

Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 30 Entry Year 2015

Acreage: 2,477

County Osceola

Management Area: Evart Block

Revision Date:

Stand Examiner: Cheryl Nelson

Legal Description:

T18N, R09W, Sections 2-4, 10, 11

Identified Planning Goals:

Balance age-class distributions for aspen and regenerating oak.

Soil and topography:

Chelsea-Rubicon-Montcalm association (sands). Terrain is rolling and there are some steep hills within the compartment.

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

The state ownership is in contiguous blocks. Sections 10 and 11 have large areas of private ownership.

Unique Natural Features:

Common loon just south of sections 4 and 11 and to the west and north/northeast. Blanding's turtle to south. Slippershell mussel to southeast. Wood turtle to southeast. Potential for secretive locust and ebony boghaunter in bogs. Potential for dusted skipper, grizzled skipper, and red-legged spittlebug in grassy openings.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Fisheries Division has no objection to the proposed 2015 YOE forest treatments for Compartment 30. (R. O'Neal, 8/23/2013).

Wildlife Habitat Considerations:

This compartment is located in the Highplains Ecosystem, Cadillac Subsection, LTA 1121. Soils in this area are characterized by well-drained loamy sands. The surrounding landscape is primarily forested with the exception of the areas surrounding the community of Evart to the southeast. Historically, this area was composed of mesic forest types. Presently, early serial stage northern and central hardwoods dominate the landscape, with a mixed pine component present, mostly plantings. Regeneration of the oak component both within the aspen and northern hardwood types is a concern for long term sustainability. Red maple and cherry generally regenerate well in heavily thinned stands. Wildlife habitat objectives are to continue to manage for high structural diversity within stands and age class diversity across the compartment, including early successional stands that benefit species such as ruffed grouse, and white tail deer. Down and dead woody debris is a consideration for aspen and hardwood stands. (P. Kailing 8/19/13).

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 800 and 1,000 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. The nearest gravel pit is three miles to the southeast, but gravel potential is considered to be good. The compartment lies two miles northwest of Evart Field. The field has produced over 3.8 million BO from the Devonian Dundee Limestone and over 5 Bcf gas from the Stray sandstone. Several older shallow wells have been drilled in this area without success. Section 2 is currently leased for oil and gas development and also nonmetallic mineral potash exploration. (T. Hoane, 3/6/2013).

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for closure. These roads were determined to be in excess of the access needs in the area, are a

threat to the resources, or are a concern environmentally.

Survey Needs:

None.

Recreational Facilities and Opportunities:

A 1/2 mile of the Evart Motorcycle Trail runs north/south along the Southwestern boundary of this compartment. The Evart Motorcycle trail is designated by a directors order as a cycle trail only, therefore, efforts to keep the trail narrow are encouraged. Providing for "leave trees" and protecting understory brush at locations where larger ORV's could enter the cycle only trail are preferred management tools in this trail area. Trees harvested directly adjacent to the trail should be cut flush to the ground to reduce accidents caused by stumps. Additional trail protection specifications should be considered to reduce impacts to trail users, as well as serve as an example of how sound timber harvesting methods can co-exist, and often improve recreation and wildlife experiences for future generations. Additional recreation activities include gathering of berries, and mushrooms. (T.M.N. 7-8-13).

Fire Protection:

Very few fires have started in the compartment. Fuels during early season could cause a larger fire. Recreational opportunities would be the main cause of any fire starts. Most of the unit has limited access with only a limited maintenance county road crossing through. The remote location increases the likelihood of a wildfire going undetected for an extended period of time. (B. Tower, 2013).

