



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42122

Entry Year 2017

Acreage: 2,021

County Luce

Management Area: County Line Hardwoods

Revision Date: 2015-08-31

Stand Examiner: Don Kuhr

Legal Description:

T45N R10W Sections 22, 23, 24, 25, 26 & 27

Identified Planning Goals:

Timber management, wildlife habitat and recreation such as hunting, skiing and snowmobiling are the main uses of the compartment. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses through proper management.

Soil and topography:

Topography is rolling and varies from fairly level to steep and would be mostly characterized as upland. Soil type is mostly made up of Kalkaska and Wallace sands. There are a few small areas of muck which support wetland plant species.

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

The compartment is surrounded by private land on the north and west sides, by State land to the east and a mixture of State and private on the south. Due to its close proximity to the town of Newberry, this land is frequently used by people for a variety of recreational uses such as hunting, skiing, walking, bicycling, cross country running, snowshoeing and snowmobiling. 440 acres of State land in this compartment is leased to Luce County for the purpose of economic development.

Unique Natural Features:

This compartment contains a majority of the Canada Lakes Pathway, a two mile segment of designated snowmobile trail, one half mile of designated ORV trail, Canada Lakes and a portion of Melvin Lake.

MNFI lists the potential for red shouldered hawk, goshawk, eagle, osprey, moose and osprey. They also list the potential for pine drops, climbing fumitory and false violet in the pine types. They also list the potential for sweet coltsfoot, Wiegand's sedge, English sundew, round-leaved orchis, black crowberry, yellow pitcher plant and paniced screwstem in bog types.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

Due to the close proximity to the town of Newberry, the Canada Lakes Pathway is a frequently used by a variety of recreation enthusiasts. Special consideration should be taken when land management decisions that are made for this area.

Watershed and Fisheries Considerations:

This compartment contains no lakes or streams that would contain any fish communities. Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 122 lies in the St. Ignace ecological sub-subsection in southern Luce County. The compartment lies within the County Line Hardwoods Management Area and black bear, goshawk, red-shouldered hawk, ruffed grouse, snowshoe hare and white-tailed deer are featured species in this compartment. The compartment sees heavy deer use in many winters despite not being part of a defined deer wintering complex. The compartment is fairly diverse in upland habitat types with a good mix of hardwoods, aspen, and white and red pine stands. Hardwoods dominate the western portions of the compartment while aspen and pine predominate in the eastern half of the compartment. Pre-settlement forests may have had a higher percentage of conifer stands than current vegetation.

Maintaining structural and species diversity as much as possible in harvested stands will help achieve wildlife objectives in this compartment. The retention of hard and soft mast producing trees, wildlife den and nest trees, snags and the preservation of conifer components in aspen and hardwood stands will benefit wildlife species using the area. Hemlock

and a component of beech will be retained in all stands. White-tailed deer, black bear, snowshoe hare, gray wolf, coyotes and fox, marten and ruffed grouse are noteworthy wildlife species using this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Silurian Cabothead Shale and Manitoulin Dolomite subcrop below the glacial drift. The Manitoulin could be quarried for stone. A gravel pit is located in Section 21 and potential is good. There is no economic oil and gas production in the UP.

Vehicle Access:

The main access to this compartment is via County Road 403. The Section 34 Road runs across most of the southern part of the compartment. There are several two tracks and woods roads that give access to most of the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Canada Lakes Pathway offers skiing opportunities in the winter as well as hiking, walking, cross-country running and bicycling in the summer. A portion of a designated snowmobile trail runs through the compartment as well as a portion of a designated ORV trail. Hunting is also popular in this area.

Fire Protection:

The compartment has good road access for fire suppression activities. Small stands of conifer intermixed with hardwoods and a short response time keeps the potential for large fires low in this compartment.

Additional Compartment Information:

Avoid winter harvest operations to limit recreational trail conflicts.

The following reports from the Inventory are attached:

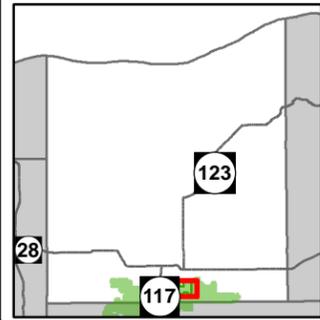
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

