



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42124

Entry Year 2019

Acreage: 1,723

County Luce

Management Area: County Line Hardwoods

Revision Date: 2017-08-30

Stand Examiner: Amy Douglass

Legal Description:

T45N R09W Sections 19, 30 & 31.

Identified Planning Goals:

To maintain forest health and sustainability while enhancing diversity, with emphasis on wildlife and recreation needs.

Soil and topography:

The soils are primarily Kalkaska sand and Kalkaska sand burned. Associated upland soils are Kalkaska loamy sand and Rubicon sand. The upland is level to rolling terrain. The forested lowland soils consist of Croswell-Spot complex and Spot-Finch complex with a couple scattered pockets of Kinross muck. The lowland open areas are comprised of Dawson, Greenwood, and Loxley soils.

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

Ownership is primarily state lands within the compartment with some private land (generally around 40 acre parcels) adjacent to the north and west. The southern boundary borders Hiawatha Sportsman's Club lands. Recreation and hunting are the biggest uses in and around the compartment.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

None listed, but there are notes of an old shingle mill that had operated in the area.

Special Management Designations or Considerations:

Generally upland areas are harvested in the non-winter months due to snowmobile and ski trails in the area, but HRD may have some impact on harvest timing. Well signed trails and working with the clubs will try to lessen any potential impacts harvesting may have. A motorcycle trail also crosses the compartment.

Watershed and Fisheries Considerations:

Fisheries Values: None

Fisheries Concerns: There are no waterbodies with fisheries in this compartment so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 124 lies in south central Luce county in the St. Ignace ecological sub-subsection. The compartment is in the County Line Hardwoods Management Area and black bear, goshawk, red shouldered hawk, ruffed grouse, snowshoe hare and white-tailed deer are assigned featured species. The compartment is largely comprised of aspen and red pine with scattered stands of northern hardwoods, treed bogs, and a small amount of spruce. Stands are well intermixed throughout the compartment. Forested corridors should be maintained to facilitate ease of movement between upland and lowland areas.

Wildlife objectives will be achieved by maintaining a conifer component in aspen and northern hardwood harvests. Hemlock and yellow birch will be enhanced when possible. Hardwood components will be retained in red pine thinnings and soft and hard mast producing species will be left for food and snag production. Existing nest and den trees, snags, and woody debris will be maintained in stands where they exist. Low ground areas will be buffered to protect wetland wildlife values and habitats.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are located to the northwest, near Newberry, and there appears to be some sand and gravel potential within the compartment. Limestone is mined at the Hendricks Quarry five miles to the east. The same limestone may be too deep here to be economically mined. There is no known metallic mineral potential in this area, and there is no known potential for economic oil and gas production in the UP.

Vehicle Access:

Two county roads end at the north end of the compartment (County Road 403 and County Road 401). McCleod Road, Pullup Lake Road and Section 34 Road are primary roads in the area. Several other two-track sand roads run throughout the compartment. A major gated access to northern portion of the Hiawatha Sportsman's Club lies at the southern edge.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

Snowmobile trail 9, 9/45 and 455 all travel within or border the compartment. A multi-use trailhead for snowmobile, ORV and Canada Lakes pathway is adjacent. The Newberry-Rexton motorcycle trail crosses the compartment. The Canada Lakes pathway, a volunteer groomed cross-country ski trail, is located adjacent to the west. The area is also used for hunting, berry picking and wildlife viewing.

Fire Protection:

Large fire runs are not likely, because of the diversity of fuel types. Upland ground and a fair number of two tracks provide good access for heavy equipment. Risk to private property should be minimal because of the access and hardwood fuel types.

Additional Compartment Information:

HRD has been positively identified 1.5 miles north of this compartment.

The following reports from the Inventory are attached:

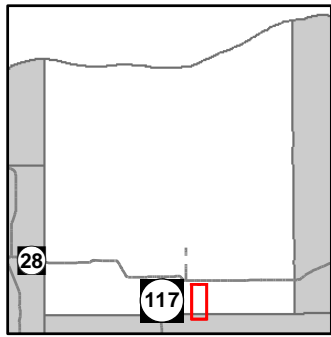
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

