



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42014

Entry Year 2018

Acreage: 2,353

County Luce

Management Area: Deer Park

Revision Date: 2016-08-22

Stand Examiner: Matt Payment

Legal Description:

T49N R11W Section(s) 19, 20, 21, 22, 28, 29, 30

Identified Planning Goals:

To maintain and/or enhance the health and quality of the forest ecosystem while providing for diversity of vegetative species, wildlife, and recreational needs.

Soil and topography:

Rubicon soils; rolling upland sand plains.

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

Compartment is completely surrounded by State lands.

Unique Natural Features:

NFI has identified the potential for goshawk, eagle, and osprey, as well as moose and wolves.

Archeological, Historical, and Cultural Features:

None Listed. Old logging grades can be found scattered throughout, most notably within stand(s) 16, 39, and 77.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Fisheries Values: None

Fisheries Concerns: No lakes or streams are located in or adjacent to this compartment. Fisheries Division has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 14 lies in the far northern portion of Luce county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is part of the Deer Park Management Area and has Kirtland's warbler, piping plover, American marten and red crossbill as featured species with important management concerns. The vegetation is primarily red and jack pine with a few stands of white pine scattered throughout the compartment. In general, stands have a fair diversity of tree species including various pine species, birch, oak and aspen. Overall, pre-settlement vegetation patterns appear to have been similar to the current landscape of this compartment.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. For example, retaining soft and hard mast producing species and red and white pine in jack pine final harvests will provide food sources, nest and den trees, and improve stand diversity. Regenerating stands without use, (or reduced use) of herbicide will result in higher benefit for wildlife. Wildlife species potentially using this compartment include white-tailed deer, black bear, spruce grouse, snowshoe hare, gray wolves, coyote and fox.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Formation subcrops below the glacial drift. Sand and gravel pits are not located in the area, but there may be some potential. However, the remoteness of the area makes commercial development unlikely. There is no economic oil and gas production in the UP and there is no metallic mineral potential in this area.

Vehicle Access:

From Newberry, go north on M-123 to Co Rd 407. Travel west and north on Co Rd 407 for ~ 18 miles to Co Rd 416. Go west on Co Rd 416 ~ 4 miles to Co Rd 375 and SE corner of compartment. Several fire lanes provide interior access.

Survey Needs:**Recreational Facilities and Opportunities:**

The Pine Ridge ORV trail runs throughout this compartment, and a portion of the Newberry to Grand Marais snowmobile trail (trail #8) runs along Co Rd 416 during the winter months. Several State Forest Campgrounds are located within easy proximity, with the closest being Holland Lake SFCG (~ 1 mile east of the SE compartment boundary) and Pretty Lake SFCG (~ 2 miles east and south of the SE compartment boundary). Numerous opportunities for blueberry picking during the summer months.

Fire Protection:

County Roads and interior fire lanes would provide control lines, if need be. The compartment is part of the Two Hearted Zone Dispatch area. Continuous Pine fuel types and response time could lend to larger fire runs, although diversity of Pine fuel types may provide reduced fire behavior and allow opportunities for aggressive suppression activities.

Additional Compartment Information:**The following reports from the Inventory are attached:**

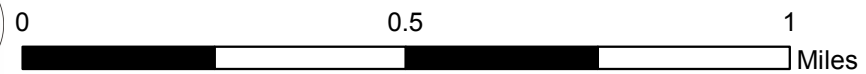
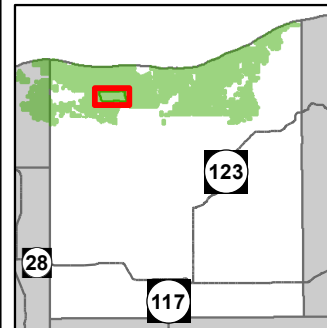
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

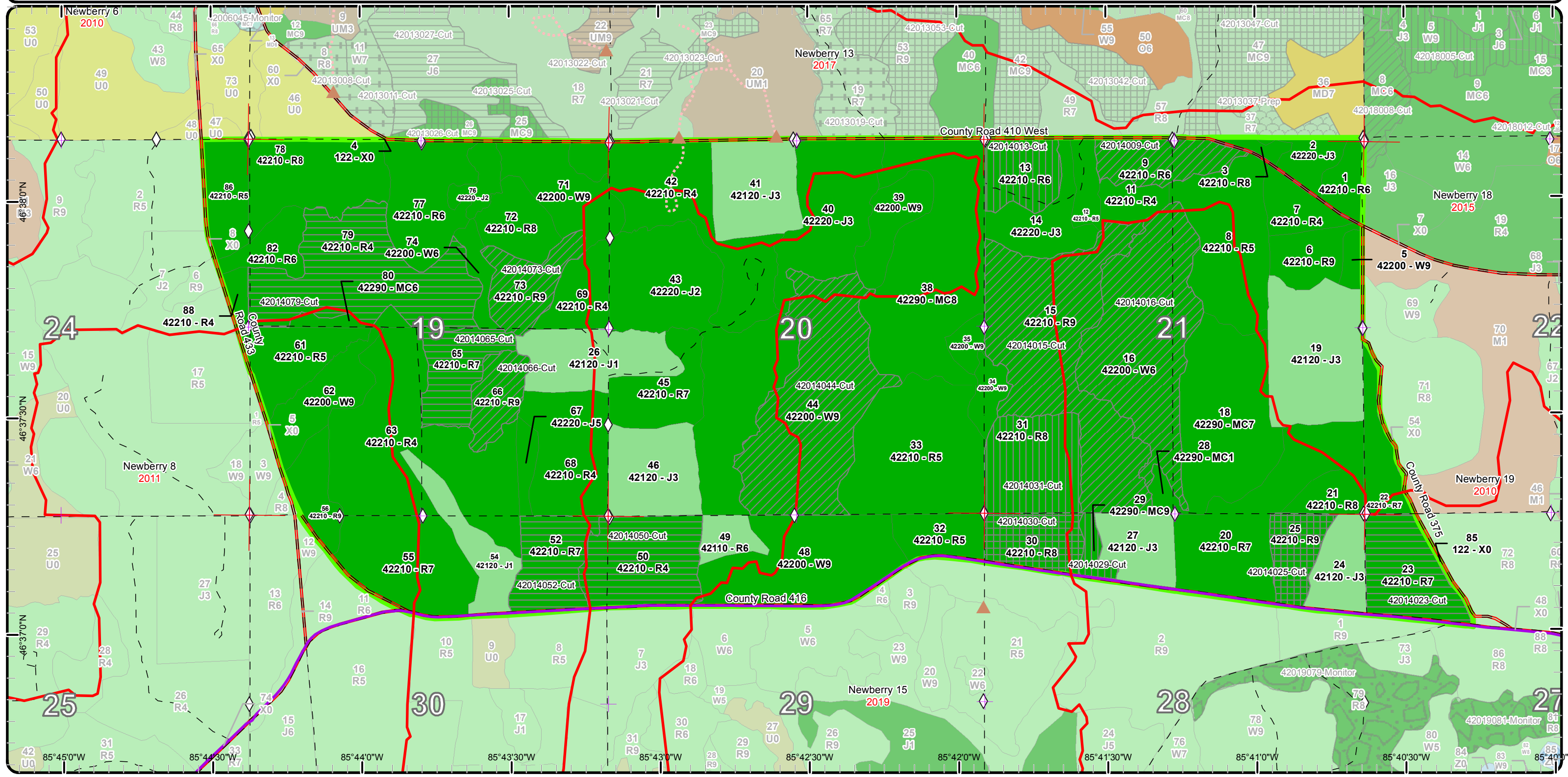
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 14
 T49N R11W Sec. 19-21, 27-30
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2018
 Acres: 2,353 GIS Calculated
 Examiner: Matt Payment
 Map Revised: 11/16/2016
 Map Phase: Post-Review

