

Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 109 Entry Year 2015 Acreage: 5.278

County Schoolcraft

Management Area: Danaher Kingston Outwash

Revision Date:

Stand Examiner: Mario Molin

Legal Description:

T47N R13W Sections 16-21, 28-33

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:

There are three main soil types in this compartment; Rubicon Sand, Eastport Sands and Saugatuck Sand. All are listed as being naturally low in fertility. The terrain is mainly flat to rolling with steeper depressions making frost pockets.

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

This compartment has State Land on the East, West and South side of its boundaries consisting of timber types represented within compartment 109. The North is bordered by the Forest Land Group containing hardwood cover types.

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 East Branch of the Fox River and Camp 7 Creek are designated Natural Rivers as part of the Fox River system. This should be stated in the Special Management Designations and Considerations section. This compartment falls entirely within the Kingston Outwash LTA.

Watershed and Fisheries Considerations:

The East Branch Fox River is classified as designated trout water. In fact, the stretch of the East Branch upstream from M-77 contains the largest average size brook trout in the Eastern Upper Peninsula. Fisheries Division maintains two sand traps, one just upstream from the M-77 bridge and one off the woods road just north of the plateau immediately north of the bridge. Camp 7 Creek is not actively managed for trout but forestry personnel have sighted many small brook trout in the creek in the fall. Dutch Fred Lake is managed as a splake and yellow perch fishery.

Wildlife Habitat Considerations:

This compartment is located south of Dutch Fred Lake in the Grand Marais Sandy End Moraine and Outwash Subsubsection. White pine, hemlock, yellow birch, red maple and beech were the major component species in the circa 1850 forests. Balsam fir, red pine, and spruce were recorded as moderately important while sugar maple and white birch were minor components. Mountain ash was found in the understory throughout the compartment. Current vegetation within the compartment is substantially different from that of pre-settlement times. Red pine and jack pine plantations intermixed with large openings constitute the majority of the compartment.

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 at 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:

Access is very good through the entire compartment. Dutch Fred Lake Road runs through the center with many good two-tracks spurring off giving access to almost the entire compartment. Sandy soils can make logging difficult during dry seasons.

Survey Needs:

As of this time there are no known survey needs.

Recreational Facilities and Opportunities:

The only developed recreation facility within this compartment is the boating access site located on Dutch Fred Lake. However, the Danaher Plains ORV trail and snowmobile trail #431 are located immediately east of the compartment on the east side of State Highway M-77.

Fire Protection:

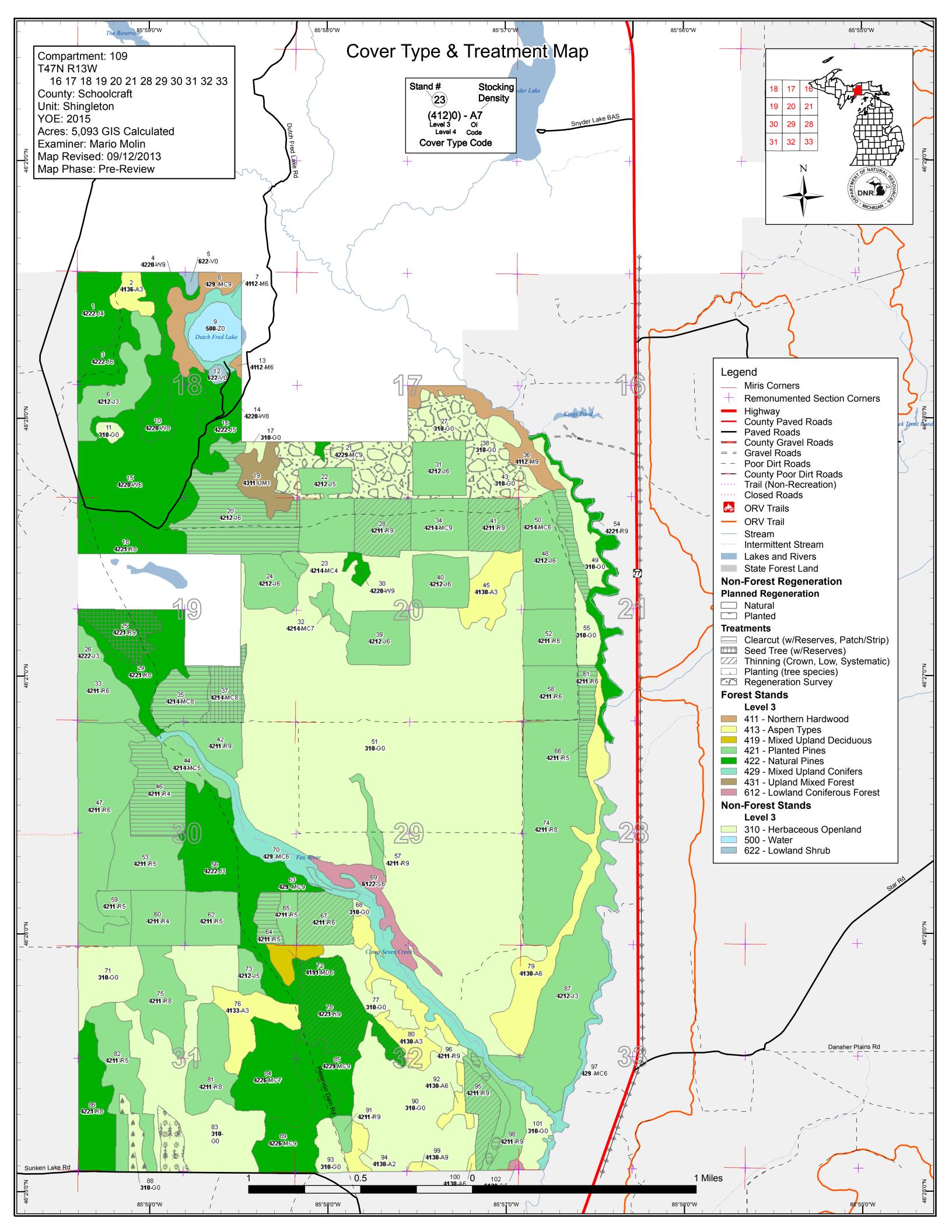
Additional Compartment Information:

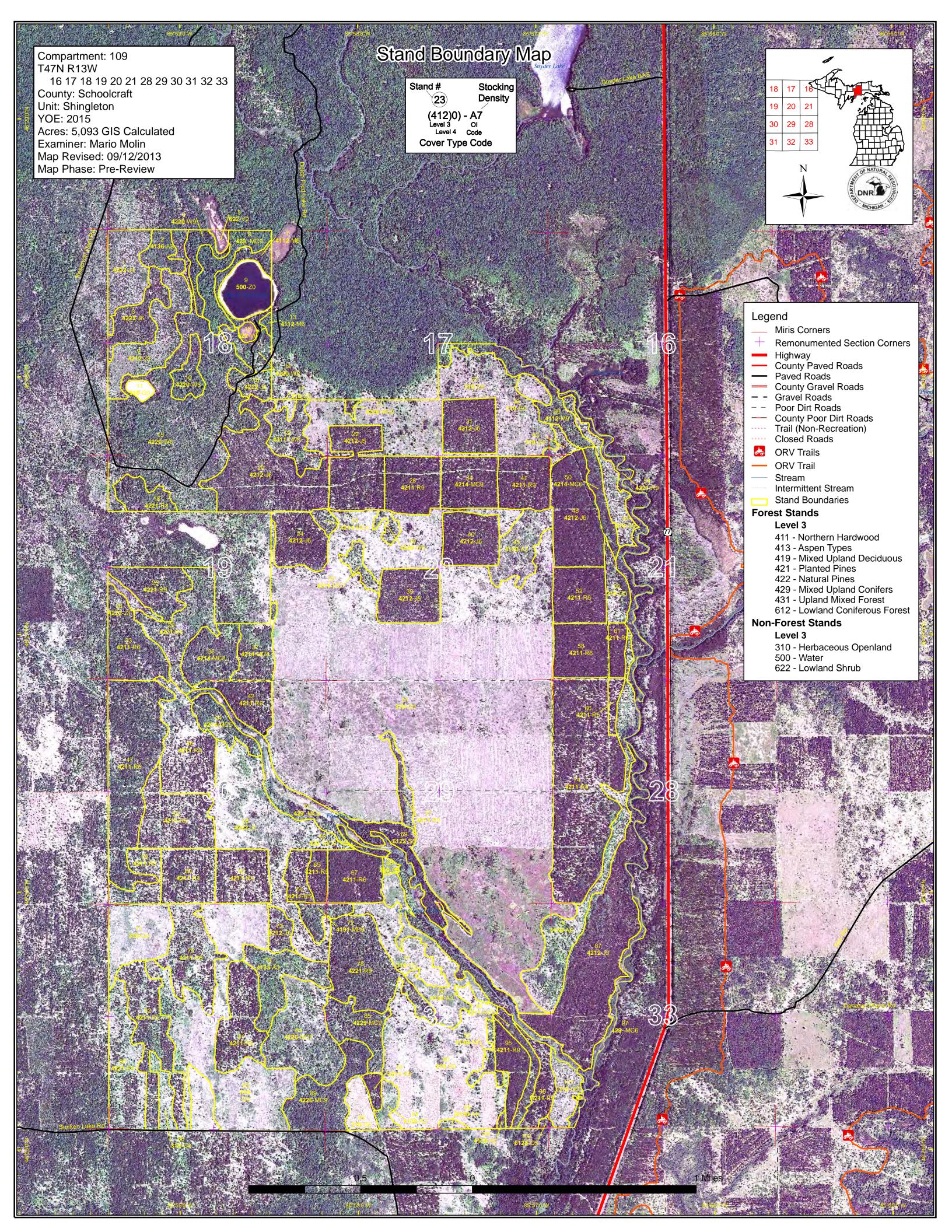
The following reports from the Inventory are attached:

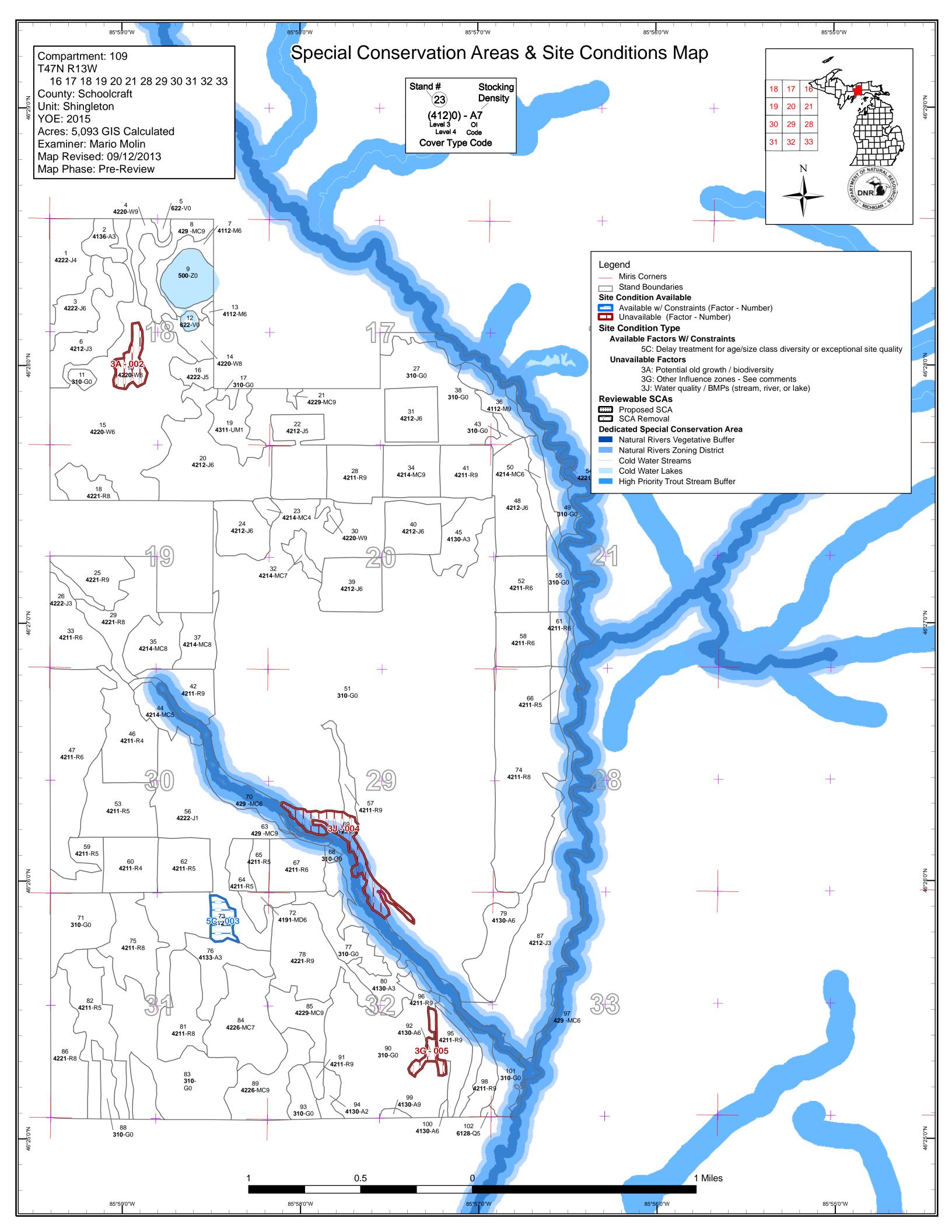
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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 109 Year of Entry 2015

Shingleton Mgt. Unit
Mario Molin: Examiner



Age Class 11.00 M 700,709 70,79 10,0 0°. ⁶0, 20.25 70°× Aspen Bog Herbaceous Openland Jack Pine **Lowland Conifers** Lowland Spruce/Fir Mixed Upland Deciduous Natural Mixed Pines Northern Hardwood Planted Mixed Pines Red Pine Upland Conifers