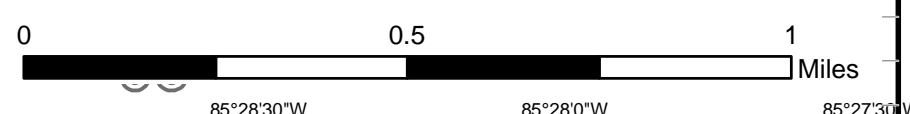
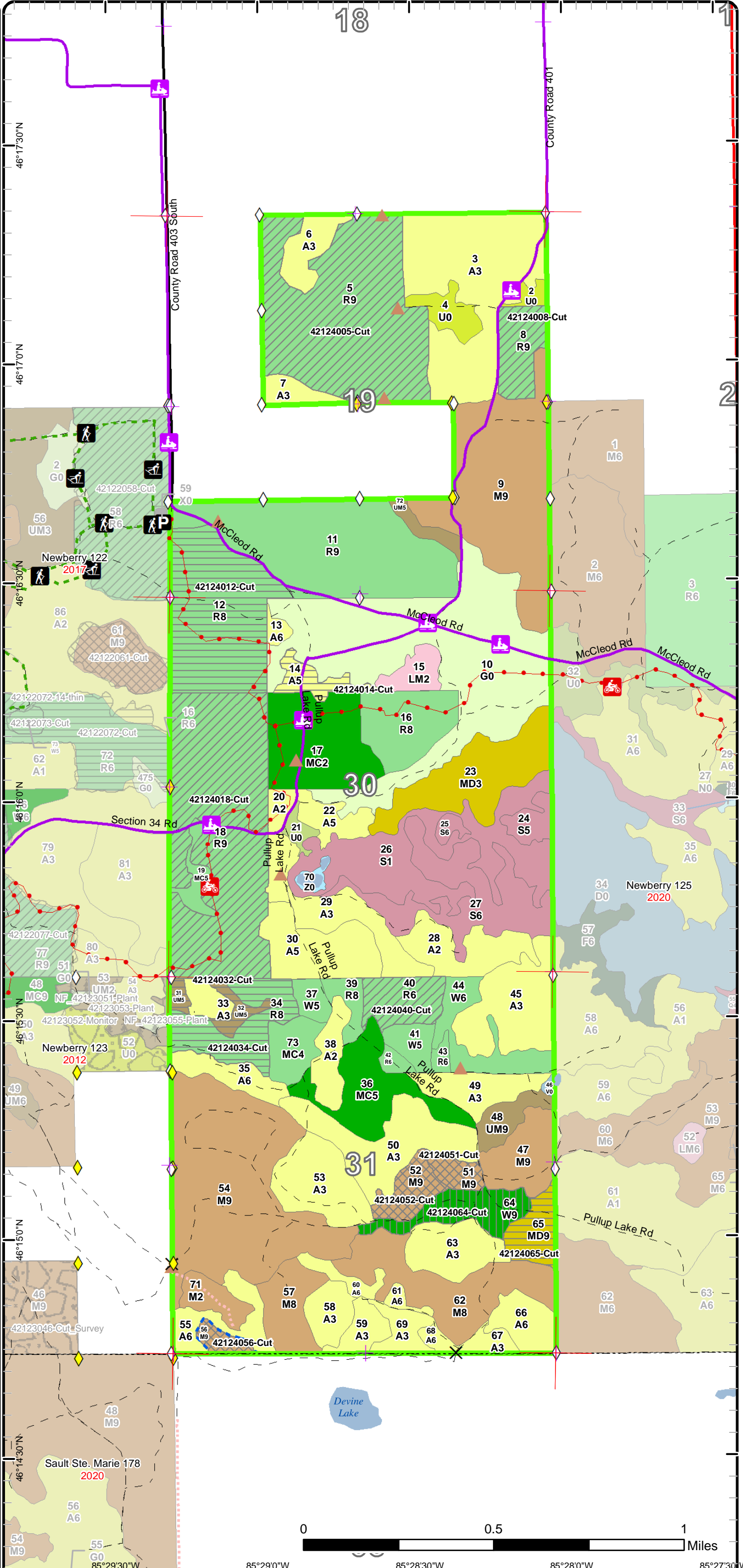
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 124
 T45N, R09W, Sec. 19, 30, 31
 County: Luce
 Unit: Newberry
 Mgmt Area: County Line
 Hardwoods
 YOE: 2019
 Acres: 1723 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 12/12/2017
 Map Phase: Post-Review

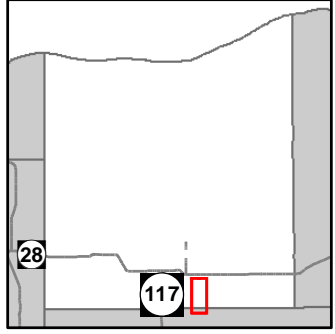


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◆ Field Grade GPS Corners
- Counties
- X Gate
- ▲ Berms
- P Parking Lot
- 🚲 Bike Trails
- 🏍️ Motorcycle Trails (DNR License)
- 🚶 Hiking Trails
- 🎿 Ski Trails
- 🚙 Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Ski Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Paved Roads
- - - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes

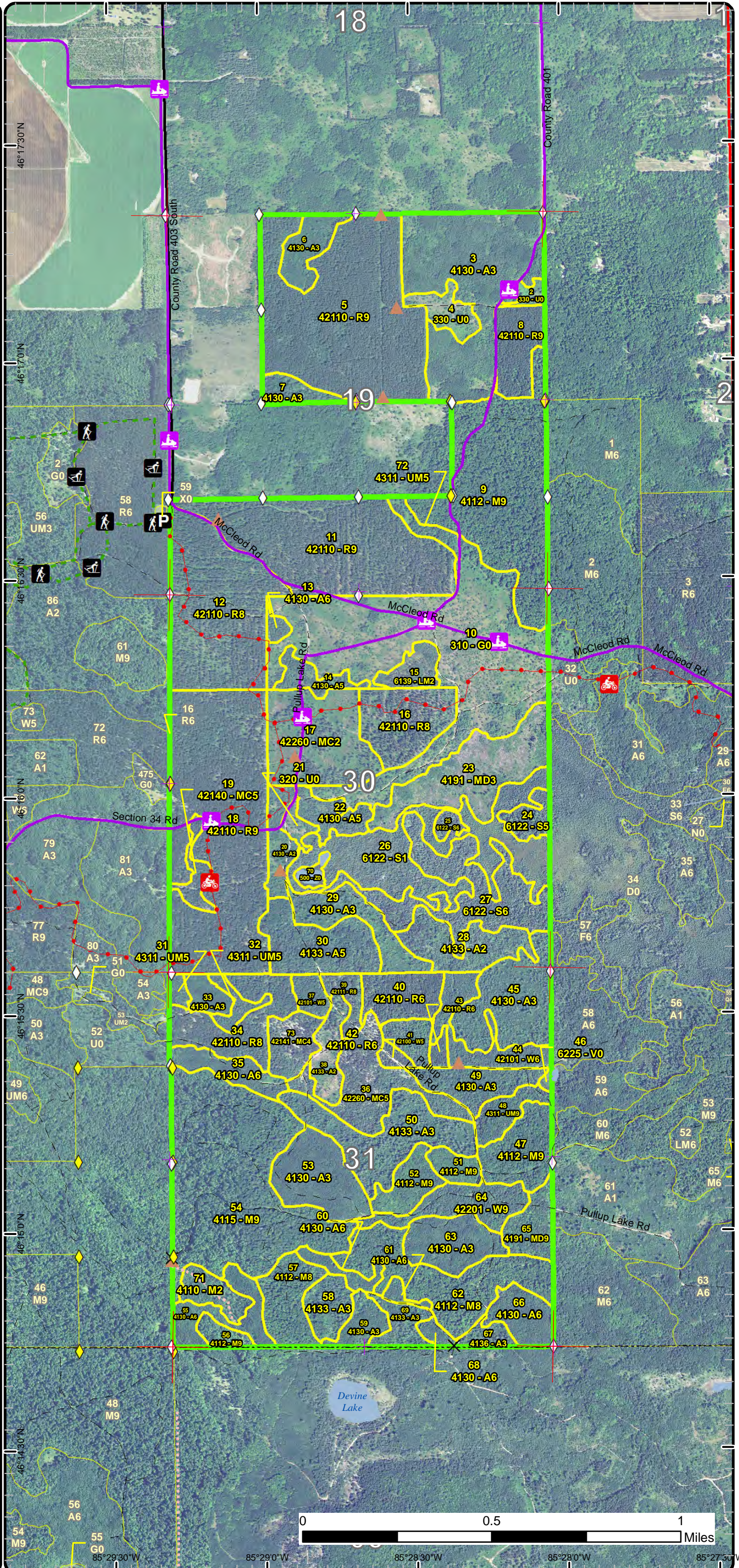


Stand Boundary Map

Compartment: 124
 T45N, R09W, Sec. 19, 30, 31
 County: Luce
 Unit: Newberry
 Mgmt Area: County Line
 Hardwoods
 YOE: 2019
 Acres: 1723 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 12/12/2017
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- X Gate
- ▲ Berms
- P Parking Lot
- 🚲 Bike Trails
- 🏍️ Motorcycle Trails (DNR License)
- 🚶 Hiking Trails
- 🛷 Ski Trails
- 🚗 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Paved Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



85°29'0"W 85°28'30"W 85°28'0"W 85°27'30"W

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
Aspen	0	139	36	179	0	52	8	0	0	0	0	0	0	0	0	0	0	22	436
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Lowland Spruce/Fir	0	0	0	0	0	0	0	61	54	0	0	0	0	0	0	0	0	0	115
Mixed Upland Deciduous	0	40	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	53
Natural Mixed Pines	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	72
Northern Hardwood	0	0	0	10	0	0	0	0	0	215	86	0	0	0	0	0	0	0	310
Planted Mixed Pines	0	0	0	0	0	0	13	7	0	0	0	0	0	0	0	0	0	0	19
Red Pine	0	0	0	0	0	0	182	298	0	0	0	0	0	0	0	0	0	0	480
Upland Mixed Forest	0	0	0	0	0	0	8	0	0	10	0	0	0	0	0	0	0	5	23
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	33	0	0	19	0	0	0	0	0	0	0	0	52
Total	155	221	36	189	0	52	257	366	54	244	86	0	0	0	0	0	0	67	1723



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 124
Total Compartment Acres: 1,723

Commercial Harvest - 421
 Harvests with Site Condition - 5
 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
Aspen	8	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Northern Hardwood	0	24	0	0	0	0	0	0	0	24
Red Pine	94	0	0	0	0	261	0	0	0	355
Upland Mixed Forest	8	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	19	0	0	0	0	19
Total	123	24	0	0	19	261	0	0	0	426

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	426	0	0	0	0	0	0	0	0	426
Next Step	0	94	94	0	94	94	259	0	0	635
Total	426	94	94	0	94	94	259	0	0	1061



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
5	42124005-Cut	109.6	42110 - Planted Red Pine	Sawtimber Well	58	171- 200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin stand down to approx. 120 BA (taking approximately 1/3 of the stand).

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Within 2 miles of known HRD pocket. Follow HRD Guidelines.

Comment:

Proposed Start Date: 10/01/2018

8	42124008-Cut	17.3	42110 - Planted Red Pine	Sawtimber Well	58	171- 200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
---	--------------	------	-----------------------------	-------------------	----	-------------	---------	--------------	----------------------------	-----------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Thin stand down to approx. 120 BA (taking approximately 1/3 of the stand).

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Within 2 miles of known HRD pocket. Follow HRD Guidelines.

Comment:

Proposed Start Date: 10/01/2018

12	42124012-Cut	67.3	42110 - Planted Red Pine	Sawtimber Medium	66	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
----	--------------	------	-----------------------------	---------------------	----	--------	---------	----------------------------	----------------------------	-----------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Clearcut all trees, burn slash after harvest, herbicide hardwood competition, trench, plant to red pine. Retention pocket possibility to be located at north end of stand (as shown on treatment map).

Specs:

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

Treatments:

Acceptable Red pine.

Regen:

Other Within 2 miles of known HRD pocket. Follow HRD Guidelines. Motorcycle trail through stand.

