

Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 225
Entry Year 2015

Acreage: 813

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 05/10/2013

Stand Examiner: Dean Wilson

Legal Description:

T46N-R29W, sections 26, 32, 35, 36.

Identified Planning Goals:

Mixed use.

Soil and topography:

Soils range from sand to loamy sand in the uplands and organic mucks and peats in the lowlands. Topography renges from level to rolling to moderately hilly.

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

The tracts that comprise this compartment are bordered by State, corporate, and non-industrial ownerships. Land use is dominated by forest production and passive recreation.

Unique Natural Features:

Long Lake and a stretch of the Michigamme River occur in this compartment.

Archeological, Historical, and Cultural Features:

The Navy's abandoned project ELF was centered in this compartment.

Special Management Designations or Considerations:

Best management practices will be used to protect the water features in this compartment.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Compartment 225 is found within the Chain Lakes Management Area; which is a Disintegration Moraine in Southwestern Marquette County. The State Forest covers about 84,600 acres and is mostly contiguous. State Forest Lands are the major ownership in this vicinity. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. Major forest cover types include Aspen, Mixed Lowland Conifer, and Jack Pine. In general, this area has a mid-range site quality. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. Some of the most significant wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; course woody debris; and retention or development of large living and dead standing trees (for cavities). Wildlife Division would like to increase the oak resource within this management area and to optimize acorn production. This management area represents approximately ¼ of the oak resource on WUP state forest. In addition to promoting mast crops another priority is to maintain or increase wildlife corridors especially along riparian corridors.

The following have been identified as featured species for the Chain Lakes Management Area: Black bear, Gray Jay, Pileated Woodpecker, Northern Goshawk, Red Crossbill. However, the featured species concept does not preclude the management for other wildlife species within a particular MA, rather it is simply intended to be as a tool to help prioritize or focus habitat management.

For lands purchased with Pittman–Robertson Act or Game and Fish funds, the primary objective of vegetative management must be wildlife restoration.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and peat and muck. The glacial drift thickness varies between 50 and 100 feet or there is insufficient data. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as a building or dimension stone. Gravel pits are not located in the area, but potential may be good.

The abandoned Republic iron mine is located two miles to the north. Part of the compartment was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Is generally good to and around this compartment.

Survey Needs:

None.

Recreational Facilities and Opportunities:

There are no developed recreational facilities in this compartment.

Fire Protection:

Portions of this compartment fall within the 581 zone dispatch area.

Additional Compartment Information:

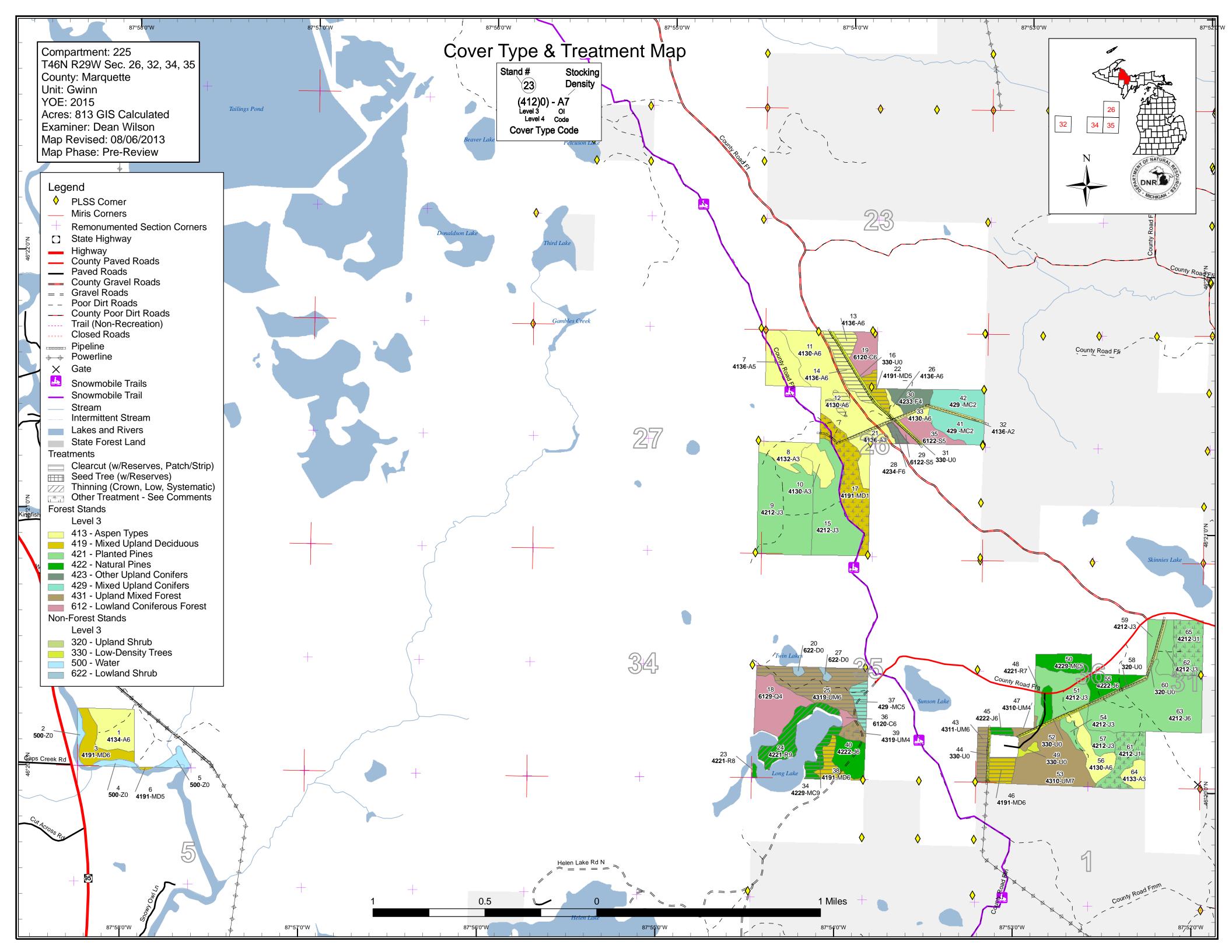
The following reports from the Inventory are attached:

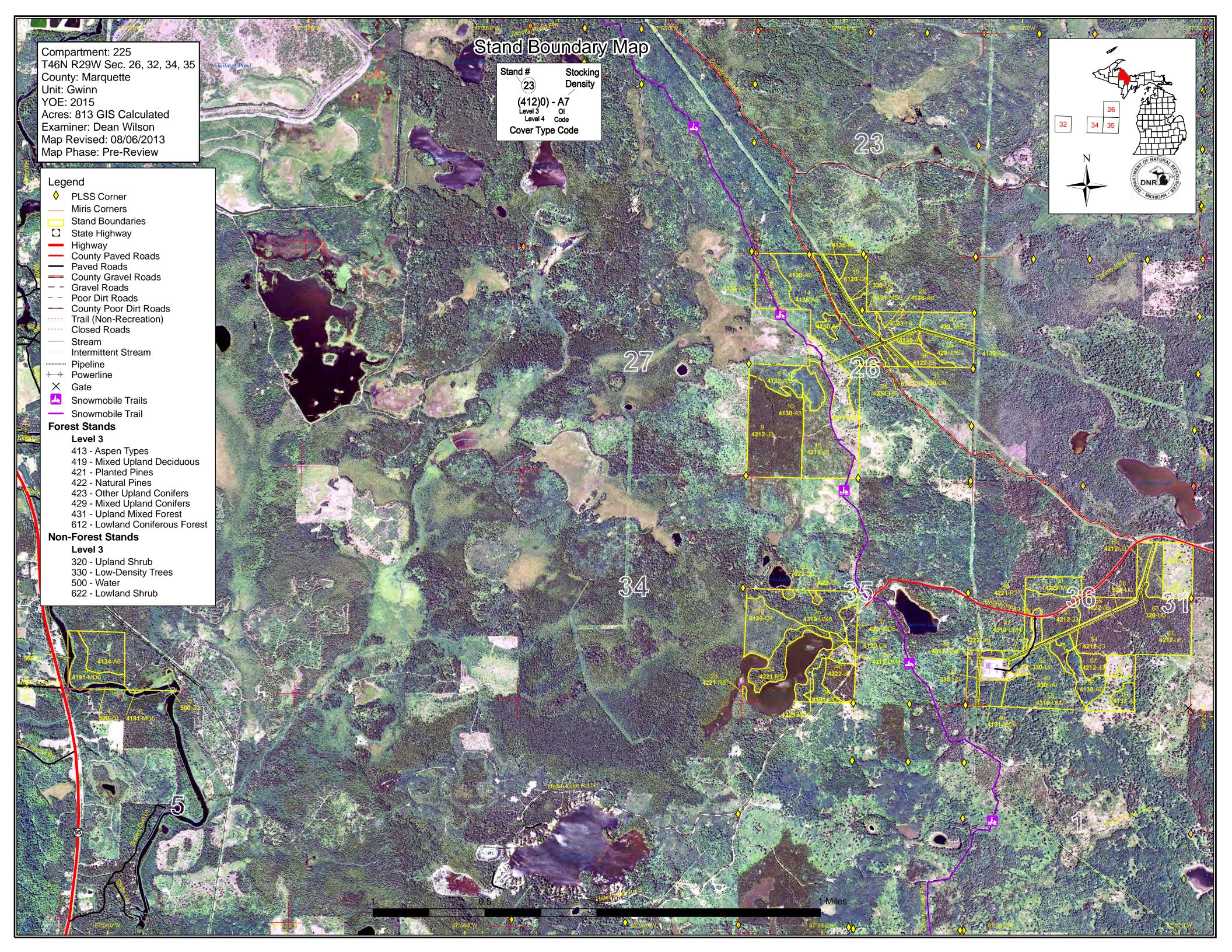
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