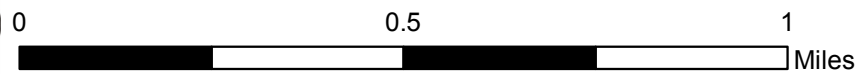
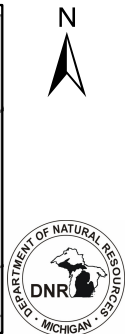
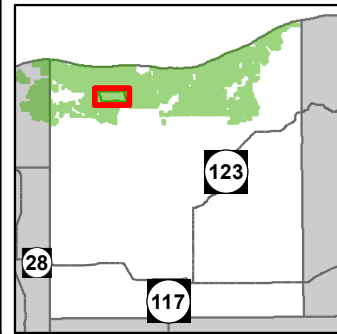


- Miris Corners
- + Remonumented Section Corners
- Field Grade GPS Corners
- ▲ Berms
- Designated ATV
- Designated Snowmobile Trails
- County Gravel Roads
- - Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 421 - Planted Pines
- 422 - Natural Pines
- 122 - Roads/Parking Lot
- Lakes
- Seed Tree (w/Reserves)

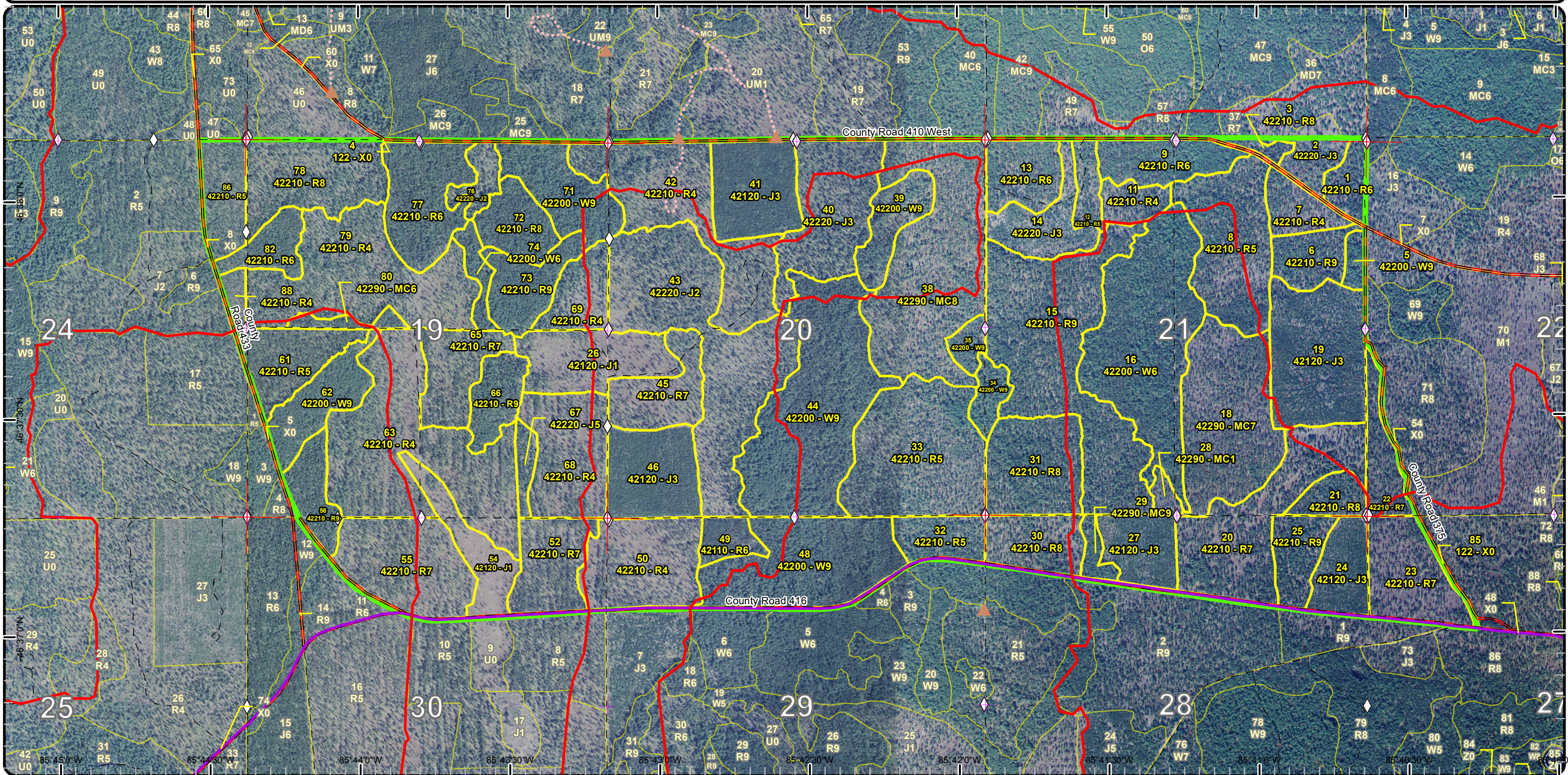


Stand Boundary Map

Compartment: 14
 T49N R11W Sec. 19-21, 27-30
 County: Luce
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 Acres: 2,353 GIS Calculated
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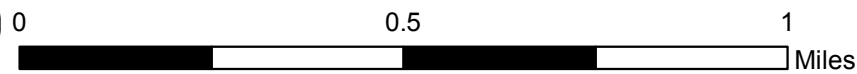
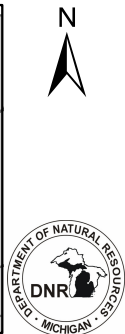
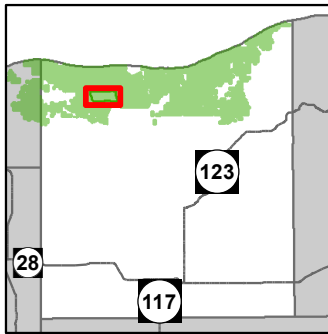


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- ▲ Berms
- Designated ATV
- Designated Snowmobile Trails
- County Gravel Roads
- Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- Stand Boundaries
- 421 - Planted Pines
- 422 - Natural Pines
- 122 - Roads/Parking Lot