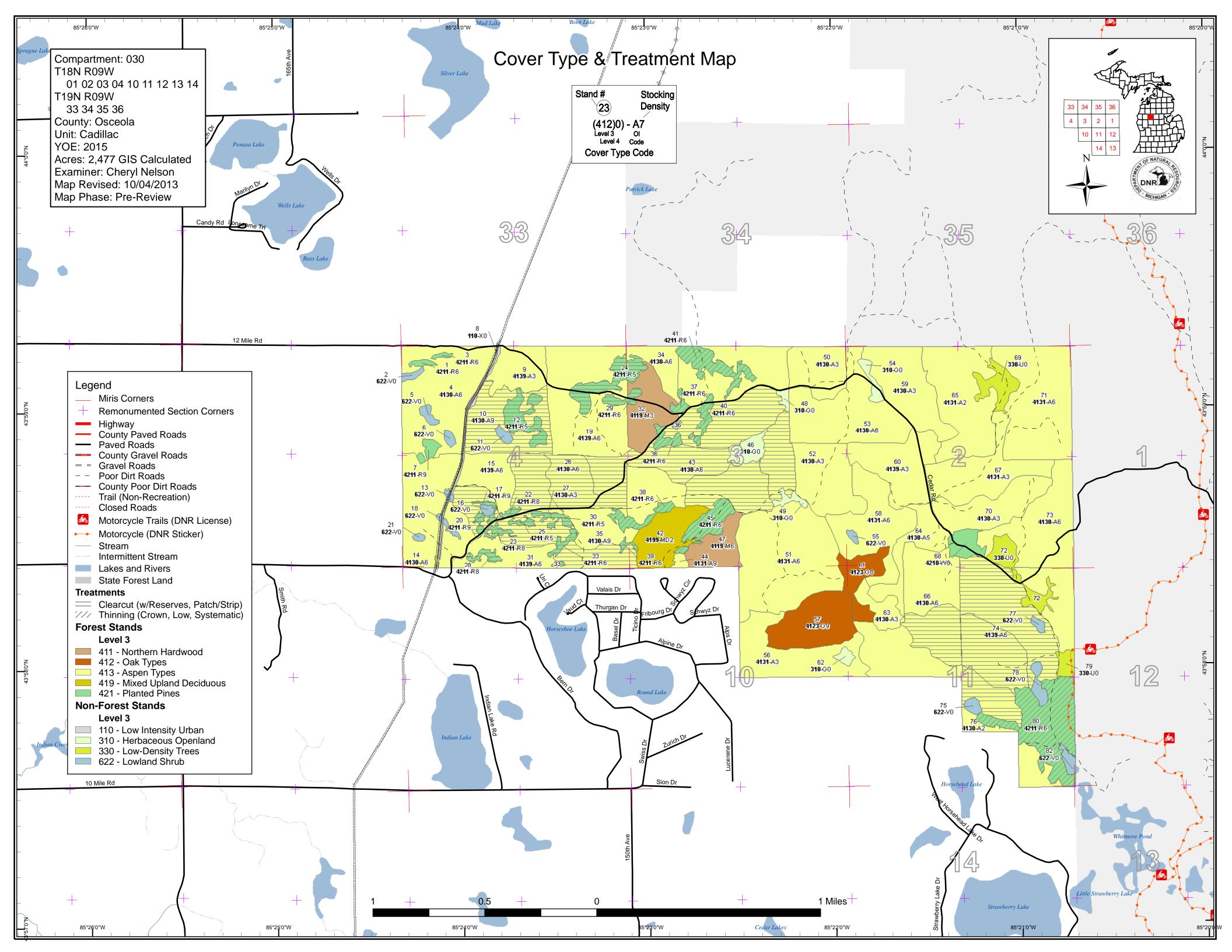
Additional Compartment Information:

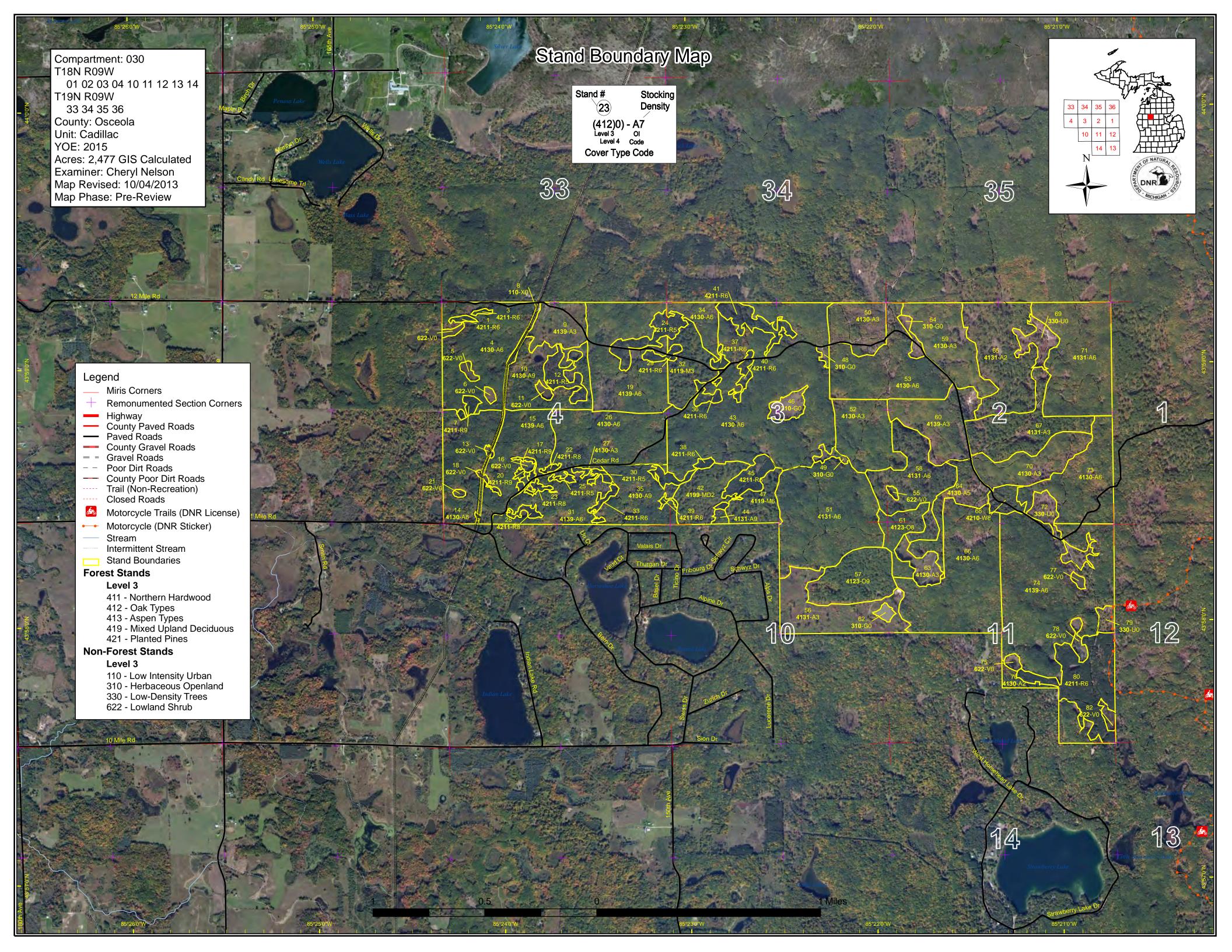
The following reports from the Inventory are attached:

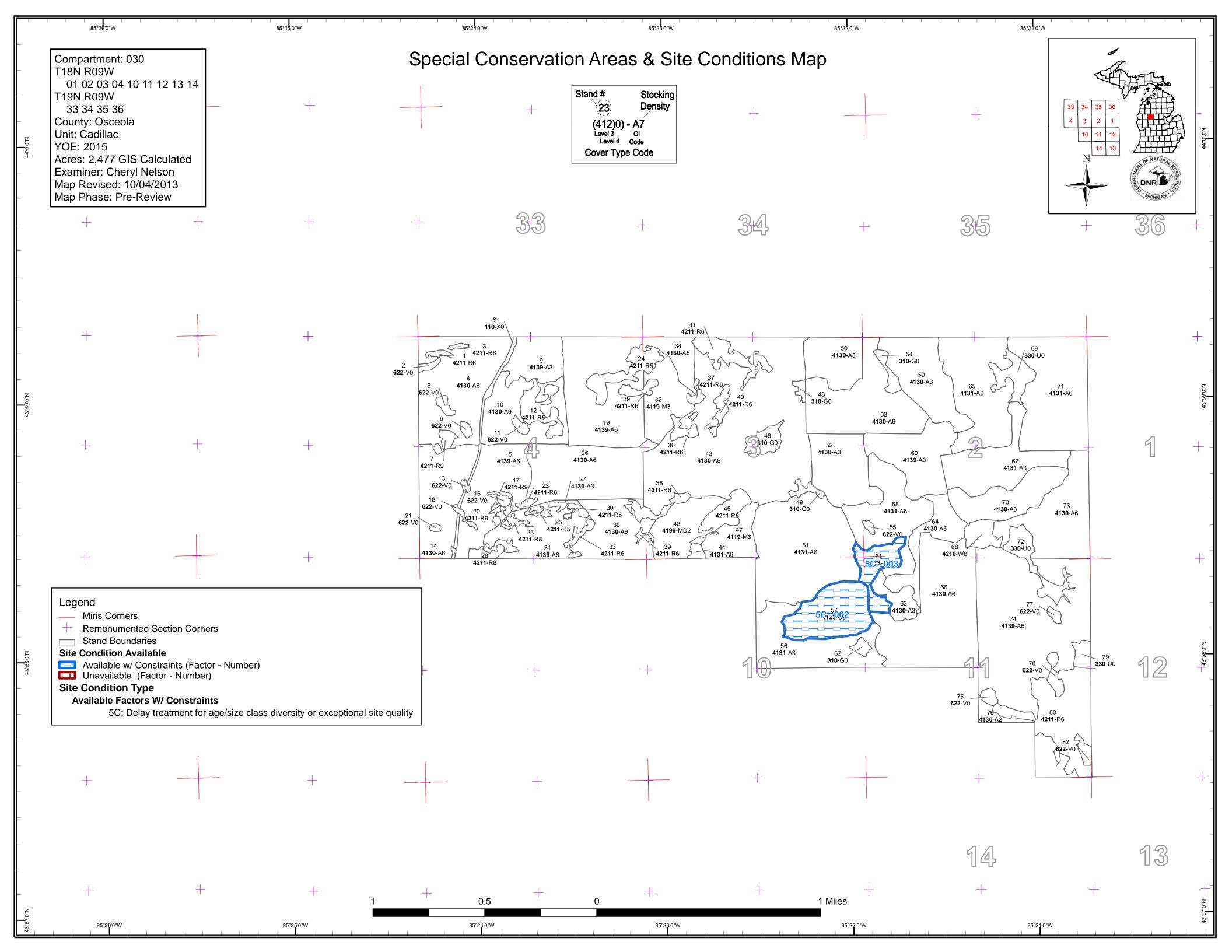
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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 030 Year of Entry 2015

Cadillac Mgt. Unit
Cheryl Nelson : Examiner



						Age	Class									
		§.9	0,70	,		AD LOS	\$5.00 M	8,00	10,00	80° 6	8.00	00,00	70,70	,	A A A	, so l
Aspen	245	243	467	618	410	0	52	0	0	0	0	0	0	0	2035	
Bog	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28	ĺ
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23	l
Low-Density Trees	36	0	0	0	0	0	0	0	0	0	0	0	0	0	36	ĺ
Mixed Upland Deciduous	0	34	0	0	0	0	0	0	0	0	0	0	0	0	34	
Northern Hardwood	0	58	0	0	0	0	0	0	0	0	0	0	0	0	58	l
Oak	0	0	0	0	0	0	0	0	70	0	0	0	0	0	70	l
Red Pine	0	0	0	0	0	175	0	0	0	0	0	0	0	0	175	
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
White Pine	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11	
Total	340	335	467	618	410	185	52	0	70	0	0	0	0	0	2477	1