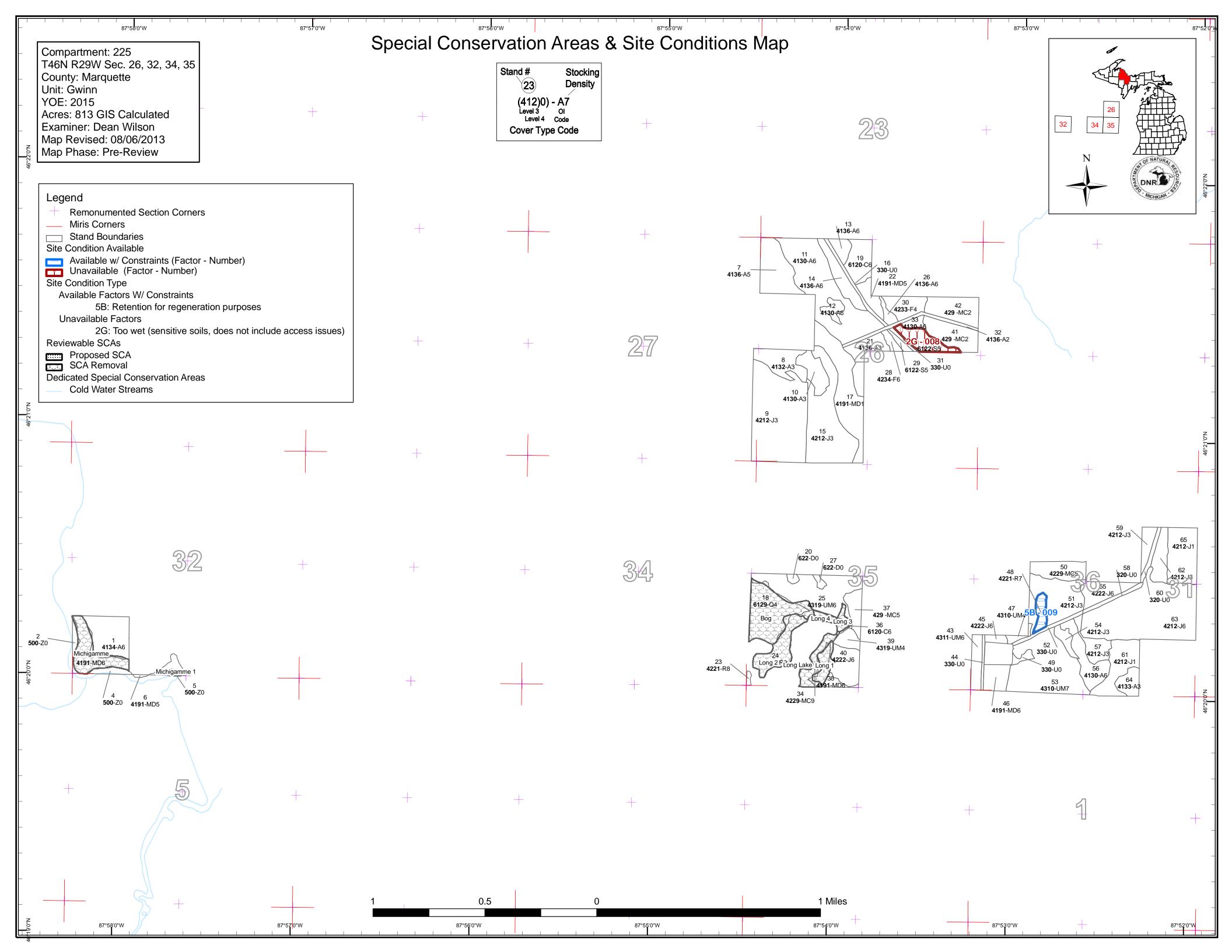
The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries

Details on the road access system







Compartment 225 Year of Entry 2015

Gwinn Mgt. Unit

Dean Wilson: Examiner



						Age	Class									
		60	0,0	Park /	Now No.	and a second	\$2,50	00 00 /	na /	Ser Ser	85%	00,00	72,73	No. Ju	S A A	
Aspen	12	10	113	5	21	15	4	0	0	0	0	0	0	0	180	
Cedar	0	0	0	0	0	0	0	2	0	12	0	0	0	0	14	
Jack Pine	39	56	101	81	14	0	0	0	2	0	0	0	0	0	292	
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Lowland Conifers	0	0	0	0	0	0	0	27	0	0	0	0	0	0	27	1
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12	
Mixed Upland Deciduous	32	0	0	0	0	6	0	24	8	0	0	0	0	0	70	
Natural Mixed Pines	0	0	12	0	0	0	0	7	0	0	0	0	0	0	19	
Red Pine	0	0	0	0	0	0	0	17	1	5	0	0	0	0	22	1
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Upland Conifers	0	0	31	0	0	0	7	0	0	0	0	0	0	0	38	1
Upland Mixed Forest	0	0	0	0	5	35	7	0	47	0	0	0	0	0	95	1
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	1
Upland Spruce/Fir	0	0	0	10	0	3	0	0	0	0	0	0	0	0	12	1
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1
Total	114	66	257	96	39	59	18	77	70	17	0	0	0	0	813]



Report 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit Year of Entry 2015

