

## **Compartment Review Presentation**

**Roscommon Forest Management Unit** 

Compartment 108
Entry Year 2016
Acreage: 1,318

**County Roscommon** 

Management Area: Houghton Lake Wetlands

**Revision Date:** 04/25/2014

Stand Examiner: Dale Ekdom

**Legal Description:** 

T22N R4W Sections 4, 5, and 6

## **Identified Planning Goals:**

Maintain current age and species diversity in a range of early and late successional ecosystems as determined by the Houghton Lake Wetlands Management Area plan.

## Soil and topography:

Terrain in the compartment is basically flat. Soils are Lupton muck, Bergland loam, Newton sandy loam, Saugatuck sand, and Bergland clav loam.

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

This compartment is a solid block of state land with state land surrounding the compartment except on the east side, south-east, and north-east sides. Private property adjacent to the compartment is small parcels with permanent residences or farmland with permanent residences.

## **Unique Natural Features:**

No Unique Natural Features known.

## **Archeological, Historical, and Cultural Features:**

No Archeological, Historical, or Cultural Features known.

## **Special Management Designations or Considerations:**

Compartment is a part of the Houghton Lake Wildlife Research Area (also known as Porter Ranch).

#### **Watershed and Fisheries Considerations:**

Nellsville Drain bisects this compartment north to south and there are numerous smaller un-named drains and intermittent drainages in this compartment.

#### Wildlife Habitat Considerations:

Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, turkeys, and waterfowl as well as other non-game species.

## Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and peat and muck. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for brick making clay elsewhere in the State. Gravel pits are located in Section 4, but potential appears to be limited in Section 5 & 6. Nellsville Field is located one mile to the south. The field has produced nearly 55,000 BO from the Devonian Detroit River Formation. Section 4 is currently leased for oil and gas development.

#### **Vehicle Access:**

Vehicle access is excellent to the perimeter of the compartment via M-55 and other county roads. Access to the interior of the compartment is limited due to the wet terrain and absence of travelable roads.

## **Survey Needs:**

None necessary at this time.

#### **Recreational Facilities and Opportunities:**

There are no structured recreational facilities within this compartment but there is good habitat for dispersed recreational activities such as hunting. Visual considerations should be considered along M55.

#### **Fire Protection:**

There is a high amount of jack pine fuel types in this compartment but the jack pine is growing on terrain that is lower and wetter and the compartment has many natural fuel breaks. Access to some of the jack pine islands is poor.

## **Additional Compartment Information:**

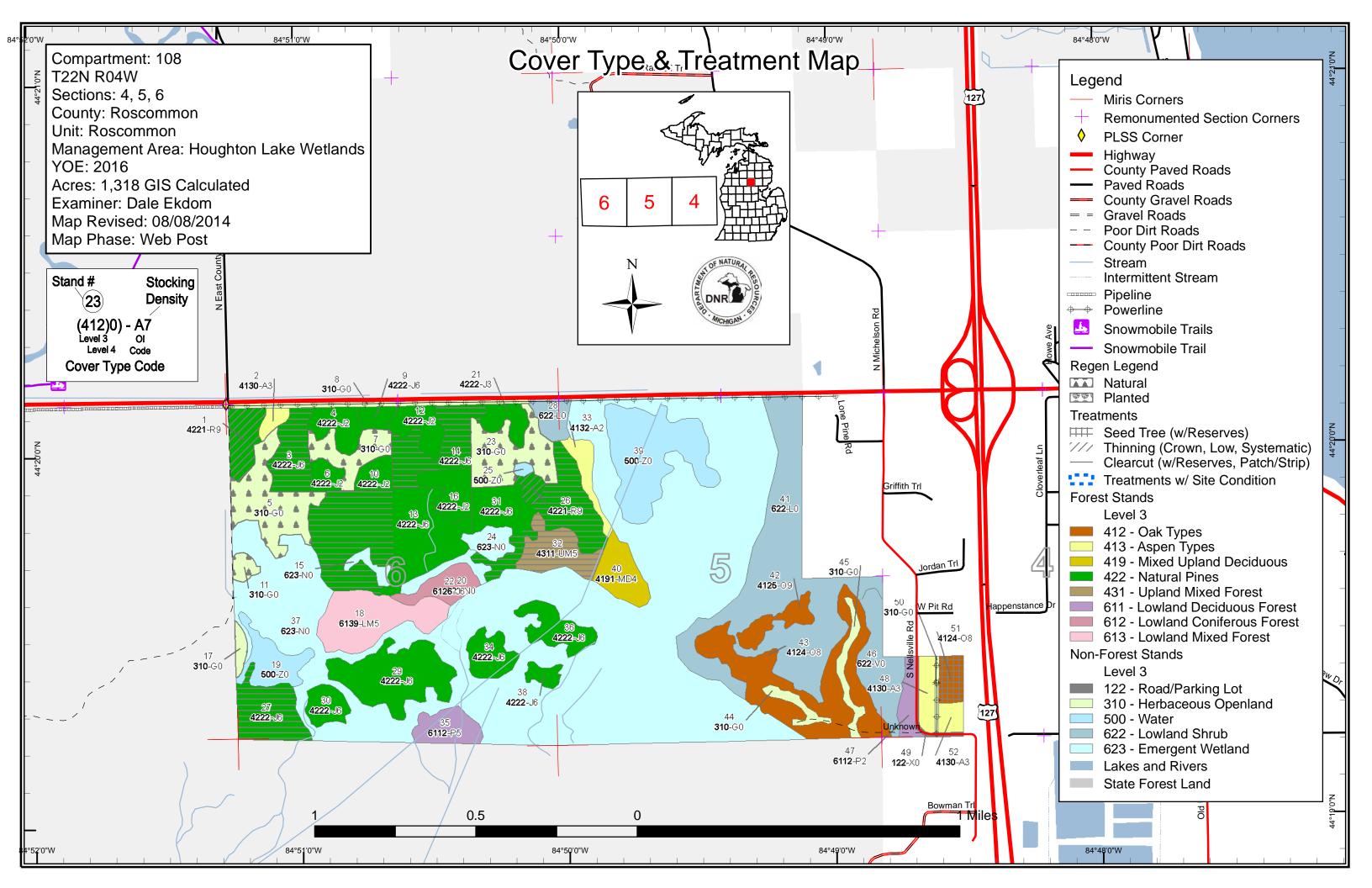
A permanent access point on the south side of M-55 is proposed for timber and recreational purposes if funding can be allocated and permits can be secured. If funding for a permanent access point is not available, a temporary access point may need to be constructed to harvest the timber. Proposed treatments this year-of-entry include 154 acres of jack pine scheduled to be final harvested and regenerated naturally to jack pine. In addition, 16 acres of red pine is scheduled to be thinned and 7 acres of oak are scheduled for a seed tree cut. In addition, 31 acres is scheduled to be seeded to jack pine and 12 acres of opening maintenance is scheduled.

