



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42098

Entry Year 2024

Acreage: 5,253

County Luce

Management Area: Fox River Complex

Stand Examiner: Jennifer Burnham

Legal Description:

T46N R12W Sections 19, 20, 21, 28, 29, 30, 31, 32 & 33

Identified Planning Goals:

Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

Soil and topography:

The area is mainly level swamps with a small portion in upland sand plains, and sand ridges. The main soil types within the compartment are the Carbondale, Lupton, Tawas soils, Dawson, Greenwood, and Loxley soils. All are poorly drained with muck or muck peat.

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

The compartment is entirely state owned land. The compartment is entirely bordered by state land on the north and mostly private lands on the east, west and south sides.

Unique Natural Features:

The East Branch of the Fox River, Bev Creek and Deer Creek flow through the compartment.

Archeological, Historical, and Cultural Features:

Currently under review.

Special Management Designations or Considerations:

The East Branch of the Fox River, Bev Creek and Deer Creek are managed under Michigan's Natural Rivers Program.

Watershed and Fisheries Considerations:

This compartment contains the East Branch Fox River, Bev Creek, and Deer Creek which serve as tributaries to the Manistique River. The East Branch Fox River, Bev Creek, and Deer Creek are all designated Type 1 trout streams less than 50 feet in width and have predicted mean July temperatures that range from 58.6 to 64.5 °F (cold streams).

The East Branch Fox River, Bev Creek, and Deer Creek are located within a designated Michigan Natural River area. A minimum 300-foot Riparian Management Zone (RMZ) is recommended in areas susceptible to aspen regeneration. For areas not susceptible to aspen regeneration, a minimum 200-foot RMZ is recommended. Within the RMZ, trees may be selectively pruned or thinned for timber harvest, habitat improvement, or to maintain public utility facilities. For example, selective cutting within 25 feet of the outside edge (landward side) of the RMZ may be permitted, however no cutting of trees larger than 4 inches DBH should occur within 25 feet of the water's edge.

Wildlife Habitat Considerations:

Compartment 98 lies in south western Luce county and is in the Seney Sand Lake Plain ecological sub-subsection and is situated in the Fox River Complex Management Area where white-tailed deer, black bear, snowshoe hare, spruce grouse and northern goshawk are designated featured species. There is a substantial amount of wildlife purchased land in the compartment. A small portion of the compartment falls in the McMillan-Black Creek Deer Wintering Complex which can support high deer number of deer during stressful winter periods. The Fox river and numerous creeks run through the bulk of the compartment and are important wildlife travel corridors. The compartment is dominated by mature, diverse cover types including lowland conifer, spruce, mixed deciduous, and lowland deciduous. There are few prescribed treatments at this time. The compartment serves a vital purpose for wildlife species requiring large stands of mature cover types such as fisher, American marten and blackburnian warbler, and serves numerous other wildlife species needs for resting and escape cover, travel corridors, nest, den, and roosting sites and food sources. Wildlife species likely to use the compartment include white-tailed deer, black bear, fisher, marten, bobcat, coyotes, gray wolves, beaver, snowshoe hare and pileated woodpecker.

Mineral Resource and Development Concerns and/or Restrictions

Sections 19-21 & 28-33, T46N-R12W, Luce County. No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The nearest known active sand/gravel pits are roughly four miles to the southeast and northwest. There may be some potential for sand within the compartment, but the compartment is dominated by wetlands, which would inhibit surface mining. No current State mineral leasing activity exists in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Other than highway M-28 and the railroad right-of-way that bisect the compartment, vehicle access is very limited. There are two seasonal two-track roads leading from county road 421 that travel into the compartment. The total mileage of these seasonal roads combined is less than one mile.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Hunting, fishing, wildlife viewing, and camping opportunities exist within the compartment.

Fire Protection:

Lowland conifer types with a high water table make up the majority of the stands. Large fires in this compartment are not likely because of the hardwood and mixed conifer/hardwood lowland types. The occasional pine ridges are surrounded by these conifer stands making access very difficult for heavy suppression equipment. The northeast corner has more opportunity for fire potential because of the proximity to the Danaher Plains Area.

Additional Compartment Information:

The following reports from the Inventory are attached:

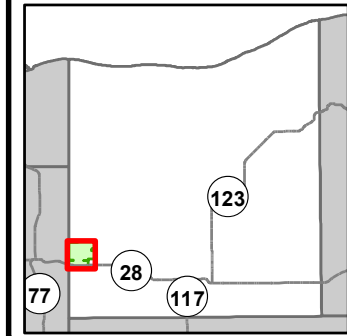
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

