Review 41105048-Cut 8.2 High 42 171-200 Harvest Systematic 48 Red Pine Density **Thinning** Pine Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Long trem MO- Red Pine sawlogs Specs: Retention- Residual BA MNFI/Archy Database checked 5/31/13 No Hits Other Comments: Next Steps: Proposed 10/01/2014 Start Date: 42110 - Planted 49 41105049-Cut 27.5 High 46 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Density Thinning Pine Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Long trem MO- Red Pine sawlogs Specs: Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits <u>Other</u> Comments: **Next** Steps: **Proposed** 10/01/2014 Start Date: 42110 - Planted 50 41105050-Cut 24.4 Medium 42 141-170 Crown Thinning 4211 - Planted Red Cmpt. Review Harvest Red Pine Density . Proposal Pole Prescription Treatment- Thin stand to a residual BA of 100 while concentrating on crown spacing and marking a few rows for access. Sign and protect trail during harvest. Specs: Long trem MO- Red Pine sawlogs Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits Other Comments: **Next** Steps: **Proposed** Start Date: 10/01/2014 41105051-Cut 7.2 42110 - Planted 1-50 Harvest Clearcut 4211 - Planted Red Cmpt. Review Low 42 Red Pine Density Log Pine Proposal Prescription Treatment- Clear-cut overstory to release the planted understory. Long trem MO- Red Pine sawlogs Specs: Retention-Small island MNFI/Archy Database checked 5/31/13 No Hits <u>Other</u> Comments: **Next**

10/01/2014

Steps: Proposed

Start Date:

Compartment: 105 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type** Approval n Method Objective d Name **Density** Age Range Type **Status** 42110 - Planted 1-50 - Planted Red Cmpt. Review 41105055-Cut 17.6 Low 42 Harvest Clearcut 4211 55 Red Pine Density Log Pine Proposal Prescription Treatment- Clear-cut overstory to release the planted understory. Trout stream buffer accounted for in prescription. Sign and protect trail during harvest. Specs: Long trem MO- Red Pine sawlogs Retention- Small island along the trail MNFI/Archy Database checked 5/31/13 No Hits Buffer Other Part of stand within static SCA High Priority Trout Stream Comments: Next Steps: Proposed Start Date: 10/01/2014 70 41105070-Cut 16.2 42110 - Planted High 42 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Density Thinning Pine Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Long trem MO- Red Pine sawlogs Specs: Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits Other Comments: **Next** Steps: Proposed Start Date: 10/01/2014 42110 - Planted 4211 - Planted Red 86 41105086-Cut 29.0 High 42 141-170 Harvest Systematic Cmpt. Review Red Pine Density Thinning Pine Proposal Pole Prescription Treatment- Mark stand to a residual BA of 100, remove double top trees while opening up rows for access. Long trem MO- Red Pine sawlogs Specs: Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits <u>Next</u> Steps:

<u>Other</u> Comments:

Proposed

Start Date: 10/01/2014

87 41105087-Cut 23.9 42110 - Planted High 42 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Density Thinning Pine Proposal Pole

Prescription Treatment- Mark stand to a residual BA of 100, remove double top trees while opening up rows for access.

Long trem MO- Red Pine sawlogs Specs:

Retention-Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

<u>Other</u> Comments:

<u>Next</u> Steps:

Proposed

10/01/2014 Start Date:

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 105 Year of Entry 2015

Pine

Thinning

DEPARTME	DNR MICHIGAN
	MICHIGAN

Proposal

t а **Treatment** BA **Treatment Treatment Cover Type** Acres CoverType Size Stand Approval n Method d Name **Density** Age Range Type Objective Status 42110 - Planted Cmpt. Review Medium 81-110 Harvest Clearcut 4211 - Planted Red 88 41105088-Cut 5.8 42 Density Log Red Pine Pine Proposal

Prescription Treatment- Clear-cut stand due to low BA and open grown trees. Replant to Red Pine to get a full stocked stand. Trout stream buffer accounted

for in prescription. Specs:

Long trem MO- Jack Pine sawlogs

Retention-Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

Other Part of stand within static SCA High Priority Trout Stream Buffer

Comments:

Site prep and plant to Red Pine. Next

Steps:

s

Proposed

Start Date: 10/01/2014

96 41105096-Cut 48.1 42110 - Planted High 42 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review

Pole

Red Pine

Prescription Treatment- Mark first entry row thinning, walk through areas with low BA's. Prescription acerage not adjusted for trout stream buffer due to it

Specs: being a thinning. 100 ft no cut buffer along trout stream.

Long trem MO- Red Pine sawlogs

Retention-Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

Part of stand within static SCA High Priority Trout Stream Buffer <u>Other</u>

Comments:

Next Steps:

Proposed Start Date: 10/01/2014

41105111-Cut 18.3 42110 - Planted Hiah 42 141-170 Harvest Crown Thinning 4211 - Planted Red Cmpt. Review Pine Proposal

Red Pine **Density Log**

Prescription Treatment- Mark stand to a residual BA of 100, remove double top trees while opening up rows for access.

Density

Specs: Long trem MO- Red Pine sawlogs

Retention-Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

112 41105112-Cut 3.3 42110 - Planted Medium 46 81-110 Harvest Clearcut 4211 - Planted Red Cmpt. Review Pine Proposal

Red Pine **Density Log**

Prescription Treatment- Clear-cut stand due to low BA's and open grown trees. Plant to Red Pine along with adjacent stands.

Long trem MO- Red Pine sawlogs Specs:

Retention- No retention to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other_ Comments:

Site prep and plant to Red Pine. Next

Steps:

Proposed

10/01/2014 Start Date:

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 105
Year of Entry 2015

DEPARTME	DNR MICHIGAN
	MICHIGAN

a n d	Treatment Name	Acres	CoverType Size Densit		Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
117	41105117-Cut	6.8	42110 - Planted Red Pine	High Density Log	39 J	81-110	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Treatment- Clear-cut stand to incorporate with stands 113,118,1112,117,119,126,122. Plant to Red Pine along with adjacent stands.

Specs: Long trem MO- Red Pine sawlogs

Retention- Only a few green treed Red Pine to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Trench and plant to Red Pine.

Next Steps:

Proposed

Start Date: 10/01/2014

119 41105119-Cut 3.8 42110 - Planted Medium 46 81-110 Harvest Clearcut 4211 - Planted Red Cmpt. Review Red Pine Density Log Pine Proposal

Prescription Treatment- Clear-cut stand due to low BA's and open grown trees. Plant to Red Pine along with adjacent stands.