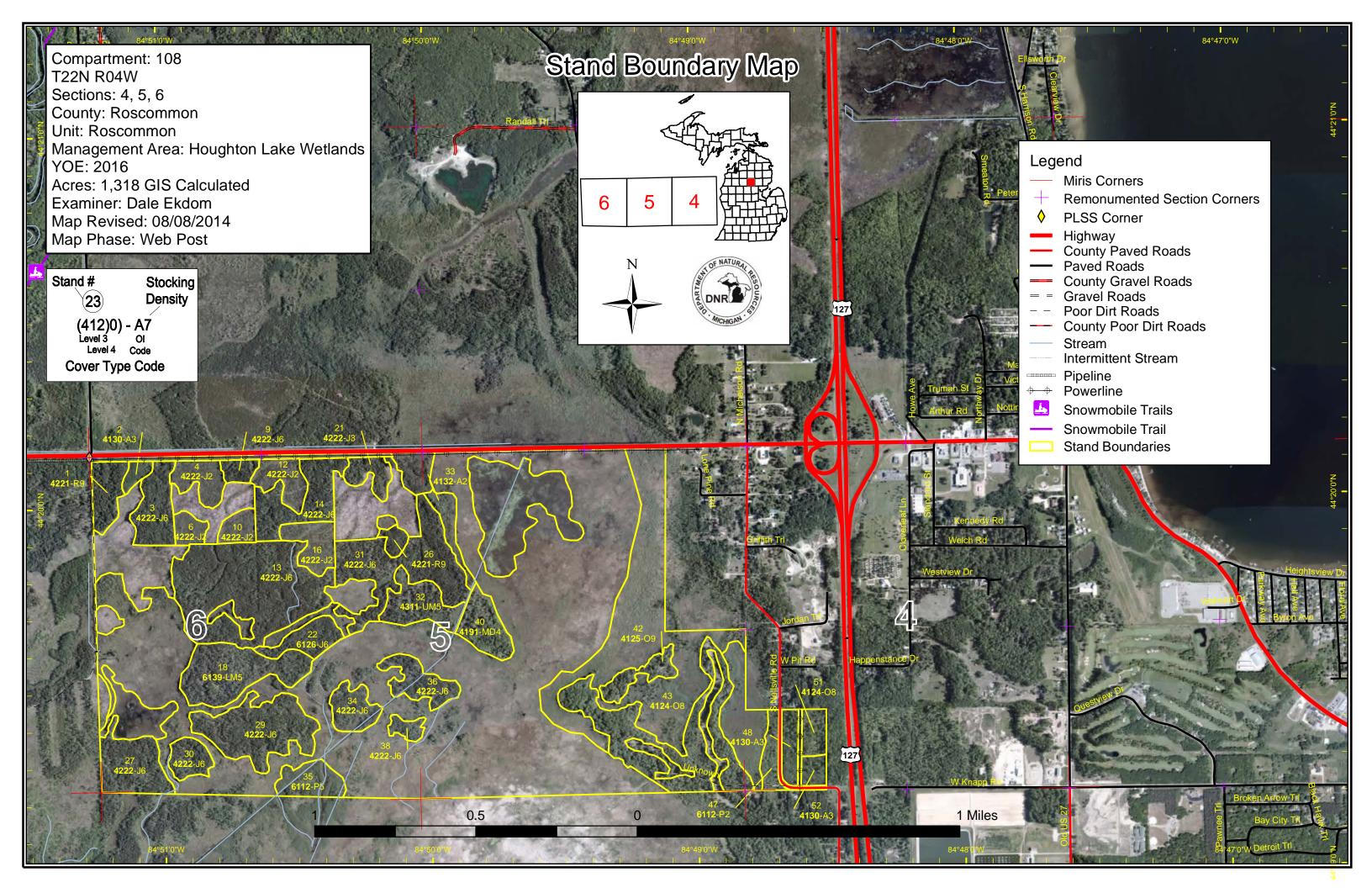
## The following reports from the Inventory are attached:

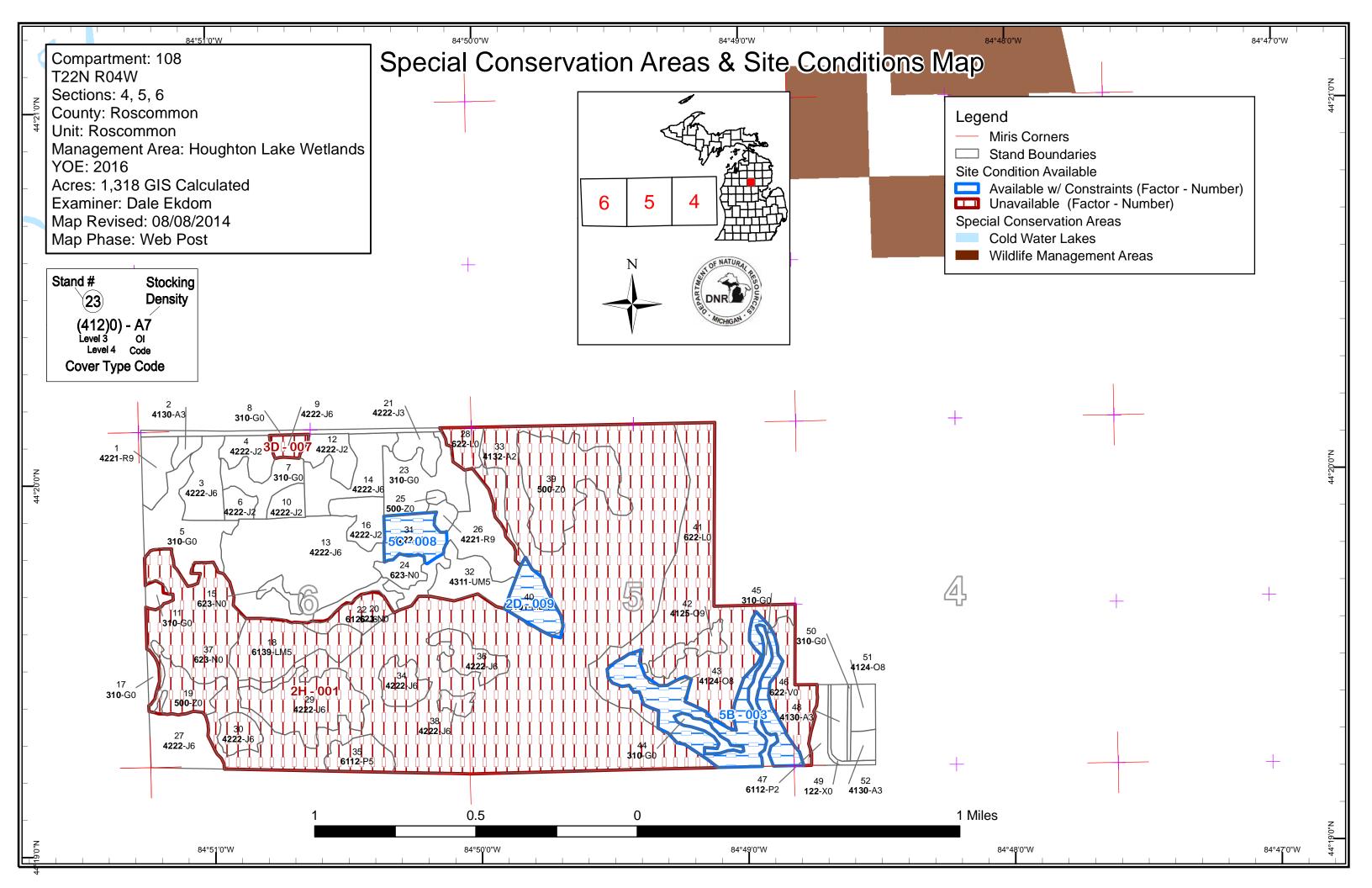
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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 108 Year of Entry 2016