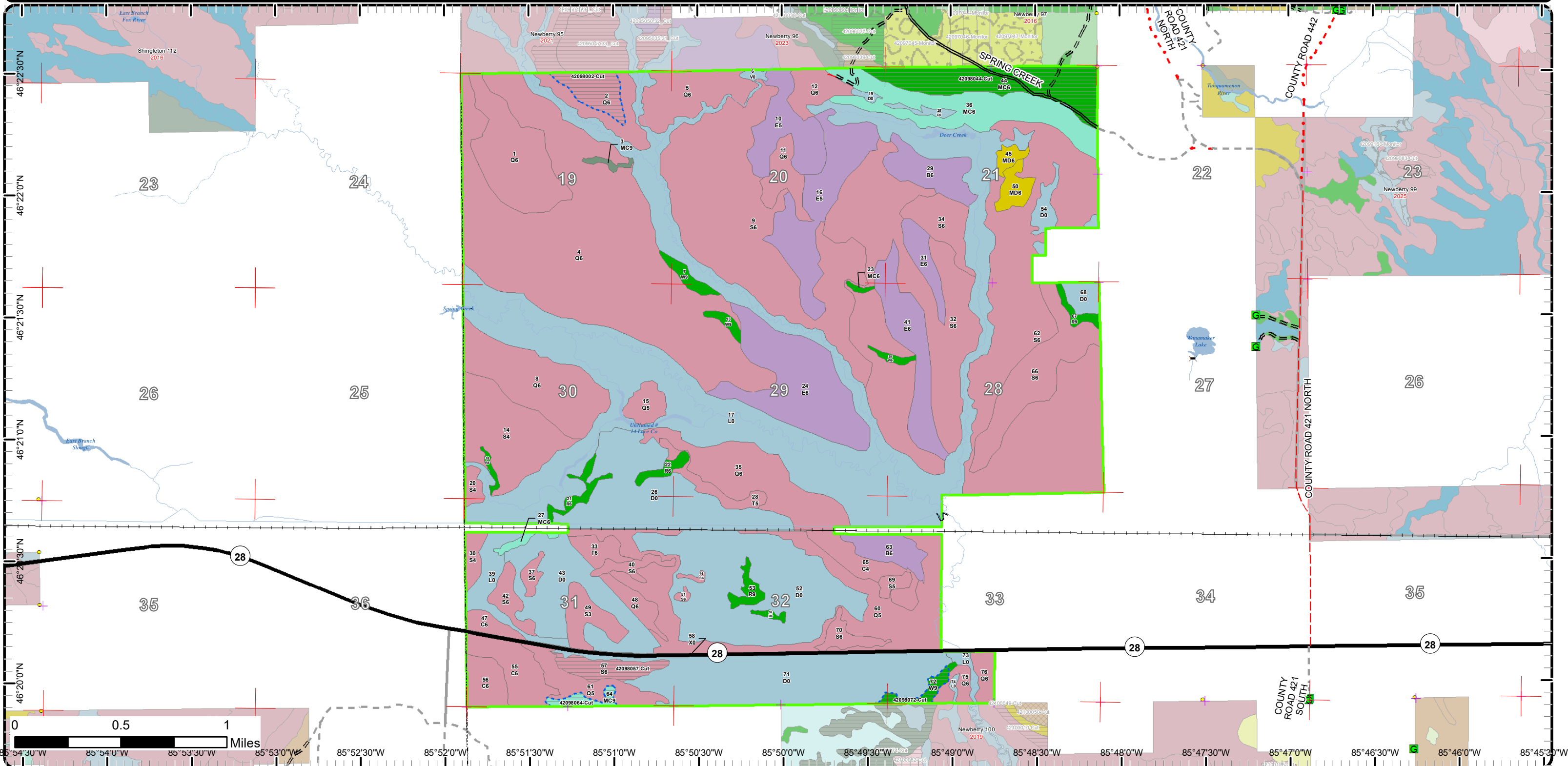
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 98
 T46N, R12W, Sec. 19-21, 28-33
 County: Luce
 Unit: Newberry
 Mgmt Area: Fox River Complex
 YOE: 2024
 Acres: 5253.4 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 1/6/2023
 Map Phase: Post-Review

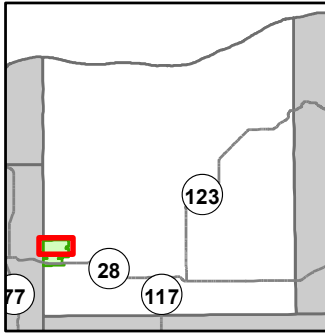


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Unspecified
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 622 - Lowland Shrub

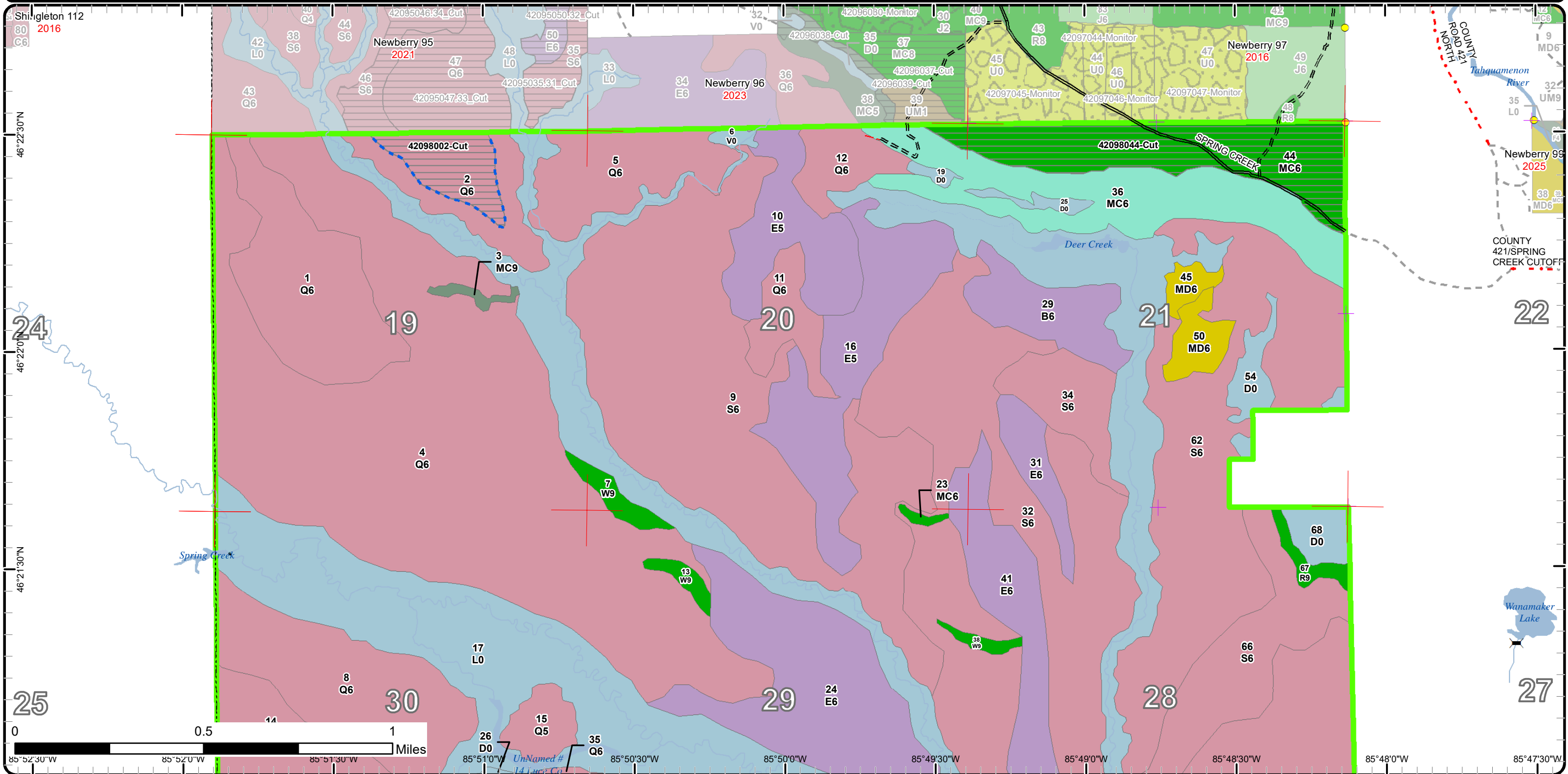


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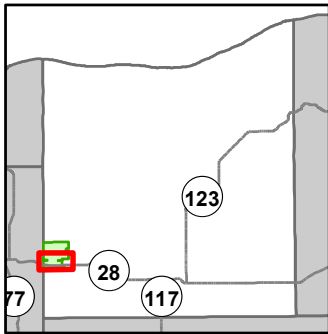