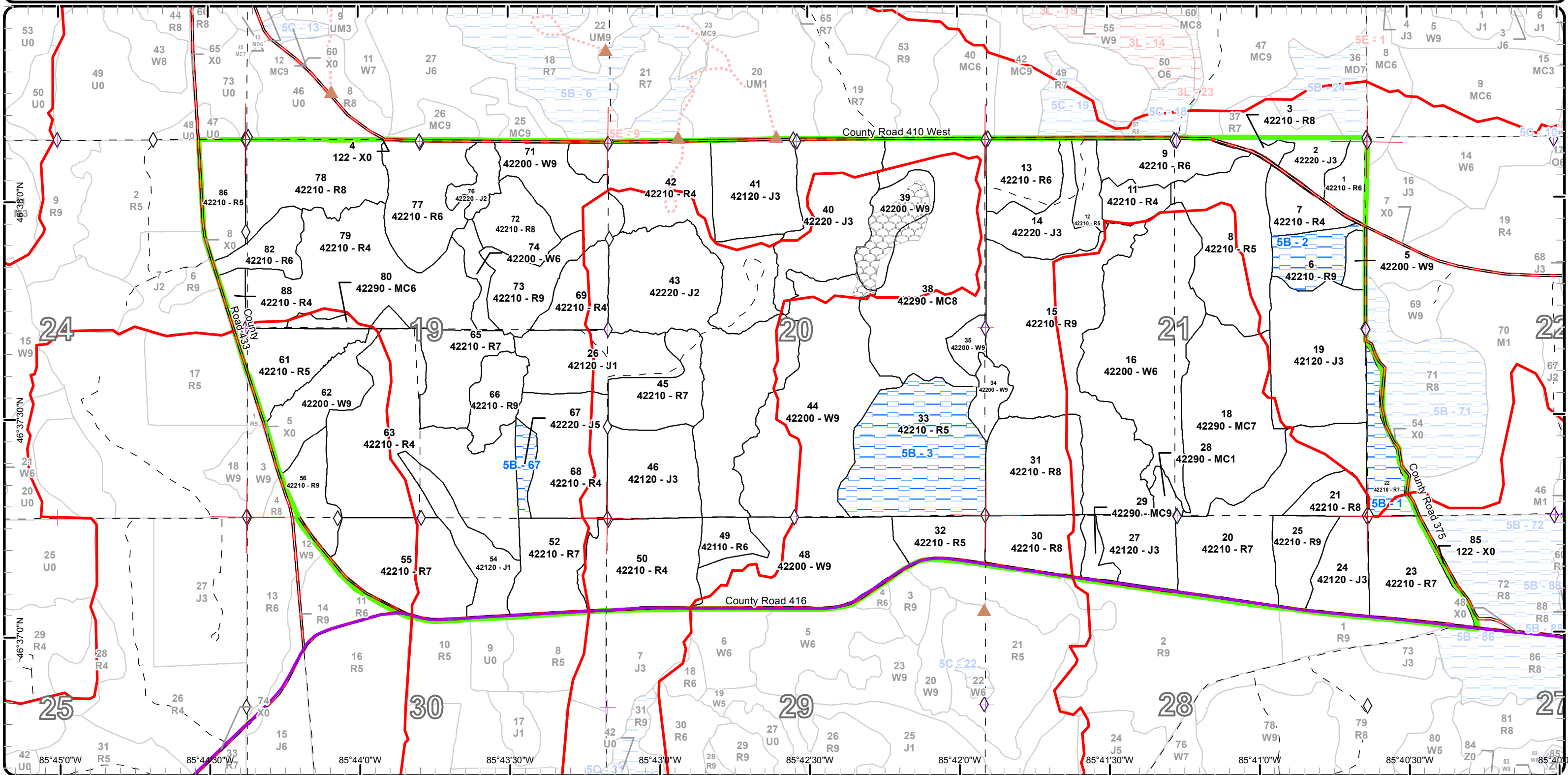


Special Conservation Areas & Site Conditions Map

Compartment: 14
 T49N R11W Sec. 19-21, 27-30
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2018
 Acres: 2,353 GIS Calculated
 Examiner: Matt Payment
 Map Revised: 11/16/2016
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Field Grade GPS Corners
- ▲ Berms
- Designated ATV
- Designated Snowmobile Trails
- County Gravel Roads
- - - Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Jack Pine	0	61	167	213	0	0	0	7	0	0	0	0	0	0	0	0	0	0	448
Natural Mixed Pines	0	5	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	173	184
Red Pine	0	0	0	0	0	0	32	0	584	490	0	0	0	0	0	0	0	224	1329
Urban	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
White Pine	0	0	0	0	0	0	0	0	0	12	113	0	0	0	0	0	0	241	366
Total	25	66	167	213	0	0	32	0	597	502	113	0	0	0	0	0	0	638	2352



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 14

Total Compartment Acres: 2,353

Commercial Harvest - 700
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Natural Mixed Pines	0	0	0	0	6	0	0	0	0	6
Red Pine	219	0	0	43	64	176	0	0	0	502
White Pine	0	0	0	0	0	192	0	0	0	192
Total	219	0	0	43	71	367	0	0	0	700

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	700	0	0	0	0	0	61	0	0	761
Next Step	0	446	332	0	66	0	429	0	0	1272
Total	700	446	332	0	66	0	490	0	0	2033



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
9	42014009-Cut	24.7	42210 - Natural Red Pine	Poletimber Well	89	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Cut all Jack Pine, Thin red and white pine 90-110BA.

Specs: Leave all oak, paper birch.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable red pine or mixed pine species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

13	42014013-Cut	22.7	42210 - Natural Red Pine	Poletimber Well	88	111-140	Harvest	Shelterwood with Retention	42210 - Natural Red Pine	Two-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Remove all Jack Pine. Shelterwood stand 30-50 BA removing red and white pine for regeneration purposes. Leave all oak and paper birch.

Specs:

Trench and plant if scarification fails.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable red pine or mixed pine species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

15	42014015-Cut	108.8	42210 - Natural Red Pine	Sawtimber Well	88	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Two-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Thin stand 90-110BA to release pole size timber and to release regeneration. Remove all jack pine. Easy access with a fire lane on the west and

Specs: south sides. Cut with stand 16 and 31. Leave all oak and paper birch. Normal ORV trail protection.

Next Step

Treatments:

Acceptable red pine or mixed pine species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

16	42014016-Cut	92.7	42200 - Natural White Pine	Poletimber Well	99	111-140	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Thin stand to 70-90 BA. Remove red and white pine. Cut all jack pine. Cut a component of paper birch to aid in regeneration. Release the

Specs: regeneration throughout the stand. Cut any aspen and red maple in the stand. Leave all oak and paper birch if present. Be sure to leave some large limby white pine for wildlife purposes. Follow normal ORV trail protection.

Next Step

Treatments:

Acceptable white pine or mixed pine species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
23	42014023-Cut	35.8	42210 - Natural Red Pine	Sawtimber Poor	86	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all species present. Due to lack of regeneration and possibly potential stand to burn leave no retention interior of the stand. Leave some trees near the edge of the stand in the red line for diversity focusing on maple and white pine.

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable Red pine or mixed pine species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

25	42014025-Cut	18.7	42210 - Natural Red Pine	Sawtimber Well	91	81-110	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Seed tree red and white pine. 20-30 BA to release regeneration. Remove all jack pine. Mark to leave. Leave white pine 1-3per acre. Leave all oak and paper birch.