Specs: Long trem MO- Red Pine sawlogs

Retention- No retention to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Site prep and plant to Red Pine

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

12241105122-Cut6.642110 - PlantedMedium4681-110HarvestClearcut4211 - Planted Red Cmpt. ReviewRed PineDensity LogPineProposal

Prescription Treatment- Clear-cut stand due to low BA's and open grown trees. Plant to Red Pine along with adjacent stands.

Specs: Long trem MO- Red Pine sawlogs

Retention- No retention to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Site prep and plant to Red Pine

Steps:

Proposed

Start Date: 10/01/2014

12441105124-Cut4.142110 - PlantedHigh3981-110HarvestClearcut with4211 - Planted RedCmpt. ReviewRed PineDensity LogReservesPineProposal

<u>Prescription</u> Treatment- Clear-cut stand to incorporate with stands 113,118,1112,117,119,126,122. Plant to Red Pine along with adjacent stands.

Specs: Long trem MO- Red Pine sawlogs

Retention- Only a few green treed Red Pine to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Trench and plant to Red Pine.

Steps: Proposed

Start Date: 10/01/2014

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 105 Year of Entry 2015

Red Pine

DEPARTMENT	ONR MICHIGAN
\	MICHIGAN

t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** n Method Objective **Status** Name **Density** Age Range Type Cmpt. Review 41105127-Cut 74.6 4112 - Maple, High 73 111-140 Single Tree 411 - Northern 127 Harvest Beech, Cherry Density Log Selection Hardwood Proposal Association

<u>Prescription</u> Treatment- Thin stand to 60-70 BA on average while creating more/larger regen gaps and releasing exsisting advanced regen. Place some gaps

Specs: near Hemlock and White Pine to promote more diversity.

Long trem MO- Maple sawlogs, increase diversity

Retention- Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Oak will be planted in gaps to promote diversity post harvest.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

113 NF_41105113- 9.7 3102 - Grass Site Prep Trenching 42110 - Planted Cmpt. Review Prep Red Pine Proposal

Prescription Trench and plant to Red Pine after stands 112,119, and 122 are cut.

Specs: MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Follow up with regen checks

Steps:

Proposed

Start Date: 10/01/2014

118NF_41105118-
Prep14.73102 - GrassSite PrepScarification42110 - PlantedCmpt. Review
Red PinePrepRed PineProposal

Prescription Trench and plant to Red Pine after stands 112,119, and 122 are cut.

Specs: MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Follow up with regene surveys

Steps:

Proposed Start Date: 10/01/2014

126 NF_41105126- 6.7 3102 - Grass Site Prep Scarification 42110 - Planted Cmpt. Review

Prep

Prescription Trench and plant to Red Pine after stands 112, 119, and 122 are cut.

Specs: MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next follow up with regen checks

Steps:

Proposed

Start Date: 10/01/2014

Proposal

Compartment: 105 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n Method Objective d Name **Density** Age Range Type **Status** 42121 - Planted Hand Plant 41105026-14.8 Low 4 Tree Planting 4212 - Planted Jack Cmpt. Review 26 **Plant** Jack Pine, Mixed Density Pine Proposal Deciduous Sapling Prescription Currently sitting at 233 jp/ac and 115 aspen/ac. Replant with Jack Pine to get the stand to get stocking up to 800 trees/ac spring 2014 Want to delete old FTP 41-1246 and create one for the whole compartment Specs: MNFI/Archy Database checked 5/31/13 No Hits Other Comments: Regen survey to follow planting. <u>Next</u> Steps: Proposed Start Date: 10/31/2013 41105028-25.5 42121 - Planted 4 Tree Planting Hand Plant 4212 - Planted Jack Cmpt. Review 28 Low **Plant** Jack Pine, Mixed Density Pine Proposal Deciduous Sapling Prescription Currently sitting at 242 jp/ac and 114 aspen/ac. Replant with Jack Pine to bring the stocking up to 800 trees/ac spring 2014. Want to delete old FTP 41-1246 and create one for the whole compartment Specs: MNFI/Archy Database checked 5/31/13 No Hits Other Comments: Regen survey to follow Next Steps: Proposed 10/31/2013 Start Date: 41105067-23.0 42110 - Planted 4 Hand Plant 4211 - Planted Red 67 Tree Planting Cmpt. Review Iow **Plant** Red Pine Density Pine Proposal Sapling Prescription Re-Plant to Red Pine currently sitting at 175 red pine/ac 75 jack pine/ac and 100 aspen/ac. Re-plant to increase the stocking to 800 red pine/ac. Delete old FTP 41-1374 and create one for the whole compartment. Specs: MNFI/Archy Database checked 5/31/13 No Hits Other_ Comments: <u>Next</u> Regen check

Steps:

Proposed

Start Date: 10/31/2013

128 41105128-60.2 42110 - Planted Medium 4 Tree Planting Hand Plant 4211 - Planted Red Cmpt. Review Red Pine Density Pine Proposal **Plant**

Sapling

Prescription Stand currently sitting at 305 red pine/ac and 11 white pine/ac. Replant stand with Red Pine to obtain 800 trees/ac.

MNFI/Archy Database checked 5/31/13 No Hits Specs:

Stand was aerial sprayed to reduce cherry competition. Other_

Comments:

Next Regen check

Steps:

Proposed

10/31/2013 Start Date:

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 105 Year of Entry 2015

а **Treatment** n Name

s t

> Acres CoverType

Size **Density** Age

BA Range **Treatment** Type

Treatment Method

Cover Type Objective

Approval Status

NF_41105017-17 **Plant**

71.9 3302 - Low Density Conifer Trees

Tree Planting

Hand Plant

4211 - Planted Red Pine

Cmpt. Review Proposal

Prescription Treatment- Re-plant stand with Red Pine to improve stocking levels. Currently sitting at 252 Red Pine/ac and 105 Aspen/ac.

Specs:

Long term MO- Red Pine sawlogs

Want to delete old FTP 41-1374 and 41-1371 and create one for whole compartment

MNFI/Archy Database checked 5/31/13 No Hits

<u>Other</u>

Comments:

Regen checks following re-plant.

Next Steps:

46

Proposed

Start Date: 10/31/2013

> NF_41105046-73.2 3302 - Low Density

Tree Planting

Hand Plant

4211 - Planted Red

Cmpt. Review

Plant

Conifer Trees

Pine Proposal

Prescription Treatment- Re-plant stand with Red Pine to improve stocking levels. Currently sitting at 322 Red Pine/ac and 55 Aspen/ac.