Roscommon Mgt. Unit

Dale Ekdom: Examiner



	Age Class															
		6.0	70.79	Part /		AD PO	\$5.05	80.00	or of	8 6	86.70	00.00	70,70	No X	No.	, so
Aspen	0	12	11	0	0	0	0	0	0	0	0	0	0	0	23	
Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22	i
Herbaceous Openland	99	0	0	0	0	0	0	0	0	0	0	0	0	0	99	
Jack Pine	0	47	8	0	0	77	73	123	0	0	0	0	0	0	328	
Lowland Aspen/Balsam Poplar	0	8	12	0	0	0	0	0	0	0	0	0	0	0	20	
Lowland Mixed Forest	0	0	0	0	0	0	0	32	0	0	0	0	0	0	32	
Lowland Shrub	117	0	0	0	0	0	0	0	0	0	0	0	0	0	117	
Marsh	492	0	0	0	0	0	0	0	0	0	0	0	0	0	492	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	15	0	0	0	0	0	15	
Oak	0	0	0	0	0	0	0	71	0	0	0	0	0	0	71	
Red Pine	0	0	0	0	0	0	4	12	0	0	0	0	0	0	16	
Upland Mixed Forest	0	0	0	0	0	17	0	0	0	0	0	0	0	0	17	
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Water	63	0	0	0	0	0	0	0	0	0	0	0	0	0	63	i
Total	797	66	32	0	0	94	77	238	15	0	0	0	0	0	1318	



# **Report 2 – Proposed Treatment Summaries**

Roscommon Mgt. Unit Year of Entry 2016

Natural Pines
Oak Types

**Upland Mixed Forest** 

Compartment 108
Total Compartment Acres: 1,318

## **Acres by Treatment Type**

Commercial Harvest - 176 Tree Planting - 17

Other - 31

0

7

0

0

Habitat Cut - 0

Opening Maintenance - 11

Total

17

153

0

	Cover Type by Harvest Method											
/,	10 05 OF	to jijoo o	1.8° / 5°	o o o o o o o o o o o o o o o o o o o	OKC OKC		A CONTRACTOR OF THE CONTRACTOR					
86	0	0	0	16	0	151						
)	0	7	0	0	0	7						

0

16

0

17

176

Roscommon Mgt. Unit S

## Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 108 Year of Entry 2016

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	71108001-Cut	11.9	42210 - Natural Red Pine	High Density Log	77	111-140	Harvest	Low Thinning	4221 - Natural Red Pine	Cmpt. Review

Prescription remove suppressed, defect, and doubles first and then thin to target basal area of 110 SF/acre, mark merchantable hardwoods where desired for

Specs: manuvering within stand

<u>Other</u> no retention other than residual red pine

Comments:

**Next** final harvest or remove utility poles in 10 years

Steps:

**Proposed** 

Start Date: 10/01/2015

Cmpt. Review 71108003-Cut 17.1 42220 - Natural High 62 Harvest Clearcut with 42221 - Natural Jack Pine Density Reserves Jack Pine, Mixed Proposal Pole Deciduous

Prescription final harvest and regenerate naturally to jack pine, leave jack pine tops scattered as a seed source and manage for a jack pine/aspen mix, leave a 2-Specs:

3 chain buffer on M-55 for visual/retention/green-up concerns, leave the wettest areas (south end of stand) for retention/BMP's

Other | will need to access from west thru the R9 stand or construct driveway with culvert on M-55

Comments:

regeneration check during normal inventory cycle

<u>Next</u> Steps:

**Proposed** 10/01/2015 Start Date:

42.9 Harvest 4222 - Natural Jack 71108013-Cut 42220 - Natural High 57 Clearcut with Cmpt. Review 13 Jack Pine Density Reserves Pine Proposal

Pole

Prescription final harvest and regenerate naturally to jack pine, leave jack pine tops as a seed source