Report 2 – Proposed Treatment Summaries

Cadillac Mgt. Unit Year of Entry 2015

ac Mgt. Unit Compartment 030 ry 2015 Total Compartment Acres: 2,477

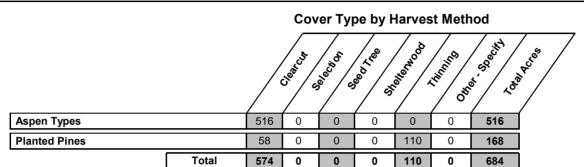
Acres by Treatment Type

Commercial Harvest - 684 Tree Planting - 58

Other - 0

Habitat Cut - 0

Opening Maintenance - 0



Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 030 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
10	63030010-Cut	49.2	4130 - Aspen	High Density Log	60	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use sale spec. 5.2.4.1 to mark trees to leave in a "spoke-like" pattern at a ratio of 1 pile per 2 acres. Specs:

Other

S

Comments:

Next Steps:

12

Proposed

Start Date:

10/01/2014

63030012-Cut

42110 - Planted 14.9 Red Pine

Medium Density Pole

52 111-140 Harvest

Clearcut

4211 - Planted Red Cmpt. Review Pine

Proposal

Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

<u>Other</u> Comments:

<u>Next</u>

Plant to red pine. Site prep as needed.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

63030015-Cut 14.9 4139 - Aspen, High 111-140 Harvest Clearcut with 413 - Aspen Cmpt. Review Mixed Deciduous Density Reserves Proposal Pole

Prescription Final Harvest. Cut all species except oak and black cherry. Mark occassional beech to retain. Retention in the form of patches. Use sale spec to seed landing after harvest. Use grouse spec in timber sale. Specs:

<u>Other</u>

Comments:

<u>Next</u> Steps:

Proposed

10/01/2014 Start Date:

42110 - Planted 63030017-Cut 1.8 High 52 111-140 Harvest Clearcut 4211 - Planted Red Cmpt. Review Red Pine **Density Log** Pine Proposal

Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

Other Comments:

<u>Next</u> Plant to red pine. Site prep as needed. Extend planting into stand 20.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

Cmpt. Review 20 63030020-Cut 1.8 42110 - Planted High 52 111-140 Harvest Clearcut 4211 - Planted Red Red Pine **Density Log** Pine Proposal

Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

<u>Other</u> Comments:

Next Plant to red pine. Site prep as needed. Extend planting into stand 17.

Steps:

Proposed

10/01/2014 Start Date:

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 030 Year of Entry 2015 DNR DINCHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	63030022-Cut	1.4	42110 - Planted Red Pine	Medium Density Log	52	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal

<u>Prescription</u> Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

Other Comments:

Next Plant to red pine. Site prep as needed.

Steps:

Proposed

Start Date: 10/01/2014

23 63030023-Cut 2.3 42110 - Planted Medium 52 81-110 Harvest Clearcut 4211 - Planted Red Cmpt. Review Red Pine Density Log Pine Proposal

Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

Other Comments:

Next Plant to red pine. Site prep as needed. Extend planting into stand 25.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

24 63030024-Cut 17.8 42110 - Planted Medium 52 81-110 Harvest Clearcut 4211 - Planted Red Cmpt. Review Red Pine Density Pine Proposal

Pole

Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

Other Comments:

Next Plant to red pine. Site prep as needed.

Steps:

Proposed Start Date: 10/01/2014

25 63030025-Cut 1.6 42110 - Planted Medium 52 81-110 Harvest Clearcut 4211 - Planted Red Cmpt. Review Red Pine Density Pine Proposal

Pole

Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

Other Comments:

Next Plant to red pine. Site prep as needed. Extend planting into stands 23 and 30.

Steps:

Proposed

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 030 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
26	63030026- 2020_Cut	27.6	4130 - Aspen	High Density Pole	38	81-110	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

<u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use <u>Specs:</u> grouse spec in timber sale.

<u>Other</u>

s

Comments: Next

Steps: Proposed

Start Date: 10/01/2019

26 63030026- 24.4 4130 - Aspen High 38 81-110 Harvest Clearcut with 4131 - Aspen, Oak Cmpt. Review Proposal Pole

<u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use <u>Specs:</u> grouse spec in timber sale.

<u>Other</u>

Comments:

Next Steps:

Proposed

Start Date: 10/01/2019

26 63030026-Cut 28.7 4130 - Aspen High 38 81-110 Harvest Clearcut with 413 - Aspen Cmpt. Review Density Reserves Proposal Pole

<u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Mark occasional beech and red pine to retain stand. Retention in the form of <u>Specs</u>: patches. Use sale spec to seed landing after harvest. Use grouse spec in timber sale.

<u>Other</u>

Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

28 63030028-Cut 3.1 42110 - Planted Medium 52 81-110 Harvest Clearcut 4211 - Planted Red Cmpt. Review Red Pine Density Log Pine Proposal

<u>Prescription</u> Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

Other_

Comments:

Plant to red pine. Site prep as needed.