If scarification fails, trench and plant stand.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); Planting, Initial Plant; SitePrep, Trenching; Monitoring, Artificial Regen(1yr)
Treatments:

Acceptable red pine and or mixed jack and white pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

26	42014026-Monitor	37.7	42120 - Planted Jack Pine	Sapling Poor	2	Immature	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor for JP in 2019.

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Jp mix of red and white

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

29	42014029-Cut	6.3	42290 - Natural Mixed Pine	Sawtimber Well	93	111-140	Harvest	Shelterwood with Retention	42210 - Natural Red Pine	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Shelterwood cut stand to release regeneration. Take down to 20-30 BA and allow advanced regeneration to grow. (Target larger red pine)

Specs: Remove all jack pine. Leave all oak and paper birch if present.

Trench and plant if scarification fails.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable red pine or mixed pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
30	42014030-Cut	24.0	42210 - Natural Red Pine	Sawtimber Medium	88	51-80	Harvest	Seed Tree with Retention	42210 - Natural Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Seed tree stand no more than 20BA left. Scarify stand. Trench and plant to red pine if scarification fails. Leave all oak and paper birch if present.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> red pine or mixed pine species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
31	42014031-Cut	41.6	42210 - Natural Red Pine	Sawtimber Medium	88	111-140	Harvest	Shelterwood with Retention	42210 - Natural Red Pine	Two-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Shelterwood stand taking it down to 20-30 BA. Remove all Jack Pine and thin or leave tree the red and white pine. Leave all oak and hemlock if present in the stand. Standard ORV trail protection.											
<u>Specs:</u>											
Trench and plant if scarification fails.											
<u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant											
<u>Treatments:</u>											
<u>Acceptable</u> red pine or mixed pine species											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
44	42014044-Cut	99.0	42200 - Natural White Pine	Sawtimber Well	105	111-140	Harvest	Crown Thinning	4220 - Natural White Pine	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Thin stand down to 100BA. Remove all Jack Pine. Leave all oak and paper birch if present. Standard ORV trail protection.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> mixed pine species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
50	42014050-Cut	45.4	42210 - Natural Red Pine	Poletimber Poor	80	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Remove all species present. Leave 1 red pine per 2 acres. Leave all oak and some white pine along edge or in red line if present.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> red pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
52 42014052-Cut	29.7	42210 - Natural Red Pine	Sawtimber Poor	81	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Clear cut stand leaving 1 large red pine per 2 acres. Burn stand and the trench and plant to red pine. If stand is not burned within two years of end of harvest trench and plant. Merge with adjacent stand 50.

Specs: Leave all oak, birch and non pine near edges in the red line. Mark leave trees interior not near roads for burn purposes. Standard ORV trail protection.

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable red pine and a minor mixed pine species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

54 42014054-Monitor	23.4	42120 - Planted Jack Pine	Sapling Poor	2	Immature	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Monitor in 2019 for 3 yr artificial. Fully stocked in 2016.

Specs:

Next Step

Treatments:

Acceptable jp,rp,wp.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

65 42014065-Cut	26.8	42210 - Natural Red Pine	Sawtimber Poor	76	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clear cut with retention. Leave 1 red or white pine per acre. Trench and plant back to red pine. Leave all oak and paper birch if present.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine with minor component of jack or white pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

66 42014066-Cut	18.0	42210 - Natural Red Pine	Sawtimber Well	82	111-140	Harvest	Crown Thinning	42210 - Natural Red Pine	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Crown thin stand taking BA down to 90-110BA. Remove all jack pine. Leave all oak if present.

Specs:

Next Step

Treatments:

Acceptable red pine with minor component of mixed jack and white pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
73	42014073-Cut	24.0	42210 - Natural Red Pine	Sawtimber Well	88	141- 170	Harvest	Crown Thinning	42210 - Natural Red Pine	Two-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Crown thinning taking down to 100-120BA. Remove all jack pine.

Specs:

Next Step

Treatments:

Acceptable red pine or minor mixed pine species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

79	42014079-Cut	81.4	42210 - Natural Red Pine	Poletimber Poor	71	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with retention. Leave 1 red or white pine per acre. Trench and plant back to red pine. Leave all oak and paper birch. Standard ORV

Specs: trail protection.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable red pine with minor component of jack or white pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 760.7**

Report 4 – Site Conditions

Newberry Mgt. Unit
Matt Payment : Examiner

Compartment: 14
Year of Entry: 2018

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

5B

448	441	7	0	Jack Pine	7
184	184	0	0	Natural Mixed Pines	
1329	1218	111	0	Red Pine	111
25	25	0	0	Urban	
366	366	0	0	White Pine	
2,353	2,235	118		Total Forested Acres	118
	95%	5%	0%	Relative Percent	

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

Site No.	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	18	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5B: Maintain for regeneration purposes	18	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	75	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Matt Payment : Examiner

Compartment: 14
Year of Entry: 2018

67	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



Report 5 – 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
	Potential Old Growth		SCA Removal	17
Comments				
Does not meet current SCA criteria.				

Mgt. Unit

Compartment:

Year of Entry



Report 6 – 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.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42210 - Natural Red Pine	Poletimber Well	11.3	87	111-140	Stand is mainly Red Pine with some Red Oak throughout. T. sale #28-87 "Triangle Sale" (unit1); cut in 1989. RP and Oak were left. Some PB noted also. Stand originally planted in 1930 w/replant in 1962 (3-0 RP). Regeneration is mix of J,W and M. Continue to manage for stand diversity. 1998: stand 1.
2	42220 - Natural Jack Pine	Sapling Well	11.7	25	Immature	Mainly Jack Pine with some residual Red and white pine and some red maple left from previous harvest. A few red oak and paper birch as well. T. sale #28-87, "Triangle sale" (Unit 2), cut 1989.
3	42210 - Natural Red Pine	Sawtimber Medium	4.0	82	51-80	Stand is mainly Red pine with white pine, paper birch, and red maple within the stand. Very small amount of red oak within the stand. Hold 10 years and possibly thin at that time. Small acre stand hold and possibly harvest with stand 8 in the future. Stand harvested via seed tree harvest as sale #035-07-01, Cement Monument Jack Pine. Complete 07/02/10. T. sale #28-87 "Triangle sale" (Unit 1), cut 1989. Original planting in F, 1930 with replant in 1962.
5	42200 - Natural White Pine	Sawtimber Well	5.3	88	81-110	Mainly white pine with red pine mixed in. White pine looks ready to be thinned or shelterwood. A few small Paper birch mixed throughout. Mostly white pine regeneration coming in. Blueberry brush. Possibly leave 10 years and look at again if not cut this entry. Thinned under t. sale #29-87, "Old Logging Camp" sale (unit 2) in 1990-92.
6	42210 - Natural Red Pine	Sawtimber Well	17.9	81	81-110	Red pine stand with white pine and jack pine mixed throughout. Larger advanced regeneration coming in of jack and red pine. Hold stand to allow regeneration to grow and become better established. Thin in 10 years. Easy access with old skid trail still throughout the stand. Level terrain. T. sale #29-87 "Old Logging Camp" sale (unit 1) - cut in 1990.
7	42210 - Natural Red Pine	Poletimber Poor	14.7	71	51-80	Mainly red pine in the overstory. There is little to no regeneration coming in. Shelterwood stand and scarify to promote regeneration. If scarification fails underplant rp/jp. Occasional paper birch within. Acceptable species include J,R,W,O,B. Stand harvested via seed tree harvest as sale #035-07-01, Cement Monument Jack Pine. Complete 07/02/10. FTP #42-706 completed 7/28/2011.
8	42210 - Natural Red Pine	Poletimber Medium	55.7	77	81-110	Red pine with some white and a little jack pine in this stand. Southern end is more open with the northern portion having been scarified and has some regeneration coming in. The ORV trail runs through this stand. Hold for 10 years. 2016 T. sale #001-99, "Co Rd 410 Pine". Sale cut 5/2002.
9	42210 - Natural Red Pine	Poletimber Well	24.7	89	111-140	Mainly red pine pole stand with white pine, red oak, paper birch and jack pine mixed throughout. Remove JP and thin RP when harvest; leave oak and PB. WP with weevil damage. Budworm damage.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
11	42210 - Natural Red Pine	Poletimber Poor	11.2	55	1-50	<p>Open Red pine with large white pine, some red oak and jack pine throughout. A large amount of advanced regeneration of coming in. Hold for 10 years to allow regeneration to grow. Possibly then go in and remove the larger overstory species to release the regeneration.</p> <p>"Co Rd 410 Pine" sale, #001-99 cut spring, 2002, with ~ 30-40 BA residual. Continue to monitor regeneration and follow-up with additional planting, if necessary. Will become a two-aged/uneven aged stand. The ORV trail runs along the south stand boundary. Regeneration re-check completed 5/20/08 = 627 t/ac (mix of R,J,W and Oak).</p>
12	42210 - Natural Red Pine	Poletimber Medium	10.0	55	1-50	<p>Larger overstory of red pine with a medium to heavy level of red pine and some jack pine regeneration coming in underneath of varying size classes.</p> <p>Old road through southern end of stand.</p> <p>T. sale #27-87 (Unit 2) "Sandhill Sale" - cut in 1991. Original stand was planted in 1929 with RP replanting in 1962-63. Some PB,W,J, and O present.</p>
13	42210 - Natural Red Pine	Poletimber Well	22.7	88	111-140	<p>Red pine pole / log stand with white pine, paper birch and red oak mixed in throughout. Sparse jack pine remain after last harvest. If harvested this entry cycle Remove the rest of the jack pine, thin the red and white pine.</p> <p>T. sale #27-87, "Sandhill Sale" (unit 1); jack pine removed in 1990-91. Misc. spp include: W,PB, RM. Old WP stumps within. Original planting F, 1929 with replant, 1963.</p>
14	42220 - Natural Jack Pine	Sapling Well	24.5	25	111-140	<p>Stand is almost pure jack pine with a few larger overstory red pine mixed in. Level terrain with a road through the middle of the stand.</p> <p>"Sandhill Sale" #27-87 (unit 2) cut in 1991; FTP42-278 scarification completed 10/91. Regeneration survey in 1996 showed "spotty regen", but within acceptable levels (500-1400 t/ac). JP is now 10 - 16 feet in height.</p>
15	42210 - Natural Red Pine	Sawtimber Well	108.8	88	111-140	<p>Stand is mainly Red pine with some white pine mixed throughout. A few jack pine, red maple, paper birch, and red oak are also present. Thin stand to release pole size timber and to release regeneration. Easy access with a fire lane on the west and south sides. Cut with stands 31 and/or 16. Advanced regeneration coming in of red and white pine varies in sizes from sapling 5-10 feet to Pole size red pine that's 10-25' and some larger.</p> <p>T. sale #007-98 "Stray Line Jack Pine", cut August-Sept., 1998. Good WP regeneration, but also red pine, which is acceptable. The ORV trail runs through middle of the stand.</p>
16	42200 - Natural White Pine	Poletimber Well	92.7	99	111-140	<p>Stand has large white pine with smaller red pine. Stand combines several areas of thick (~120-140 BA) and thin (~70 BA) white pine following old logging grades/spurs. In addition, there is an inclusion of red pine which was not treated with adjacent t. sale the previous entry. The north end of the stand contains a larger oak component, and paper birch is mixed throughout. Some spike tops/dead tops on older WP. Paper birch is dying out and of poor quality. Some aspen and red maple sparsely scattered throughout the stand. Advanced white pine regeneration ranging from 5-25 feet.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	42290 - Natural Mixed Pine	Sawtimber Poor	70.2	89	81-110	<p>Stand has varying size classes of red pine. White pine is larger with some jack pine that was left after last harvest. Paper birch is dead or dying.</p> <p>Planted in 1930 (2-0 R,J) with replant in 1962 (3-0 R); The ORV trail runs through a small portion of the stand. 1998: stand 8</p> <p>Stand harvested via shelterwood as sale #035-08-01, Double Plant Red Pine/ Completed 07/02/10.</p>
19	42120 - Planted Jack Pine	Sapling Well	59.7	22	Immature	<p>Jack pine stand with red & white pine coming in with sparse paper birch.</p> <p>"Old Logging Camp" sale #29-87 (unit 3), cut in August, 1992. FTP42-372: machine plant JP (2-0 stock) completed 6/95.</p>
20	42210 - Natural Red Pine	Sawtimber Poor	65.9	87	51-80	<p>Stand has large white pine with smaller diameter red pine throughout. Young regeneration coming in looks really good. Hold stand for 10 years to allow regeneration to become better established before removing the overstory. Three distinct age classes within the stand. "Crosscut Jack Pine", sale#19-98 - cut summer, 2000. Scarification completed (42-438) fall,2000. Lots of RP regeneration esp. within old skid/haul roads. Regen is 1 - 3 feet in height. Acceptable regen = J,W,R. Originally planted in 1930 with replant in 1962. The ORV trail runs through north portion of the stand.</p>
21	42210 - Natural Red Pine	Sawtimber Medium	11.7	87	51-80	<p>Stand mainly red and white pine. All jack pine was removed last harvest but some trace amounts remain. Some paper birch and sub merchantable red maple throughout. Smaller red pine coming in nicely along with some advanced regeneration. Possibly combine with stand 22 this entry or in the future. ORV trail runs along northern edge of the stand.</p> <p>Rolling terrain; limby RP - some mistletoe. Stand originally planted in 1930, with replant (R) in 1962. Stand harvested via shelterwood as sale #002-08-01, 375 Triangle Pine. Completed 07/02/10. FTP #42-726 completed 8/15/2011.</p>
22	42210 - Natural Red Pine	Sawtimber Poor	17.9	87	51-80	<p>Stand harvested in 2010. Large red pine and white pine are the main component left. Some areas with thicker more advanced regeneration while other areas that are more sparse. Advanced red pine regeneration in the stand. Leave for another 10 years before entering and removing the overstory. The ORV trail runs through the stand.</p> <p>Stand harvested via final harvest as sale #002-08-01, 375 Triangle Pine. Completed 07/02/10. FTP #42-726 completed 8/15/2011. Planted in F, 1930 (2-0 J,R) with replant F, 1962 (3-0 R).</p>
23	42210 - Natural Red Pine	Sawtimber Poor	35.8	86	1-50	<p>Stand is open red and white pine, which was previously thinned to what appears to be a shelterwood. Little to no regeneration coming in. Very few white pine left in the stand. Heavy budworm damage noted in 2006. Stand planted, Sp, 1931. Old charred WP stumps within. Removed Jack pine and manage for J with R,W. Thinned RP and removed Aspen, Red maple.</p> <p>Stand harvested via final harvest as sale #002-08-01, 375 Triangle Pine. Completed 07/02/10. FTP #42-726 completed 8/15/2011.</p>