Specs:

Long term MO- Red Pine sawlogs

Want to delete old FTP 41-1371 and 41-1374 and create one for whole compartment

MNFI/Archy Database checked 5/31/13 No Hits

Other

Comments:

Regen checks following re-plant

<u>Next</u> Steps:

Proposed

Start Date: 10/31/2013

> NF_41105003-310 - Herbaceous 37.4 Openland NonFor

Non-Forest Management Mowing 3102 - Grass Cmpt. Review . Proposal

Prescription Wildlife Opening maintance

Specs:

Other Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

NF 41105018-NonFor

60.0 310 - Herbaceous Openland

Non-Forest Management Mowing

3102 - Grass

Cmpt. Review Proposal

Prescription Opening maintance

Specs:

Other Comments:

Next

Steps: Proposed

Start Date: 10/01/2014

Total Treatment

Acreage Proposed:

804.2

Shingleton Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 105 a Limiting Factor s Year of Entry 2015 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Method Objective Status Name Density Age Range Type #Type! #Type! **Prescription** Specs: Other Comment: **Next** Steps: <u>Proposed</u> #Type! Start Date:

Total Treatment

Limiting Factor

Acreage Proposed: 0.0



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 105 Entry Year 2015 Acreage: 3,541

County Schoolcraft

Management Area: Danaher Kingston Outwash

Revision Date: 04/09/2013 Stand Examiner: Josh Wall

Legal Description:

T47N, R13W, sections 2, 3, 10, 11, 13 – 15.

Identified Planning Goals:

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Soil and topography:

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

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Unique Natural Features:

Potential for sharp-tail grouse since they have been documented in the open lands in compartment 107 to the south. Checked database 4/19/13

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Clear Creek is a designated Natural River as part of the Fox River system from its beginnings as a perennial stream in section 15 to its confluence with the East Branch of the Fox.

Watershed and Fisheries Considerations:

Fisheries Values: Excellent

Fisheries Concerns: This compartment contains Clear Creek a designated trout stream and tributary of the East Branch Fox River. Clear Creek has a native brook trout population and serves as nursery areas for young of year brook trout. A buffer of 300 feet should be maintained in areas were any treatments are prescribed.

Wildlife Habitat Considerations:

This compartment is located in the east of Lavender Corners in the Grand Marais Sandy End Moraine and Outwash Subsubsection. Pre-settlement vegetation in this area was dominated by a mix of hemlock, white pine, beech, yellow birch, red maple, and sugar maple. The first surveyors also noted a large component of mountain ash in the understory.

Current vegetation patterns are substantially different than those found circa 1850. Red pine plantations and grass openings now are the dominant feature on the landscape. Aspen has also increase in this landscape.

Wildlife habitat objectives in this compartment include allowing some of the northern most openings to succeed into a natural forest composition, reestablishing the mountain ash component, maintaining the aspen component, and promoting the large opening complexes.

Wildlife species of special interest utilizing this compartment include marsh hawk, upland sandpiper, and sharp-tailed grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These are used for stone/dolomite. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

There are numerous two track roads throughout the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Danaher Plains ORV Trail loops throughout the compartment while snowmobile trail #443 traverses north to south through the compartment. As standard practice, keep the trails clear of logging slash and debris. If ORV confidence marker trees are cut, try to cut above them above the markers. Winter logging shouldn't be an issue in this compartment, so there shouldn't be any grooming season conflicts.

Fire Protection:

This compartment is within the Fox River Zone Dispatch Area.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 105 Entry Year 2015 Acreage: 3,541

County Schoolcraft

Management Area: Danaher Kingston Outwash

Revision Date: 04/09/2013 Stand Examiner: Josh Wall

Legal Description:

T47N, R13W, sections 2, 3, 10, 11, 13 – 15.

Identified Planning Goals:

Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

Soil and topography:

Rubicon sands are found in the level pine plains, and AuTrain Loamy Sand where the hardwoods are growing.

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

The property North, west and east of the compartment is owned by the Forestland Group. There are several homes to the northwest. State owned land borders the compartment to the south.

Unique Natural Features:

Potential for sharp-tail grouse since they have been documented in the open lands in compartment 107 to the south. Checked database 4/19/13

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Clear Creek is a designated Natural River as part of the Fox River system from its beginnings as a perennial stream in section 15 to its confluence with the East Branch of the Fox.

Watershed and Fisheries Considerations:

Fisheries Values: Excellent

Fisheries Concerns: This compartment contains Clear Creek a designated trout stream and tributary of the East Branch Fox River. Clear Creek has a native brook trout population and serves as nursery areas for young of year brook trout. A buffer of 300 feet should be maintained in areas were any treatments are prescribed.

Wildlife Habitat Considerations:

This compartment is located in the east of Lavender Corners in the Grand Marais Sandy End Moraine and Outwash Subsubsection. Pre-settlement vegetation in this area was dominated by a mix of hemlock, white pine, beech, yellow birch, red maple, and sugar maple. The first surveyors also noted a large component of mountain ash in the understory.

Current vegetation patterns are substantially different than those found circa 1850. Red pine plantations and grass openings now are the dominant feature on the landscape. Aspen has also increase in this landscape.

Wildlife habitat objectives in this compartment include allowing some of the northern most openings to succeed into a natural forest composition, reestablishing the mountain ash component, maintaining the aspen component, and promoting the large opening complexes.

Wildlife species of special interest utilizing this compartment include marsh hawk, upland sandpiper, and sharp-tailed grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These are used for stone/dolomite. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

There are numerous two track roads throughout the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Danaher Plains ORV Trail loops throughout the compartment while snowmobile trail #443 traverses north to south through the compartment. As standard practice, keep the trails clear of logging slash and debris. If ORV confidence marker trees are cut, try to cut above them above the markers. Winter logging shouldn't be an issue in this compartment, so there shouldn't be any grooming season conflicts.