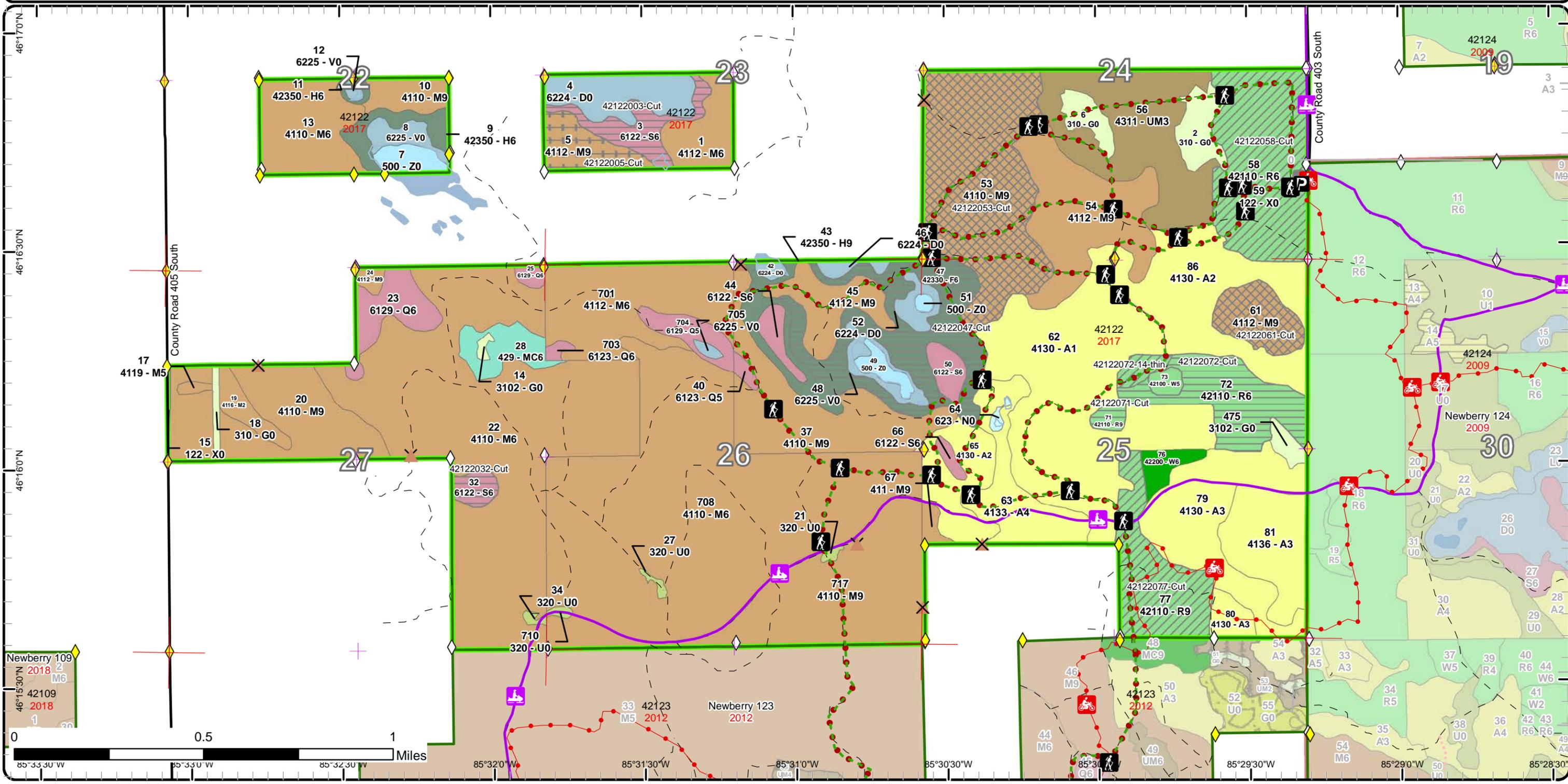
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 122
 T45N R10W 22-27
 County: Luce
 Unit: Newberry
 Mgmt Area: County Line Hardwoods
 YOE: 2017
 Acres: 2021 GIS Calculated
 Examiner: Don Kuhr
 Map Revised: 3/30/2016
 Map Phase: Post-Review



- | | | | |
|------------------------------------|----------------------------------|-------------------------------------|-----------------------------|
| — Miris Corners | ● Designated Equestrian Trails | ▭ Clearcut (w/Reserves) | ■ 310 - Herbaceous Openland |
| ⊕ Remonumented Section Corners | — Designated Ski Trails | ⊕ Harvest, Overstory Removal | ■ 320 - Upland Shrub |
| ◆ Survey Grade GPS Corners | ● ORV License & Trail Permit | ▨ Thinning (Crown, Low, Systematic) | ■ 500 - Water |
| ◇ Field Grade GPS Corners | — Designated Snowmobile Trails | ▭ Forest Covertypes | ■ 622 - Lowland Shrub |
| 🚲 Bike Trails | ⊗ Gate | ■ 411 - Northern Hardwood | ■ 623 - Emergent Wetland |
| 🏍️ Motorcycle Trails (DNR License) | ⚡ Berms | ■ 413 - Aspen | ■ Lakes |
| 🚶 Hiking Trails | 🅑 Parking Lot | ■ 421 - Planted Pines | |
| 🎿 Ski Trails | — Paved Roads | ■ 422 - Natural Pines | |
| 🚙 Snowmobile Trails | — Poor Dirt Roads | ■ 423 - Other Upland Conifers | |
| — Designated Hiking Trails | ⋯ Closed Roads | ■ 429 - Mixed Upland Conifers | |
| — Designated Bicycle Trails | — Rivers | ■ 430 - Upland Mixed Fores | |
| | ▭ Compartment Boundary | ■ 612 - Lowland Coniferous Forest | |
| | ▭ Treatments | ▭ Non-Forest Covertypes | |
| | ▭ Selection (Group, Single Tree) | ■ 122 - Roads/Parking Lot | |