Compartment 225
Total Compartment Acres: 813

Acres by Treatment Type

Commercial Harvest - 120 T

Tree Planting - 2

Other - 76

Habitat Cut - 0

Opening Maintenance - 0

	Cover Type by Harvest Method								
		/		Social of	N. S. S.	Steen of	Cristing OF		Se A
Aspen Types		19	0	0	0	0	0	19	
Mixed Upland Conifers		7	0	0	0	0	0	7	
Mixed Upland Deciduous		22	0	0	0	0	0	22	
Natural Pines		9	0	0	0	17	0	26	
Other Upland Conifers		0	0	3	0	0	0	3	
Upland Mixed Forest		43	0	0	0	0	0	43	
	Total	100	0	3	0	17	0	120	

Compartment: 225 Gwinn 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** Cmpt. Review 32225012-Cut 3.9 4130 - Aspen High 111-140 Harvest Clearcut 4130 - Aspen 12 63 Density Proposal Pole Prescription Clear cut. Specs: Other No reserves; however, leave 10 to 15 of the larger big tooth aspen alont the edges of this stand. Comments: <u>Next</u> Check regeneration per work instructions. Steps: <u>Proposed</u> Start Date: 10/01/2014 32225013-Cut 4.4 4136 - Aspen, High 81-110 Harvest Clearcut with 4136 - Aspen, Cmpt. Review Mixed Conifer Mixed Conifer Reserves Proposal Density Pole Prescription Clear cut with reserves. Specs: <u>Other</u> Retain the white pine. Mark three to six red pine per acre for retention. Mark six white birch per acre and leave 5 to 10 of the larger big tooth aspen along the edges for seed trees and wildlife. Comments: Check for regeneration per work instructions. <u>Next</u> Steps: **Proposed** 10/01/2014 Start Date: 32225014-Cut 10.8 4136 - Aspen. High 57 81-110 Harvest Clearcut with 4136 - Aspen. Cmpt. Review 14 Mixed Conifer Density Reserves Mixed Conifer Proposal Pole Prescription Clear cut with reserves. Specs: Other Retain the white pine. Mark three to six red pine and white birch per acre and leave 10 to 15 of the lager big tooth aspen along the edges for retention and wildlife.. Comments:

Check for regeneration per work instructions. Next

Steps:

Proposed

10/01/2014 Start Date:

32225022-Cut 5.8 4191 - Mixed Medium 57 1-50 Clearcut with 4191 - Mixed Cmpt. Review 22 Harvest **Upland Deciduous** Upland Deciduous Density Reserves Proposal with Conifer

Pole

with Conifer

Prescription Clear cut with reserves.

Specs:

<u>Other</u> Retain the white pine, big tooth aspen, and mark 3 to six red pine and white birch per acre for retention and seed.

Comments:

Check regeneration per work instructions.

Next Steps:

Proposed

Start Date: 10/01/2014

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 225 Year of Entry 2015

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a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24	32225024-Cut	16.8	42210 - Natural Red Pine	High Density Log	78 J	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Mark individual trees to attain a basal area of 90 to 100 square feet per acre. Maintain a 100 foot buffer untouched along the lake shore.

Specs:

S

<u>Other</u> Retain all the white pine and white birch..

Comments:

Determine silvicultural needs next entry. Next

Steps:

Proposed

10/01/2014 Start Date:

35.4 4319 - Mixed High 57 81-110 Harvest Clearcut with 4319 - Mixed Cmpt. Review 25 32225025-Cut **Upland Forest** Density Reserves **Upland Forest** Proposal

Pole

Prescription Clear cut with reserves.

Specs:

<u>Other</u> Retain all white pine and white spruce. Mark six white birch per acre to leave for wildlife.. Do not cut red pine that have a Dbh of 20 inches or

Comments:

<u>Next</u> Check regeneration per work instructions.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

32225028-Cut 2.6 42340 - Upland High 57 1-50 Harvest Seed Tree with 42340 - Upland Cmpt. Review 28 Spruce/Fir Reserves Spruce/Fir Proposal Density

Pole

Prescription Mark ten to fifteen spruce or balsam fir trees per acre for seed trees. Mark six to ten red pine trees per acre for retention and seed.

Specs:

White pine should be retained if it occurs and leave 3 to 6 of the larger big tooth aspen along the edges. Other |

Comments:

<u>Next</u> Check regeneration per work instructions.

Steps:

34

<u>Proposed</u>

10/01/2014 Start Date:

32225034-Cut 7.1 42290 - Natural High 78 81-110 Harvest Clearcut with 42290 - Natural Cmpt. Review Mixed Pine **Density Log** Reserves Mixed Pine Proposal

Prescription Harvest all trees that are not red or white pine and cedar. Mark individual red pine for harvest where this tree's basal area exceeds 100 square feet per acre reducing it to 80. Leave a 100 foot buffer untouched along the lake shore. Specs:

<u>Other</u>

Retain all the white pine and mark 6 to 10 white birch per acre for retention, seed trees, and wildlife. Comments:

<u>Next</u> Steps:

Check regeneration per work instructions.