Fire Protection:

This compartment is within the Fox River Zone Dispatch Area.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

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

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

Compartment 105 Year of Entry 2015

Shingleton Mgt. Unit Josh Wall : Examiner



Age Class 11.00 M 700,709 70,79 10,0 % % ⁶0, 20.25 70°× Aspen Herbaceous Openland Jack Pine **Low-Density Trees** Lowland Shrub Lowland Spruce/Fir Natural Mixed Pines Northern Hardwood Planted Mixed Pines Red Pine Upland Mixed Forest Upland Shrub Upland Spruce/Fir Urban White Pine

Total

Compartment 105 Year of Entry 2015

Shingleton Mgt. Unit Josh Wall : Examiner



Age Class 11.00 M 700,709 70,79 10,0 % % ⁶0, 20.25 70°× Aspen Herbaceous Openland Jack Pine **Low-Density Trees** Lowland Shrub Lowland Spruce/Fir Natural Mixed Pines Northern Hardwood Planted Mixed Pines Red Pine Upland Mixed Forest Upland Shrub Upland Spruce/Fir Urban White Pine

Total



Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit Year of Entry 2015

Compartment 105
Total Compartment Acres: 3,541

Acres by Treatment Type

Commercial Harvest - 407

Northern Hardwood

Planted Pines

Tree Planting - 269

Other - 31

0

Habitat Cut - 0

Opening Maintenance - 97

Total

55

75

277

0

0

407

Compartment: 105 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n Method Objective **Status** d Name Density Age Range Type 72.0 42110 - Planted Crown Thinning 4211 High 46 141-170 Harvest - Planted Red Cmpt. Review 23 41105023-Cut Red Pine Density Pine Proposal Pole Prescription Treatment- Mark stand to a residual BA of 100, remove double top trees while opening up rows for access. Avoid promoting any additional Red Maple. Sign and protect trail during harvest. Specs: Long trem MO- Red Pine sawlogs Retention- Residual BA MNFI/Archy Database checked 5/31/13 No Hits <u>Other</u> Comments: <u>Next</u> Steps: **Proposed** Start Date: 10/01/2014 29 41105029-Cut 3.4 42110 - Planted High 171-200 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Pine Density Thinning Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Sign and protect trail during harvest. Long trem MO- Red Pine sawlogs Specs: Retention- Residual BA MNFI/Archy Database checked 5/31/13 No Hits Other Comments: Next Steps: **Proposed** 10/01/2014 Start Date: 41105032-Cut 42110 - Planted 171-200 Harvest Systematic 4211 - Planted Red Cmpt. Review High Thinning Red Pine Density Pine Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Long trem MO- Red Pine sawlogs Specs: Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits <u>Other</u> Comments: <u>Next</u> Steps: **Proposed** Start Date: 10/01/2014 41105037-Cut 4.7 42110 - Planted 171-200 Systematic 4211 - Planted Red Cmpt. Review High Harvest Red Pine Density Thinning Pine Proposal Pole

10/01/2014

Specs:

Other
Comments:
Next
Steps:
Proposed
Start Date:

Prescription Treatment- Mark first row thinning, walk through areas with low BA's.

MNFI/Archy Database checked 5/31/13 No Hits

Long trem MO- Red Pine sawlogs

Retention- Residual BA

Compartment: 105 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n Density Method Objective d Name Age Range Type **Status** 42110 - Planted 171-200 4211 - Planted Red Cmpt. Review 41105048-Cut 82 High 42 Harvest Systematic 48 Red Pine Density Thinning Pine Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Long trem MO- Red Pine sawlogs Specs: Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits Other Comments: Next Steps: Proposed 10/01/2014 Start Date: 42110 - Planted 49 41105049-Cut 27.5 High 46 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Density Thinning Pine Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Long trem MO- Red Pine sawlogs Specs: Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits <u>Other</u> Comments: <u>Next</u> Steps: **Proposed** 10/01/2014 Start Date: 42110 - Planted 50 41105050-Cut 24.4 Medium 42 141-170 Harvest Crown Thinning 4211 - Planted Red Cmpt. Review Red Pine Density . Proposal Pole Prescription Treatment- Thin stand to a residual BA of 100 while concentrating on crown spacing and marking a few rows for access. Sign and protect trail during harvest. Specs: Long trem MO- Red Pine sawlogs Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits <u>Other</u> Comments: <u>Next</u> Steps: **Proposed** Start Date: 10/01/2014 41105051-Cut 7.2 42110 - Planted 1-50 Harvest Clearcut 4211 - Planted Red Cmpt. Review Low 42 Red Pine Density Log Pine Proposal Prescription Treatment- Clear-cut overstory to release the planted understory. Long trem MO- Red Pine sawlogs Specs: Retention-Small island MNFI/Archy Database checked 5/31/13 No Hits <u>Other</u> Comments:

10/01/2014

Next Steps: Proposed

Start Date:

Compartment: 105 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type** Approval n Method Objective d Name Density Age Range Type **Status** 42110 - Planted 1-50 - Planted Red Cmpt. Review 41105055-Cut 17.6 Low 42 Harvest Clearcut 4211 55 Red Pine Density Log Pine Proposal Prescription Treatment- Clear-cut overstory to release the planted understory. Trout stream buffer accounted for in prescription. Sign and protect trail during harvest. Specs: Long trem MO- Red Pine sawlogs Retention- Small island along the trail MNFI/Archy Database checked 5/31/13 No Hits Buffer Other Part of stand within static SCA High Priority Trout Stream Comments: Next Steps: Proposed Start Date: 10/01/2014 70 41105070-Cut 16.2 42110 - Planted High 42 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Density Thinning Pine Proposal Pole Prescription Treatment- Mark first row thinning, walk through areas with low BA's. Long trem MO- Red Pine sawlogs Specs: Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits Other Comments: **Next** Steps: Proposed Start Date: 10/01/2014 42110 - Planted 4211 - Planted Red 86 41105086-Cut 29.0 High 42 141-170 Harvest Systematic Cmpt. Review Red Pine Density Thinning Pine Proposal Pole Prescription Treatment- Mark stand to a residual BA of 100, remove double top trees while opening up rows for access. Long trem MO- Red Pine sawlogs Specs: Retention-Residual BA MNFI/Archy Database checked 5/31/13 No Hits Other <u>Next</u> Steps:

Comments:

Proposed

Start Date: 10/01/2014

41105087-Cut 23.9 42110 - Planted High 42 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Density Thinning Pine Proposal Pole

Prescription Treatment- Mark stand to a residual BA of 100, remove double top trees while opening up rows for access.