Newberry 109
 2018
 M6

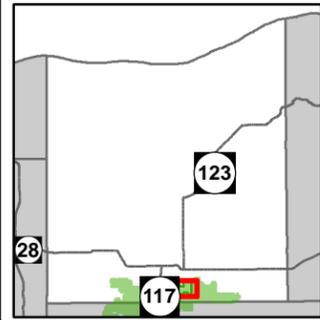
Newberry 123
 2012

Newberry 124
 2009

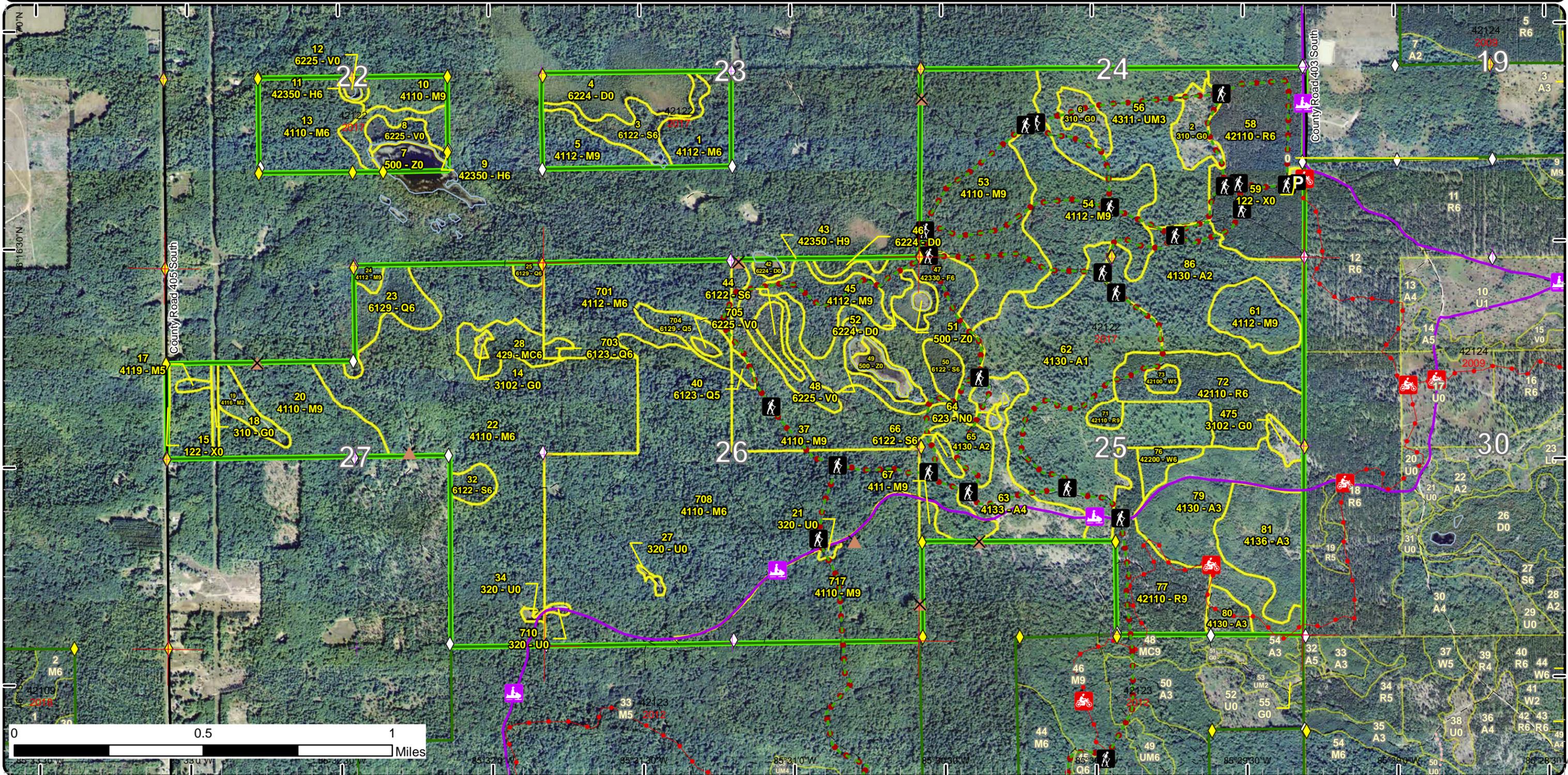


Stand Boundary Map

Compartment: 122
 T45N R10W 22-27
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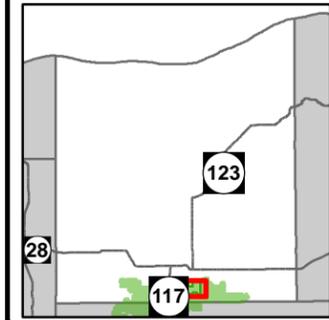


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Bike Trails
- Motorcycle Trails (DNR License)
- Hiking Trails
- Ski Trails
- Snowmobile Trails
- - Designated Hiking Trails
- - Designated Bicycle Trails
- Designated Equestrian Trails
- - Designated Ski Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Gate
- Berms
- Parking Lot
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