Comment:

Proposed Start Date: 10/01/2018

14	42124014-Cut	8.3	4130 - Aspen	Poetimber Medium	55	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
----	--------------	-----	--------------	---------------------	----	-----------------	---------	----------	-------------	-----------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Clearcut with no retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, jack pine with cherry, red maple.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
18	42124018-Cut	117.4	42110 - Planted Red Pine	Sawtimber Well	66	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin stand down to approx. 120 BA. Some areas may just need a light thinning. Variable BA throughout the stand.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Within 2 miles of known HRD pocket. Follow HRD Guidelines. Motorcycle trail through stand.

Comment:

Proposed Start Date: 10/01/2018

31	42124031-Cut	2.6	4311 - Pine, Aspen Mix	Poletimber Medium	57	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
----	--------------	-----	------------------------	-------------------	----	--------	---------	----------	-------------	-----------	----------------------

Habitat Cut: No**Site Condition:**

Prescription Clearcut all species. No retention due to small size. Leave some budding trees along A3 border. Leave some conifer in the red line.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen, white pine, red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

32	42124032-Cut	5.1	4311 - Pine, Aspen Mix	Poletimber Medium	57	141-170	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
----	--------------	-----	------------------------	-------------------	----	---------	---------	----------	-------------	-----------	----------------------

Habitat Cut: No**Site Condition:**

Prescription Clearcut all species. No retention due to small size. Leave some budding trees along A3 border. Leave some conifer in the red line.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Aspen, white pine, red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

34	42124034-Cut	26.7	42110 - Planted Red Pine	Sawtimber Medium	57	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
----	--------------	------	--------------------------	------------------	----	---------	---------	-------------------------	-------------------------	-----------	----------------------

Habitat Cut: No**Site Condition:**

Prescription Clearcut, burn slash, herbicide hardwood competition, trench, plant to red pine. Some areas may regenerate to aspen. Patch retention near

Specs: edge, preferably along stands 31 & 32.

Next Step

Burn, Slash; Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable

Red pine.

Regen:

Other Within 3 miles of known HRD pocket. Follow HRD Guidelines.

Comment:

Proposed Start Date: 10/01/2018



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
40	42124040-Cut	16.4	42110 - Planted Red Pine	Poletimber Well	57	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin stand down to approx. 120 BA. Some areas may just need a light thinning. The eastern 2/3 of stand has higher BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Within 3 miles of known HRD pocket. Follow HRD Guidelines.

Comment:

Proposed Start Date: 10/01/2018

51	42124051-Cut	6.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	86	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
----	--------------	-----	---	-------------------	----	--------	---------	--------------------------	----------------------------	-----------------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Mark down to approx. 80 BA. Leave hemlock.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Typical northern hardwood species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

52	42124052-Cut	12.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	86	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
----	--------------	------	---	-------------------	----	-------------	---------	--------------------------	----------------------------	-----------------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Thin stand to 60 - 90 BA. Remove aspen, keeping some wolfy trees along A3 edges where possible. Leave hemlock.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Typical northern hardwood species with pockets of aspen.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

56	42124056-Cut	5.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary
----	--------------	-----	---	-------------------	----	-------------	---------	--------------------------	----------------------------	-----------------	-------------------------

Habitat Cut: No**Site Condition: Unknown Access**

Prescription Mark down to 80 - 90 BA. Leave hemlock.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Typical northern hardwood species.

Regen:

Other

Can access from the north down old road into aspen stand, but this goes through 2 private landowners. Might be best to cut from Hiawatha Club side when they thin their adjacent hardwoods.

Proposed Start Date: 10/01/2018



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
64	42124064-Cut	18.9	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	86	111- 140	Harvest	Shelterwood with Retention	4311 - Pine, Aspen Mix	Two-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all trees except white pine, red pine and hemlock. Mark pine to approx. 50 BA, taking out the weeviled pine first. Leave pine in all size classes.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen with white pine. Other associated species include maple, birch, hemlock.
Regen:

Other Very west "tail" may be cut off due to hemlock patches and hillside. Within 3 miles of known HRD pocket. Follow HRD Guidelines.
Comment:

Proposed Start Date: 10/01/2018

65	42124065-Cut	12.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
----	--------------	------	--	-------------------	----	--------	---------	----------------------------	---	-----------	-------------------------

Habitat Cut: No**Site Condition:**

Prescription Cut all species except white pine and hemlock. Mark white pine for cut (or leave). Leave some yellow birch. Leave some mature aspen in the red line, especially along younger aspen stands. Pocket retention - include some large conifer.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen, maple, birch, fir, white pine.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 425.9**

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 124
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2B	5C	2H	5D	5E
436	436	0	0	Aspen					
1	1	0	0	Bog					
134	134	0	0	Herbaceous Openland					
12	12	0	0	Low-Density Trees					
9	9	0	0	Lowland Mixed Forest					
115	44	0	71	Lowland Spruce/Fir			10	61	
53	53	0	0	Mixed Upland Deciduous					
73	73	0	0	Natural Mixed Pines					
310	305	5	0	Northern Hardwood	5				
19	19	0	0	Planted Mixed Pines					
481	478	0	2	Red Pine					2
23	13	10	0	Upland Mixed Forest		10			
4	4	0	0	Upland Shrub					
3	3	0	0	Water					
51	51	0	0	White Pine					
1,723	1,635	15	73	Total Forested Acres	5	10	10	61	2
	95%	1%	4%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5D: Unproductive Forest Land	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay for 10 years, unless decide to cut with stand in adjacent compartment (C-125, stand 59).							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 124
Year of Entry: 2019

3	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Can access from the north down old road into aspen stand, but this goes through 2 private landowners. Might be best to cut from Hiawatha Club side when they thin their adjacent hardwoods.							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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
----------	--------------	-------------	----------------	-------

Comments



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
-------------------	------	-------------