Long trem MO- Red Pine sawlogs Specs:

Retention- Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

<u>Other</u> Comments: <u>Next</u>

Steps:

Proposed

10/01/2014 Start Date:

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 105 Year of Entry 2015

t а **Treatment** CoverType BA **Treatment Treatment Cover Type** Acres Size Stand Approval n Method Objective d Name Density Age Range Type **Status** 42110 - Planted 5.8 Medium 42 81-110 Harvest Clearcut 4211 - Planted Red Cmpt. Review 88 41105088-Cut Density Log Red Pine Pine Proposal

Prescription Treatment- Clear-cut stand due to low BA and open grown trees. Replant to Red Pine to get a full stocked stand. Trout stream buffer accounted

for in prescription Specs:

Long trem MO- Jack Pine sawlogs

Retention-Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

Other Part of stand within static SCA High Priority Trout Stream Buffer

Comments:

Site prep and plant to Red Pine. Next

Steps:

s

Proposed

Start Date: 10/01/2014

96 41105096-Cut 48.1 42110 - Planted High 42 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Thinning Pine Density Proposal Pole

Prescription Treatment- Mark first entry row thinning, walk through areas with low BA's. Prescription acerage not adjusted for trout stream buffer due to it

Specs: being a thinning. 100 ft no cut buffer along trout stream.

Long trem MO- Red Pine sawlogs Retention-Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

Part of stand within static SCA High Priority Trout Stream Buffer <u>Other</u>

Comments:

Next Steps:

Proposed

10/01/2014 Start Date:

41105111-Cut 18.3 42110 - Planted Hiah 42 141-170 Harvest Crown Thinning 4211 - Planted Red Cmpt. Review Red Pine **Density Log** Pine Proposal

Prescription Treatment- Mark stand to a residual BA of 100, remove double top trees while opening up rows for access.

Specs: Long trem MO- Red Pine sawlogs

Retention-Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

112 41105112-Cut 3.3 42110 - Planted Medium 46 81-110 Harvest Clearcut 4212 - Planted Jack Cmpt. Review Red Pine Density Log Pine Proposal

Prescription Treatment- Clear-cut stand due to low BA's and open grown trees. Plant to Jack Pine along with adjacent stands.

Long trem MO- Jack Pine sawlogs Specs:

Retention- No retention to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

<u>Other</u> Comments:

Site prep and plant to Jack Pine. Next

Steps:

Proposed

10/01/2014 Start Date:

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 105
Year of Entry 2015

DEPARTME	DNR MICHIGAN
	<u> </u>

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
117	41105117-Cut	6.8	42110 - Planted Red Pine	High Density Log	39	81-110	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Treatment- Clear-cut stand to incorporate with stands 113,118,1112,117,119,126,122. Plant to Red Pine along with adjacent stands.

Specs: Long trem MO- Red Pine sawlogs

Retention- Only a few green treed Red Pine to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Trench and plant to Red Pine.

Next Steps:

Proposed

Start Date: 10/01/2014

119 41105119-Cut 3.8 42110 - Planted Medium 46 81-110 Harvest Clearcut 4212 - Planted Jack Cmpt. Review Red Pine Density Log Pine Proposal

Prescription Treatment- Clear-cut stand due to low BA's and open grown trees. Plant to Jack Pine along with adjacent stands.

Specs: Long trem MO- Jack Pine sawlogs

Retention- No retention to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Site prep and plant to Jack Pine

Steps:

Proposed_

Start Date: 10/01/2014

12241105122-Cut6.642110 - PlantedMedium4681-110HarvestClearcut4212 - Planted JackCmpt. ReviewRed PineDensity LogPineProposal

Prescription Treatment- Clear-cut stand due to low BA's and open grown trees. Plant to Jack Pine along with adjacent stands.

Specs: Long trem MO- Jack Pine sawlogs

Retention- No retention to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Site prep and plant to Jack Pine

Steps:

Proposed

Start Date: 10/01/2014

12441105124-Cut4.142110 - PlantedHigh3981-110HarvestClearcut with4211 - Planted RedCmpt. ReviewRed PineDensity LogReservesPineProposal

<u>Prescription</u> Treatment- Clear-cut stand to incorporate with stands 113,118,1112,117,119,126,122. Plant to Red Pine along with adjacent stands.

Specs: Long trem MO- Red Pine sawlogs

Retention- Only a few green treed Red Pine to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Trench and plant to Red Pine.

Steps: Proposed

Start Date: 10/01/2014

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 105
Year of Entry 2015

DEPARTME	DNR MICHIGAN
	<u> </u>

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
117	41105117-Cut	6.8	42110 - Planted Red Pine	High Density Log	39	81-110	Harvest	Clearcut with Reserves	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Treatment- Clear-cut stand to incorporate with stands 113,118,1112,117,119,126,122. Plant to Red Pine along with adjacent stands.

Specs: Long trem MO- Red Pine sawlogs

Retention- Only a few green treed Red Pine to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Trench and plant to Red Pine.

Next Steps:

Proposed

Start Date: 10/01/2014

119 41105119-Cut 3.8 42110 - Planted Medium 46 81-110 Harvest Clearcut 4212 - Planted Jack Cmpt. Review Red Pine Density Log Pine Proposal

Prescription Treatment- Clear-cut stand due to low BA's and open grown trees. Plant to Jack Pine along with adjacent stands.

Specs: Long trem MO- Jack Pine sawlogs

Retention- No retention to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Site prep and plant to Jack Pine

Steps:

Proposed_

Start Date: 10/01/2014

12241105122-Cut6.642110 - PlantedMedium4681-110HarvestClearcut4212 - Planted JackCmpt. ReviewRed PineDensity LogPineProposal

Prescription Treatment- Clear-cut stand due to low BA's and open grown trees. Plant to Jack Pine along with adjacent stands.

Specs: Long trem MO- Jack Pine sawlogs

Retention- No retention to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Site prep and plant to Jack Pine

Steps:

Proposed

Start Date: 10/01/2014

12441105124-Cut4.142110 - PlantedHigh3981-110HarvestClearcut with4211 - Planted RedCmpt. ReviewRed PineDensity LogReservesPineProposal

<u>Prescription</u> Treatment- Clear-cut stand to incorporate with stands 113,118,1112,117,119,126,122. Plant to Red Pine along with adjacent stands.

Specs: Long trem MO- Red Pine sawlogs

Retention- Only a few green treed Red Pine to allow for good site prep and proper planting.

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Trench and plant to Red Pine.

Steps: Proposed

Start Date: 10/01/2014

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 105 Year of Entry 2015

Red Pine

DEPARTME	DNR DNR
`	MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
127	41105127-Cut	74.6	4112 - Maple, Beech, Cherry Association	High Density Log	73	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal

<u>Prescription</u> Treatment- Thin stand to 60-70 BA on average while creating more/larger regen gaps and releasing exsisting advanced regen. Place some gaps

Specs: near Hemlock and White Pine to promote more diversity.