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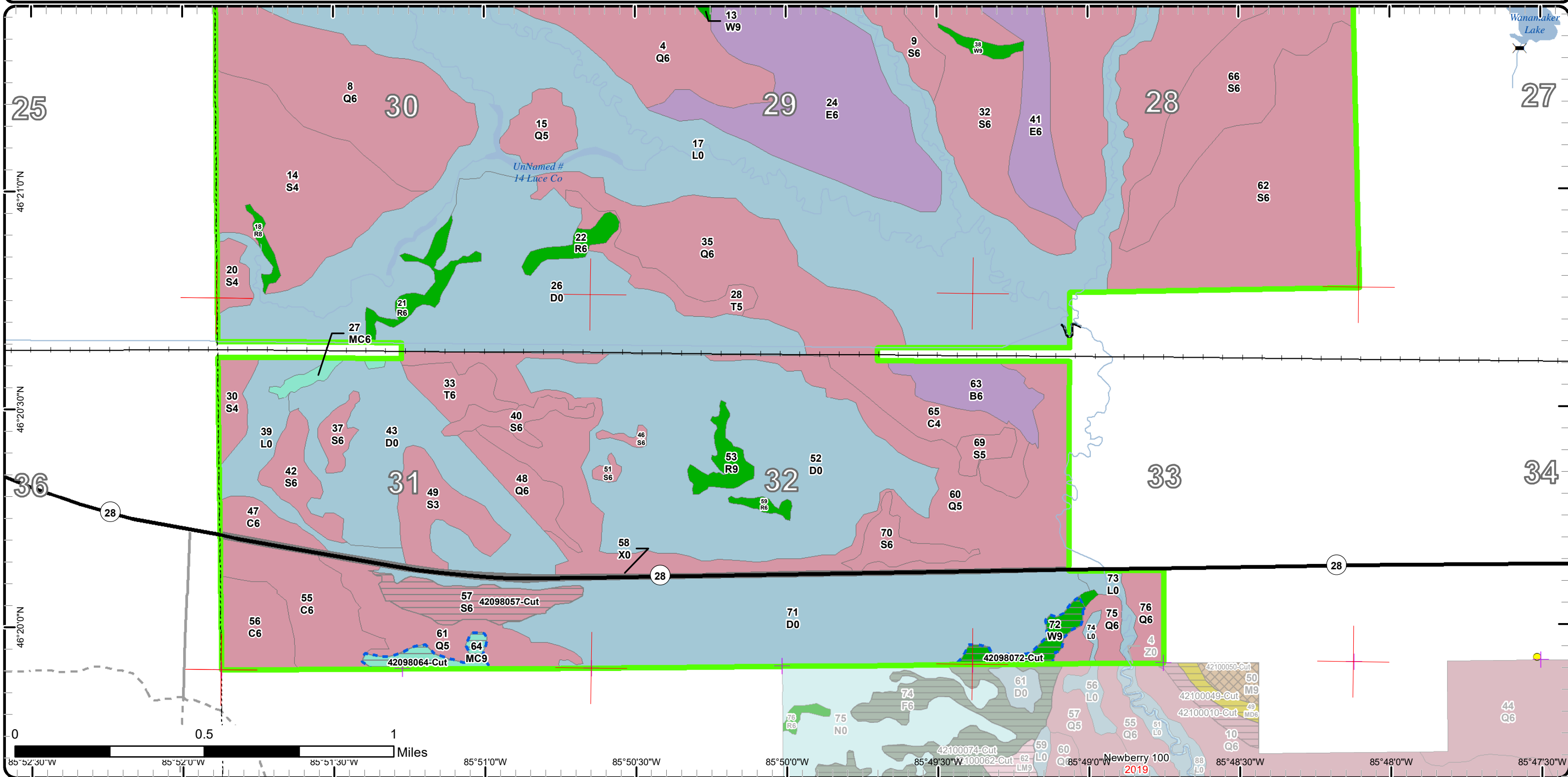


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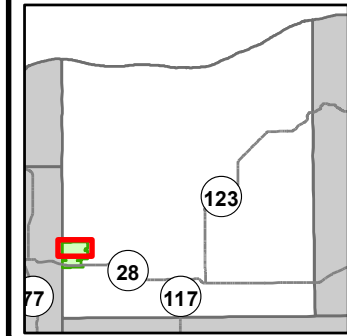