Specs:

leave buffer on wetland type to west and the south for retention/BMP's, probably will access off county line two-track to the west, buffer broad Other drainage in center of stand to leave a long narrow of stand jack pine for an upright seed source, use brush pile and drumming log specifications -Comments:

especially along the south and west sides of the stand

regeneration check during normal inventory cycle <u>Next</u>

Steps:

Proposed

Start Date: 10/01/2015

14 71108014-Cut 23.7 42220 - Natural High 75 Harvest Clearcut with 4222 - Natural Jack Cmpt. Review Jack Pine Density Reserves Pine Proposal Pole

Prescription final harvest and regenerate naturally to jack pine, leave jack pine tops as seed source to regenerate stand back to jack pine

Specs:

Other\_ leave 3-5 chain buffer on M-55 for visual/retention/green-up concerns,

Comments:

Next regeneration check during normal inventory cycle

Steps:

**Proposed** 

10/01/2015 Start Date:

Compartment: 108 Roscommon Mgt. Unit Report 3 -- Treatments Prescribed Year of Entry 2016 with No Limiting Factor S t а **Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type Approval** n Density Method Name Age Range Objective Status **Type** d 3.7 42210 - Natural Red 42211 - Natural Red 71108026-Cut High 111-140 Low Thinning Cmpt. Review 26 65 Harvest Pine, Mixed Pine **Density Log** Proposal Deciduous Prescription thin to 120 SF/acre removing all jack pine and marking red pine to remove defect Specs: Other poor access due to wetter terrain in surrounding stands and broad drainage on the east and south sides Comments: Next Steps: Proposed 10/01/2015 Start Date: 42221 - Natural 71108027-Cut 22.1 70 4222 - Natural Jack Cmpt. Review 27 High Harvest Clearcut with Jack Pine, Mixed Density Reserves Pine Proposal Deciduous Pole Prescription final harvest and manage for natural jack pine by leaving all tops as a seed source Specs: Other will need crane-mats to cross a few drains to access stand, no truck access to stand - will need to skid everything thru state land in Missuakee Comments: County, combine with sale in Missaukee County in 63094, , add stands in 71109 and 63095 which are only accessible from this stand, mark up to 1 oak per acre for wildlife mast, leave wettest parts of all stands as retention, add brush pile and drumming log specifications for placing these habitat structures along any of the wet drainaiges regeneration survey Next Steps: Proposed Start Date: 10/01/2015 4222 - Natural Jack Cmpt. Review 71108031-Cut 30.0 31 42220 - Natural High 64 Harvest Clearcut with Jack Pine Density Reserves Pine Proposal Pole Prescription final harvest and regenerate naturally to jack pine, leave jack pine tops as a seed source buffer lowland on east edge for retention by using over-grown two-track along "L" as the boundary, leave the narrow arm(s) in the SW for retention, any combination of hardwoods and jack pine regeneration to a fully stocked stand is acceptable

Specs:

Other Comments:

regeneration check during the normal inventory cycle Next Steps:

Proposed 10/01/2015 Start Date:

42120 - Planted 32 71108032-Cut 17.5 4311 - Pine, Aspen Medium 56 Cmpt. Review Harvest Clearcut with Jack Pine . Proposal Mix Density Reserves Pole

Prescription final harvest and regenerate naturally to jack pine, leave jack pine tops for a seed source Specs:

Other leave a buffer on the south edge for retention/BMP's, use "rabbitat" spec along south edge, leave all oaks for wildlife mast. leave wettest spots for Comments: retention especially if doing so would make interior islands

regeneration check during normal inventory cycle Next Steps:

Proposed 10/01/2015 Start Date:

Roscommon Mgt. Unit

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 108
Year of Entry 2016

DNR DNCHIGAN

Status

Cmpt. Review

Proposal

**Treatment** Acres CoverType Size Stand BA **Treatment Treatment Cover Type** n Density Method Objective Name Age Range **Type** d 71108051-Cut 7.0 4124 - Red with 79 1-50 Seed Tree with 412 - Oak 51 Medium Harvest White Oak Density Log Reserves

Prescription treat with a seed tree cut to release the oak seedlings/saplings but mark 10-20 SF of oak (esp. white oak) to leave for a continuing seed source,

Specs: concentrate on leaving oak mast trees where oak regeneration is sparse or lacking full stocking

Other no retention other than the oak marked to leave

Comments:

Next regen survey during regular inventory cycle

Steps:

S t a

<u>Proposed</u>

Start Date: 10/01/2015

5 NF\_71108005- 30.6 3102 - Grass Tree Seeding Hand Seed 4212 - Planted Jack Cmpt. Review Seed Pine Proposal

<u>Prescription</u> seed jack pine from back of a snowmobile during snow covered conditions

Specs:

Other Comments:

Next regeneration survey

Steps:

<u>Proposed</u>

Start Date: Unspecified

44NF\_71108044-<br/>NonFor4.53102 - GrassNon-ForestMowing<br/>Management310 - Herbaceous<br/>OpenlandCmpt. Review<br/>Proposal

<u>Prescription</u> opening mainteneance - mowining or other teatment as specified by Wildlife Division

<u>Specs:</u>

Other Comments:

Next Steps:

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Proposed Start Date: Unspecified

45 NF\_71108045- 6.8 3102 - Grass Non-Forest Mowing 310 - Herbaceous Cmpt. Review Management Openland Proposal

<u>Prescription</u> opening maintenance - mowing or other treatment as specified by Wildlife Division

Specs:

Other Comments:

<u>Next</u> Steps:

**Proposed** 

Start Date: Unspecified

**Total Treatment** 

Acreage Proposed: 217.6

Roscommon Mgt. Unit Report 4 -- Treatments Prescribed with a Site Condition

Compartment: 108
Year of Entry 2016

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

#Type!

#Type!

Prescription

Specs:

s

Other Comment:

Next Steps:

<u>Proposed</u>

Start Date: #Type!

Limiting Factor

Total Treatment

Acreage Proposed: 0.0

Roscommon Mgt. Unit

Dale Ekdom: Examiner

Compartment 108
Year of Entry 2016

Availa	ability for	Management							
Total	Acres	Acres	Do	omina	nt Site	e Con	dition	s	
Acres	Available	Not Available		No	5C	5B	3D	2H	2D
23	16	7	Aspen	16				7	
327	238	89	Jack Pine	223	15		5	84	
20	8	12	Lowland Aspen/Balsam Poplar	8				12	
32	0	32	Lowland Mixed Forest	0				32	
15	14	0	Mixed Upland Deciduous					0	14
70	60	10	Oak	7		53		10	
16	16		Red Pine	16					
17	17		Upland Mixed Forest	17					
520	369	151	Total Forested Acres	286	15	53	5	146	14
	71%	29%	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.

	nd Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
001	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	823	2G: Too wet (sensitive soils, does not include access issues)			
Cor	mments:						
003	Available	5B: Maintain for regeneration purposes	54				
Cor	mments:						
007	Not Available	3D: Recreational / Scenic values	5	1C: Other dept or div proc/practices			
Cor	mments:						

# **Report 5 – Site Conditions**

Roscommon Mgt. Unit

Dale Ekdom: Examiner

Compartment 108
Year of Entry 2016

008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15
Co	omments:		
009	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	15
Co	omments:		

Roscommon Mgt. Unit

Compartment: 108
Year of Entry: 2016



## 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.

Comments	

Roscommon Mgt. Unit Compartment: 108



## Report 7 - EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservation Area	Туре	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA Arcl	naeological Site	An aquatic or terrestrial area of the State that contains physisites of cultural and historical significance that may occur up bottomlands. They include thousands of Native American se and British outposts, nineteenth century logging camps, min the Great Lakes, there are shipwrecks and other remains do be identified by Natural heritage data from the State Historic this compartment will be implemented in such a manner as the sensitive nature of this information, no further detail about	on terrestrial areas and Great Lakes attlements and burial sites, as well as French hes and homesteads. Beneath the waters of hocumenting the maritime trade. Such sites may hoperate area of the proposed treatments in hoc maintain the integrity of these sites. Due to