Long trem MO- Maple sawlogs, increase diversity

Retention- Residual BA

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Oak will be planted in gaps to promote diversity post harvest.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

113 NF_41105113-9.73102 - GrassSite PrepTrenching42110 - PlantedCmpt. ReviewPrepRed PineProposal

Prescription Trench and plant to Red Pine after stands 112,119, and 122 are cut.

Specs: MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Follow up with regen checks

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

118 NF_41105118-14.73102 - GrassSite PrepScarification42110 - PlantedCmpt. ReviewPrepRed PineProposal

Prescription Trench and plant to Red Pine after stands 112,119, and 122 are cut.

Specs: MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Follow up with regene surveys

Steps:

Proposed Start Date: 10/01/2014

Prep

126 NF_41105126- 6.7 3102 - Grass Site Prep Scarification 42110 - Planted Cmpt. Review

Prescription Trench and plant to Red Pine after stands 112, 119, and 122 are cut.

Specs: MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next follow up with regen checks

Steps:

Proposed

Start Date: 10/01/2014

Proposal

Compartment: 105 Shingleton Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type** Approval n Method Objective d Name Density Age Range Type **Status** 42121 - Planted Hand Plant 41105026-14.8 Low 4 Tree Planting 4212 - Planted Jack Cmpt. Review 26 **Plant** Jack Pine. Mixed Density Pine Proposal Deciduous Sapling Prescription Currently sitting at 233 jp/ac and 115 aspen/ac. Replant with Jack Pine to get the stand to get stocking up to 800 trees/ac spring 2014 Want to delete old FTP 41-1246 and create one for the whole compartment Specs: MNFI/Archy Database checked 5/31/13 No Hits Other Comments: Regen survey to follow planting. <u>Next</u> Steps: Proposed Start Date: 10/31/2013 41105028-25.5 42121 - Planted 4 Tree Planting Hand Plant 4212 - Planted Jack Cmpt. Review 28 Low **Plant** Jack Pine, Mixed Density Pine Proposal Deciduous Sapling Prescription Currently sitting at 242 jp/ac and 114 aspen/ac. Replant with Jack Pine to bring the stocking up to 800 trees/ac spring 2014. Want to delete old FTP 41-1246 and create one for the whole compartment Specs: MNFI/Archy Database checked 5/31/13 No Hits Other Comments: Regen survey to follow Next Steps: Proposed 10/31/2013 Start Date: 41105067-23.0 42110 - Planted 4 Hand Plant 4211 - Planted Red 67 Tree Planting Cmpt. Review Iow **Plant** Red Pine Density Pine Proposal Sapling Prescription Re-Plant to Red Pine currently sitting at 175 red pine/ac 75 jack pine/ac and 100 aspen/ac. Re-plant to increase the stocking to 800 red pine/ac. Delete old FTP 41-1374 and create one for the whole compartment. Specs: MNFI/Archy Database checked 5/31/13 No Hits Comments: <u>Next</u>

Other_

Regen check

Steps:

Proposed

Start Date: 10/31/2013

128 41105128-60.2 42110 - Planted Medium 4 Tree Planting Hand Plant 4211 - Planted Red Cmpt. Review Red Pine Density Pine Proposal **Plant** Sapling

Prescription Stand currently sitting at 305 red pine/ac and 11 white pine/ac. Replant stand with Red Pine to obtain 800 trees/ac.

MNFI/Archy Database checked 5/31/13 No Hits Specs:

Stand was aerial sprayed to reduce cherry competition. Other_

Comments:

Next Regen check

Steps: Proposed

10/31/2013 Start Date:

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 105
Year of Entry 2015

Pine

DNR MICHIGAN

Proposal

а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n Method Objective **Status** d Name Density Age Range Type 71.9 3302 - Low Density Hand Plant 4211 - Planted Red Cmpt. Review NF 41105017-Tree Planting 17

Prescription Treatment- Re-plant stand with Red Pine to improve stocking levels. Currently sitting at 252 Red Pine/ac and 105 Aspen/ac.

Specs: Long term MO- Red Pine sawlogs

Want to delete old FTP 41-1374 and 41-1371 and create one for whole compartment

MNFI/Archy Database checked 5/31/13 No Hits

Conifer Trees

Other Comments:

S t

Next Regen checks following re-plant.

Steps:

Proposed 10/24

Start Date: 10/31/2013

Plant

46 NF_41105046- 73.2 3302 - Low Density Tree Planting Hand Plant 4211 - Planted Red Cmpt. Review Plant Conifer Trees Proposal

Prescription Treatment- Re-plant stand with Red Pine to improve stocking levels. Currently sitting at 322 Red Pine/ac and 55 Aspen/ac.

Specs: Long term MO- Red Pine sawlogs

Want to delete old FTP 41-1371 and 41-1374 and create one for whole compartment

MNFI/Archy Database checked 5/31/13 No Hits

Other Comments:

Next Regen checks following re-plant

Steps:

Proposed

Start Date: 10/31/2013

3 NF_41105003- 37.4 310 - Herbaceous Non-Forest Mowing 3102 - Grass Cmpt. Review Management Proposal

Prescription Wildlife Opening maintance

Specs:

Other Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

 18
 NF_41105018 60.0
 310 - Herbaceous
 Non-Forest
 Mowing
 3102 - Grass
 Cmpt. Review

 NonFor
 Openland
 Management
 Proposal

Prescription Opening maintance

Specs:

Other Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

Total Treatment

Acreage Proposed: 804.2

Shingleton Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 105 a Limiting Factor s Year of Entry 2015 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Method Objective Status Name Density Age Range Type #Type! #Type! **Prescription** Specs: Other Comment: <u>Next</u> Steps: <u>Proposed</u> #Type! Start Date:

Total Treatment

Limiting Factor

Acreage Proposed: 0.0

Report 5 - Site Conditions

Shingleton Mgt. Unit

Josh Wall: Examiner

Compartment 105
Year of Entry 2015

Availability for Management Dominant Site Conditions Total Acres Acres 3J Acres Available Not Available No 205 205 205 Aspen 115 115 Jack Pine 115 6 19 13 Lowland Spruce/Fir 6 13 193 193 **Natural Mixed Pines** 193 399 399 399 Northern Hardwood 27 27 27 **Planted Mixed Pines** 1393 1393 **Red Pine** 1,393 96 96 **Upland Mixed Forest** 96 37 37 Upland Spruce/Fir 37 392 392 White Pine 392 2,863 2,876 13 Total Forested Acres 2,863 13 100% 0% 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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	3J: Water quality / BMPs (stream, river, or lake)	13				
(Comments:						