Wanaukeg Lake

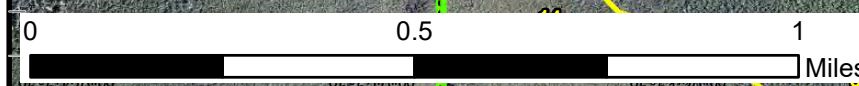
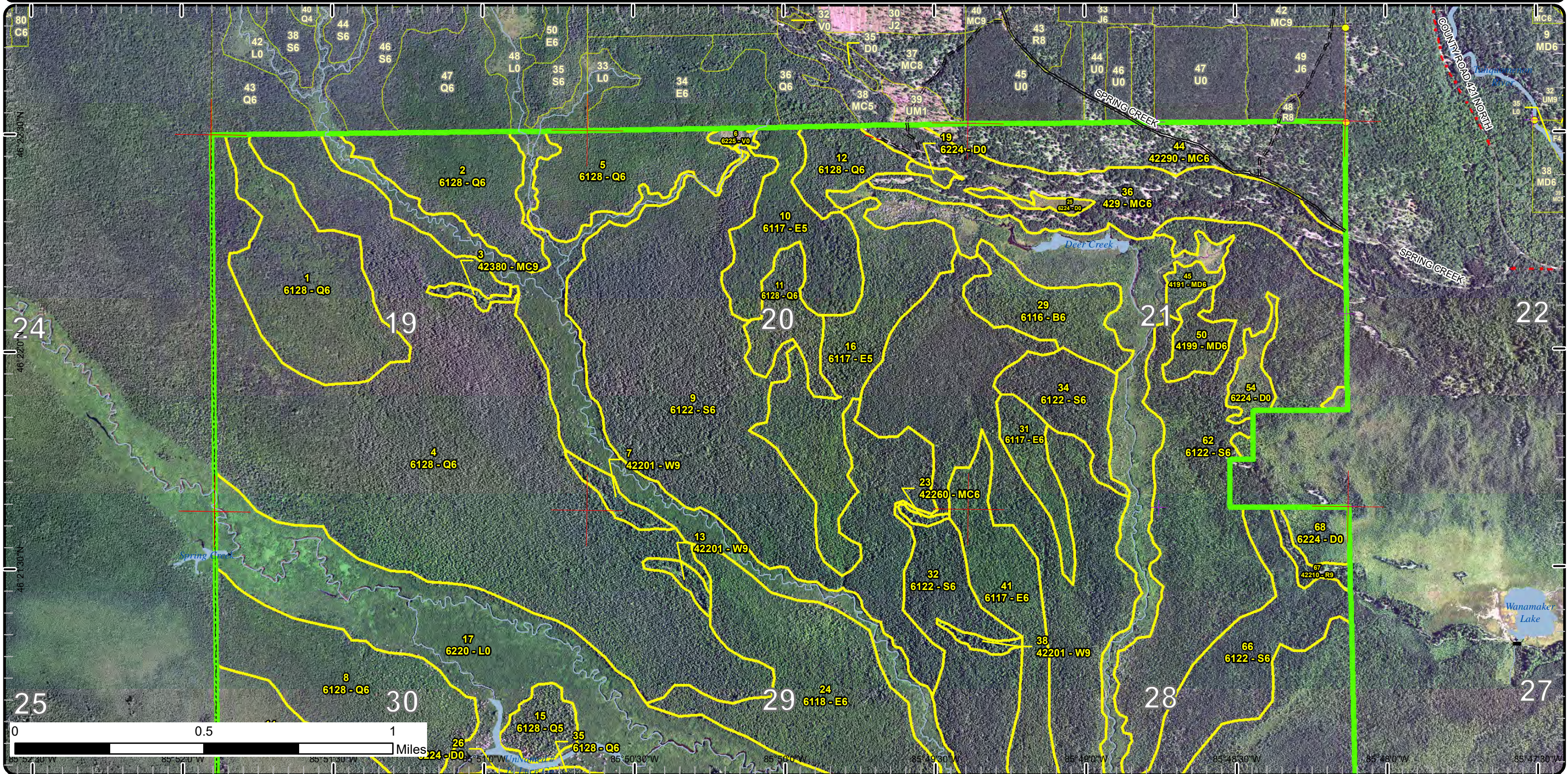
Newberry 100
2019

Stand Boundary Map

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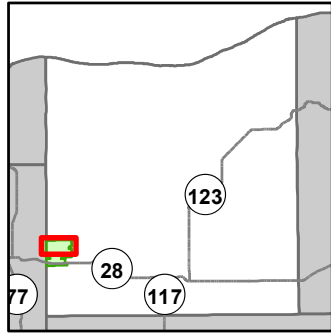
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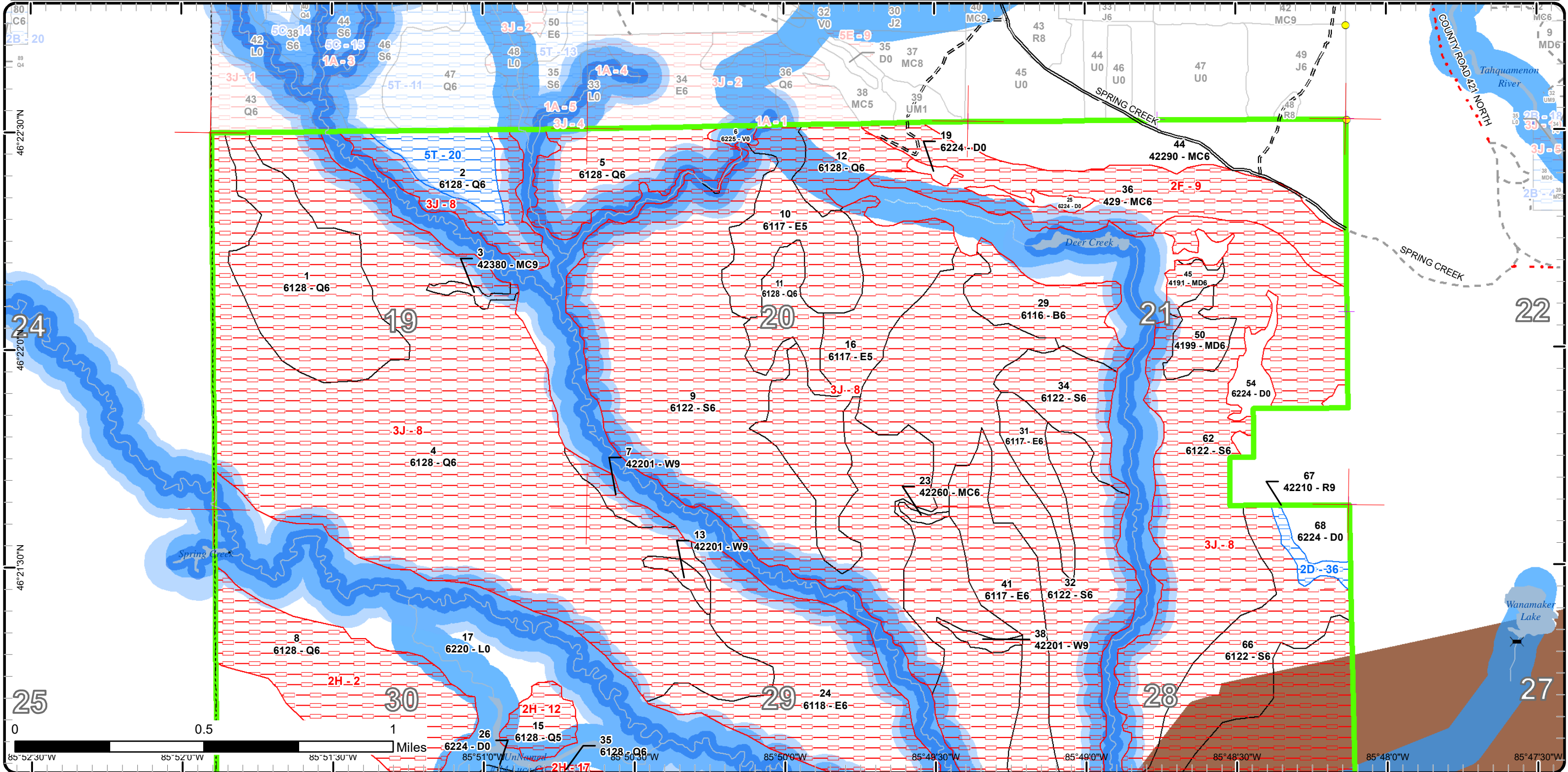
85° 52' 30" W
85° 51' 30" W
85° 50' 30" W
85° 49' 30" W
85° 48' 30" W
85° 47' 30" W