s t	Roscommo	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 108 Year of Entry: 2016		
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:		
1	42210 - Natural Red Pine	High Density Log	11.9	77	111-140	R9 thinned in June 1997, red pine with scattered pole size quaking aspen and red maple and also some white pine poles and sawlogs, right at edge treatment-wise but could thin once more before either final harvesting or starting to take utility poles, stand has lots of deer beds/tracks		
2	4130 - Aspen	High Density Sapling	3.5	26		A3 regenerated in 1997		
3	42220 - Natural Jack Pine	High Density Pole	17.1	62		mature J6 stand, mostly jack pine but pockets heavy to red maple, aspen, or both, also scattered hardwoods. jack pine and aspen fading but red pine and red maple doing OK, probably should regenerate stand if access problem due to ditch/powerline on M-55 can be mitigated, lots of deerbeds/tracks within stand, operable but with a higher water table in spots		
4	42220 - Natural Jack Pine	Medium Density	11.0	15		J6 cut and regenerated naturally in 1997, mostly jack pine but also scattered hardwoods		
6	42220 - Natural Jack Pine	Medium Density	5.6	15		J6 cut and regenerated naturally in 1997, mostly jack pine but also scattered hardwoods		
9	42220 - Natural Jack Pine	High Density Pole	4.6	75		small stand left as buffer when stand to the south was cut in 2009, mostly jack pine but with a few hardwoods, converting to hardwoods on its own		
10	42220 - Natural Jack Pine	Medium Density	6.6	15		J6 cut and regenerated naturally in 1997, mostly jack pine but also scattered hardwoods		
12	42220 - Natural Jack Pine	Medium Density	11.3	15		J6 cut and regenerated naturally in 1997, mostly jack pine but also scattered hardwoods		
13	42220 - Natural Jack Pine	High Density Pole	76.5	57		upland jack pine but with hummucky terrain and a high water table, standing water in a lot of it during spring runoff when it was inventoried, a few aspen clones and solitary aspen trees scattered thru-out stand, understroy is fairly open with a few scattered red maple and jack pine saplings and an occasional oak sapling, ground cover is mostly pillow moss and scattered leatherleaf with some bracken fern on the higher ground		
14	42220 - Natural Jack Pine	High Density Pole	23.7	75		J6 held last YOE for age/size class diversity, should be regenerated now as jack pine is declining		
16	42220 - Natural Jack Pine	Medium Density	12.3	15		J6 cut and regenerated naturally in 1997, mostly jack pine but also scattered hardwoods		
18	6139 - Mixed Lowland Forest	Medium Density Pole	32.4	75		jack pine mixed with hardwoods, much of the stand is wet jack pine with some higher pockets heavy to hardwood poles or J3, lots of jack pine and hardwoods seeding in on their own, ground cover is pillow moss, blueberry, and leather leaf, some jack pine saplings are almost pole size, lots of blowdown and/or dead jack pine in spots, heavy wildlife use in this stand - good stand to leave for wildlife		

s t	Roscommor	Mgt. Unit		Report 8	– Forested	Stands Compartment: 108 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	42220 - Natural Jack Pine	High Density Sapling	8.1	25		J6 regenerated naturally in 1988, mostly jack pine but has scattered hardwoods
22	6126 - Lowland Jack Pine	High Density Pole	11.2	67		J6 with scattered ahrdwoods, wetter stand with a high water table, lots of wildlife sign
26	42210 - Natural Red Pine	High Density Log	3.7	65	111-140	natural red pine stand, stand has a higher water table but is probably opeable during dry peiods or when frozen, mostly red pine sawlogs on the south end and mix of RP poles/sawlogs with some surppressed RP saplings on the north end, consider thinning if surrounding jack pine is treated and access can be gained across wetter terrain, SI or RP is 47.
27	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	22.1	70		island of jack pine cut off by wetter terrain, southwest part of the stand has a broad drainage cutting off the soouthwest part from the rest of the stand
29	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	35.6	70		island of jack pine surounded by "L"
30	42221 - Natural Jack Pine, Mixed Deciduous	High Density Pole	8.7	70		island of jack pine surounded by "L"
31	42220 - Natural Jack Pine	High Density Pole	45.0	64		jack [ine poles and sawlogs with scattered red pine sawlogs and red maple/aspen poles, terrain is approx. 50% upland and 50% lowland but is mostly operable during dry or frozen conditions, stand has narrow swale of "L" in the middle running north to south
32	4311 - Pine, Aspen Mix	Medium Density Pole	17.5	56		mix of upland with oak and jack pine and lowland with aspen and red maple, south edge is mostly low with TA poles and RM saplings which are almost pole-size, rest of the stand is hummucky upland mixed with small lowland pocketsthat have a mx or mature and over-mature jack pine and aspen, parts of the stand are fairly open, and there are also scattered oaks thru-out the drier areas of the stand
33	4132 - Aspen, Jack Pine	Medium Density	7.6	25		habitat cut in 1988, regenerated to a mix of aspen and jack pine
34	42220 - Natural Jack Pine	High Density Pole	11.1	70		island of jack pine surounded by "L", Nellsville Drain cuts off the southeast part of the stand
35	6112 - Lowland Aspen	Medium Density Pole	12.4	29		lowland aspen island surrounded by "L", marginally higher than surounding terrain, low volumes/stockings, cut by 2 0r 3 broad drainages including Nellsville Drain, west 2/3rds was habitat cut in 1984, east 1/3rd is 1947 YOO
36	42220 - Natural Jack Pine	High Density Pole	13.3	71		island of jack pine surounded by "L", stand is cut in 1/2 by Nellsville Drain
38	42220 - Natural Jack Pine	High Density Pole	3.9	70		

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# Report 8 - Forested Stands