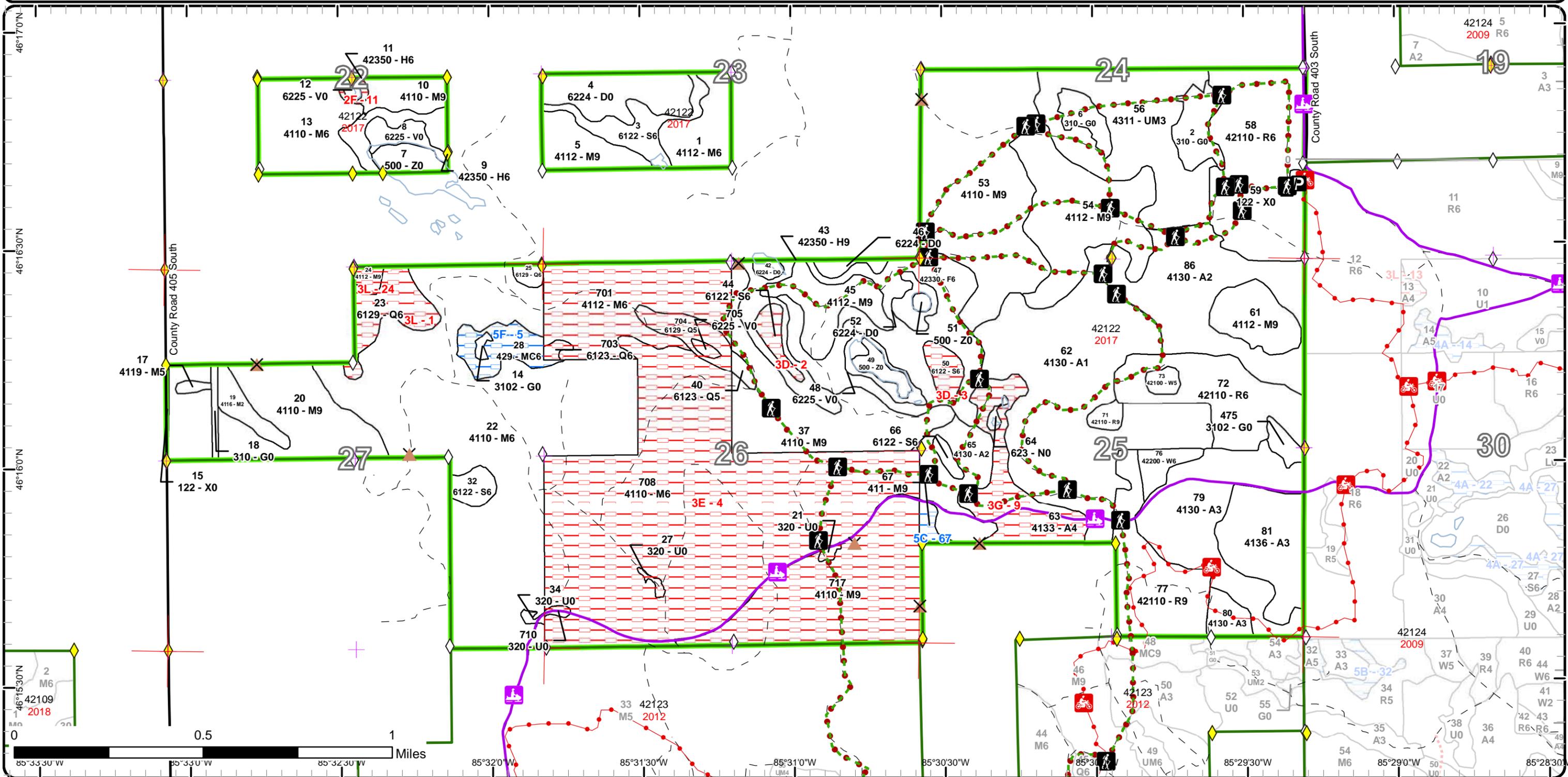


Special Conservation Areas & Site Conditions Map

Compartment: 122
 T45N R10W 22-27
 County: Luce
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 Acres: 2021 GIS Calculated
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- Miris Corners
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- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- ORV License & Trail Permit
- Designated Snowmobile Trails
- ✕ Gate
- 🏠 Berms
- P Parking Lot
- Paved Roads
- Poor Dirt Roads
- Closed Roads
- Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3D: Recreational / Scenic values
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3G: Other Influence zones - See comments
- 3L: Other wildlife concerns
- Stand Boundaries
- Special Conservation Areas



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	168	0	60	45	35	0	0	0	0	0	0	0	0	0	0	0	70	378
Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Conifers	0	0	0	0	15	0	0	0	0	22	0	0	0	0	0	0	0	0	37
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	3	19	0	0	0	0	0	0	0	17	39
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Northern Hardwood	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1099	1108
Red Pine	0	0	0	0	0	0	88	79	0	0	0	0	0	0	0	0	0	0	167
Treed Bog	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Upland Conifers	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	14
Upland Mixed Forest	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	0	0	0	63	0	0	0	0	0	0	0	0	0	0	63
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11
Total	105	168	80	60	60	35	102	153	3	41	0	1214	2021						



Report 2 – Treatment Summary

Newberry Mgt. Unit

Compartment 122

Year of Entry:

Acres of Harvest

Total Compartment Acres: 2,021

Commercial Harvest - 404
 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
Lowland Spruce/Fir	23	0	0	0	0	0	0	0	0	23
Northern Hardwood	0	129	0	0	0	18	0	0	0	147
Red Pine	44	0	0	0	124	0	0	0	0	168
Upland Spruce/Fir	63	0	0	0	0	0	0	0	0	63
White Pine	4	0	0	0	0	0	0	0	0	4
Total	133	129	0	0	124	18	0	0	0	404

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	404	0	0	0	0	0	0	0	0	404
Next Step	0	47	47	0	0	47	327	0	0	468
Total	404	47	47	0	0	47	327	0	0	872



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
3	42122003-Cut	16.5	6122 - Black Spruce	Poletimber Well	83	81-110	Harvest	Clearcut with Retention	6124 - Lowland Spruce-Fir	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription leave some retention along edges and some hemlock

Specs:

Next Step

Treatments:

Acceptable black spruce, hemlock, red maple, white pine, cedar, yellow birch, white birch, tamarack

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

5	42122005-Cut	17.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	121	51-80	Harvest	Overstory Removal	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription remove overstory to release advanced regeneration.

Specs:

Next Step

Treatments:

Acceptable yellow birch, red maple, sugar maple, cherry, white pine, hemlock,

Regen:

Other leave some yellow birch and cherry as retention. Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

32	42122032-Cut	6.2	6122 - Black Spruce	Poletimber Well	81	81-110	Harvest	Clearcut with Retention	6124 - Lowland Spruce-Fir	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription leave some trees for retention, leave Hemlock

Specs:

Next Step

Treatments:

Acceptable spruce, tamarack, cedar, white pine, hemlock

Regen:

Other cut with other lowland stand Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

47	42122047-Cut	63.1	42330 - Upland Fir	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Harvest if economically feasible and damage from SBW creates need for salvage.

Specs:

Next Step

Treatments:

Acceptable balsam fir, red maple, paper birch, black spruce, white pine, aspen, balsam poplar, hemlock

Regen:

Other Mitigate visual impacts to ski trail. Leave Hemlock. Leave brush piles for rabbits. Add site conditions to areas not harvested. Old next step

Comment: comments:

Proposed Start Date: 10/28/2015



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
53	42122053-Cut	108.8	4110 - Sugar Maple Association	Sawtimber Well	121	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription ICut trees in the diameter that exceeds the q curve.(see quantitative data) residual BA = 80. Follow "complete marker" guidelines. Leave 90 -
Specs: 100 BA next to trail (one tree length). Remove hazard trees next to trail.