Proposed

Start Date: 10/01/2014

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 225 Year of Entry 2015

OEPARIMEN	DNR MICHIGAN
`	MICHIGAN

t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37	32225037-Cut	7.0	429 - Mixed Upland Conifers	Medium Density Pole	66	51-80	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
Pres Spec	<u>cription</u> Clear cu	t with res	erves.							

s

Other Retain all red pine and tamarack. Leave 5 to 10 of the larger big tooth aspen along the edges. Mark 5 to 6 spruce trees per acre for seed..

Comments:

<u>Next</u> Check regeneration per work instructions.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

38 32225038-Cut 8.3 4191 - Mixed High 111-140 Harvest Clearcut with 4191 - Mixed Cmpt. Review **Upland Deciduous** Reserves **Upland Deciduous** Proposal Density with Conifer Pole with Conifer

Prescription Clear cut with reserves.

Specs:

<u>Other</u> Retain all red and white pine. Leave 5 to 10 of the larger big tooth aspen along the sale edges. Mark six to ten white birch per acre for retention,

seed, and wildlife. Comments:

Check regeneration per work instructions. <u>Next</u>

Steps:

Proposed

Start Date: 10/01/2014

32225043-Cut 7.3 4311 - Pine, Aspen High 68 81-110 Harvest Clearcut with 4311 - Pine, Aspen Cmpt. Review 43 Mix Density Reserves Mix Proposal

Pole

Prescription Clear cut with reserves.

Specs:

<u>Other</u> Retain all the oak and white pine. Leave 5 to 10 of the larger big tooth aspen along the sale edges. Mark 3 to 6 red pine per acre to leave.

Comments:

Next Check regeneration per work instructions.

Steps:

Proposed

10/01/2014 Start Date:

45 32225045-Cut 2.2 42220 - Natural High 88 81-110 Harvest Clearcut 42120 - Planted Cmpt. Review Jack Pine Density Jack Pine Proposal

Pole

Prescription Clear cut all trees excluding oak. All oak are to be retained.

Specs:

Other Following harvest disk trench and direct seed to jack pine.

Comments:

Check regeneration per work instructions.

Next Steps:

Proposed Start Date: 10/01/2014

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 225 Year of Entry 2015

Deciduous

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`	MICHIGAN	

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
46	32225046-Cut	8.3	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	85	81-110	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Clear cut all trees excluding oak, red pine, and white pine. Mark 10 oak, 3 to 6 white birch, and 3 to 6 red and white pine per acre for retention.

Specs:

S

Other Leave 5 to 10 of the larger big tooth aspen along the sale edges for wildlife.

Comments:

<u>Next</u> Check regeneration per work instructions.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

17 32225017-32.2 4191 - Mixed Low 5 1-50 Other Unspecified 42120 - Planted Cmpt. Review **Upland Deciduous** . Proposal Density Jack Pine Other

with Conifer Sapling

Prescription Check regeneration following trenching and seeding efforts in 2010.

Specs:

Hand plant 2-0 jack pine seedling if regeneration is insufficient. Other

Comments:

Follow up to insure regeneration meets guidleines. <u>Next</u>

Steps:

Proposed

Start Date: 10/01/2015

39 32225039-4.9 4319 - Mixed Low 40 1-50 Other Unspecified 42121 - Planted Cmpt. Review Other **Upland Forest** Density Jack Pine, Mixed Proposal Pole Deciduous

Prescription Check regeneration of the 2010 trenching and direct seeding project.

Specs:

<u>Other</u> If regeneration is inadequate, hand plant 2-0 jack pine in existion trenches.

Comments:

Next Make sure that regeneration meets guidelines.

Steps:

Proposed

10/01/2015 Start Date:

42121 - Planted 61 32225061-17.7 42120 - Planted Low 8 Other Unspecified Cmpt. Review Jack Pine, Mixed Other Jack Pine Density Proposal

Prescription Check regeneration to insure last reforestation attempt was successful.

Sapling

Specs:

Other Hand plant 2-0 jack pine seedlings if stocking is inadequate.

Comments:

Monitor to insure stocking meets guidelines.

Next Steps:

Proposed

Start Date: 10/01/2015 Gwinn Mgt. Unit Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 225 Year of Entry 2015 DNR MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
65	32225065- Other	21.1	42120 - Planted Jack Pine	Low Density Sapling	8		Other	Unspecified	42120 - Planted Jack Pine	Cmpt. Review Proposal

<u>Prescription</u> Check regeneration to affirm last reforestation effort was successful.

Specs:

s

Other Hand plant 2-0 jack pine if stocking is inadequate.

Comments:

Next Monitor to insure that stocking meets guidelines.

Steps:

Proposed

Start Date: 10/01/2013

Total Treatment

Acreage Proposed: 195.7

Gwinn Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 225 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! **Prescription** Specs: Other Comment: **Next** Steps: Proposed

Total Treatment

#Type!