Stand	Newberry Mgt. Unit		Report 7 – Forested Stands			Compartment: 14 Year of Entry: 2018
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42120 - Planted Jack Pine	Sapling Well	21.4	23	1-50	Jack pine stand planted in 1994. Some large residual red pine left after last harvest. Stand looks in good shape. T. sale #4-88 "Stodgy Jack Pine" (unit 1) - cut fall, 1988. A few scattered RP residuals. FTP42-231: scarification completed 8/1989. Plant Sp, 1994 w/ 2 - 0 JP (42-317).
25	42210 - Natural Red Pine	Sawtimber Well	18.7	91	81-110	Nice red pine with some large white pine. Various heights and sizes to regeneration (from 5' tall WP up to 4" dbh and 25' tall and 1" dbh RP, 10 foot tall to 7" dbh RP poles). Some red maple saplings throughout. Vary size and age classes within the stand. T. sale #4-88, "Stodgy Jack Pine" (unit 2) - cut fall, 1988. W42-232: oak underplanting.
26	42120 - Planted Jack Pine	Sapling Poor	37.7	2	Immature	Jack pine plantation. JP = 600 TPA. Regen survey done in 2016 JP=Fully Stocked. Do a second regen check in 2018. Stand harvested as "Square Blocks Jack Pine", sale #005-08-01. Complete 12/07/09. Scarification completed 2009 and 2010.
27	42120 - Planted Jack Pine	Sapling Well	22.7	23	Immature	Stand of planted jack pine. Scattered white pine around the edges of stand. Some Paper birch clumps in NW corner of the stand. T. sale # 06-88, "Nota Bene Jack Pine" - cut summer, 1988. FTP42-230: scarified 8/89. Planted Sp, 1994 (2-0 JP). Regeneration is now 8 - 15 feet in height.
28	42290 - Natural Mixed Pine	Sapling Poor	4.6	7	Immature	Stand mainly red pine and some mixed white pine regeneration coming up. Stand has larger overstory trees still left after last harvest. Stand harvested via final harvest as sale #035-08-01, Double Plant Red Pine. Completed 07/02/10.
29	42290 - Natural Mixed Pine	Sawtimber Well	6.3	93	111-140	Small stand with some limby white pine. Some scattered paper birch. Heavy white pine regeneration coming in. Large white and red pine mainly throughout the stand.
30	42210 - Natural Red Pine	Sawtimber Medium	24.0	88	51-80	Stand is mainly larger red and white pine left after last harvest. Regeneration coming in looks great. Previous inventory indicates to remove the overstory species. This is to allow for regeneration to grow. T. sale #19-98, "Crosscut Jack Pine" (unit 1) - cut summer, 2000. FTP42-438: scarification completed 8/01; regeneration survey 5/2004 = 416 t/ac. Mixed regeneration, which is acceptable. Lots of small W,R seedlings 1-10 feet tall.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	42210 - Natural Red Pine	Sawtimber Medium	41.6	88	111-140	<p>A nice stand of red pine. Stand had jack pine removed summer, 1994. Jack pine is coming back in patches throughout the stand. Good red and white pine regeneration coming in. Southwest corner is more open has less regen. Some paper birch throughout but is dying out.</p> <p>"Budworm Jack Pine" sale #35-91. Some sweet fern ground cover with blueberry and bracken fern.</p>
32	42210 - Natural Red Pine	Poletimber Medium	17.3	54	81-110	<p>Scattered jack pine and paper birch in the stand. Some smaller red pine 8-10". Hold stand for another 10 years and then look at it again for possible harvest.</p> <p>Sale #17-88, cut fall, 1988. Jack pine was removed and red pine/white pine were left/marked. Original stand was planted F, 1937 w/replant Sp, 1963 (3-0 RP). Thicker pockets of timber intermixed.</p>
33	42210 - Natural Red Pine	Poletimber Medium	75.1	80	81-110	<p>Open red pine stand with red, white, and jack pine. Some larger white pine on the north end of the stand. Hold for 10 years to allow regeneration to become better established then remove the overstory to release it.</p> <p>"Rusty Horseshoe" sale #21-98; cut spring, 1999. FTP42-458: scarification completed 6/99. Regeneration survey complete 5/03 = 499 t/ac. JP regen now 2 - 4 feet in height. Some thicker areas of residual pine within (up to 100 BA).</p>
34	42200 - Natural White Pine	Sawtimber Well	9.5	96	111-140	<p>Nice white pine stand thinned part of the "Rusty Horseshoe" sale #21-98 cut spring 1999. High Basal area, some white spruce coming in. Sparse hemlock in the stand. Some pole size white pine in stand as well.</p>
35	42200 - Natural White Pine	Sawtimber Well	7.0	86	81-110	<p>Large white and red pine. Most of JP w/in is dead/dying already. Not worth destroying advanced WP (and RP) regeneration to harvest. May be able to cut a few JP with adjacent thinning (stands 36,37,38), to provide access. Some thicker patches of WP to leave for diversity. Some paper birch in the stand and red oak. Hold for 10 years for regeneration purposes.</p>
38	42290 - Natural Mixed Pine	Sawtimber Medium	96.6	87	81-110	<p>Stand has been thinned removing jack and white pine. Nice white pine regeneration coming in. Patchy larger diameter pockets of red and white pine. Some paper birch and oak within stand - oak primarily at the north end. The ORV trail runs through stand, and will be protected/maintained throughout harvest. Scarification may or may not be required for additional regeneration. Hold for 10 years then evaluate stand for thinning again. Stand harvested via shelterwood as sale #034-08-01, Remnant Grades Pine. Completed 02/18/10.</p>
39	42200 - Natural White Pine	Sawtimber Well	20.4	98	51-80	<p>Mainly white pine with a component of red and jack pine and sparse paper birch in the stand. Several old grades cross through stand, making it unique.</p> <p>Stand harvested via thinning as sale #034-08-01, Remnant Grades Pine. Completed 02/18/10.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42220 - Natural Jack Pine	Sapling Well	51.8	16	Immature	<p>Stand shelterwood left low Red pine basal area. Some scattered large white pine. Good jack pine regeneration coming in. Leave stand alone, not worth cutting overstory and damaging regeneration coming in. Few red pine appeared to have bug damage in the northwest corner.</p> <p>T. sale #6-98, "Foundation Jack Pine" - cut April, 1999. Scarification completed 8/99 (FTP #42-428: 47.1 acres). Jack pine is now 5-10 feet in height. Some A3 within stand, which is acceptable for stand diversity. Residual pine and oak left also - thicker at south end of stand. Regeneration count completed 5/14/07 = 978 t/ac. The ORV trail runs through two separate portions of the stand.</p>
41	42120 - Planted Jack Pine	Sapling Well	36.7	23	Immature	Plant jack pine stand. Planted in 1994 w/ 2 - 0 JP. Jack Pine is now 10-20 feet in height.