Next Step
Treatments:

Acceptable sugar maple, red maple, yellow birch, basswood, white pine, cherry
Regen:

Other leave all White Pine Old next step comments:
Comment:

Proposed Start Date: 10/01/2016

58	42122058-Cut	75.9	42110 - Planted Red Pine	Poletimber Well	66	111-140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin to 110 to 120 BA.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Leave some non red pine trees where possible. leave some large trees near trail. Work with PRD to round off corners of trail. Old next step
Comment: comments:

Proposed Start Date: 10/01/2016

61	42122061-Cut	20.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	118	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription mark to 70 BA. Follow "complete marker" guidelines.
Specs:

Next Step
Treatments:

Acceptable Cherry, red maple, sugar maple, basswood, white pine
Regen:

Other Leave all conifer. Old next step comments:
Comment:

Proposed Start Date: 10/01/2016

71	42122071-Cut	3.6	42110 - Planted Red Pine	Sawtimber Well	63	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription clearcut and plant red pine
Specs:

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

Acceptable planted red pine
Regen:

Other No retention due to small acreage. Old next step comments:
Comment:

Proposed Start Date: 10/01/2016



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
72	42122072-14-thin	5.0	42110 - Planted Red Pine	Poletimber Well	56	51-80	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> thin to 120 BA											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Planted red pine											
<u>Regen:</u>											
<u>Other</u> use retention around ski trail Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
72	42122072-8-New	0.0	42110 - Planted Red Pine	Poletimber Well	56	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Incomplete Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> clear cut, herbicide, trench, plant											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Planted red pine											
<u>Regen:</u>											
<u>Other</u> use retention around ski trail Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
72	42122072-Cut	40.0	42110 - Planted Red Pine	Poletimber Well	56	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> clear cut, herbicide, trench, plant											
<u>Specs:</u>											
<u>Next Step</u> Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr); Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Planted red pine											
<u>Regen:</u>											
<u>Other</u> use retention around ski trail Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
73	42122073-Cut	3.5	42100 - Planted White Pine	Poletimber Medium	63	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clear cut, use retention along ski trail about 2 tree lengths.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Artificial Regen(3yr); Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> planted red pine											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											



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
77	42122077-Cut	43.0	42110 - Planted Red Pine	Sawtimber Well	56	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Thin to 110 to 120 BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Leave some Non-red pine trees where possible. Leave some large trees near trail. Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

**Total Treatment
Acreage Proposed: 403.6**

Report 5 – Site Conditions

Newberry Mgt. Unit

Don Kuhr : Examiner

Compartment: 122

Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
378	343	0	35
17	16	0	1
28	27	0	2
29	29	0	0
36	5	0	31
38	25	0	13
1	1	0	0
1107	674	3	430
168	168	0	0
38	38	0	0
14	0	14	0
71	71	0	0
4	1	0	3
63	63	0	0
2	2	0	0
14	14	0	0
11	11	0	0
2,021	1,488	18	515
	74%	1%	25%

Dominant Site Conditions

	Availability for Management			Dominant Site Conditions							
	Acres Available	Acres Available With Condition	Acres Not Available	5C	5F	2F	3D	3E	3G	3L	
Aspen	343	0	35	0					35		
Bog	16	0	1			0		1			
Hemlock	27	0	2			2					
Herbaceous Openland	29	0	0								
Lowland Conifers	5	0	31					12		19	
Lowland Spruce/Fir	25	0	13				13				
Marsh	1	0	0								
Northern Hardwood	674	3	430	3		0		427		3	
Red Pine	168	0	0								
Treed Bog	38	0	0								
Upland Conifers	0	14	0		14						
Upland Mixed Forest	71	0	0								
Upland Shrub	1	0	3					3			
Upland Spruce/Fir	63	0	0								
Urban	2	0	0								
Water	14	0	0								
White Pine	11	0	0								
Total Forested Acres	1,488	18	515	3	14	2	13	444	35	22	
Relative Percent	74%	1%	25%								

**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	3L: Other wildlife concerns	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3D: Recreational / Scenic values	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Newberry Mgt. Unit

Don Kuhr : Examiner

Compartment: 122

Year of Entry: 2017

3	Unavailable	3D: Recreational / Scenic values	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	444	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5F: Evaluated for Forest Health Considerations	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluated for SBW.							
9	Unavailable	3G: Other Influence zones - See comments	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: crossed by several recreational trails							
11	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3L: Other wildlife concerns	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Newberry Mgt. Unit

Compartment: 122

Don Kuhr : Examiner

Year of Entry: 2017

67	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Mgt. Unit

Compartment:

Year of Entry



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Poletimber Well	20.6	122	51-80	Stand cut via selection as Kropps Trail hardwoods, sale #004-08-01. Completed 01/20/11. Regeneration good ironwood 5-10 ft maple 3-5 ft in canopy gaps.
3	6122 - Black Spruce	Poletimber Well	16.5	83	81-110	OPIC - FMD: Low ground, stand is a fringe between upland hardwood and lowland treed bog. Soil=Dawson, Greenwood, Loxely Complex.
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.7	121	51-80	OPIC - FMD: Stand was treated in 1987; sale #013-87. Occasional scattered WP. Quality of maple in here is not the great, trees have defects. Regeneration is thick from the cutting that took place. Quality could be improved through continued management.
9	42350 - Upland Hemlock	Poletimber Well	11.2	179	81-110	OPIC - FMD: Stand occurs along a hillside that wraps around Melvin Lake. It makes a nice buffer around the lake.
10	4110 - Sugar Maple Association	Sawtimber Well	12.1	179	81-110	OPIC - FMD: Stand was thinned in 1978, sale #15-78. Advanced regen, ~ 1"DBH saps. Treat again to release and enhance growth of existing stand. Access to the stand will have to be through PVT land either the the North, West or East sides of stand. 99=07,03,49,61. Beech has scale. Quality site.
11	42350 - Upland Hemlock	Poletimber Well	1.6	179	51-80	OPIC - FMD: Stand is a buffer around a lowland depression. A very steep hillside on the east side of this bog, would be inoperable to equipment.
13	4110 - Sugar Maple Association	Poletimber Well	39.4	122	51-80	OPIC - FMD: Stand was lightly thinned/TSI's in 1978, T.Sale#017-78 Stand harvested via selection harvest as sale #003-08-01. Complete 06/10/11. Wildlife planting yet to be done as of 07/18/2011. regen good ironwood 5-8 ft maple 3-5 ft
17	4119 - Mixed Northern Hardwoods	Poletimber Medium	1.5	21	1-50	OPIC - FMD: Treat stand with surrounding stand.
19	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	8.8	11	1-50	Stand harvested via seed tree as sale #048-07-01, Old Engadine Road Hardwoods. Completed 05/13/10.
20	4110 - Sugar Maple Association	Sawtimber Well	64.4	121	81-110	Quality site. maple regen existing but browsed. Stand harvested via selection as sale #048-07-01, Old Engadine Road Hardwoods. Completed 05/13/10.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4110 - Sugar Maple Association	Poletimber Well	236.9	120	51-80	OPIC - FMD: Stand has rolling topography. Part of this stand was thinned in 1998, T.Sale#097-01. BA's still around~100-120. Beech has scale. This is a high quality hardwood site. 99=49,07,03. At the review Wildlife Division requested the underplanting of conifer species to increase the conifer component in the hardwood stands in this compartment as well as the underplanting of oak seedlings to replace the mast producing trees that are being lost to beech bark disease. It may be possible to attempt this in this stand. Timing of planting should occur after harvest. See header comments. Stand harvested via selection harvest as sale #049-07-01, C122 Hardwoods. Completed 05/13/10. Planting (WLD) still to be done as of 12/15/10. Regeneration check needed in 2014.
23	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	19.1	86	111-140	Stand is a lowland pocket surrounded by upland hardwoods, hemlock and white pine. There is a drainage out of this stand that leads north to Melvin Lake. Soil=Carbondale/Lupton/Tawas Complex.
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.9	179	111-140	OPIC - FMD: Stand falls on a hillside that may be difficult to access with the low pocket to the east and the PVT land to the north and west.
25	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	2.7	86	81-110	OPIC - FMD: Soil= Carbondale, Tawas, Lupton Complex.
28	429 - Mixed Upland Conifers	Poletimber Well	14.5	58	51-80	OPIC - FMD: Most of the stand was cut in 1977 (TS#20-77). Balsam was mostly all harvested; WP, Hwd, hemlock, and spruce was partially removed. Stand is in a gully/depression surrounded by hardwoods.
32	6122 - Black Spruce	Poletimber Well	6.2	81	81-110	OPIC - FMD: Stand is a pocket of lowland conifer. The center of the stand is more lowland spruce/tamarack/leatherleaf. The outside edges of the stand is more hemlock, WP, balsam, spruce, R. Maple and Y. birch. Soil=Lupton/Tawas.
37	4110 - Sugar Maple Association	Sawtimber Well	59.3	179	51-80	***Stand harvested via selection harvest as "Canada Lakes Hardwood", sale #008-07-01. Complete 10/01/08. Planting still to be done as of 10/22/08. Regeneration check needed in 2012. Summer 2012: SM = 719, RM = 126, BF = 69, WP = 57, Aspen = 69, TPA=1039
40	6123 - Lowland Fir	Poletimber Medium	2.2	39	1-50	OPIC - FMD: Stand was treated in 1977 (T.Sale #020-77). Most all b.fir were cut, WP, hardwood spp. Spruce and hemlock was partially removed. Stand is now a mix of b.fir, black cherry, r. maple, hemlock, y. birch. borders ski trail
43	42350 - Upland Hemlock	Sawtimber Well	15.4	179	81-110	OPIC - FMD: Hemlock type along surrounding a low area. 99=49,04. Soil=Lupton/Tawas.
44	6122 - Black Spruce	Poletimber Well	5.9	86	81-110	OPIC - FMD: Low ground, pocket surrounded by hemlock/hardwoods. Soil = Lupton/Tawas.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4112 - Maple, Beech, Cherry Association	Sawtimber Well	23.3	179	51-80	OPIC - FMD: Stand is situated on rolling topography. Conifers mixed throughout and around stand. Many of the hardwood trees have defects and/or poor form. Beech has scale. 99=10,49,04,07 98=49,20,21,30,39 ***Stand harvested via selection harvest as "Canada Lakes Hardwood", sale #008-07-01. Complete 10/01/08. Regeneration check needed in 2012. Summer 2012: SM = 719, RM = 126, BF = 69, WP = 57, Aspen = 69, TPA=1039
47	42330 - Upland Fir	Poletimber Well	63.1	66	81-110	OPIC - FMD: 98=21,22
50	6122 - Black Spruce	Poletimber Well	7.0	81	81-110	OPIC - FMD: Low ground. Soil=Dawson/Greenwood/Loxely
53	4110 - Sugar Maple Association	Sawtimber Well	108.8	121	81-110	OPIC - FMD: Stand was thinned in 98'-2000, sale#040-97. Aspen was mostly removed, abundant aspen regen in areas where aspen was thicker. Large WP scattered throughout stand, heavy balsam fir understory in places. Hwd not the best quality, a lot of defective trees.
54	4112 - Maple, Beech, Cherry Association	Sawtimber Well	61.1	121	81-110	Stand harvested via selection as sale #007-07-01, Ski Trail hardwoods. Completed 04/05/10. Regeneration check needed in 2014.
56	4311 - Pine, Aspen Mix	Sapling Well	71.1	11	Immature	***Stand harvested as "Ski Trail Aspen", sale #012-07-01. Complete 10/01/08. Regeneration check needed in 2012. Summer 2012: Aspen Fully Stocked
58	42110 - Planted Red Pine	Poletimber Well	75.9	66	111-140	OPIC - FMD: Entire stand was thinned in 1999; T.sale#001-98. South 2/3 of stand was thinned in 1989; T.sale#004-87. Stand BA ranges from 120-190. Thin for last time. Soil=Kalkaska (burned). ***Stand thinned as "Ski Trail Red Pine", sale #023-07-01. Completed 6/3/09.
61	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.2	118	81-110	OPIC - FMD: Stand was thinned in 1987, T.Sale#012-87. Stand has established regen on the ground. Beech has scale. The site has potential, but many of the trees here have defects/poor form. Soil = Kalkaska (burned).
62	4130 - Aspen	Sapling Poor	140.9	7	Immature	***Stand treated via selection harvest as "White Butterfly", sale #009-07-01. Complete 08/05/09. Regeneration check needed in 2013. White pine, hemlock, red pine all left as residual. MO of aspen.
63	4133 - Aspen, Mixed Pine	Poletimber Poor	34.9	41	1-50	OPIC - FMD: Stand is predominantly low quality aspen, b. cherry. Reindeer moss, bracken fern and grass on the ground. Trees are suppressed and old. WP stumps present. Upland brush. Looks like area may have burned hard years ago. Soil=Kalkask (burned).
65	4130 - Aspen	Sapling Medium	27.2	8	Immature	OPIC - FMD: If treated, harvest all aspen, spruce, balsam, paper birch and red maple. Leave all WP, hemlock and red pine. Secondary Management Objective would be White pine or a mix of what is currently here. ***Stand harvested as "Canada Lakes Hardwood", sale #008-07-01. Complete 10/01/08. Regeneration check needed in 2012. Summer 2012: SM = 719, RM = 126, BF = 69, WP = 57, Aspen = 69, TPA=1039