Upland Mixed Forest

Water

Total

White Pine



Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit Year of Entry 2015

Compartment 109 Total Compartment Acres: 5,278

Acres by Treatment Type

Commercial Harvest - 523 Tr

Natural Pines

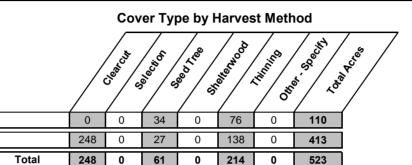
Planted Pines

Tree Planting - 18

Other - 0

Habitat Cut - 0

Opening Maintenance - 0



Report 3 -- Treatments Prescribed

Compartment: 109

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S t		Shingle	ton Mgt. Unit	керс			ients Prescrii	bed	Year of Entry 2015	DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
96	31040_island	0.6	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	56 J	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
Preso Spec			as well as 3 rows of ntain a 200 ft buffer					te more regenera	ation of aspen. red line	will be actually
Other Comi	r_ Stand is ments:	a steep rid	ge with planted red p	oine, it has a	couple o	of small poo	ckets of aspen.			
Next Steps		up accordinç	to work instructions	3.						
Propo Start I		14								_
96	31040_island_ 2	1.1	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	56 J	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
Preso Spec	s: best gu		e imagery, and will m						ation of aspen. These is tain a 200 ft buffer of off	
Other Com	r_ Stand is ments:	a steep rid	ge with planted red p	oine, it has a	couple o	of small poo	ckets of aspen.			
Next Steps		up accordinç	g to work instructions	S.						
Propo Start [14								
96	31040_island_ 3	0.9	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	56 J	81-110	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
Preso Spec			as well as 3 rows of ntain a 200 ft buffer					ote more regenera	ation of aspen. red line	will be actually
Othe Com	r_ Stand is ments:	a steep rid	ge with planted red p	oine, it has a	couple o	of small poo	ckets of aspen.			
Next	Follow (up accordino	to work instructions	S.						

Steps:

Proposed

Start Date: 10/01/2014

41109020-Cut 4212 - Planted Jack Cmpt. Review 20 98.5 42120 - Planted High 55 51-80 Harvest Clearcut with Jack Pine Density Reserves Pine Proposal

Pole

Prescription Clear cut with red pine reserved. Mark red pine if necessary for operations (including site prep). Red pine was scattered around the stand,

inventory plots only showed 10 -30 BA which is what I would like to have remain.

<u>Other</u> Site was planted twice- 1959 and 1971

Comments:

<u>Next</u> Follow up according to work instructions.

Steps:

Specs:

Proposed

Start Date: 10/01/2014

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 109 Year of Entry 2015

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	41109025-Cut	34.0	42210 - Natural Red Pine	High Density Log	68 J	111-140	Harvest	Seed Tree with Reserves	4221 - Natural Red Pine	Cmpt. Review Proposal

Prescription Leave tree mark (20-40BA) red pine and occasional white pine. Focus on spacing of the trees: the follow up treatment is to root rake with the large dozer from wildlife, so to not damage the roots of the seed trees. Specs:

Other Comments:

S

Follow up treatment is to root rake with the large dozer from wildlife. If root rake is unavailable trench and plant red pine. Continue to follow up

according to work instructions.

Steps: **Proposed**

Next

10/01/2014 Start Date:

42110 - Planted High 4211 - Planted Red Cmpt. Review 28 41109028-Cut 40.3 54 81-110 Harvest Crown Thinning Red Pine Density Log Pine Proposal

Prescription Remove all jack pine, thin red pine as needed.

Specs:

Site was planted multiple times (1959 and 1971) Other

Comments:

Next Steps:

Proposed

10/01/2014 Start Date:

41109035-Cut 35.5 42141 - Planted Medium 51-80 Harvest Clearcut with 4130 - Aspen Cmpt. Review Mixed Pine, Mixed Density Log Reserves Proposal

Deciduous

Prescription Clear cut with paper birch reserved.

Specs:

Other Site has small pockets of aspen, try to promote more aspen. Site will not fully regenerate with aspen.

Comments:

Wait 2 growing season and locate areas that have not regenerated with aspen, these areas will be trenched and planted with red pine.

Next Steps:

Proposed

Start Date: 10/01/2014

41109037-Cut 27.1 42140 - Planted Medium 81-110 Harvest Seed Tree with 42290 - Natural Cmpt. Review Mixed Pine Mixed Pine **Density Log** Reserves Proposal

Prescription Seed tree cut (20-40BA) focus on spacing. Follow up treatment will be the large wildlife dozer with root rake.

Specs:

Other Comments:

Follow up treatment will be the large wildlife dozer with root rake. If root rake is unavailable trench asnd plant with red pine. Next

Steps:

Proposed

Start Date: 10/01/2014

41109041-Cut 35.3 42110 - Planted High 54 81-110 Harvest Crown Thinning 4211 - Planted Red Cmpt. Review Red Pine Pine **Density Log** Proposal

Prescription Remove all jack pine and thin red pine as needed.

Specs:

Other Comments:

<u>Next</u> Steps:

Proposed

Start Date: 10/01/2014

Compartment: 109 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** n Method Objective d Name Density Age Range Type 42110 - Planted 4211 - Planted Red 58.9 54 1-50 Clearcut with Cmpt. Review 46 41109046-Cut Low Harvest Red Pine Density Reserves Pine Pole Prescription Clear cut with reserves/retention. Small finger in the nrth end of stand can sereve as retention. Specs:

Other_ Comments:

N<u>ext</u> Trench and replant with red pine. Follow up according to work instructions.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

50 41109050-Cut 16.8 42140 - Planted High 42 51-80 Harvest Clearcut with 413 - Aspen Cmpt. Review Mixed Pine Reserves Proposal Density

Prescription Clear cut with reserves/retention being everything on the slope on the east side. Run the red line along the top of the slope and included only Specs:

where aspen is abundant, treatment area will be smaller than proposed because the objective is to promote aspen. Maintain a 200ft buffer off of

Other Comments:

Next Follow up according to work instructions.