Start Date: # Limiting Factor

Acreage Proposed: 0

Report 5 – Site Conditions

Gwinn Mgt. Unit

Dean Wilson: Examiner

Compartment 225 Year of Entry 2015

Availa	ability for I	Management				
Total	Acres	Acres		Domina	nt Sit	e Cond
Acres	Available	Not Available		No	5B	2G
180	180		Aspen	180		
14	14		Cedar	14		
292	292		Jack Pine	292		
27	27		Lowland Conifers	27		
12	2	10	Lowland Spruce/Fir	2		10
70	70		Mixed Upland Deciduous	70		
19	19		Natural Mixed Pines	19		
22	22		Red Pine	18	5	
38	38		Upland Conifers	38		
95	95		Upland Mixed Forest	95		
12	12		Upland Spruce/Fir	12		
782	772	10	Total Forested Acres	767	5	10
	99%	1%	Relative Percent		•	3

*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
800	Not Available	2G: Too wet (sensitive soils, does not include access issues)	10				
	omments: ow volumes/small o	diameters.					
009	Available	5B: Retention for regeneration purposes	5				
C	omments:						

Compartment: 225
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
Michigamme 1 Comments Riparin zone.	Spring-Seeps, Riparian Areas	Riparian Area	SCA	0.3
Long 4 Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	1.9
Long 3 Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	2.9
Long 1 Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	5.7
Long Lake Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	7.9
Long 2 Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	14.9
Michigamme Comments Use BMP	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	16.6
Bog Comments Patches of larger timber	Spring-Seeps, Riparian Areas er, but also much of stand isn't much mo	Riparian Area re than a treed bog. Some ceda	SCA Removal	27.7

Compartment: 225
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 physic sites of cultural and historical significance that may occur upo bottomlands. They include thousands of Native American set and British outposts, nineteenth century logging camps, minethe Great Lakes, there are shipwrecks and other remains doe be identified by Natural heritage data from the State Historic I this compartment will be implemented in such a manner as to the sensitive nature of this information, no further detail about	on terrestrial areas and Great Lakes tlements and burial sites, as well as French es and homesteads. Beneath the waters of cumenting the maritime trade. Such sites may Preservation Office. Proposed treatments in a maintain the integrity of these sites. Due to
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen of stocked trout populations and those of other coldwater fish spear to year. Coldwater streams in Michigan typically provide contributions of groundwater to their stream flows. Such streadesignated as trout resources by Fisheries Order 210.	pecies (e.g., slimy sculpin) to persist from these conditions due to substantial