Next Steps:

Proposed

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 030 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
29	63030029-Cut	4.3	42110 - Planted Red Pine	High Density Pole	52	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

Other Comments:

<u>Next</u>

Plant to red pine. Site prep as needed.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

30 63030030-Cut 3.7 42110 - Planted Medium 58 141-170 Harvest Clearcut 4211 - Planted Red Cmpt. Review Red Pine Pine Proposal Density

Pole

Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

Other

Comments:

Plant to red pine. Site prep as needed. Extend planting into stands 25 and 33. <u>Next</u>

Steps:

Proposed

Start Date: 10/01/2014

High 63030031-Cut 22.0 4139 - Aspen. 38 111-140 Harvest Clearcut with 413 - Aspen Cmpt. Review 31 Mixed Deciduous Density Reserves Proposal

Pole

Prescription Final Harvest. Cut all species except oak. Mark occasional beech and paper birch to retain. Retention in the form of patches. Use sale spec to seed landing after harvest. Use grouse spec in timber sale. Specs:

Other

Comments:

Next

Steps:

Proposed

10/01/2014 Start Date:

33 63030033-Cut 3.7 42110 - Planted High 58 141-170 Harvest Clearcut 4211 - Planted Red Cmpt. Review Red Pine Density Pine Proposal

Pole

Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale.

Specs:

Other

Comments:

Plant to red pine. Site prep as needed. Extend planting into stand 30.

Next Steps:

Proposed

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 030 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
35	63030035- Cut_small	22.7	4130 - Aspen	High Density Log	38	111-140	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

<u>Prescription</u> Final Harvest. Cut all species except oak. Retention in the form of patches. Use sale spec to seed landing after harvest. Use grouse spec in <u>Specs:</u> timber sale.

<u>Other</u>

s

Comments:

Next Steps:

Proposed

Start Date:

10/01/2014

36 63030036-Cut 5.0 42111 - Planted High 55 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine, Mixed Density Thinning Pine Proposal

Prescription Third row thin. Retention included in the residual basal area.

Deciduous

Pole

Specs:

Other Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

37 63030037-Cut 2.5 42110 - Planted High 55 171-200 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Density Thinning Pine Proposal Pole

Prescription Third row thin. Retention included in the residual basal area.

Specs:

Other_

Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

42110 - Planted Systematic 38 63030038-Cut 7.2 High 52 141-170 Harvest 4211 - Planted Red Cmpt. Review Red Pine Density Thinning Pine Proposal Pole

<u>Prescription</u> Third row thin. Retention included in the residual basal area.

Specs:

<u>Other</u>

Comments:

Next Steps:

Proposed

Compartment: 030 Cadillac 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 **Status** d Name Age Range Type 42110 - Planted 4211 - Planted Red Cmpt. Review 63030039-Cut 1.2 High 58 171-200 Harvest Clearcut 39 Red Pine Density Pine Proposal Pole Prescription Final Harvest. No retention due to replanting of red pine. Use Stump Height spec. for planting in timber sale. Specs: Other Comments: <u>Next</u> Plant to red pine. Site prep as needed. Steps: **Proposed** Start Date: 10/01/2014 40 63030040-Cut 5.3 42110 - Planted High 52 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine . Thinning Pine Proposal Density Pole Prescription Third row thin. Retention included in the residual basal area. Specs: Other Comments: <u>Next</u> Steps: **Proposed** Start Date: 10/01/2014 41 63030041-Cut 16.2 42111 - Planted High 52 141-170 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine, Mixed Density **Thinning** Pine Proposal Deciduous Pole Prescription Third row thin. Retention included in the residual basal area. Specs: Other Comments:

111-140

Prescription Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use

43

Harvest

Clearcut with

Reserves

Next Steps: Proposed

Specs:
Other
Comments:

Next Steps: Proposed

43

Start Date:

Start Date: 10/01/2019

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10/01/2014

53.4

grouse spec in timber sale.

4130 - Aspen

High

Density

Pole

63030043-

2020_Cut

4131 - Aspen, Oak Cmpt. Review

Proposal

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 030 Year of Entry 2015

DEPARTME	DNR DICHIGAN
	MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	63030043- 2020_Cut_1	39.6	4130 - Aspen	High Density Pole	43	111-140	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

<u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use <u>Specs:</u> grouse spec in timber sale.

Other

s

Comments:

<u>Next</u> Steps:

<u>Proposed</u>

Start Date: 10/01/2019

43 63030043-Cut 32.2 4130 - Aspen High 43 111-140 Harvest Clearcut with 413 - Aspen Cmpt. Review Reserves Proposal Pole

<u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use <u>Specs:</u> grouse spec in timber sale.

<u>Other</u>

Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

43 63030043-27.9 4130 - Aspen High 43 111-140 Harvest Clearcut with 413 - Aspen Cmpt. Review Cut 2 Density Reserves Proposal Pole

<u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use <u>Specs:</u> grouse spec in timber sale.

Other_

Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

45 63030045-Cut 14.5 42110 - Planted High 52 171-200 Harvest Systematic 4211 - Planted Red Cmpt. Review Red Pine Density Thinning Pine Proposal Pole

Prescription Third row thin. Retention included in the residual basal area.

Specs:

<u>Other</u>

Comments:

Next Steps:

Proposed

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 030 Year of Entry 2015

\sim	DEPARTME	DNR MICHIGAN
		MICHIGAN

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
66	63030066-Cut	31.6	4130 - Aspen	High Density Pole	35	1-50	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

<u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use <u>Specs:</u> grouse spec in timber sale.