Aspen is the M.O. should aspen fail to regenerate any mix of species currently on site will be accepted. Steps:

Proposed

10/01/2014 Start Date:

42110 - Planted 4211 - Planted Red Cmpt. Review 61 41109061-Cut 12 1 High 54 51-80 Harvest Clearcut with Red Pine Density Reserves Proposal

Pole

Prescription Clear cut with reserves, reserves being oak and any other unique species to the site. Maintain a 200 ft buffer of off the river, this will also serve

as retention. Specs:

Other

Comments:

Next Trench and plant with red pine. Follow up according to work instructions.

Steps:

Proposed

10/01/2014 Start Date:

42110 - Planted 64 41109064-Cut 15.3 Medium 49 51-80 Harvest Clearcut with 4211 - Planted Red Cmpt. Review Red Pine Density Reserves Pine Proposal

Pole

Prescription Clear cut with reserves, reserves are any oak or other species unique to the site.

Specs:

Other Comments:

<u>Next</u> Trrench and plant to red pine. Follow up according to work instructions.

Steps:

Proposed

Start Date: 10/01/2014 Approval

Status

Proposal

Report 3 -- Treatments Prescribed Compartment: 109 Shingleton Mgt. Unit Year of Entry 2015 with No Limiting Factor s t а **Treatment** Acres CoverType Size BA **Treatment Treatment Cover Type** Approval n Name **Density** Range Method Objective d Age Type **Status** 7.6 42110 - Planted 51-80 Clearcut with - Planted Red Cmpt. Review 41109066-Cut Medium 54 Harvest 4211 66 Red Pine Density Reserves Pine Proposal Pole Prescription Clear cut with reserves, reserves being any oak or other species unique to the site. Maintain a 200 ft buffer of off the river, this will also serve as Specs: retention Other Comments: Trench and plant to red pine, follow up according to work instructions. <u>Next</u> Steps: <u>Proposed</u> Start Date: 10/01/2014 41109067-Cut 36.3 42110 - Planted High 49 141-170 Harvest Crown Thinning 4211 - Planted Red Cmpt. Review Red Pine Density Pine Proposal Pole Prescription Third row thin. Specs: Other Comments: Follow up according to work instructions. <u>Next</u> Steps: Proposed Start Date: 10/01/2014 78 41109078-Cut 75.7 42210 - Natural High 85 51-80 Harvest Crown Thinning 42290 - Natural Cmpt. Review Red Pine **Density Log** Mixed Pine Proposal Prescription. Thin pine as needed, in more open areas make them larger and remove all trees to promote red pine regeneration. Other Comments: Follow up according to work instructions. Next Steps: **Proposed** 10/01/2014 Start Date: 42110 - Planted 4211 - Planted Red 95 41109095-Cut 26.0 High 50 111-140 Harvest Systematic Cmpt. Review Red Pine **Density Log** Thinning Pine Proposal Prescription Third row thin. Specs: Other Comments: <u>Next</u> follow up according to work instructions. Steps: **Proposed** Start Date: 10/01/2014

Tree Planting

Hand Plant

4211 - Planted Red

Pine

103

Specs:
Other
Comments:
Next
Steps:
Proposed
Start Date:

NF 41109103-

Plant

Prescription Re-plant

17.6

3105 - Mixed

Upland Herbaceous

Cmpt. Review

Proposal

CoverType

Size

Density

Stand

Age

Acres

539.6

Report 3 -- Treatments Prescribed with No Limiting Factor

Treatment

Туре

BA

Range

Compartment: 109
Year of Entry 2015

Treatment

Method

Cover Type Objective Name Total Treatment

Treatment

S t a

n

Acreage Proposed:

Shingleton Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 109 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

Shingleton Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 109 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

Mario Molin: Examiner

Compartment 109 Year of Entry 2015

Availa	ability for I	Management						
Total	Acres	Acres	i	Domina	nt Site	e Cond	ditions	S
Acres	Available	Not Available		No	5C	3J	3G	3A
242	233	9	Aspen	233			9	
792	792		Jack Pine	780	12			
2	2		Lowland Conifers	2				
32		32	Lowland Spruce/Fir			32		
15	15		Mixed Upland Deciduous	15				
157	157		Natural Mixed Pines	157				
69	69		Northern Hardwood	69				
155	155		Planted Mixed Pines	155				
1319	1319		Red Pine	1,319				
128	128		Upland Conifers	128				
28	28		Upland Mixed Forest	28				
270	254	16	White Pine	254				16
3,208	3,152	57	Total Forested Acres	3,139	12	32	9	16
	98%	2%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition		
002	Not Available	3A: Potential old growth / biodiversity	16						
Comments: Overstory trees are very old and advanced regeneration is present.									
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12						
	Comments:								