Special Conservation Areas

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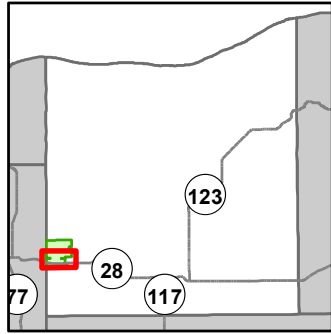


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- Perennial River
- Unspecified
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 5T: Contingency Treatment for Forest Health Concerns
- Unavailable
- 2F: Too steep
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range

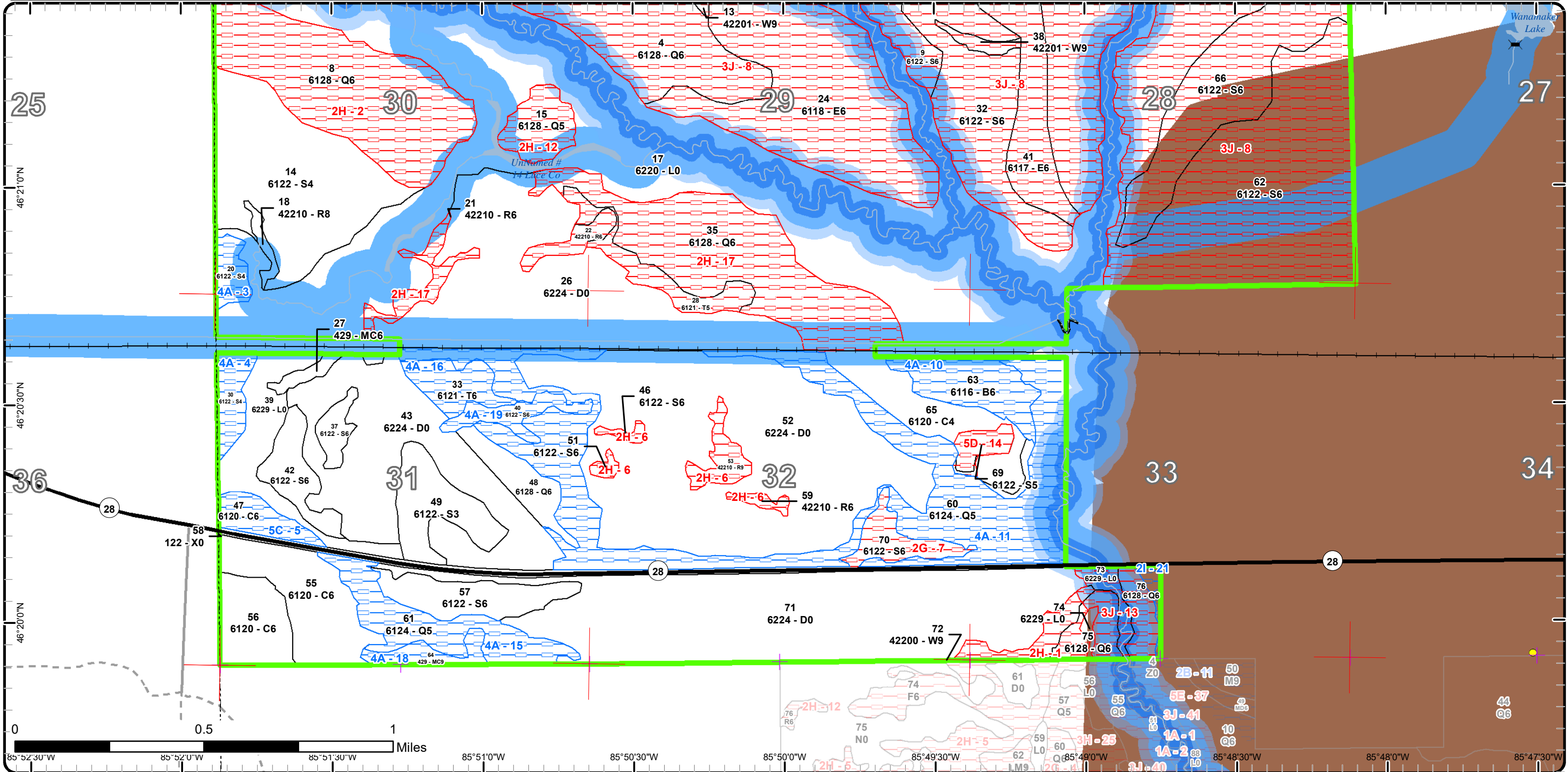


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- Lake/Pond
- Perennial River
- Unspecified
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 98

Year of Entry 2024

Jennifer Burnham : Examiner



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
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	45	0	75	0	0	0	0	0	0	0	120
Lowland Conifers	0	0	0	0	0	0	0	0	193	39	947	143	0	0	0	0	0	0	1322
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	402	0	0	0	0	0	0	0	402
Lowland Shrub	802	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	802
Lowland Spruce/Fir	0	0	0	0	0	0	0	57	133	42	1163	0	0	0	0	0	0	0	1395
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	25
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	97	0	0	0	0	0	0	0	97
Paper Birch	0	0	0	0	0	0	0	0	0	0	73	0	0	0	0	0	0	0	73
Red Pine	0	0	0	0	0	0	0	0	0	33	12	0	0	0	0	0	0	0	45
Tamarack	0	0	0	0	0	0	0	0	17	19	0	0	0	0	0	0	0	0	36
Treed Bog	750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	750
Upland Conifers	0	0	0	0	0	0	0	0	0	5	111	4	0	0	10	0	0	0	130
Urban	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
White Pine	0	0	0	0	0	0	0	0	0	0	16	16	0	0	0	0	0	0	32
Total	1579	0	0	0	0	0	0	57	388	138	2921	163	0	0	10	0	0	0	5256



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 98

Total Compartment Acres: 5,253

Commercial Harvest - 123
 Harvests with Site Condition - 50
 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 Conifers	29	0	0	0	0	0	0	0	0	29
Lowland Spruce/Fir	27	0	0	0	0	0	0	0	0	27
Natural Mixed Pines	95	0	0	0	0	0	0	0	0	95
Upland Conifers	10	0	0	0	0	0	0	0	0	10
White Pine	11	0	0	0	0	0	0	0	0	11
Total	173	0	0	0	0	0	0	0	0	173

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	173	0	0	0	0	0	0	0	0	173
Next Step	0	95	95	0	0	191	268	0	0	650
Total	173	95	95	0	0	191	268	0	0	822