Compartment: 105 Year of Entry: 2015



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				

Compartment: 105
Year of Entry 2015



Report 7 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area					
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These 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 Frei and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatmen this compartment will be implemented in such a manner as to maintain the integrity of these sites. Dut 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 and those of other coldwater fish spectyear to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	ies (e.g., slimy sculpin) to persist from ese conditions due to substantial					
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 la streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Rip communities are ecologically and socially significant in their effects on water quality and quantity, as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversit						
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spapproved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 1 and Vegetative Buffers for each Natural River see the table local folder.	s Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts					

s t	Shingleto		Report 8	 Forested Stands 	Compartment: 105 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42340 - Upland Spruce/Fir	Medium Density Log	15.7	47	51-80	
4	4112 - Maple, Beech, Cherry Association	Medium Density Log	24.9	67	51-80	
5	4136 - Aspen, Mixed Conifer	Low Density Sapling	14.8	7	1-50	
6	42340 - Upland Spruce/Fir	High Density Pole	3.2	43	1-50	
7	4112 - Maple, Beech, Cherry Association	Medium Density Log	65.3	67	51-80	
8	42200 - Natural White Pine	Medium Density Log	17.3	66	51-80	
9	42340 - Upland Spruce/Fir	Medium Density Pole	17.9	50	1-50	
11	42200 - Natural White Pine	Medium Density Log	4.5	66	51-80	
12	4112 - Maple, Beech, Cherry Association	Medium Density Log	6.3	67	51-80	
13	42110 - Planted Red Pine	High Density Log	20.3	46	81-110	
14	4133 - Aspen, Mixed Pine	Medium Density	77.4	16	1-50	
15	42110 - Planted Red Pine	Medium Density Pole	18.2	46	51-80	
16	42200 - Natural White Pine	Medium Density Pole	8.8	33	1-50	
19	42290 - Natural Mixed Pine	Medium Density	10.3	26	1-50	
20	42290 - Natural Mixed Pine	Medium Density	24.1	26	1-50	
21	42260 - Natural Pine, Mixed Deciduous	Medium Density	2.4	5	1-50	
22	42110 - Planted Red Pine	Medium Density Log	11.5	42	81-110	
23	42110 - Planted Red Pine	High Density Pole	72.0	46	141-170	

S t	Shingletor	Shingleton Mgt. Unit			- Forested Stands	Compartment: 105 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42110 - Planted Red Pine	High Density Log	49.6	46	81-110	
25	42110 - Planted Red Pine	High Density Pole	19.5	42	111-140	
26	42121 - Planted Jack Pine, Mixed Deciduous	Low Density Sapling	14.8	4		
28	42121 - Planted Jack Pine, Mixed Deciduous	Low Density Sapling	25.5	4		
29	42110 - Planted Red Pine	High Density Pole	6.6	42	171-200	
30	42110 - Planted Red Pine	High Density Pole	13.9	36	111-140	
32	42110 - Planted Red Pine	High Density Pole	1.4	42	171-200	
34	4112 - Maple, Beech, Cherry Association	Medium Density Log	26.9	67	51-80	
36	4136 - Aspen, Mixed Conifer	Medium Density	5.4	16	1-50	
37	42110 - Planted Red Pine	High Density Pole	4.7	42	171-200	
39	42110 - Planted Red Pine	Medium Density Log	6.6	42	51-80	
40	42110 - Planted Red Pine	Low Density Sapling	30.1	8		
41	42110 - Planted Red Pine	High Density Pole	15.1	42	111-140	
42	42110 - Planted Red Pine	Medium Density Pole	23.3	42	81-110	
44	4133 - Aspen, Mixed Pine	Medium Density	31.9	17	1-50	
45	42110 - Planted Red Pine	Medium Density	24.5	12	1-50	
47	42200 - Natural White Pine	Medium Density	58.5	20	1-50	
48	42110 - Planted Red Pine	High Density Pole	8.2	42	171-200	

S t	Shingletor	Shingleton Mgt. Unit			 Forested Stands 	Compartment: 105 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	42110 - Planted Red Pine	High Density Pole	27.5	46	141-170	
50	42110 - Planted Red Pine	Medium Density Pole	24.4	42	141-170	
51	42110 - Planted Red Pine	Low Density Log	7.2	42	1-50	
52	42120 - Planted Jack Pine	Medium Density	31.1	4		
54	42260 - Natural Pine, Mixed Deciduous	Medium Density	65.0	16	1-50	
55	42110 - Planted Red Pine	Low Density Log	28.5	42	1-50	
57	42110 - Planted Red Pine	High Density Pole	12.3	42	111-140	
58	42110 - Planted Red Pine	Low Density Sapling	1.8	8		
60	4130 - Aspen	Low Density Sapling	2.6	7		
61	42110 - Planted Red Pine	Medium Density Pole	39.8	30	81-110	
62	4113 - R.Maple, Conifer	Medium Density Pole	14.8	29	1-50	
63	42220 - Natural Jack Pine	Low Density Sapling	8.3	6	1-50	
64	42110 - Planted Red Pine	Medium Density Log	43.3	42	81-110	
65	4112 - Maple, Beech, Cherry Association	High Density Log	68.6	67	81-110	
66	42110 - Planted Red Pine	High Density Pole	7.6	42	81-110	
67	42110 - Planted Red Pine	Low Density Sapling	23.0	4		
68	42110 - Planted Red Pine	High Density Pole	21.6	42	111-140	
70	42110 - Planted Red Pine	High Density Pole	16.2	42	141-170	