Report 5 – Site Conditions

Shingleton Mgt. Unit Mario Molin: Examiner Compartment 109 Year of Entry 2015

004	Not Available	3J: Water quality / BMPs (stream, river, or lake)	32	3A: Potential old growth / biodiversity	3D: Recreational / Scenic values	
С	omments:					
005	Not Available	3G: Other Influence zones - See comments	9			
С	omments:					

Compartment: 109 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: 109
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 resites of cultural and historical significance that may occur upon to bottomlands. They include thousands of Native American settlem and British outposts, nineteenth century logging camps, mines at the Great Lakes, there are shipwrecks and other remains docum be identified by Natural heritage data from the State Historic Presthis compartment will be implemented in such a manner as to mathe sensitive nature of this information, no further detail about local	errestrial areas and Great Lakes nents and burial sites, as well as French and homesteads. Beneath the waters of enting the maritime trade. Such sites may servation Office. Proposed treatments in aintain the integrity of these sites. Due to				
SCA	Cold Water Lake	a coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced tocked trout populations and those of other coldwater fish species to persist from year to year. Sui onditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantoundwater inflows, or are located in colder (northern) areas of the state. Such lakes are establish Director's action and designated as trout resources by Fisheries Order 200.					
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condistocked trout populations and those of other coldwater fish speci year 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.	es (e.g., slimy sculpin) to persist from se 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 lak streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Ripa 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 biodiversity					
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locat folder.	Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts				

s t				Report 8	– Forested	Stands Compartment: 109 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	Low Density Pole	39.6	20	1-50	
2	4136 - Aspen, Mixed Conifer	High Density Sapling	15.2	13		A3 with scattered white pine and fir.
3	42220 - Natural Jack Pine	High Density Pole	29.8	30	51-80	
4	42200 - Natural White Pine	High Density Log	14.7	85	51-80	Long skinny stand with many super story white pine, as you head south the timber gets smaller. Understory is light with balsam fir and red maple.
6	42120 - Planted Jack Pine	High Density Sapling	50.4	15		Was most likely two stands but now looks similar.
7	4112 - Maple, Beech, Cherry Association	High Density Pole	32.2	65	51-80	Super story white pine in abundance soouthwest of marsh.
8	429 - Mixed Upland Conifers	High Density Log	16.0	85	1-50	Skinny buffer around lake.
10	42200 - Natural White Pine	Medium Density Log	15.7	174	51-80	Amazing white pine regeneration.
13	4112 - Maple, Beech, Cherry Association	High Density Pole	2.1	65	81-110	Small stand on compartment line.
14	42200 - Natural White Pine	Medium Density Log	16.8	65	1-50	
15	42200 - Natural White Pine	High Density Pole	216.6	55	1-50	Mix of white and jack pine, understory is scattered patchy aspen.
16	42220 - Natural Jack Pine	Medium Density Pole	13.2	39	1-50	
18	42210 - Natural Red Pine	Medium Density Log	19.3	41	51-80	
19	4311 - Pine, Aspen Mix	Low Density Sapling	28.4	10	1-50	Old opening with a mix of species.
20	42120 - Planted Jack Pine	High Density Pole	98.5	55	51-80	Some mortality in the stand, very patchy. Conrers found- wood posts.
21	42290 - Natural Mixed Pine	High Density Log	2.1	84	1-50	Carry over from adjacent compartment.

S t				Report 8	Forested	Stands Compartment: 109 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	42120 - Planted Jack Pine	Medium Density Pole	55.4	42	51-80	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 56 yrs and the jack pine is app. 42 yrs. More exact dates are available on the old 1985 OI map. I am using this broad satement because many of the individual plantations have been combined into one and some have a different year or origin by only a 2-3 years.
23	42140 - Planted Mixed Pine	Low Density Pole	5.7	45	1-50	
24	42120 - Planted Jack Pine	High Density Pole	34.9	45	81-110	
25	42210 - Natural Red Pine	High Density Log	34.0	68	111-140	Red and white pine are seeding in in openings.
26	42220 - Natural Jack Pine	High Density Sapling	6.7	10		Formerly a V0 stand, filled in with natural mixed pine and doing well.
28	42110 - Planted Red Pine	High Density Log	40.3	54	81-110	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 55yrs and the jack pine is app. 38 yrs. More exact dates are available on the old 1985 OI map. I am using this broad satement because many of the individual plantations have been combined into one and some have a different year or origin by only a 2-3 years.
29	42210 - Natural Red Pine	Medium Density Log	50.3	70	1-50	Semi open patchy stand, aspen and red maple scattered throughout, does have a mix of age and size classes.
30	42200 - Natural White Pine	High Density Log	6.4	83	1-50	
31	42120 - Planted Jack Pine	High Density Pole	36.8	42	81-110	
32	42141 - Planted Mixed Pine, Mixed Deciduous	Low Density Log	10.1	60	51-80	Scattered oak.
33	42110 - Planted Red Pine	High Density Pole	46.8	54	81-110	Larger trees on the north end, thin next entry.
34	42140 - Planted Mixed Pine	High Density Log	37.7	50	81-110	RP- 60 80 20 JP- 20 30 60
35	42141 - Planted Mixed Pine, Mixed Deciduous	Medium Density Log	35.5	54	51-80	
36	4112 - Maple, Beech, Cherry Association	High Density Log	34.5	86	1-50	RM- 60, 40, 20 WP- 20 Hem- 10