Gwinn Mgt. Unit			Report 8	Forested	Stands Compartment: 225 Year of Entry: 2015
Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4134 - Aspen, Spruce/Fir	High Density Pole	20.7	43	51-80	Harvested in 1970: TS# 24-70.
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	15.3	73	51-80	Remove from SCA status and harvest with stand 1 next entry.
4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	0.4	73	51-80	SCA = Riparian zone protection.
4136 - Aspen, Mixed Conifer	Medium Density Pole	20.9	27	1-50	Harvested in 1986: TS# 6-85.
4132 - Aspen, Jack Pine	High Density Sapling	13.8	24	1-50	Harvested in 1989: TS# 4-85.
42120 - Planted Jack Pine	High Density Sapling	63.0	21	1-50	Harvested in 1989: TS#4-85. Trenched and hand planted in 1992.
4130 - Aspen	High Density Sapling	9.7	16		Harvested in 1997: TS# 6-95.
4130 - Aspen	High Density Pole	51.2	27	1-50	Harvested in 1986: TS# 6-85.
4130 - Aspen	High Density Pole	3.9	63	111-140	Clear cut with reserves.
4136 - Aspen, Mixed Conifer	High Density Pole	4.4	57	81-110	Clear cut with reserves.
4136 - Aspen, Mixed Conifer	High Density Pole	10.8	57	81-110	Clear cut with reserves.
42120 - Planted Jack Pine	High Density Sapling	41.9	15		Harvested in 1997: TS# 6-95. Trenched and direct seeded in 1998.
4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	32.2	5	1-50	Harvested in 2008: TS# 108-05-01. Trenched and direct seeded in 2010.
6129 - Mixed Coniferous Lowland Forest	Low Density Pole	26.6	70	1-50	Margionally non-productive.
6120 - Lowland Cedar	High Density Pole	12.4	93	141-170	
4136 - Aspen, Mixed Conifer	High Density Sapling	12.5	27	1-50	Harvested in 1986: TS# 6-85.
4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	5.8	57	1-50	Clear cut with reserves.
42210 - Natural Red Pine	Medium Density Log	0.7	85	1-50	SCA = Riparian Zone protection for Long Lake.
	Level 4 Cover Type 4134 - Aspen, Spruce/Fir 4191 - Mixed Upland Deciduous with Conifer 4191 - Mixed Upland Deciduous with Conifer 4136 - Aspen, Mixed Conifer 4130 - Aspen 4136 - Aspen, Mixed Conifer 4136 - Aspen, Mixed Conifer 4191 - Mixed Upland Deciduous with Conifer 6129 - Mixed Coniferous Lowland Forest 6120 - Lowland Cedar 4136 - Aspen, Mixed Coniferous Lowland Forest 6120 - Lowland Cedar 4136 - Aspen, Mixed Coniferous Lowland Forest 6120 - Lowland Cedar	Level 4 Cover Type 4134 - Aspen, Spruce/Fir 4191 - Mixed Upland Deciduous with Conifer 4191 - Mixed Upland Deciduous with Conifer 4136 - Aspen, Mixed Conifer 4130 - Planted Jack Pine 4130 - Aspen 4130 - Bersity Pole 4136 - Aspen, Mixed Conifer 4136 - Aspen, Mixed Pole 4136 - Aspen, Mixed Conifer 4130 - Aspen 4191 - Mixed Upland Deciduous with Conifer 6129 - Mixed Conifer 6120 - Lowland Cedar Forest 6120 - Lowland Cedar High Density Pole 4136 - Aspen, Mixed Low Density Sapling 4191 - Mixed Upland Deciduous with Conifer 4136 - Aspen, Mixed Conifer 6120 - Lowland Cedar High Density Pole 4136 - Aspen, Mixed Conifer 4136 - Aspen, Mixed Conifer 6120 - Lowland Cedar High Density Sapling 4191 - Mixed Upland Deciduous with Conifer 4191 - Mixed Upland Deciduous with Conifer	Level 4 Cover TypeSize DensityAcres4134 - Aspen, Spruce/FirHigh Density Pole20.74191 - Mixed Upland Deciduous with ConiferHigh Density Pole15.34191 - Mixed Upland Deciduous with ConiferMedium Density Pole0.44136 - Aspen, Mixed ConiferMedium Density Pole20.94132 - Aspen, Jack Pine PineHigh Density Sapling13.842120 - Planted Jack PineHigh Density Sapling9.74130 - AspenHigh Density Sapling51.24130 - AspenHigh Density Pole3.94136 - Aspen, Mixed ConiferHigh Density Pole10.84136 - Aspen, Mixed ConiferHigh Density Pole10.84136 - Aspen, Mixed ConiferHigh Density Pole10.84136 - Aspen, Mixed ConiferHigh Density Sapling10.84191 - Mixed Upland Deciduous with ConiferLow Density Sapling32.26129 - Mixed Coniferous Lowland ForestLow Density Sapling26.66120 - Lowland Cedar ForestHigh Density Sapling12.44136 - Aspen, Mixed ConiferHigh Density Pole12.44136 - Aspen, Mixed ConiferHigh Density Pole12.54191 - Mixed Upland Deciduous with ConiferHigh Density Pole12.54191 - Mixed Upland Deciduous with ConiferMedium Density Pole5.8	Level 4 Cover Type Size Density Acres Stand Age 4134 - Aspen, Spruce/Fir High Density Pole 20.7 43 4191 - Mixed Upland Deciduous with Conifer High Density Pole 15.3 73 4191 - Mixed Upland Deciduous with Conifer Medium Density Pole 0.4 73 4136 - Aspen, Mixed Conifer Medium Density Pole 20.9 27 4132 - Aspen, Jack Pine High Density Sapling 13.8 24 42120 - Planted Jack Pine High Density Sapling 63.0 21 4130 - Aspen High Density Sapling 9.7 16 4130 - Aspen High Density Pole 3.9 63 4136 - Aspen, Mixed Conifer High Density Pole 4.4 57 4136 - Aspen, Mixed Conifer High Density Pole 10.8 57 4191 - Mixed Upland Deciduous with Conifer Low Density Sapling 32.2 5 6129 - Mixed Coniferous Lowland Forest Low Density Pole 26.6 70 6120 - Lowland Cedar Forest High Density Pole 12.4 93 4136 - Aspen, Mixed Conifer </td <td>Level 4 Cover Type Size Density Acres Stand Age BA Range 4134 - Aspen, Spruce/Fir High Density Pole 20.7 43 51-80 4191 - Mixed Upland Deciduous with Conifer High Density Pole 15.3 73 51-80 4191 - Mixed Upland Deciduous with Conifer Medium Density Pole 0.4 73 51-80 4136 - Aspen, Mixed Conifer Medium Density Pole 20.9 27 1-50 4132 - Aspen, Jack Pine Pine High Density Sapling 13.8 24 1-50 4130 - Aspen, Jack Pine Pine High Density Sapling 9.7 16 </td>	Level 4 Cover Type Size Density Acres Stand Age BA Range 4134 - Aspen, Spruce/Fir High Density Pole 20.7 43 51-80 4191 - Mixed Upland Deciduous with Conifer High Density Pole 15.3 73 51-80 4191 - Mixed Upland Deciduous with Conifer Medium Density Pole 0.4 73 51-80 4136 - Aspen, Mixed Conifer Medium Density Pole 20.9 27 1-50 4132 - Aspen, Jack Pine Pine High Density Sapling 13.8 24 1-50 4130 - Aspen, Jack Pine Pine High Density Sapling 9.7 16