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	6122 - Black Spruce	Poletimber Well	2.6	76	111-140	OPIC - FMD: Stand is mostly black spruce. Hemlock, cedar, WP, Y.birch, tamarack and red maple mixed in mostly on the stand edges. Sphagnum moss on the ground.
67	411 - Northern Hardwood	Sawtimber Well	3.5	121	111-140	OPIC - FMD: Rolling topography within the stand, lower pockets has hemlock, beech and yellow birch. If treated, mark hardwood species, leave hemlock/white pine. Secondary Management Objective would be hemlock or a mix of what is currently here. 10/23/07- After re-evaluating the stand during the timber sale preparation, it was decided not to treat this it at this time. Given what was prescribed and finding out more about what the stand looked like on the ground while doing field work, the prescription did not fit well. There are low pockets that are seasonally wet as well as rolling to steep topography. The stand is heavy to hemlock in many places making it difficult to treat what was prescribed. Most beech in stand is nearly dead from BBD. Stand is naturally converting to hemlock. Stand does make a very good retention area amongst the predominant upland hardwood landscape. KM
71	42110 - Planted Red Pine	Sawtimber Well	3.6	63	51-80	OPIC - FMD: Stand was planted with red pine in 1953 but is a mixed bag of RP/WP/aspens and r. maple. If treated, cut all aspen, r. maple, p. birch. Mark some RP/WP. Secondary Management Objective would be aspen. ***Stand harvested via thinning as "Ketola Trail Red Pine", sale #006-07-01. Complete 08/05/09.
72	42110 - Planted Red Pine	Poletimber Well	45.1	56	51-80	OPIC - FMD: Stand was planted in 1953 and again in 1960. Soil=Kalkaska (burned). ***Stand harvested via thinning as "Ketola Trail Red Pine", sale #006-07-01. Complete 08/05/09.
73	42100 - Planted White Pine	Poletimber Medium	3.5	63	1-50	OPIC - FMD: Stand was planted in 1953. Mostly WP with aspen/r.maple mixed in. Aspen is getting old. If treated, remove aspen and r. maple. Leave all WP. Soil = Kalkaska (burned). Secondary Management Objective would be aspen or a mix of what is currently here. ***Stand harvested via thinning as "Ketola Trail Red Pine", sale #006-07-01. Complete 08/05/09.
76	42200 - Natural White Pine	Poletimber Well	7.2	63	81-110	OPIC - FMD: Planted WP is 1-3 sticks tall and limby. Planted in 1953. Large/mature aspen scattered throughout stand. Aspen overtops the WP. If aspen is cut now, residual WP would be damaged. WP is not that big now in diameter, many sub-merchantable trees. Leave for another 10 years and re-evaluate. Soil=Kalkaska (burned)
77	42110 - Planted Red Pine	Sawtimber Well	43.0	56	111-140	OPIC - FMD: Stand was planted in 1953 and again in 1960. Some trees survived from the 53' planting. Never been thinned. Soil=Kalkaska (burned) ***Stand harvested via thinning as "Ketola Trail Red Pine", sale #006-07-01. Complete 08/05/09.
79	4130 - Aspen	Sapling Well	60.0	24	Immature	OPIC - FMD: Stand was cut in 1992, T.Sale#021-92. Aspen regeneration with WP, balsam, cherry, spruce mixed in. Some scattered RP/WP poles in the overstory that were left as residual from the harvest. Soil=Kalkaska (burned)
80	4130 - Aspen	Sapling Well	7.7	35	Unspecified	OPIC - FMD: Stand was cut in 1981, T.Sale#015-81. Aspen is the dominate species with cherry, balsam, spruce and white pine mixed in. Some of the aspen in the stand is poor quality. Some stems just coming into merchantability. Soil=Kalkaska (burned)