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4130 - Aspen	Sapling Well	75.9	26	Immature	T. sale #001-90, "Eagles Aspen", cut summer, 1990. Some open to semi-open inclusions. Small, older aspen inclusion along PVT line on east side of road.
5	42110 - Planted Red Pine	Sawtimber Well	109.6	58	171-200	"Sunshine Pine", sale #009-99-1. Sale thinned fall, 2001. Some pockets of aspen regen from last cut. OPIC - FMD: Original planting of 3-0 RP fall, 1953 with survival of ~ 250-400 t/ac; replant in fall, 1959 w/ 3-0 RP. FTP42-141: pruning done by WORC crew. Quite a few forked tops and limby boles.
6	4130 - Aspen	Sapling Well	12.4	15	Immature	"Sunshine Pine" sale #009-99-1. Stand cut fall, 2001.
7	4130 - Aspen	Sapling Well	7.3	15	Immature	"Sunshine Pine" sale #009-99-01. Stand cut fall, 2001. Some large beech were retained along the south edge, as well as all white pine and hemlock.
8	42110 - Planted Red Pine	Sawtimber Well	17.3	58	171-200	"Sunshine Pine" sale #009-99-01. Stand cut fall, 2001. Pockets of old porky damage. Thick hardwood understory. Variety of sizes within stand. OPIC - FMD: Original stand planted fall, 1953 with 3-0 RP; survival of 400 t/ac. Replant in fall, 1959 with 3-0 RP. Some forked and dead tops; fairly limby boles.
9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85.5	90	81-110	Stand harvested via selection harvest as sale #035-09-01, 401 Hardwoods. Completed 10/12/10. WP/H mainly along western edge. OPIC - FMD: Variable stand of hardwoods; south end contains more pole timber w/softwood interspersed along edges. Quite a bit of forked sugar maple stems. Red maple and beech within - beech with scale. Non-commercial thinning (FTP 297/46) completed in the spring, 1978: WORC crews thinned and left free firewood for residents.
11	42110 - Planted Red Pine	Sawtimber Well	84.9	66	111-140	Stand harvested via thinning (first thinning of stand) as sale #028-09-01, Parking Lot Pine. Completed 04/30/2012. Variable regeneration under RP. Areas of full coverage to areas of medium density. Nice JP regen in old turn around. Occasional multi-stemmed cherry (either alive or dead). Full hwd regen on west end (E-W rows). Low-medium-high regen on east end (N-S rows). Occasional WP log tree. OPIC - FMD: Stand was originally planted in the spring, 1951 with alternate rows of red and jack pine (2-0 stock of each). Site was furrowed, and planting spacing was 7.5 x 7.5.
12	42110 - Planted Red Pine	Sawtimber Medium	69.4	66	81-110	Stand harvested via thinning (first thinning of stand) as sale #028-09-01, Parking Lot Pine. Completed 04/30/2012. Much more JP regen north of 2-track. Isolated patches of nice JP regen. South of 2-track has more open areas. These areas have various species of regen of adequate stocking. A few JP patches of regen exist south of 2-track in the open areas. OPIC - FMD: Stand was originally planted in the spring, 1951 with alternate rows of red and jack pine (2-0 stock of each). Site was furrowed, and planting spacing was 7.5 x 7.5 feet. Manual pruning of red pine (at 8-10 feet above ground) was completed (FTP42-47). Both the snowmobile and ORV trail(s) run through the stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	4130 - Aspen	Poletimber Well	2.6	46	Unspecified	Expanding aspen clones. Scattered scotch pine, generally small sap-pole. Local garbage dumping spot.
14	4130 - Aspen	Poletimber Medium	8.3	55	Unspecified	
15	6139 - Mixed Lowland Forest	Sapling Medium	8.7	25	Immature	Expanding aspen closes with jack pine. Dry bog. Very small wet area in south with JP growing. Variable aged stand. Thick on edges, thinner in the middle. Leatherleaf patches.
16	42110 - Planted Red Pine	Sawtimber Medium	26.9	66	81-110	Decent JP regen under much of the stand. Occasional RP (~1-2' tall). Stand thinned as sale #013-09-01, Section 34 Road Pine. Completed 08/30/10. OPIC - FMD: Mixed rows of R,J planted Sp, 1951 with 2-0 R,J. (Row width of 5 x 7.5). Planting record notes: "F, 1956 - very severe "needle droop" injury on RP, none on JP. 1958 - Many RP recovering from "needle droop" by sprouting forth new branches close to stem. August, 1959 - perhaps 15-20% JP attacked by WP weevil." The ORV trail runs through this stand; maintain trail integrity.