S	Gwinn	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 225 Year of Entry: 2015
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42210 - Natural Red Pine	High Density Log	16.8	78	111-140	Remove from old growth and thin favoring the retention of white pine.
25	4319 - Mixed Upland Forest	High Density Pole	35.4	57	81-110	Clear cut with reserves.
26	4136 - Aspen, Mixed Conifer	High Density Pole	2.6	35	1-50	
28	42340 - Upland Spruce/Fir	High Density Pole	2.6	57	1-50	Clear cut with reserves.
29	6122 - Black Spruce	Medium Density Pole	1.8	87	1-50	
30	42330 - Upland Fir	Low Density Pole	9.7	36	1-50	Harvested from 1975 to 1980: TS# 22/74.
32	4136 - Aspen, Mixed Conifer	Medium Density	5.6	8		
33	4130 - Aspen	High Density Pole	2.7	37	1-50	Harvested in 1976: TS# 22/74.
34	42290 - Natural Mixed Pine	High Density Log	7.1	78	81-110	Remove from sca and conduct a shelterwood harvest. Minor lowland inclusions along lake shore are not to be treated.
35	6122 - Black Spruce	Medium Density Pole	10.1	87	1-50	Margionally productive.
36	6120 - Lowland Cedar	High Density Pole	2.1	70	1-50	SCA = Riparian zone protection for Long Lake.
37	429 - Mixed Upland Conifers	Medium Density Pole	7.0	66	51-80	Clear cut with reserves.
38	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	8.3	78	111-140	Remove from SCA. Clear cut with reserves
39	4319 - Mixed Upland Forest	Low Density Pole	4.9	40	1-50	Partially cut in 2008: TS# 108-05-01. Trenched and direct seeded in 2010.
40	42220 - Natural Jack Pine	High Density Pole	13.6	43	81-110	Scarified and broadcast seeded in 1970.
41	429 - Mixed Upland Conifers	Medium Density	15.4	23		Harvested in 1990: TS# 5-85.
42	429 - Mixed Upland Conifers	Medium Density	15.7	23		Harvested in 1990: TS# 5-85.
43	4311 - Pine, Aspen Mix	High Density Pole	7.3	68	81-110	Clear cut with reserves.

S t	Gwin	Gwinn Mgt. Unit			– Forested	Stands Compartment: 225 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	42220 - Natural Jack Pine	High Density Pole	2.2	88	81-110	Clear cut followed by refoestation with jack pine.
46	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	8.3	85	81-110	Clear cut with reserves.
47	4310 - Pine, Oak Mix	Low Density Pole	1.8	85	1-50	Harvested by partial cutting in 2006: TS# 109-05-01.
48	42210 - Natural Red Pine	Low Density Log	4.6	90	1-50	Harvested in 2006: TS#109-05-01.
50	42290 - Natural Mixed Pine	Medium Density Pole	12.1	24	1-50	Harvested in 1989: TS# 7-85. Two storied stand.
51	42120 - Planted Jack Pine	High Density Sapling	25.5	21	1-50	Harvested in 1989: TS# 7-85. Planted in 1992.
53	4310 - Pine, Oak Mix	Low Density Log	45.2	85	1-50	Harvested by partial cutting in 1996: TS# 7-95. Two storied stand.
54	42120 - Planted Jack Pine	High Density Sapling	4.0	21		Harvested in 1989: TS# 7-85. Planted in 1992.
55	42220 - Natural Jack Pine	High Density Pole	10.9	39	1-50	Harvested in 1972: TS# 5-7A. Sit was scarified and broadcast seeded in 1974.
56	4130 - Aspen	High Density Pole	14.4	23	1-50	Pole sized in the north turning to more sapling size to the south due to site conditions.
57	42120 - Planted Jack Pine	High Density Sapling	8.4	21		Harvested in 1989: TS# 7-85. Planted in 1992.
59	42120 - Planted Jack Pine	High Density Sapling	5.4	17		Harvested in 1996: TS# 7-95. Trenched and direct seeded.
61	42120 - Planted Jack Pine	Low Density Sapling	17.7	8		Harvested in 2005: TS# 109-05-01. Trenched and seeded with poor results. Followed up with hand planting.
62	42120 - Planted Jack Pine	High Density Sapling	9.1	17		Harvested in 1996: TS# 7-95. Trenched and direct seeded.
63	42120 - Planted Jack Pine	High Density Pole	69.8	39	1-50	Harvested in 1972: TS# 5/71A. Planted in 1974.
64	4133 - Aspen, Mixed Pine	High Density Sapling	6.6	8		Harvested in 2005: TS# 109-05-01.
65	42120 - Planted Jack Pine	Low Density Sapling	21.1	8		Harvested in 2005: TS# 110-05-01. Was trenched and seeded which failed. Followed up with hand planting.

Report 9 - Nonforested Stands

Compartment: 225 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	50 - Water	2.8	No	Unspecified	
4	50 - Water	3.1	No	Unspecified	
5	50 - Water	4.4	No	Unspecified	
16	3303 - Mixed Low Density Trees	4.0	No	Unspecified	
20	6224 - Treed Bog	1.2	No	Unspecified	
27	6224 - Treed Bog	1.3	No	Unspecified	
31	3303 - Mixed Low Density Trees	1.5	No	Unspecified	
44	3301 - Low Density Deciduous Tree	1.7	No	Unspecified	
49	3302 - Low Density Conifer Trees	2.0	No	Unspecified	
52	3301 - Low Density Deciduous Tree	3.3	No	Unspecified	
58	3205 - Mixed Upland Shrub	2.9	No	Unspecified	
60	3205 - Mixed Upland Shrub	2.8	No	Unspecified	