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

2	42098002-Cut	29.4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	93		Harvest	Clearcut	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut leaving a couple retention pockets in the stand. Buffer the creek 200 feet. Try to leave large white pine and any lesser occurring species in the retention patches. Leave all hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Regeneration will be that of the species that are currently present.</p> <p><u>Other Comment:</u> Winter harvest with adj stand to the north.</p> <p><u>Site Condition</u> Contingency Treatment</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
44	42098044-Cut	95.4	42290 - Natural Mixed Pine	Poletimber Well	93	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant to red pine. Leave oak on the edges to allow for follow up treatments.</p> <p><u>Specs:</u> No retention due to the large amount of acreage to the south that will never be harvested.</p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Red pine</p> <p><u>Other Comment:</u> Early start date to allow for joint work with compartment 42096, stands 37, 38, and 39.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
57	42098057-Cut	27.2	6122 - Black Spruce	Poletimber Well	89	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest all species except for cedar.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Regeneration will be the species that are currently present in 2022.</p> <p><u>Other Comment:</u> Winer harvest due to soil types.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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64	42098064-Cut	9.7	429 - Mixed Upland Conifers	Sawtimber Well	131	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Final harvest leaving wind firm white pine for a seed source. Where possible push boundary into adjacent stand to harvest mature spruce.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Harvest will promote species other than white pine.
Regen:

Other Winter harvest to protect soils at access points.
Comment:

Site Condition No Markets

Proposed Start Date: 10/1 /2023

72	42098072-Cut	10.9	42200 - Natural White Pine	Sawtimber Well	105	1-50	Harvest	Clearcut with Retention	4220 - Natural White Pine	Two-Aged	No
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Prescription Harvest all trees except red and white pine, and cedar and hemlock if found. Harvest with adjacent compartment 100 stand 74.
Specs:

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

Acceptable white pine or any combination of species currently on site
Regen:

Other
Comment:

Site Condition Blocked by Obstacle

Proposed Start Date: 10/1 /2018

Total Treatment Acreage Proposed: 172.6

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 98
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions												
		With Condition				2D	2I	4A	5C	5T	2F	2G	2H	3J	5D			
4	4	0		0		Bog												
120	107	13		0		Cedar				13					0			
1322	20	244		1059		Lowland Conifers		4	211		29				240	818	1	
402	0	0		402		Lowland Deciduous										402		
802	794	0		8		Lowland Shrub								0	8			
1075	187	34		853		Lowland Spruce/Fir			34				15	4	826	8		
25	0	0		25		Mixed Upland Deciduous										25		
97	95	0		2		Natural Mixed Pines										2		
49	0	5		44		Paper Birch			5							44		
44	4	8		33		Red Pine	8							33				
36	0	17		19		Tamarack			17					19				
750	750	0		0		Treed Bog								0				
130	5	10		115		Upland Conifers			10			111				4		
23	23	0		0		Urban												
31	0	0		31		White Pine								11	21			
4,910	1,990	329		2,591		Total Forested Acres	8	4	276	13	29	111	15	307	2,150	8		
	41%	7%		53%		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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	112	2G: Too wet (sensitive soils, does not include access issues)	2I: Survey needed	Unspecified	Unspecified
Comments: Stand is next to a Natural River, there is potential for feed creeks to be found with in the stand.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 98
Year of Entry: 2024

3	Available	4A: No Markets Available for these Forest Products	9	Unspecified	2B: Unknown if access through adjacent landowner(s) is possible	2I: Survey needed	Unspecified
Comments: Would have to access through private and over RR tracks. Small acres and around 1/3 of the stand is not very merchantable.							
4	Available	4A: No Markets Available for these Forest Products	13	Unspecified	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: 2014-Possibly manage in 10 years if more the of diameters and canopy closure gets better. Wet soils will probably be an issue.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wait to treat in 10 years to get more growth on what trees are there. Treat with adj stands.							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2,442	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area is mainly a buffer for Natural Rivers corridor. Areas that are outside of the corridor, contains seeps and small drains. Area is very wet. There may be a chance to harvest some acres in the north against compartment 95.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 98
Year of Entry: 2024

9	Unavailable	2F: Too steep	111	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	4A: No Markets Available for these Forest Products	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	4A: No Markets Available for these Forest Products	172	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Used to be a tamarack stand but most has died. High water table is also an issue.							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	2D: Portable Bridge Needed (Dept. bridge will be adequate)	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Island surrounded by rivers							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Some of this buffer falls within the Fox River Natural Rivers area.							
14	Unavailable	5D: Unproductive Forest Land	8	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 98
Year of Entry: 2024

15	Available	4A: No Markets Available for these Forest Products	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very poor quality wood in wet area and low BA.							
16	Available	4A: No Markets Available for these Forest Products	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	143	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: would have to cross RR tracks - even with snow load pretty sure there are many feed creeks in the stand.							
18	Available	4A: No Markets Available for these Forest Products	10	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Would need to be harvested with other stands to make this a probable sale.							
19	Available	4A: No Markets Available for these Forest Products	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5T: Contingency Treatment for Forest Health Concerns	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 98
Year of Entry: 2024