17	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	42.4	6	Immature	JP regen 5-10' tall. Pockets of aspen regen. Not as much regen under the heavier pockets of RP understory. Stand harvested via final harvest as sale #013-09-01, Section 34 Road Pine. Completed 08/30/10. Regeneration check in 2013 showed fully stocked. FTP #42-753 completed 8/29/2011, 42 acres. OPIC - FMD: Stand originally planted F, 1951 with 2-0 RP and 3-0 JP (7.5 x 7.5 spacing). E. side of road replanted F, 1952 with 2-1 RP (Notes: "15-20% survival of JP - branchy, with 80% survival of RP.") W. side of road replanted F, 1953 with 3-0 RP (N/S direction). Check in Sp, 1961 noted, " Severe frost damage and needle droop on 3 RP plantings; 5-10% survival on original JP planting - plant 2-0 JP." October, 1965, stand was hand planted w/2-0 JP (6 x 6 spacing); W. side of road planted w/ Wyman stock, E. side w/ Lower Peninsula stock. Trees were dipped in an Aldrin mixture. Small aspen area w/in center of stand was avoided when planted - remove mature aspen now, with harvest. Currently, stand has suffered some fairly severe windstorm damage (blowdown, snapped off tops) and should be harvested at this time. If natural regeneration is unsuccessful, replant back to JP. The ORV trail runs through the stand; maintain trail integrity.
18	42110 - Planted Red Pine	Sawtimber Well	117.4	66	141-170	Stand harvested via thinning as sale #040-10-01, "Merging Rows Red Pine". Completed 01/09/12. Not all aspen was cut out of stand. Some small A3 pocket inclusions. Occasional white spruce - log size. Understory is quite variable - from little to no regen, to A2 or M2 areas. DBH's are a little higher where heavier BA (12-14"); thinner BA = 8-10" dbh. Appears to have been third row thinned. OPIC - FMD: Planted F, 1951 w/ 2-0 RP; furrowed and "dibble" (hand) planted. (6 x 6 spacing.) Plantation was pruned (FTP42-187?, 42-017?, 42-030?).
19	42140 - Planted Mixed Pine	Poletimber Medium	6.5	66	51-80	OPIC - FMD: Part of both t. sale #36-78A and #15-81 (cut with adjacent C. 122, stand 82). Areas with thicker aspen regen; frost pocket jack pine. Continue to manage for mixed diversity of J,A, and R.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4130 - Aspen	Sapling Medium	11.3	6	Immature	Occasional RP seeding in (3-5' tall). A few submerchantable aspen left from cut. Scotch pine near road. Stand harvested via final harvest as sale #009-09-01, Section 34/Pullup Aspen. Completed 11/22/10. OPIC - FMD: The ORV trail runs through the stand.
22	4130 - Aspen	Poletimber Medium	10.2	45	Unspecified	OPIC - FMD: Low-quality aspen clones scattered within U-type.
23	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	40.3	5	Immature	Stand harvested as sale #012-09-01, "Pullup Spruce". Completed 12/15/11. Regen check 2016: 252 TPA of black spruce, 378 TPA of aspen, 252 TPA of cherry, small amounts of balsam, tamarack, and white pine. Residual BA of 10. OPIC - FMD: Stand transitions from upland to treed bog.
24	6122 - Black Spruce	Poletimber Medium	7.4	76	Unspecified	OPIC - FMD: Stand is completely surrounded by treed bog, with pockets of low ground within stand, also. May not be accessible for harvest. Ground cover noted=sphagnum.
25	6122 - Black Spruce	Poletimber Well	2.8	76	Unspecified	OPIC - FMD: Stand is completely surrounded by treed bog, with pockets of low ground within stand, also. May not be accessible for harvest. Ground cover noted=sphagnum.
26	6122 - Black Spruce	Sapling Poor	60.7	62	Unspecified	OPIC - FMD: Old shingle mill pond location @ W. end of stand. Contains tamarack and spruce.
27	6122 - Black Spruce	Poletimber Well	44.2	76	Unspecified	Variable terrain - low, wet bog spruce to transitional ground to upland patches with JP. OPIC - FMD: Stand transitions from upland to treed bog. Ground cover noted=sphagnum. Lots of smaller spruce mixed within, and low pockets. Upland finger with jack pine primarily.
28	4133 - Aspen, Mixed Pine	Sapling Medium	21.8	36	Unspecified	All ages present. OPIC - FMD: Former U-type which is slowly filling in w/scattered aspen (low quality), J and S/F.
29	4130 - Aspen	Sapling Well	19.2	6	Immature	Inclusion of WP/A small poles/saps between bog and clearcut. Semi-open. Stand harvested via final harvest as sale #009-09-01, Section 34/Pullup Aspen. Completed 11/22/10. OPIC - FMD: This stand was set up and sold last entry as "Pullup Lake Aspen", #007-00-2, but producer never cut it. Aspen TSI (FTP #30) completed sometime in the 60's following harvest (#80-63, #55-64), but neither harvest nor TSI were entirely complete, as there are older, larger diameter aspen clones within.
30	4133 - Aspen, Mixed Pine	Poletimber Medium	28.2	45	Unspecified	OPIC - FMD: Stand contains clones of merchantable aspen scattered over younger aspen and white pine regeneration. Mixed softwood spp include: J,F,W,R.
31	4311 - Pine, Aspen Mix	Poletimber Medium	2.6	57	81-110	OPIC - FMD: Stand is an old opening which was interplanted 10/1960 with both 2-2 and 2-0 WP; regeneration check in 1968 stated: "312 WP/ac, 1 - 2' tall w/aspen sprouts 2 - 15' tall and also overstory aspen present."