s t	Shingleton		Report 8	– Forested	Stands Compartment: 109 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	42140 - Planted Mixed Pine	Medium Density Log	27.1	56	81-110	
39	42120 - Planted Jack Pine	High Density Pole	42.0	45	51-80	
40	42120 - Planted Jack Pine	High Density Pole	37.3	45	81-110	
41	42110 - Planted Red Pine	High Density Log	35.3	54	81-110	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 55yrs and the jack pine is app. 38 yrs. More exact dates are available on the old 1985 OI map. I am using this broad satement because many of the individual plantations have been combined into one and some have a different year or origin by only a 2-3 years.
42	42110 - Planted Red Pine	High Density Log	29.3	50	81-110	Ground cover indicates better site quality.
44	42141 - Planted Mixed Pine, Mixed Deciduous	Medium Density Pole	22.0	45	1-50	
45	4130 - Aspen	High Density Sapling	34.9	15		
46	42110 - Planted Red Pine	Low Density Pole	58.9	54	1-50	Start cutting some sites early to better balance out the age classes. Clear cut and replant to red pine.
47	42110 - Planted Red Pine	High Density Pole	111.4	54	81-110	Combination of 4 planted stands, thin next entry.
48	42120 - Planted Jack Pine	High Density Pole	63.4	50	81-110	Planted in 1959, 1963, 1971. Looks like it was jack pine the first 2 times and then white pine the 3rd time.
50	42140 - Planted Mixed Pine	High Density Pole	16.8	42	51-80	White pine plantation with poor stocking, fillied in with a mix of species-jack pine red pine and aspen.
52	42110 - Planted Red Pine	High Density Pole	38.1	54	81-110	
53	42110 - Planted Red Pine	Medium Density Pole	54.6	54	1-50	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 55yrs and the jack pine is app. 38 yrs. More exact dates are available on the old 1985 OI map. I am using this broad satement because many of the individual plantations have been combined into one and some have a different year or origin by only a 2-3 years.
54	42210 - Natural Red Pine	High Density Log	38.4	50	81-110	Very steep slope.

S t				Report 8	Forested	Stands Compartment: 109 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	42220 - Natural Jack Pine	Low Density Sapling	125.8	25		Old G0 that is now filling in with a mix of species.
57	42110 - Planted Red Pine	High Density Log	12.0	51	81-110	Strip on steep ridge.
58	42110 - Planted Red Pine	High Density Pole	38.2	42	51-80	
59	42110 - Planted Red Pine	Medium Density Pole	24.2	54	1-50	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 55yrs and the jack pine is app. 38 yrs. More exact dates are available on the old 1985 OI map. I am using this broad satement because many of the individual plantations have been combined into one and some have a different year or origin by only a 2-3 years.
60	42110 - Planted Red Pine	Low Density Pole	38.4	60	1-50	Very poor plantation, trees are very bushy, only 2-3 sticks tall.
61	42110 - Planted Red Pine	High Density Pole	12.1	54	51-80	Start cutting some sites early to better balance out the age classes. Clear cut and replant to red pine.
62	42110 - Planted Red Pine	Medium Density Pole	37.0	54	1-50	General comment for all the plantations in this compartment: All of these plantations have been planted multiple times and with different species. Generally red pine twice and then jack pine the 3rd to make a stocked stand. Red pine is app. 55yrs and the jack pine is app. 38 yrs. More exact dates are available on the old 1985 OI map. I am using this broad satement because many of the individual plantations have been combined into one and some have a different year or origin by only a 2-3 years.
63	429 - Mixed Upland Conifers	High Density Log	4.6	85	51-80	Steep slope to stream.
64	42110 - Planted Red Pine	Medium Density Pole	15.3	49	51-80	Part of a plantation that had failed.
65	42110 - Planted Red Pine	Medium Density Pole	12.0	49	81-110	
66	42110 - Planted Red Pine	Medium Density Pole	7.6	54	51-80	Start cutting some sites early to better balance out the age classes. Clear cut and replant to red pine.
67	42110 - Planted Red Pine	High Density Pole	36.3	49	141-170	RP- 150 110 170
69	6122 - Black Spruce	High Density Pole	31.7	85	51-80	Camp 7 creek- river and timber included in polygon, too difficult to meet mapping standards trying to seperated everything out. Stand will include all types of timber but mainly lowland conifer. Creek does dry out in the northwest.