21	Available	2I: Survey needed	4	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	8	2B: Unknown if access through adjacent landowner(s) is possible	4A: No Markets Available for these Forest Products	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
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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
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	101.4	93	51-80	N/A	Blocked by Rivers and private, very wet ground. (2012) From Previous Inventory: Some large WP scattered- mixed red maple, paper birch, black spruce, cedar and tamarack. Speculation - that hardwood will start to fall out of stand b/c of age.																																														
2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	63.0	93		N/A	(2012) Mix of lowland hardwood/conifer stands. Larger patch of poor quality hardwood in the center. More wet around the edges because of the proximity to the rivers.																																														
3	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	4.1	103	51-80	N/A	(2012) Stand is a white, red pine ridge with mixed rm, birch, cedar, spruce - age and timber type taken from previous inventory - forester used plane and aerial imagery to determine timber type and estimated age.																																														
4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	544.3	93	51-80	N/A	(2012) There are some large WP on the higher elevations - Stand is a mix of lowland conifer species as well as paper birch, red maple with pockets that are heavier to spruce/cedar. Not sure if there would be any feeder creeks within the stand.																																														
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	63.9	96	51-80	N/A	(2012) Like stand to north - the small creeks are found through the stand. would have to treat together (stand N). Fair to poor quality timber. More spruce to the south with diameters tapering as you get closer to the river. Old ice roads are filled mainly with tag alder.																																														
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6	6225 - Bog	Nonstocked	4.2			No	Flooded area from the river with some beaver activity.																																														
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7	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	9.7	93	51-80	N/A	(2012) Previous Inventory comments: stand is a ridge of white pine with a mix of hemlock, paper birch and black spruce.																																														
8	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	112.3	105	51-80	N/A	(2012) Previous Inventory comments: paper birch over topping cedar and tamarack- may be able to access from private because of their recent harvesting- would need a real winter to protect soils- evidence of old ice roads.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
9	6122 - Black Spruce	Poletimber Well	319.5	93		N/A																																															
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10	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	62.3	93		N/A	(2012) Previous Inventory comments: stand is mainly paper birch over lowland conifer- speculation: birch will fall out because of age and stand becomes conifer. Poor access from the north through pvt and State land, potential for small feeder creeks in stand.																																														
11	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	28.9	93		N/A	Previous Inventory: dbh around 6" for cedar, stand is a mix of cedar, tamarack, birch and black spruce. Old ice roads in stand.																																														
12	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	27.0	93	Unspecified	N/A	There are many areas in the stand that have an open canopy and fall on the low end of the closure percent. (2012) Stand has pockets of more open or dead areas that is heavy to tag alder. Evidence of past logging. Crossed at least two small feeder creeks but couldn't trace it's entire length. Stand would be difficult to harvest because of these.																																														
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13	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	5.9	93	51-80	N/A	(2012) Previous Inventory comments: stand is a ridge of white pine with a mix of hemlock, paper birch and black spruce.																																														
14	6122 - Black Spruce	Poletimber Poor	103.5	73	Unspecified	N/A	No change from 2012 inventory. (2012) More trees than what it seemed on the photos. Photo shows old ditch/road similar to the one south of tracks. Slight ridges has allowed for white pine and other spp to grow fairly well. From edge of tracks and the other pine ridge spruce is any where from 1-3 sticks																																														
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15	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	18.4	105		N/A	(2012) Previous Inventory comments: paper birch overtopping cedar - some tamarack 8" dbh and medium stocking.																																														
16	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	103.5	93	Unspecified	N/A	No real change from 2012 inventory. (2012) Mix of paper birch, red maple, cedar, tamarack and black spruce - old ice roads - tag alder and other swamp ground cover present in the more open areas.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
17	6220 - Alder/willow	Nonstocked	757.9			No	Cedar, tamarack, spruce are stunted 1 stick trees. Follows the Fox River, Bev Creek and Deer Creek.																																											
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18	42210 - Natural Red Pine	Sawtimber Medium	3.6	93	51-80	N/A	Did not visit stand in 2024 data is from 2012.																																											
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19	6224 - Treed Bog	Nonstocked	2.8			No																																												
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20	6122 - Black Spruce	Poletimber Poor	9.2	93	1-50	N/A	Tamarack has died out. BA is very low. (2012) Could possibly get to stand through pvt - very low volume in small stand- poor quality.																																											
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21	42210 - Natural Red Pine	Poletimber Well	11.7	83	1-50	N/A	There are pockets of cedar, bs and large scattered wp in the stand. about 1-5' elevation change from surrounding lowland type- quality of the red pine trees is fair.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22 42210 - Natural Red Pine Poletimber Well 8.0 83 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	10	Pole/Sapling	7		Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub
Red Pine	70	Pole/Log	10	83	Tag Alder	Low	Variable	Tall Shrub
White Pine	5	Log/XLog	14		Leatherleaf	Low	Variable	Tall Shrub
Jack Pine	5	Pole/Sapling	7					
Black Spruce	10	Pole/Sapling	7					

23 42260 - Natural Pine, Mixed Deciduous Poletimber Well 2.0 93 51-80 N/A Pine ridge in the swamp.

24 6118 - Lowland Deciduous with Cedar Poletimber Well 141.1 93 51-80 N/A

(2012, 2002) Over mature paper birch with conifers in the understory low volume- would need to cross the RR and then have a large bridge over the Fox River or two to cross Deer Creek/Bev Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	50	Pole	9	93	Tag Alder	Low	< 5 feet	Tall Shrub
Red Maple	10	Pole	8		Black Spruce	Low	Variable	Sapling
Northern White Cedar	20	Pole/Sapling	7		Labrador Tea	Low	< 5 feet	Tall Shrub
Black Spruce	20	Pole/Sapling	7					

25 6224 - Treed Bog Nonstocked 5.4 No

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace		Sapling
Tamarack	Low		Sapling
Northern White Cedar	Low		Sapling

26 6224 - Treed Bog Nonstocked 159.3 No

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium		Sapling
Bog Birch	Low		Tall Shrub
Balsam Poplar	Low		Sapling
Tamarack	Medium		Sapling
Tag Alder	Low		Tall Shrub



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27	429 - Mixed Upland Conifers	Poletimber Well	5.2	83	51-80	N/A	2022- Canopy is on low end. all species is of poor quality. Stand has not improved from 10 years ago. The majority of the black spruce is in the east. 2014- Stand is an old pine ridge with several barren spots with spotted knapweed and blueberry - north east tip contains the majority of the tamarack with a good mix of spp through out the remainder of the stand. BS 1-3 , Tam 1-5 sticks, RP are getting to log size - white pine poor quality																																																											
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28	6121 - Tamarack	Poletimber Medium	18.8	83	1-50	N/A	(2012) Transition stand - high water table. there is black spruce, cedar present.																																																											
29	6116 - Lowland Birch	Poletimber Well	44.1	93	51-80	N/A	Difficult access to the stand. White birch is over mature. (2012) Slight elevation change to allow poor quality paper birch to grow - now over mature and dying out. conifers coming up underneath.																																																											
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30	6122 - Black Spruce	Poletimber Poor	12.6	73	1-50	N/A	2022 - Tamarack is dead. Stand is sparse with no regeneration, not sure how to over come this decrease in BA. 2014-Healthy stand - canopy closure closer to 75%- diameters still small wait until more mature to cut. Depending on the elevation trees are 3-7 sticks.																																																											
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31	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	22.9	93	1-50	N/A																																																												
32	6122 - Black Spruce	Poletimber Well	300.6	93	51-80	N/A																																																												