Compartment: 108 Year of Entry: 2016



t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4191 - Mixed Upland Deciduous with Conifer	Low Density Pole	14.6	88		Oak SL's with red maple, trembling aspen, and jack pine polesstand is fairly open with lots of grassy openings for wildlife to use, oak is the oldest species and JP-TA-RM appears to be younger, stand is mostly upland surounded by low ground and it has a few small wet pothole in the stand interior, some beaver activity along the edges
42	4125 - Black, N. Pin Oak	High Density Log	9.1	79	81-110	2 islands of slightly higher ground surrounded by wet terrain, untreated portion of oak stand to the west, hummucky ground, red maple saplings-poles heavy in spots (esp. on the edges), west island is heavy to red pine, east island is mostly hardwoods, stand is doing well on its own, good stand to leave for wildlife
43	4124 - Red with White Oak	Medium Density Log	54.5	79	51-80	oak ridge surrounded by lowland non-forested types, edges and lower parts which were not treated are sapling-pole size red maple and trembling aspen, bulk of stand was shelterwood cut in 2011 and is now O8A2M1, lots of deer browse on the red maple and oak saplings which regnerated from this treatment, going towards all-aged
47	6112 - Lowland Aspen	Medium Density	7.6	15		lowland aspen stand which was regenerated in 1998, nice A3 along east edge but less aspen as you get towards the west edge which is a lot wetter
48	4130 - Aspen	High Density Sapling	7.5	15		stand cut 1998, left oak sawlogs (especially the north 1/2 of stand), mix of BTA and quaking aspen
51	4124 - Red with White Oak	Medium Density Log	7.0	79	1-50	Approx. 2/3rds red/black oak and 1/3rd white oak, a few scattered R/W pine sawlogs as well, stand was shelterwood cut in 2011 and underburned twice in the last 10 years to reduce the duff layer and expose mineral soil for acorn germination, lots of oak started in the understory except in the north part of the stand which has a heavy red maple understory, most oak regeneration is from seed but there are some stump sprout oak also, stand also has a few scattered aspen and red maple saplings, most oak is cat-faced and fire scarred from the prescribed burns, lots of deer browse within the stand on the oak saplings
52	4130 - Aspen	High Density Sapling	4.6	15		stand cut in 1998, scattered oak and white pines were left

Compartment: 108 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	3102 - Grass	30.6	Natural Regen	Jack Pine	cut in 2009, A6/J6 which did not regenerate except to grass, dry except during spring run-off and during wetter summers and falls, does have a few wet spots which are sparse to even grass and a few higher knolls which are A2 but most is thick grass, south part is moderately stocked where there was more jack pine but the areas which were heaviest to aspen are now sparsely stocke with aspen/jack pine at best
7	3105 - Mixed Upland Herbaceous	14.4	Natural Regen	Jack Pine	cut and regenerated in 2009, natural regeneration is slow but stand should be forested next YOE,dry but with a water table close to the surface
8	3105 - Mixed Upland Herbaceous	9.0	No	Unspecified	Powerline ROW/M-55/shoulder and ditch, lots of encroaching jack pine saplings
11	3105 - Mixed Upland Herbaceous	3.5	Natural Regen	Jack Pine	cut and regenerated in 2009, natural regeneration is slow but stand should be forested next YOE,dry but with a water table close to the surface
15	6233 - Wet Meadow	3.6	No	Unspecified	grassy wet swale
17	3105 - Mixed Upland Herbaceous	3.0	Natural Regen	Jack Pine	cut and regenerated in 2009, natural regeneration is slow but stand should be forested next YOE,dry but with a water table close to the surface
19	50 - Water	14.8	No	Unspecified	man-made pond?
20	6233 - Wet Meadow	5.9	No	Unspecified	grassy wet swale
23	3105 - Mixed Upland Herbaceous	25.8	Natural Regen	Jack Pine	cut and regenerated in 2009, natural regeneration is slow but stand should be forested next YOE,dry but with a water table close to the surface
24	623 - Emergent Wetland	7.4	No	Unspecified	marsh grass
25	50 - Water	1.4	No	Unspecified	
28	6223 - Inundated Shrub Swamp	8.1	No	Unspecified	stand was habitat cut in 1988 and was J3 last YOE, now there's lots of jack pine motality probably due to a fluctuating water table
37	6230 - Cattail	475.5	No	Unspecified	marsh with cat-tails, etc.
39	50 - Water	46.8	No	Unspecified	not so much cat-tail as suounding stand and with lots of standing water on imagery

# Report 9 - Nonforested Stands

Compartment: 108 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
41	622 - Lowland Shrub	109.1	No	Unspecified	lowland brush
44	3102 - Grass	4.5	Yes	High	maintained wildlife opening
45	3102 - Grass	6.8	Yes	High	Maintained wildlife opening
46	6225 - Bog	22.3	No	Unspecified	bog
49	122 - Road/Parking Lot	2.6	No	Unspecified	Nellsville Road ROW
50	310 - Herbaceous Openland	1.6	No	Unspecified	Powerline ROW