S	Shingleto		Report 8	– Forested	Stands Compartment: 109 Year of Entry: 2015	
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	429 - Mixed Upland Conifers	High Density Pole	89.3	85		Mix of everything with varying topography (steep slopes to flat), consider all of it to be river buffer.
72	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	14.7	35	51-80	Site is a mix of everything that naturally regenerated.
73	42120 - Planted Jack Pine	Medium Density Pole	12.2	60	51-80	
74	42110 - Planted Red Pine	Medium Density Log	165.4	50	81-110	2-3 stick bushy red pine.
75	42110 - Planted Red Pine	Medium Density Log	51.3	57	51-80	
76	4133 - Aspen, Mixed Pine	High Density Sapling	41.7	5	1-50	Cut in 2008, aspen regenerating well. Scattered oak regen in the stand.
78	42210 - Natural Red Pine	High Density Log	75.7	85	51-80	R.P- 40 20 40 W.P- 20 60 20 J.P- 10
79	4130 - Aspen	High Density Pole	79.3	47	51-80	
80	4130 - Aspen	High Density Sapling	47.4	7		Opening maintainance done in 2006 Aspen is filling in the site.
81	42110 - Planted Red Pine	Medium Density Log	48.7	56	81-110	
82	42110 - Planted Red Pine	Medium Density Pole	62.4	56	51-80	
84	42260 - Natural Pine, Mixed Deciduous	Low Density Log	72.8	60	1-50	
85	42290 - Natural Mixed Pine	High Density Log	32.1	60	51-80	
86	42210 - Natural Red Pine	Medium Density Log	55.7	56	51-80	Very patchy, multipe old 10 acre plantations lumped together.
87	42120 - Planted Jack Pine	High Density Sapling	146.1	17	1-50	Northwest corner of stnad has a pocket of high density red pine and aspen.
89	42260 - Natural Pine, Mixed Deciduous	High Density Log	49.7	68	81-110	Nice white pine stand with aspen being somewhat codominant in areas. Aspen is healthy but poor quality, consider cutting in next entry to promote the aspen.
91	42110 - Planted Red Pine	High Density Log	6.5	60	111-140	RP- 170 80 120

S t a n d	Shingleton Mgt. Unit			Report 8	Forested S	Stands	Compartment: 109 Year of Entry: 2015	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	MICHIGAN .
92	4130 - Aspen	High Density Pole	9.3	50	1-50			
94	4130 - Aspen	Medium Density	10.3	12				
95	42110 - Planted Red Pine	High Density Log	26.0	50	111-140	3rd row thin, a	nd crown thin where rows are no removing 1/3 of the BA.	t present
96	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	16.0	56	81-110		rp- 110 30 120 aspen- 60	
97	429 - Mixed Upland Conifers	High Density Pole	18.0	85	51-80	River and bu	ffer, cannot deliniate better with i	magery.
98	42110 - Planted Red Pine	High Density Log	21.4	50	81-110	Open grown re	d pine, planted twice and still lov	v stocking.
99	4130 - Aspen	High Density Log	2.9	60	51-80	Small o	carry over from other compartme	nt.

50

112

1.5

1.7

1-50

1-50

Carry over from other compartment.

High Density Pole

Medium Density Pole

4130 - Aspen

6128 - Lowland Coniferous, Mixed Deciduous

100

102

Compartment: 109 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	6225 - Bog	3.9	No	Unspecified	
9	50 - Water	30.2	No	Unspecified	
11	3102 - Grass	5.3	No	Unspecified	Vernal pond.
12	6225 - Bog	3.7	No	Unspecified	
17	3105 - Mixed Upland Herbaceous	3.3	No	Unspecified	
27	3105 - Mixed Upland Herbaceous	157.9	Yes	Red Pine	new red pine plantation.
38	3105 - Mixed Upland Herbaceous	8.7	No	Unspecified	
43	3105 - Mixed Upland Herbaceous	7.4	No	Unspecified	
49	3105 - Mixed Upland Herbaceous	26.1	No	Unspecified	
51	310 - Herbaceous Openland	1141.5	Unspecified	Unspecified	
55	3105 - Mixed Upland Herbaceous	17.8	No	Unspecified	
68	3105 - Mixed Upland Herbaceous	2.6	No	Unspecified	
71	3105 - Mixed Upland Herbaceous	47.3	No	Unspecified	
77	310 - Herbaceous Openland	35.3	Unspecified	Unspecified	
83	3105 - Mixed Upland Herbaceous	184.3	No	Unspecified	lots of J.pine seedlings in north 1/2
88	3105 - Mixed Upland Herbaceous	13.1	Natural Regen	Natural Mixed Pines	
90	310 - Herbaceous Openland	159.3	Unspecified	Unspecified	
93	3105 - Mixed Upland Herbaceous	16.6	Yes	Low	

Report 9 - Nonforested Stands

Compartment: 109 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
101	3102 - Grass	20.4	No	Unspecified	Check MNFI if considering any type of management.
103	3105 - Mixed Upland Herbaceous	184.3	Plantation	Red Pine	