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	4136 - Aspen, Mixed Conifer	Sapling Well	37.5	35	Unspecified	OPIC - FMD: Stand was cut in 1981, T.Sale#015-81. Aspen is the dominate species with cherry, balsam, spruce and white pine mixed in. Some of the aspen in the stand is poor quality. Some stems just coming into merchantability. Soil=Kalkaska (burned)
86	4130 - Aspen	Sapling Medium	69.6	9	1-50	***Stand treated via selection harvest as "White Butterfly", sale #009-07-01. Complete 08/05/09.
701	4112 - Maple, Beech, Cherry Association	Poletimber Well	64.1	121	51-80	OPIC - FMD: Luce County Lease Land. Stand was treated in 1990 (Sale#015-88) and treated again in 2001-02 (Sale# 015-98). Stand was marked fairly uniform across the acreage. Regen coming in, thick in some places. 12/1/05 - This stand suffered major wind damage last month and a salvage operation is currently underway to salvage the blowdowns. There are areas with very little residual BA left.
703	6123 - Lowland Fir	Poletimber Well	1.7	39	51-80	OPIC - FMD: Luce County Lease Land. Most of stand was treated in 1977 (T.Sale 020-77). Balsam was mostly all cut and the WP, Hwd, hemlock and spruce was partial removed. Stand is in a gully/depression surrounded by hardwoods.
704	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	10.4	39	1-50	OPIC - FMD: Luce County Lease Land. Stand was treated in 1977 (T.Sale#020-77) Most all b.fir was cut and WP, hwd, spruce and hemlock was partially removed. Most of what is standing now is regeneration of what was cut.
708	4110 - Sugar Maple Association	Poletimber Well	277.6	179	51-80	OPIC - FMD: Luce County Lease Land. Stand was treated in 1990 (Sale#015-88) and treated again in 2001-02 (Sale# 015-98). It will likely be treated again before the lease is expired. Stand was marked fairly uniform across the acreage. Regen coming in, thick in some places. 12/1/05 - Areas of this stand suffered major wind damage last month and a salvage effort is currently underway. 1/13/06 - At the review Wildlife Division requested the underplanting of conifer species to increase the conifer component in hardwood stands within this compartment as well as underplanting oak seedlings to replace most producing trees that are being lost to beech bark disease. It may be possible to attempt this in this stand immediately following the next harvest that is scheduled. See header comments for more info.
717	4110 - Sugar Maple Association	Sawtimber Well	85.3	121	51-80	OPIC - FMD: Luce County Lease Land. Stand was treated in '98, two separate sales, 013-94 and 023-94. It will likely be treated again before the lease expires. Occasional Y. Birch, spruce and WP throughout stand. Beech scale present. At the review Wildlife Division requested the underplanting of conifer species to increase the conifer component in hardwood stands within this compartment as well as the underplanting of oak seedlings to replace the most producing trees being lost to beech bark disease. It may be possible to attempt this in this stand once treatments have take place. Timing of planting should occur immediately after harvest. See header comments.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	310 - Herbaceous Openland	13.1	No	***Stand harvested as "Ski Trail Aspen", sale #012-07-01. Complete 10/01/08. Regeneration check needed in 2012. Summer 2012: semi open with well stocked aspen clones.
4	6224 - Treed Bog	26.2	No	OPIC - FMD: Suppressed spruce.
6	310 - Herbaceous Openland	7.9	No	open with scattered white pine and planted large oak
7	500 - Water	7.7	No	OPIC - FMD: Melvin Lake. Beaver house on the SE end of the lake with recent activity.
8	6225 - Bog	7.1	No	OPIC - FMD: OI Stand Year Origin was
12	6225 - Bog	1.3	No	OPIC - FMD: Bog/Muskeg. Lowland depression/hole surrounded by upland types.
14	3102 - Grass	1.2	No	OPIC - FMD: Scattered trees, b.cherry, bushy WP, balsam fir and spruce in an old opening. Opening is filling in with tree cover. Cherry is poor form.
15	122 - Road/Parking Lot	1.2	No	OPIC - FMD: Old Engadine Road/County Road 405 Right-Of-Way
18	310 - Herbaceous Openland	2.8	No	OPIC - FMD: Powerline R.O.W.
21	320 - Upland Shrub	1.2	No	OPIC - FMD: Luce County Lease Land. Stand is an opening completely surrounded by hardwoods. Mostly poor formed black cherry growing. Opening has spruce/balsam/maple mix along edges. Raspberry brush/grass on ground.
27	320 - Upland Shrub	1.1	No	OPIC - FMD: Luce County Lease Land. Stand is an opening completely surrounded by hardwoods. Mostly poor formed black cherry growing. Opening has spruce/balsam/maple mix along edges. Raspberry brush/grass on ground.
34	320 - Upland Shrub	1.0	No	OPIC - FMD: Stand is an opening completely surrounded by hardwoods. There is poor formed black cherry growing in an opening. Opening has scattered spruce/balsam/maple mix along edges. Sec. 34 Road runs through the middle of the stand. Raspberry brush/Grass GC.
42	6224 - Treed Bog	2.1	No	OPIC - FMD: Treed bog, scattered suppressed WP and spruce. Leatherleaf brush. Soil=Dawson/Greenwood/Loxely.
46	6224 - Treed Bog	3.7	No	OPIC - FMD: Soil= Dawson/Greenwood/Loxely Complex.
48	6225 - Bog	7.3	No	OPIC - FMD: Soil=Spot
49	500 - Water	5.4	No	OPIC - FMD: Canada Lake.



Stand	Cover Type	Acres	Managed Site	General Comments:
51	500 - Water	1.3	No	OPIC - FMD: Canada Lake.
52	6224 - Treed Bog	6.0	No	OPIC - FMD: Treed bog surrounding Canada Lake.
59	122 - Road/Parking Lot	1.0	No	OPIC - FMD: Canada Lakes Ski Trail parking lot.
64	623 - Emergent Wetland	1.2	No	OPIC - FMD: Marsh/Water hole the seasonally dries up. Leatherleaf and grasses on the ground. Nealy dry now. Surrounded by poor quality aspen, cherry, wolfy WP and spruce.
475	3102 - Grass	4.4	No	OPIC - FMD: Small diameter, poor quality aspen and b. cherry, WP seeding in, seedlings/saps scattered throughout. Ground cover is reindeer moss, grass and b. fern. Some scattered red pine on edges where the surrounding plantation failed. Soil = Kalkaska (burned) Oak saplings planted after last YOE. Most died.
705	6225 - Bog	1.3	No	OPIC - FMD: Luce County Lease Land.
710	320 - Upland Shrub	1.0	No	OPIC - FMD: Luce County Lease Land. Stand is an opening completely surrounded by hardwoods. Mostly poor formed black cherry growing. Opening has spruce/balsam/maple mix along edges. Raspberry brush/grass on ground.