42	42210 - Natural Red Pine	Poletimber Poor	67.9	76	51-80	<p>Stand thinned 2009. Residual large red and white pine left. Regeneration is coming in good. The ORV trail runs through the stand. Leave stand for 10-20 years before removing remaining overstory.</p> <p>Stand harvested as "April Fools Jack Pine", sale #018-08-01. Complete 12/07/09. Scarification completed August 2009 and 2010.</p> <p>Regen 2013: Unit 2 jack pine 595 TPA and white pine 893 TPA. Passed. Lots of WP regen.</p>
43	42220 - Natural Jack Pine	Sapling Medium	104.9	16	Immature	<p>Mainly jack pine regeneration coming back very nicely. Larger overstory red and white pine with some sparse paper birch. North end heavier regen vs sparse southern end. Hold 10 year evaluate removing overstory then.</p> <p>T. sale # 5-98, "Log Cabin Blind Jack Pine" - cut May-July, 1999. Residual red and white pine left. Scarification completed 8/01 (FTP42-427). Continue to monitor for successful regeneration.</p>
44	42200 - Natural White Pine	Sawtimber Well	99.0	105	111-140	Stand is very variable as to density - several stands blend together. Older natural WP, as well as planted R,J (in 1929 and 1940). Will all be thinned the same when treatment occurs. Some PB,A within and mixed softwood spp include: J, S. The ORV trail runs through a small portion of the stand. Quite a few WP with dead tops.
45	42210 - Natural Red Pine	Sawtimber Poor	27.0	76	Unspecified	<p>Waiting to be planted. Heavier red pine poles on the south end of the stand.</p> <p>Northern part of the stand was trenched 2015. Stand harvested as "Square Blocks Jack Pine", sale #005-08-01. Complete 12/07/09. Scarification completed 2009 and 2010.</p>
46	42120 - Planted Jack Pine	Sapling Well	36.7	25	Immature	Stand of jack pine planted 1994. T. sale #7-88, "Obsteperous Jack Pine" - cut 9/88. FTP42-227: scarification completed 1989. Regeneration survey in 1993 = 33% stocking. Planted Sp, 1994 with 2-0 JP. Jack pine is now 15-25 feet tall.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	42200 - Natural White Pine	Sawtimber Well	65.1	95	141-170	Natural WP stand, although there is a portion of the stand planted Sp, 1963 w/3-0 RP. Variable stand density and various sizes of regeneration. Old grades run through stand. Mixed species include some red maple and paper birch and beech. The ORV trail runs through the stand. Very similar to stand 44.
49	42110 - Planted Red Pine	Poletimber Well	10.5	54	111-140	Red pine stand planted in 1963. Some white and jack pine mixed throughout with some sparse paper birch. Stand appears healthy. Few small openings in the Southeast corner.
50	42210 - Natural Red Pine	Poletimber Poor	45.4	80	51-80	Open stand of red pine left from last harvest. Regeneration is not coming in very well. Variable sized white pine regen. 2013 Regen count had JP 249 TPA. Heavy budworm damage noted in 2006 - harvested jack pine, but left Red Pine for visual management. Stand harvested as "Square Blocks Jack Pine", sale #005-08-01. Complete 12/07/09. Scarification completed 2009 and 2010.
52	42210 - Natural Red Pine	Sawtimber Poor	29.7	81	81-110	Stand of red pine with some scattered white pine and some scattered paper birch. Regeneration is minimal and stand should have overstory removed and either be trenched and planted or burned and trenched and planted. T. sale #20-98, "Tank Lake Section 19 Pine" (unit 3) - cut 8/2000. Jack pine removed and red pine thinned. FTP42-448: scarification completed 8/01. Regeneration survey 5/04 = 335 t/ac (mixed regen of J,W,R). Continue to monitor regeneration for success.
54	42120 - Planted Jack Pine	Sapling Poor	23.4	2	Immature	Jack pine stand planted in 2015. Some residual larger red pine scattered throughout. Regen check required again in 2019. Jp=Fully stocked 580 tpa in 2016. Stand harvested via final harvest as sale #019-08-01, Pine Junction Jack Pine. Complete 05/13/10.
55	42210 - Natural Red Pine	Sawtimber Poor	49.3	78	111-140	Lots of smaller red pine. Not a lot of regeneration coming in. Heavy budworm damage to jack pine noted in 2006. Removed jack pine and left red, white pine, except in areas where there are thicker patches which were thinned out. The ORV trail runs through stand. Approximately west 2/3 of stand scarified in 2009. Too thick to scarify. Stand harvested via final harvest as sale #019-08-01, Pine Junction Jack Pine. Complete 05/13/10.
56	42210 - Natural Red Pine	Sawtimber Well	17.6	89	111-140	Natural pine stand w/additional interplantings in F, 1950 (R,J) and Sp, 1965 (R). Transition edges with more JP mixed within, and also smaller RP. Aspen and PB component present.
61	42210 - Natural Red Pine	Poletimber Medium	28.2	73	111-140	Pole size red pine stand with white pine and paper birch mixed in. Was evidence of some top kill in a small pocket in the Northeast corner along the fire lane. T. sale #20-98, "Tank Lake Section 19 Pine" - jack pine removed 6/2000.
62	42200 - Natural White Pine	Sawtimber Well	26.6	97	111-140	Larger white pine stand with red pine mixed in throughout. A small component of Jack pine and paper birch mixed in. Decent white pine regeneration coming in. Easy access into the stand. Hold for another 10 years to allow advanced regeneration to become better established.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	42210 - Natural Red Pine	Poletimber Poor	100.8	78	81-110	<p>Stand was thinned in thicker areas and had some white and all jack pine removed. Regeneration coming in is minimal due to the high basal area that was left in most parts of the stand. Possibly hold for 10 year to allow for regeneration to grow or take more basal area out and scarify stand. To thick to scarify all areas last time. The ORV trail runs through stand.</p> <p>Stand harvested via final harvest as sale #019-08-01, Pine Junction Jack Pine. Complete 05/13/10. Regeneration work (scarification) yet to be done as of 01/26/11. Regeneration check needed in 2015.</p>
65	42210 - Natural Red Pine	Sawtimber Poor	26.9	76	51-80	<p>Stand is fairly open in most places with some jack pine coming in thicker in some areas. Most areas have little to no regeneration coming in. Stand was done in 2001. Cut with any adjacent stand and trench and plant back to red or jack pine. Regen survey showed TPA of mixed species. Poorly stocked stand. 2016.</p> <p>T. sale #20-98, "Tank Lake Section 19 Pine" (unit 2), cut 7/2000. Jack pine, aspen removed and red pine thinned.</p>
66	42210 - Natural Red Pine	Sawtimber Well	18.0	82	111-140	<p>Stand of nice red pine with mixed white pine and some birch throughout. Stand should be thinned and combined with stand 65.(see stand 65) Old N/S trail is thick with 5-10 foot height RP seedlings.</p> <p>T. sale #20-98, "Tank Lake Section 19 Pine" (unit 2) - cut 7/2000. (Removed jack pine, thinned R,W.) Old grade within stand.</p>