Other Comments:

<u>Next</u> Steps:

s

Proposed

Start Date: 10/01/2014

74 63030074- 72.9 4139 - Aspen, High 40 51-80 Harvest Clearcut with 4131 - Aspen, Oak Cmpt. Review Reserves Proposal Pole

<u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use <u>Specs:</u> grouse spec in timber sale.

Other Comments:

Next Steps:

Proposed

Start Date: 10/01/2019

74 63030074-23.0 4139 - Aspen. High 40 51-80 Harvest Clearcut with 4131 - Aspen, Oak Cmpt. Review 2020 Cut 1 Mixed Deciduous Density Reserves Proposal Pole

<u>Prescription</u> Final Harvest. Cut all species except oak and black cherry. Retention in the form of patches. Use sale spec to seed landing after harvest. Use grouse spec in timber sale.

Other_

Comments:

Next Steps:

Proposed

Start Date: 10/01/2019

63030074-Cut 46.1 4139 - Aspen, High 40 51-80 Harvest Clearcut with 413 - Aspen Cmpt. Review 74 Mixed Deciduous Density Reserves Proposal Pole

<u>Prescription</u> Final Harvest. Cut all species except oak. Mark occassional beech and paper birch to retain. Retention in the form of patches. Use sale spec to seed landing after harvest. Use grouse spec in timber sale.

Other

Comments:

Next Steps:

Proposed

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 030 Year of Entry 2015

DNR
CHIGH

t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
80	63030080-Cut	59.6	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	52	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Third row thin. Retention included in the residual basal area. Use ORV Trail protection spec. in timber sale.

Specs:

s

<u>Other</u> Comments:

Next Steps:

Proposed

Start Date: 10/01/2014

Total Treatment

684.2 Acreage Proposed:

Cadillac Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 030 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:

Total Treatment

#Type!

<u>Proposed</u>

Start Date: # Limiting Factor

Acreage Proposed: 0.0

Report 5 – Site Conditions

Dominant Site Conditions

175

11

2,312

70

Cadillac Mgt. Unit

Cheryl Nelson: Examiner

Acres

Compartment 030 Year of Entry 2015

Availability for Management

Acres

175

11

2,382

100%

Total

175

11

2,382

Acres	Available	Not Available		No	5C
2035	2035		Aspen	2,035	
34	34		Mixed Upland Deciduous	34	
58	58		Northern Hardwood	58	
70	70		Oak		70

Red Pine

White Pine

Total Forested Acres

Relative Percent

*Due to limitations in the current Site Conditions Analysis tool	I all nonforested acres are considered available	Future development will enable analysis of nonforested types.
Due la illillations in the current site contaitions Analysis tool	i. ali Hulliulesteu aties ale tulisideleu avallable.	rulule developilletti will ettable attatvõis ol Hottlotesled lybes.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48				
(Comments:						
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22				
(Comments:						

Cadillac Mgt. Unit Compartment: 030

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				

Cadillac Mgt. Unit Compartment: 030 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	Туре	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecinfluences the aquatic ecosystem and vice-versa. Between streams and open water wetlands, riparian areas hard communities are ecologically and socially significant as aesthetics, habitat, bank stability, timber production	cause of the unique conditions adjacent to lakes, bor a high diversity of plants and wildlife. Riparian in their effects on water quality and quantity, as well

S	Cadilla	c Mgt. Unit		Report 8	– Forested	Stands Compartment: 030 Year of Entry: 2015
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	High Density Pole	1.7	52	141-170	Red pine planted 1961 per FTP #33. No thinnings have occurred. Straight rows.
3	42110 - Planted Red Pine	High Density Pole	1.0	52	200+	Red pine planted 1961 per FTP #33. No thinnings have occurred. Straight rows.
4	4130 - Aspen	High Density Pole	89.7	29	111-140	Stand treated timber sale #63-030-84-01. Overall diameters and densities vary. Steep slopes. Low, wet areas scattered throughout.
7	42110 - Planted Red Pine	High Density Log	3.8	52	200+	Red pine planted 1961 per FTP #33. No thinnings have occurred. Straight rows.
9	4139 - Aspen, Mixed Deciduous	High Density Sapling	29.5	7		Stand treated timber sale #63-017-05-01, "Gasline Aspen". Cut in 2006.
10	4130 - Aspen	High Density Log	49.2	60	81-110	Diameters and densities vary. Scattered low, wet areas. Some steep slopes.
12	42110 - Planted Red Pine	Medium Density Pole	14.9	52	111-140	Stand treated timber sale #63-040-05-01, "Osceola ORP". Red pine planted 1961 per FTP #30.
14	4130 - Aspen	High Density Pole	60.0	39	141-170	Diameters and densities vary. Scattered low, wet spots.
15	4139 - Aspen, Mixed Deciduous	High Density Pole	60.3	39	111-140	Diameters and densities vary. Some areas of steep slopes. Small pocket of white pine averaging 30 BA.
17	42110 - Planted Red Pine	High Density Log	1.8	52	111-140	Treated timber sale #63-040-05-01, "Osceola ORP". Red pine planted per FTP #32 in 1961.
19	4139 - Aspen, Mixed Deciduous	High Density Pole	94.6	23	1-50	Stand treated timber sale #63-031-84-01, "Indian Lake #4". Area of 55 year old red pine less than 1 acre to the northwest of stand. Scattered red pine left over from timber sale #63-040-05-01, "Osceola ORP" to south/southwest with average BA of 50. Combined scattered red pine with aspen due to low BA and encroaching hardwoods.
20	42110 - Planted Red Pine	High Density Log	1.8	52	111-140	Stand treated timber sale #63-040-05-01, "Osceola ORP". Red pine planted per FTP #32 in 1961.
22	42110 - Planted Red Pine	Medium Density Log	1.4	52	81-110	Stand treated timber sale #63-040-05-01, "Osceola ORP". Red pine planted per FTP #32 in 1961.
23	42110 - Planted Red Pine	Medium Density Log	2.3	52	81-110	Stand treated timber sale #63-040-05-01, "Osceola ORP". Red pine planted per FTP #32 in 1961.
24	42110 - Planted Red Pine	Medium Density Pole	17.8	52	81-110	Stand treated timber sale #63-040-05-01, "Osceola ORP". Planted per FTP#29 in 1961.