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	4311 - Pine, Aspen Mix	Poletimber Medium	5.1	57	141-170	Some larger WP remnants. Most planted WP barely merchantable. Small WP overtopped by aspen. OPIC - FMD: Stand is an old opening which was interplanted 10/1960 with both 2-2 and 2-0 WP; regeneration check in 1968 stated: "312 WP/ac, 1 - 2' tall w/aspen sprouts 2 - 15' tall and also overstory aspen present."
33	4130 - Aspen	Sapling Well	6.3	24	Immature	Part of "Pullup Lake - North Gate" sale #33-89; Unit 1 harvested 8/92. On edge between sapling and pole. Starting to self-thin.
34	42110 - Planted Red Pine	Sawtimber Medium	26.7	57	141-170	Variable stand - both BA and understory. Areas of little to no understory, to low to medium density. Pole size to log size RP. RM browsed. OPIC - FMD: Old opening which was planted in 10/1960 w/ 3-0 RP at 7.5' x 5.75' spacing. Regeneration check completed in 1968 = 210 RP/ac, 1 - 2' tall. Much of the planting has failed. Medium stocked understory of WP (6-10' hts) and aspen.
35	4130 - Aspen	Poletimber Well	12.3	24	Immature	Part of "Pullup Lake - North Gate" sale #33-89; Unit 1 harvested 8/92. Just coming into pole size. Self-thinning.
36	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	30.5	33	Immature	Variable stand. Opening growing in over the years.
37	42101 - Planted White Pine, Mixed Deciduous	Poletimber Medium	5.7	57	141-170	Planted WP with aspen overtop. Scattered aspen and aspen clones. WP 1-3 sticks. OPIC - FMD: Area was interplanted with 2-2 and 2-0 WP stock on 10/15/60; regeneration check in 1968 = 96 WP/ac ~ 1-2' tall. Comment included stated: "WP appears to be stagnant - good aspen overstory." Inventory from 1999 adds: "WP weeviled and poor form."
38	4133 - Aspen, Mixed Pine	Sapling Medium	11.8	5	Immature	A few WP poles left from cut. Patchy regen. Patches of decent aspen regen leading to more open areas with scattered JP. OK regen. Regen 2015: Cherry 1084 TPA, aspen 627 TPA, jack pine 228 TPA. Stand harvested as sale #014-09-01, Pullup Pine. Completed 4/28/11. Scarification completed 9/2012 under FTP 42-785.
39	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	6.6	57	51-80	Failed plantation. OPIC - FMD: Very variable stand; planted F, 1960 w/ 3 - 0 RP, a lot of which has failed.
40	42110 - Planted Red Pine	Poletimber Well	16.4	57	141-170	Stand harvested as sale #014-09-01, Pullup Pine. Completed 4/28/11. 3rd row thinned. OPIC - FMD: 3 - 0 RP planted F, 1960 @ 7.5 x 5.75 spacing. (Entire planting completed by Sp, 1963; a light white grub population was noted.) Regeneration check in 1968 = 190 t/ac, 1-2' tall.
41	42100 - Planted White Pine	Poletimber Medium	7.9	57	51-80	Aspen cut out of planted WP. A few WP log size remnants. A couple scattered Fs log size. Thick flush of aspen regen with residual planted WP poles. WP thicker in some areas. Stand harvested as sale #014-09-01, Pullup Pine. Completed 4/28/11. OPIC - FMD: Aspen overtopping WP, which was planted F, 1960 with 2-0 stock. Continue to manage for WP, with aspen as secondary objective.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	42110 - Planted Red Pine	Poletimber Well	2.9	57	111-140	Stand harvested as sale #014-09-01, Pullup Pine. Completed 4/28/11. First thinning. OPIC - FMD: 3 - 0 RP planted F, 1960 @ 7.5 x 5.75 spacing. (Entire planting completed by Sp, 1963; a light white grub population was noted.) Regeneration check in 1968 = 190 t/ac, 1-2' tall.
43	42110 - Planted Red Pine	Poletimber Well	2.5	57	171-200	3rd row thinned as part of Pullup Pine, #014-09, completed 4/28/11. OPIC - FMD: 3 - 0 RP planted F, 1960 @ 7.5 x 5.75 spacing. (Entire planting completed by Sp, 1963; a light white grub population was noted.) Regeneration check in 1968 = 190 t/ac, 1-2' tall.
44	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	19.0	57	81-110	Much of the WP is still submerchantable - 1 stick. Scattered aspen and cherry. Can follow rows where there is little to no aspen. OPIC - FMD: WP planted F, 1960 (2-0 stock); regeneration check in 1968 = 400 WP/ac (6" - 12" tall). Light white grub population noted in 1963. Weevil damage to WP.
45	4130 - Aspen	Sapling Well	34.5	6	Immature	Aspen regen ~20'+ tall. Thick regeneration. Stand harvested via final harvest as sale #009-09-01, Section 34/Pullup Aspen. Completed 11/22/10. OPIC - FMD: Rolling terrain. WP was interplanted Sp, 1963 (3-0 stock) within section 31.
47	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.4	86	81-110	Occasional hemlock, beech and yellow birch. "Pullup Lake Hardwood" #006-99-01 (Unit 3). Thinned Su, 2002.
48	4311 - Pine, Aspen Mix	Sawtimber Well	9.7	86	81-110	Occasional hemlock and beech. OPIC - FMD: Aspen removed in the 1960's; WP is weeviled.
49	4130 - Aspen	Sapling Well	16.1	16	Immature	"Pullup Lake Aspen" sale # 42-007-00-2 (Unit 2). Pockets of larger aspen, which were submerchantable when sale was harvested, were left. Some jack, red and white pine left also.
50	4133 - Aspen, Mixed Pine	Sapling Well	36.8	6	Immature	Thick regen with WP, Fs and cherry residual. Stand harvested via final harvest as sale #009-09-01, Section 34/Pullup Aspen. Completed 11/22/10.
51	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.5	86	81-110	Very open understory. Occasional WP. Mainly small logs, but occasional large logs. OPIC - FMD: Aspen was removed from the stand in the 1980's. Some WP, cherry and yellow birch within, primarily on stand edges.