S t	Shingletor		Report 8	- Forested Stands	Compartment: 105 Year of Entry: 2015	DNR DNR	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN MICHIGAN
71	42110 - Planted Red Pine	Medium Density Log	22.5	42	81-110		
72	42200 - Natural White Pine	Medium Density Log	99.2	63	1-50		
73	6122 - Black Spruce	High Density Sapling	6.0	31	1-50		
77	42200 - Natural White Pine	Medium Density Pole	90.0	30	1-50		
78	42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	15.0	16	1-50		
79	42200 - Natural White Pine	Medium Density Pole	26.9	49	1-50		
80	4311 - Pine, Aspen Mix	Medium Density	95.6	10	1-50		
81	6122 - Black Spruce	Medium Density Pole	12.8	78	1-50		
82	4112 - Maple, Beech, Cherry Association	High Density Pole	7.8	62	51-80		
83	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density	7.7	4			
84	42140 - Planted Mixed Pine	Medium Density Log	27.1	42	51-80		
85	4136 - Aspen, Mixed Conifer	Low Density Sapling	25.2	15			
86	42110 - Planted Red Pine	High Density Pole	29.0	42	141-170		
87	42110 - Planted Red Pine	High Density Pole	23.9	42	141-170		
88	42110 - Planted Red Pine	Medium Density Log	22.1	42	81-110		
90	4132 - Aspen, Jack Pine	Low Density Sapling	27.7	12	1-50		
91	42110 - Planted Red Pine	Medium Density Pole	17.4	42	81-110		
92	4130 - Aspen	Medium Density	16.1	7			

s t	Shingleton		Report 8	Forested Sta	rinds Compartment: 105 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
93	42110 - Planted Red Pine	Medium Density Pole	65.1	42	111-140	
94	42110 - Planted Red Pine	Medium Density Pole	10.0	42	111-140	
95	4112 - Maple, Beech, Cherry Association	High Density Pole	24.5	62	51-80	
96	42110 - Planted Red Pine	High Density Pole	48.1	42	141-170	
97	42290 - Natural Mixed Pine	Low Density Pole	22.1	42	1-50	
98	42120 - Planted Jack Pine	Medium Density	27.6	4		
99	42110 - Planted Red Pine	Medium Density Pole	14.9	42	111-140	
100	4132 - Aspen, Jack Pine	Low Density Sapling	4.3	4		
102	42110 - Planted Red Pine	Medium Density Pole	66.8	42	111-140	
103	42110 - Planted Red Pine	Medium Density Pole	22.9	42	81-110	
104	42110 - Planted Red Pine	Medium Density Pole	36.5	42	81-110	
105	42200 - Natural White Pine	Medium Density Log	8.6	42	1-50	
106	42210 - Natural Red Pine	Medium Density	58.4	4		
107	42200 - Natural White Pine	Low Density Log	10.0	65	1-50	
108	4112 - Maple, Beech, Cherry Association	Medium Density Log	77.2	67	51-80	
109	42200 - Natural White Pine	Medium Density Log	43.8	60	51-80	
110	42260 - Natural Pine, Mixed Deciduous	Low Density Sapling	25.6	20		
111	42110 - Planted Red Pine	High Density Log	18.3	42	141-170	MO Red Pine, row thin and crown thinning in spots due to variable BA's.

s t	Shingleton		Report 8	- Forested Stands	Compartment: 105 Year of Entry: 2015	OF NATURAL PERSONRE	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
112	42110 - Planted Red Pine	Medium Density Log	3.3	46	81-110		
114	42110 - Planted Red Pine	Medium Density Log	62.6	46	81-110		
115	42110 - Planted Red Pine	High Density Log	25.8	39	81-110		
116	42110 - Planted Red Pine	Medium Density Pole	7.6	42	81-110		
117	42110 - Planted Red Pine	High Density Log	6.8	39	81-110		
119	42110 - Planted Red Pine	Medium Density Log	3.8	46	81-110		
121	4113 - R.Maple, Conifer	Medium Density Log	6.5	67	51-80		
122	42110 - Planted Red Pine	Medium Density Log	6.6	46	81-110		
123	42110 - Planted Red Pine	High Density Log	31.0	42	141-170	Row and crown thinning	
124	42110 - Planted Red Pine	High Density Log	4.3	39	81-110		
127	4112 - Maple, Beech, Cherry Association	High Density Log	74.6	73	111-140		
128	42110 - Planted Red Pine	Medium Density	60.2	4			
129	4112 - Maple, Beech, Cherry Association	High Density Log	1.3	73	81-110		
130	42110 - Planted Red Pine	High Density Log	19.2	42	81-110		
131	42200 - Natural White Pine	High Density Pole	3.4	33	1-50		
132	42260 - Natural Pine, Mixed Deciduous	Low Density Sapling	28.7	20			
133	42110 - Planted Red Pine	High Density Log	127.8	39	81-110		
134	42200 - Natural White Pine	Low Density Pole	21.1	33	1-50		

Compartment: 105 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	310 - Herbaceous Openland	7.1	No	Unspecified	
3	310 - Herbaceous Openland	37.4	No	Unspecified	
10	310 - Herbaceous Openland	9.4	No	Unspecified	
17	3302 - Low Density Conifer Trees	71.9	Plantation	Red Pine	FTP 41-1374 Red Pine 252/ac Aspen 105/ac needs to be replanted. MO Red Pine
18	310 - Herbaceous Openland	60.0	No	Unspecified	
27	310 - Herbaceous Openland	9.4	No	Unspecified	
31	122 - Road/Parking Lot	23.6	No	Unspecified	
33	3102 - Grass	7.6	No	Unspecified	
35	3102 - Grass	5.0	No	Unspecified	
38	310 - Herbaceous Openland	20.7	No	Unspecified	
43	310 - Herbaceous Openland	1.7	No	Unspecified	
46	3302 - Low Density Conifer Trees	73.2	Plantation	Red Pine	FTP 41-1374 consolidated a couple stands that were planted at different times. MO Red Pine, Red Pine 320/ac Aspen 33/ac, needs to be replanted with Red Pine. Snow damage throughout. Jack Pine planted in the NE part of the stand, north of the road is at 200/ac.
53	3205 - Mixed Upland Shrub	14.7	No	Unspecified	
56	3302 - Low Density Conifer Trees	26.3	Plantation	Red Pine	Stand is part of FTP 41-1374 and needs to re-planted. Sitting at 271/ac Red Pine and 142/ac aspen
59	3102 - Grass	14.1	No	Unspecified	
69	310 - Herbaceous Openland	20.1	No	Unspecified	
74	629 - Mixed non-forested wetland	3.0	No	Unspecified	

Compartment: 105 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
75	629 - Mixed non-forested wetland	6.5	No	Unspecified	
76	3102 - Grass	25.8	No	Unspecified	
89	3102 - Grass	77.6	No	Unspecified	
101	3102 - Grass	114.6	Yes	Low	
113	3102 - Grass	9.7	No	Unspecified	
118	3102 - Grass	14.7	No	Unspecified	
120	122 - Road/Parking Lot	3.5	Unspecified	Unspecified	
125	629 - Mixed non-forested wetland	0.9	No	Unspecified	
126	3102 - Grass	6.7	No	Unspecified	