S	Cadilla	Cadillac Mgt. Unit			– Forested	Stands Compartment: 030 Year of Entry: 2015
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	42110 - Planted Red Pine	Medium Density Pole	1.6	52	81-110	Stand treated timber sale #63-040-05-01, "Osceola ORP". Red pine planted per FTP #28 in 1961.
26	4130 - Aspen	High Density Pole	80.7	38	81-110	Stand treated timber sale #5-74A. Treated in 1975. Few scattered pockets of saplings and logs. A couple of small pockets of pole to log red pine.
27	4130 - Aspen	High Density Sapling	1.1	4		Stand treated timber sale #63-040-05-01, "Osceola ORP", in 2009. Treated with red pine stand to the south.
28	42110 - Planted Red Pine	Medium Density Log	3.1	52	81-110	Stand treated timber sale #63-040-05-01, "Osceola ORP". Stand planted per FTP #28 in 1961.
29	42110 - Planted Red Pine	High Density Pole	4.3	52	111-140	Planted per FTP# 30.
30	42110 - Planted Red Pine	Medium Density Pole	3.7	58	141-170	Stand treated per timber sale #63-040-05-01, "Osceola ORP". Planted in 1961 per FTP #30.
31	4139 - Aspen, Mixed Deciduous	High Density Pole	48.8	38	111-140	Stand treated timber sale #5-74A, 1975.
32	4119 - Mixed Northern Hardwoods	High Density Sapling	33.9	17	1-50	Stand treated timber sale #63-012-95-01, "6710 Corner Removal". Cut 1996. Sapling stand with pockets and scattered mature oak.
33	42110 - Planted Red Pine	High Density Pole	3.7	58	141-170	Stand treated timber sale #63-040-05-01, "Osceola ORP". Planted per FTP #28 in 1961.
34	4130 - Aspen	High Density Pole	18.2	23		Stand treated #63-012-95-01, "6710 Corner Removal". Treated 1996.
35	4130 - Aspen	High Density Log	47.4	38	111-140	Stand treated timber sale #5-74A, 1975. Few small pockets of log to pole northern red oak.
36	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	5.0	55	141-170	Planted per FTP# G-14 in 1958. Patchy openings throughout. Straight rows.
37	42110 - Planted Red Pine	High Density Pole	2.5	55	171-200	Stand planted per FTP# G-14, 1958. Straight rows.
38	42110 - Planted Red Pine	High Density Pole	7.2	52	141-170	Stand planted per FTP#28, 1961. Straight rows.
39	42110 - Planted Red Pine	High Density Pole	1.2	58	171-200	Stand planted per FTP # 28, 1961.
40	42110 - Planted Red Pine	High Density Pole	5.3	52	141-170	Stand planted per FTP# 29, 1961.

s t	Cadilla	c Mgt. Unit		Report 8	– Forested	Stands Compartment: 030 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	16.2	52	141-170	Stand planted per FTP# 29, 1961.
42	4199 - Other Mixed Upland Deciduous	Medium Density	34.5	15	1-50	Stand treated timber sale #63-016-96-01, "Dog Days Removal". Specs were to cut all red maple and big tooth aspen to 4" DBH, and oak between 6"-8" DBH.
43	4130 - Aspen	High Density Pole	235.2	43	111-140	Stand treated timber sale # 20-69A. Cut in 1970. Pockets of varying diameters and densities. Small areas of windthrow creating some downed woody debris.
44	4131 - Aspen, Oak	High Density Log	2.5	65	81-110	
45	42110 - Planted Red Pine	High Density Pole	14.5	52	171-200	Stand planted FTP# 29, 1961. Straight rows.
47	4119 - Mixed Northern Hardwoods	High Density Pole	23.8	15	1-50	Stand treated timber sale #63-016-96-01, "Dog Days Removal". Treated in 1998.
50	4130 - Aspen	High Density Sapling	34.0	16		Stand treated timber sale #63-211-95-01. Stand treated 1997.
51	4131 - Aspen, Oak	High Density Pole	120.2	33	1-50	Stand treated timber sale #31-78A, 1980.
52	4130 - Aspen	High Density Sapling	50.8	27	51-80	Stand treated in timber sale approximately 25 years ago but paperwork could not be found.
53	4130 - Aspen	High Density Pole	81.1	33	111-140	Stand treated timber sale # 33-78A. Cut in 1980. Clearcut. Few white pine pulp along northeast edge with Cedar Road.
56	4131 - Aspen, Oak	High Density Sapling	60.5	4	1-50	Stand treated timber sale #63-029-06-01, "Exploration Aspen". Cut in 2009.
57	4123 - Red Oak	High Density Log	47.9	85	51-80	Stand treated timber sale #63-016-95-01, "Beaver Pond Hdwd". Cut in 1996. All trees except oak 10" and greater were cut.
58	4131 - Aspen, Oak	High Density Pole	61.0	5	141-170	Stand treated timber sale #63-075-06-01, "Hornet Aspen-Oak". Treated in 2008.
59	4130 - Aspen	High Density Sapling	55.3	17	1-50	Stand treated timber sale #63-214-95-01, "Sugar Bowl Aspen & Oak". Cut in 1996.
60	4139 - Aspen, Mixed Deciduous	High Density Sapling	53.0	17		Stand treated timber sale #63-214-95-01, "Sugar Bowl Aspen & Oak". Cut in 1996.
61	4123 - Red Oak	Medium Density Log	21.7	85	1-50	Keep for age class and species diversity.