67	42220 - Natural Jack Pine	Poletimber Medium	6.9	70	51-80	<p>Area which failed from original planting in 1939; slowly seeding in - more open-grown stand with some R,W. Heavy budworm damage noted in 2006. Stand should be left for retention/green-up requirements.</p>
68	42210 - Natural Red Pine	Poletimber Poor	43.6	78	81-110	<p>Pole stand of red pine left after last thinning. Mostly pole size pulp. Scarification seems to have failed, not a lot of regeneration coming up underneath. ORV trail runs through the stand. Hold for 10 years and clear cut and trench and plant if not prescribed this entry.</p> <p>Heavy budworm damage to jack pine noted in 2006. Remove jack pine and leave red, white pine, except where patches are thicker and need to be thinned lightly. Stand harvested as "Square Blocks Jack Pine", sale #005-08-01. Complete 12/07/09.</p>
69	42210 - Natural Red Pine	Poletimber Poor	19.7	69	1-50	<p>Stand edges are thicker with residual WP. Manage for mixed pine now, with aspen for diversity. "Carry-Over Jack Pine", sale #11-99. Sale completed 06/02. FTP 42-546: completed August, 2002. This stand was originally a two-aged jack pine/red pine stand that was prescribed for a delayed-removal.</p>
71	42200 - Natural White Pine	Sawtimber Well	32.2	89	141-170	<p>The ORV trail runs through the stand. Diverse WP regeneration (1 - 8 " dbh and 6 - 30 feet in height) established within. WP has weeviling. Stand should be thinned this entry but could be left until next if necessary.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
72	42210 - Natural Red Pine	Sawtimber Medium	21.0	75	1-50	<p>Red and white pine overstory. Scattered regeneration throughout the stand. Remove the remaining overstory and trench and plant to jack pine. If not done this entry prescribe next entry for cutting.</p> <p>T. sale #51-66 - thinning. Planting in 1931 w/ 2-0 R,J; add'l portion underplanted w/ 3-0 RP in 1965. Understory regeneration also includes R2/M1, in places. Heights average 10-28 feet. Release regen next entry? Some mature aspen clones within.</p>
73	42210 - Natural Red Pine	Sawtimber Well	24.0	88	141-170	<p>Stand was thinned in 1992. Mainly red with some white and a small component of jack pine mixed in throughout. Old railroad grade runs east/west through northern portion of the stand.</p>
74	42200 - Natural White Pine	Poletimber Well	8.6	85	81-110	<p>Stand is mainly white pine. There are a few dead tops through the stand. Some red and jack scattered within. Portion of stand planted in 1931 (2-0 R,J), and also interplanting in 1965 (3-0 R). Stand transitions into adjacent timber types. Jack pine has budworm damage. Possibly thin or hold until next entry if surrounding stands are harvested.</p>
76	42220 - Natural Jack Pine	Sapling Medium	10.0	15	Immature	<p>Scarified jack pine stand with good regeneration coming in. Some larger overstory red pine scattered throughout.</p> <p>T. sale #18-98, "G.M. Section 19 Pine" (unit 3) - cut 4/00. FTP42-449: scarification completed 8/01 with regeneration survey 5/04 = 505 t/ac (mixed regen). Acceptable mix of species. 1998: stand 49</p>
77	42210 - Natural Red Pine	Poletimber Well	40.2	86	111-140	<p>West edge of stand follows old grade. Patches of thicker RP poles along grade, and at south end of stand (from planting - 1931). Areas interplanted with RP (3-0) in 1965. Also planting of W,J in 1929. Occasional A,B, esp. along Co Rd 410.</p>
78	42210 - Natural Red Pine	Sawtimber Medium	45.8	76	51-80	<p>Large red and white pine left in the stand. Young red and white pine with some jack pine coming in. Little paper birch mixed in.</p> <p>T. sale #18-98, "G.M. Section 19 Pine" (unit 1)- cut 6/00. FTP42-449: scarification completed 8/01 with regeneration survey 5/04 = 505 t/ac (mixed regen of J,R,W). Plantings in 1929 and 1965.</p>
79	42210 - Natural Red Pine	Poletimber Poor	81.4	71	51-80	<p>Multi age stand with red pine from 5-14". White pine is of various sizes as well. Red maple, paper birch, and aspen are also present in the stand. Very little regeneration coming, old comments mention converting to red pine if jack pine scarification failed. The remaining overstory should be removed if conversion is the way this stand goes. Cut in 2009.</p> <p>Stand planted in 1929 w/ 3-0 W and 2-0 J; also interplanted with 3-0 RP in 1965. Mixed commercial spp include: A,B,W. Jack pine with budworm damage.</p> <p>Stand harvested as "Historic Jack Pine", sale #027-08-01. Complete 12/07/09. Scarification yet to be done as of 01/26/10.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	42290 - Natural Mixed Pine	Poletimber Well	6.2	76	81-110	Mixed red, white and jack pine. Small acreage stand. Varying diameter throughout. East end has more white pine than the rest of the stand. Natural pine, with plantings in 1929, 1965 also. If cut harvest with stand 79 and convert to red pine through trenching and planting.
82	42210 - Natural Red Pine	Poletimber Well	15.4	76	111-140	Mainly red and white pine. Red pine is larger than the white. Quite a bit of 8-10" white pine. Release regeneration. T. sale #18-98, "G.M. Section 19 Pine" (unit 2) - thinned 5/00. Some regeneration started in understory; mostly WP ~ 3 foot tall.
86	42210 - Natural Red Pine	Poletimber Medium	22.4	77	111-140	Mainly red pine with mixed commercial spp. Includes: paper birch, aspen, red maple, white pine pulp. Once stand re-establishes root firmness after last harvest, and crown development, prescribe seed tree harvest (10-20 years following cut). MO of mixed pine is acceptable. High amount of regeneration coming into the stand. Hold for regeneration purposes. Prescribe next entry for shelterwood. Stand harvested via shelterwood harvest as sale #019-11-01, Tent Stake Pine. Completed 06/26/2012. Regeneration check needed in 2016.
88	42210 - Natural Red Pine	Poletimber Poor	5.3	71	81-110	Larger red and white pine present but mainly stand is smaller red pine pulp. Borders Co Rd 433; ORV trail on S. edge. MO of mixed pine is acceptable. 2016 Stand harvested via final harvest as sale #019-11-01, Tent Stake Pine. Completed 06/26/2012. Regeneration is coming in well throughout the stand. Fully stocked. Regen 2016: 274 TPA of white pine and 1370 TPA of red maple. Residual BA of 60.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	122 - Road/Parking Lot	8.9	No	County Road 410 W
85	122 - Road/Parking Lot	16.5	No	OPIC - FMD: County Road 375 2016