52	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.1	86	111-140	Occasional hemlock and yellow birch. East half has more aspen as well as balsam understory. OPIC - FMD: More aspen and softwood within versus adjacent M stand. Mixed softwood includes: H,W,F,S.
53	4130 - Aspen	Sapling Well	26.9	26	Immature	Part of "Pullup Lake - North Gate" sale #33-89; Unit 2 harvested 11/90. Some aspen coming into pole size. Starting to self-thin. Looks like it was a nice clean cut.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	4115 - Y.Birch, Hemlock NH	Sawtimber Well	107.8	85	81-110	Thick understory throughout most of stand. Variable BA and open canopy still. Stand harvested as "Pullup Lake Hardwoods" (006-99-01 - units 1 and 2). Thinned fall, 2002. Beech scale within.
55	4130 - Aspen	Poletimber Well	15.0	24	Immature	Just coming into pole size. OPIC - FMD: Unit 4 of timber sale #33-89 - cut 7/92. Upper edges of aspen surrounding heavy cherry brush (w/black knot) in frost pocket "bowl" within stand center .
56	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.1	85	111-140	Small hardwood knob along HSC line. Most of beech has died and fallen. Occasional hemlock, red pine, aspen. Best access may be through HSC.
57	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	18.8	85	51-80	Mature aspen along A3 edges. Scattered hemlock. Most of beech had died out and fallen. Decent hardwood stand. Stand harvested as sale #037-09-01, "South Compartment 124". Complete 07/06/11. OPIC - FMD: Rolling terrain; some H,W within. Beech scale present.
58	4133 - Aspen, Mixed Pine	Sapling Well	11.0	6	Immature	Stand harvested as sale #037-09-01, "South Compartment 124". Complete 07/06/11. Regen check 2015: Fully stocked with
59	4130 - Aspen	Sapling Well	8.6	24	Immature	Part of "Pullup Lake - North Gate" sale #33-89; Unit 4 harvested 7/92.
60	4130 - Aspen	Poletimber Well	5.7	44	Unspecified	T. sale #28-72 (cut Sp, 1973).
61	4130 - Aspen	Poletimber Well	2.6	44	Unspecified	T. sale #28-72 (cut Sp, 1973).
62	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	43.7	86	81-110	Stand harvested as sale #037-09-01, "South Compartment 124". Complete 07/06/11. OPIC - FMD: Rolling terrain; some H,W within. Beech scale present.
63	4130 - Aspen	Sapling Well	20.3	26	Immature	On edge between sapling and pole. Part of "Pullup Lake - North Gate" sale #33-89; Unit 3 harvested 11/90.
64	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	18.9	86	111-140	Limby, often multi-stemmed WP. OPIC - FMD: Almost all WP have poor form and low quality (weeviled). Aspen was removed in the 60's - thick regen, in places. Some H pockets w/ maple, aspen - scattered BF and RP. Manage for both A and W, slowly removing weeviled pine.
65	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.6	51	81-110	Very mixed stand. More aspen on east and south sides. OPIC - FMD: Rolling terrain; aspen in clones - more maple present, in places. Mixed softwood includes: BF, H,W. Mixed hardwood includes: YB, PB, beech. Heavier conifer component along Pullup Lakes Road.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	4130 - Aspen	Poletimber Well	13.4	26	Immature	Between sapling and pole size. Starting to self-thin. Part of "Pullup Lake - North Gate" sale #33-89; Unit 3 harvested 11/90.
67	4136 - Aspen, Mixed Conifer	Sapling Well	5.1	6	Immature	Residual WP left and occasional white spruce. Stand harvested as sale #037-09-01, "South Compartment 124". Complete 07/06/11. Regen check 2015: Fully stocked with aspen.
68	4130 - Aspen	Poletimber Well	3.0	43	Unspecified	Cut in 1973 (#28-72).
69	4133 - Aspen, Mixed Pine	Sapling Well	9.0	6	Immature	Stand harvested as sale #037-09-01, "South Compartment 124". Complete 07/06/11. Regen check 2015: Fully stocked with aspen. OPIC - FMD: Rolling terrain. Portions of stand were old openings at one time. Planted patch of RP (~1-2 acs at most) in SE tip of
71	4110 - Sugar Maple Association	Sapling Medium	9.7	24	Immature	Frost pocket. Very dry with old pine stumps. OPIC - FMD: Unit 4 of timber sale #33-89 - cut 7/92. Heavy cherry brush (w/black knot) in frost pocket "bowl" within stand center - upper edges are ringed with aspen.
72	4311 - Pine, Aspen Mix	Poletimber Medium	5.4	45	51-80	Narrow strip between RP and Hwd stand. Old opening grown in. Semi-open inclusion. 4-wheeler trail along old road thru stand.
73	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Poor	12.6	57	1-50	Failed plantation. OPIC - FMD: Old opening slowly filling in with A,W,J. Scrub aspen with hypoxylon. NENW planted 10/15/60 with 3-0 RP stock (7.5' x 5.75' spacing). Regeneration check completed in 1968 = 150 RP/ac (1-2' tall) - "RP is in poor shape (frost damage, grubs, schleroderis)". Only occasional RP now. Other sub-merchantable species within also.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	330 - Low-Density Trees	3.1	No	Opening filling in over the years. Cherry and cabbage white pine with RP saps and scattered spruce.
4	330 - Low-Density Trees	9.4	No	Opening slowly filling in with aspen clones, cherry.
10	310 - Herbaceous Openland	134.1	Yes	Prescribed burned in 2003 to increase native plants and maintain opening. FTP W42-517 (Burn I.D. # 18-00) completed 4/24/2003 - 130 acres burned. Bracken fern, lichen ground cover. Occasional aspen clones, cherry.
21	320 - Upland Shrub	3.7	No	Aspen encroaching on edges.
46	6225 - Bog	1.0	No	OPIC - FMD: Fringed with spruce/fir/WP.
70	500 - Water	2.9	No	OPIC - FMD: Old shingle mill pond location @ W. end of stand.