s t	Cadilla	c Mgt. Unit		Report 8	– Forested	Stands Compartment: 030 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4130 - Aspen	High Density Sapling	14.1	4		Stand treated timber sale #63-005-07-01, "Hornet Aspen-Oak". Cut in 2009.
64	4130 - Aspen	Medium Density Pole	29.6	26	1-50	Stand treated timber sale #63-033-84-01, "Horsehead". Cut in 1986. Areas of grassy openings within stand.
65	4131 - Aspen, Oak	Medium Density	79.3	5	1-50	Stand treated #63-007-06-01, "Crop & Spurs". Treated in 2008.
66	4130 - Aspen	High Density Pole	119.8	35	1-50	Stand treated timber sale #034-78A. Cut in 1978.
67	4131 - Aspen, Oak	High Density Sapling	57.3	17	1-50	Stand treated timber sale #63-015-95-01, "Rocky Road Removal". Cut in 1996.
68	42100 - Planted White Pine	Medium Density Log	10.5	55	51-80	Stand planted per FTP #G-15, 1958. There are a few white pine that are approximately 70 years in age.
70	4130 - Aspen	High Density Sapling	43.4	17		Stand treated timber sale #63-016-95-01, Beaver Pond Hdwd". Treated 1996. Few scattered log white pine.
71	4131 - Aspen, Oak	High Density Pole	95.6	29	51-80	Stand treated timber sale #63-031-84-01, "Indian Lake #4". Cut in 1984.
73	4130 - Aspen	High Density Pole	67.1	27	51-80	Stand treated timber sale #63-033-84-01, "Horsehead". Cut in 1986.
74	4139 - Aspen, Mixed Deciduous	High Density Pole	175.0	40	51-80	Stand treated timber sale approximately 40 years ago however, the paperwork could not be found. Varying densities and diameters.
76	4130 - Aspen	Medium Density	6.5	27		Stand treated timber sale #63-033-84-01, "Horsehead". Cut in 1986.
80	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	59.6	52	171-200	Stand planted per FTP #31. Planted in 1961.

4130 - Aspen

81

High Density Pole

14.5

27

81-110

Stand treated timber sale #63-033-84-01, "Horsehead". Cut in 1986.

Report 9 - Nonforested Stands

Compartment: 030 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6225 - Bog	1.9	No	Unspecified	Leatherleaf bog.
5	6225 - Bog	2.6	No	Unspecified	Leatherleaf bog.
6	6225 - Bog	1.7	No	Unspecified	Leatherleaf bog.
8	11 - Low Intensity Urban	7.6	No	Unspecified	MichCon gas pipeline.
11	6225 - Bog	2.2	No	Unspecified	Leatherleaf bog.
13	6225 - Bog	1.0	No	Unspecified	Leatherleaf bog.
16	6225 - Bog	1.6	No	Unspecified	Leatherleaf bog
18	6225 - Bog	1.6	No	Unspecified	Leatherleaf bog.
21	6225 - Bog	1.0	No	Unspecified	Leatherleaf bog.
46	3102 - Grass	10.0	No	Unspecified	
48	3105 - Mixed Upland Herbaceous	2.2	No	Unspecified	
49	3102 - Grass	3.4	No	Unspecified	
54	3102 - Grass	5.1	No	Unspecified	Few scattered deciduous trees.
55	6225 - Bog	1.3	No	Unspecified	Leatherleaf bog.
62	3102 - Grass	2.8	No	Unspecified	Old exploratory gas drilling rig site. Site did not prove to be productive.
69	3301 - Low Density Deciduous Tree	13.8	No	Unspecified	
72	3301 - Low Density Deciduous Tree	16.5	No	Unspecified	
75	6225 - Bog	2.8	No	Unspecified	Leatherleaf bog with cattails.

Report 9 - Nonforested Stands

Compartment: 030 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
77	6225 - Bog	1.9	No	Unspecified	Leatherleaf bog.
78	6225 - Bog	5.0	No	Unspecified	Leatherleaf bog.
79	3301 - Low Density Deciduous Tree	5.5	No	Unspecified	
82	6225 - Bog	3.5	No	Unspecified	Leatherleaf bog and cattails.