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33	6121 - Tamarack	Poletimber Well	17.0	73	1-50	N/A	Basal area has dropped from tamarack mortality. DBH has not increased.																																														
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34	6122 - Black Spruce	Poletimber Well	37.5	93		N/A																																															
35	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	104.6	93	51-80	N/A	(2012) Would have to cross the RR tracks - BA is spotting - better timbered areas is in the middle. Could not tell if there are any small feeder creeks b/c of the snow.																																														
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36	429 - Mixed Upland Conifers	Poletimber Well	110.6	93	81-110	N/A	Very steep slope on south side - spruce, tamarack, and pine are found in-between the ridges.																																														
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37	6122 - Black Spruce	Poletimber Well	7.9	65	1-50	N/A	(2012) Stand looks healthy - old winter road through it - sure it was cut in the past and is regenerating to what it is now. Slightly higher elevation than surrounding stand is allowing trees to grow.																																														
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38	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	4.2	103	51-80	N/A																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39	6229 - Mixed lowland shrub	Nonstocked	34.6		Unspecified	No	Poor quality - stand is the transition between the forested stand to the west and the treed bog to the east.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Tag Alder	Full		Tall Shrub
								Cattail spp.	Low		Non-Wood
								Black Spruce	Low		
								Northern White Cedar	Trace		
								Tamarack	Low		
								Paper Birch	Trace		
Bog Birch	Low		Tall Shrub								

40	6122 - Black Spruce	Poletimber Well	12.3	73	81-110	N/A	Tamarack is in decline. All other species, except spruce is at max age. Trace amount of red pine in the stand. BA on low end.
Canopy Species	% Cover	Size Class	DBH	Age			
Quaking Aspen	10	Pole	9				
Black Spruce	50	Pole	8	73			
Tamarack	10	Pole	7				
White Pine	5	Log/Pole	12				
Red Pine	10	Log/XLog/Pole	12				
Jack Pine	10	Pole/Sapling	7				
Paper Birch	5	Pole	7				

41	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	72.2	93	51-80	N/A	
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42	6122 - Black Spruce	Poletimber Well	18.8	65	81-110	N/A	Tamarack is dead from Eastern Larch Beetle. Spruce is healthy and ranges 1-4 sticks. Some areas more open with smaller trees. Basal area is between 40-90.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	5	Pole/Sapling	6		Tag Alder	Medium	Variable	Tall Shrub
Tamarack	2	Pole	8		Leatherleaf	Medium	Variable	Tall Shrub
Black Spruce	93	Pole	7	65	Bog Birch	Medium	Variable	Tall Shrub

(2012) Stand looks healthy - old winter road through it - sure it was cut in the past and is regenerating to what it is now. slightly higher elevation than surrounding marsh is allowing for trees to grow.

43	6224 - Treed Bog	Nonstocked	110.4		Unspecified	No	Typical looking open treed bog - east edge is followed by an old winter/summer road and a fence line - tried to farm and ditch?
Sub-Canopy Species	Density	Avg. Height	Size				
Leatherleaf	High		Tall Shrub				
Sedges	Low		Non-Wood				
Canada Blueberry	Low		Tall Shrub				
Cattail spp.	High		Non-Wood				
Tag Alder	High		Tall Shrub				
Tamarack	Low		Tall Shrub				
Black Spruce	Low		Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44 42290 - Natural Mixed Pine Poletimber Well 95.4 93 81-110 N/A Red pine is of varying dbh like the other species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log/Pole/Sap	10		Paper Birch	Low	Variable	Sapling
Jack Pine	20	Pole	6		Black Spruce	Low	Variable	Sapling
Red Maple	5	Pole	7		Jack Pine	Medium	Variable	Sapling
Paper Birch	5	Pole/Sapling	6		Red Pine	Low	Variable	Sapling
Black Spruce	5	Pole/Sapling	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	5	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Red Pine	45	Log/Pole	12	93	Red Oak	Low	Variable	Sapling
					White Pine	Low	Variable	Sapling

45 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 8.3 93 51-80 N/A (2012) Old stand was birch type with cedar understory.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	15	Pole/Sapling	6	
Paper Birch	50	Pole/Sapling	7	93
Balsam Poplar	10	Pole/Sapling	7	
Black Spruce	10	Pole/Sapling	7	
Red Maple	15	Pole/Sapling	7	

46 6122 - Black Spruce Poletimber Well 2.2 73 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole	12	
Red Pine	10	Log/XLog/Pole	12	
Jack Pine	10	Pole/Sapling	7	
Quaking Aspen	5	Pole/Sapling	7	
Tamarack	10	Pole	7	
Paper Birch	10	Pole/Sapling	7	
Black Spruce	50	Pole/Sapling	7	73

47 6120 - Lowland Cedar Poletimber Well 12.9 92 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	6		Tag Alder	Low	Variable	Tall Shrub
Northern White Cedar	65	Pole/Sapling	7	92				
Balsam Fir	5	Pole/Sapling	6					
Red Maple	5	Pole	7					
Paper Birch	15	Pole	7	72				

Stand has converted from low mix to a C4. Most of the other species have died out of the stand. Cedar is 1-2 sticks. Spruce is 3-4 sticks.
(2012) Some areas of the stand can be fairly open - there is good cedar regen coming in. What bam and fir is there is dead or dying. There are trace yb and lg white pine on some of the higher knobs.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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48 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 17.5 73 1-50 N/A There is a strip from the center that has more merchantable stems of tam, spruce. Tamarack has started to die out and other species have not improved since last inventory.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Black Spruce					35	Pole/Sapling	6		Tag Alder			Medium	Variable	Tall Shrub
Balsam Poplar					20	Pole	7		Leatherleaf			Medium	Variable	Tall Shrub
Tamarack					45	Pole	7	73	Bog Birch			Medium	Variable	Tall Shrub

(2012) Similar to stand to the north but a bit smaller dbh and lower canopy closure - sure this area was all cut at the same time and the water table is what is not allowing for the same amount of growth.

49 6122 - Black Spruce Sapling Well 30.0 65 1-50 N/A Some of the spruce has a stick of merchantable wood.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Black Spruce					90	Sapling/Pole	4	65	Black Spruce			Low	Variable	Sapling
Tamarack					5	Sapling/Pole	4		Tamarack			Low	Variable	Sapling
Balsam Poplar					5	Sapling/Pole	4		Tag Alder			Low	Variable	Tall Shrub
									Leatherleaf			Low	Variable	Tall Shrub
									Bog Birch			Low	Variable	Tall Shrub

50 4199 - Other Mixed Upland Deciduous Poletimber Well 16.5 93 51-80 N/A

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Black Spruce					5	Pole/Sapling	7		Labrador Tea			Low	< 5 feet	Tall Shrub
Northern White Cedar					5	Pole/Sapling	7		Tag Alder			Low	10 - 20 feet	Tall Shrub
White Pine					5	Pole/Log	10							
Red Maple					30	Pole	8							
Paper Birch					55	Pole	8	93						

51 6122 - Black Spruce Poletimber Well 2.1 73 51-80 N/A

Canopy Species					% Cover	Size Class	DBH	Age					
Black Spruce					50	Pole/Sapling	7	73					
Tamarack					10	Pole	7						
White Pine					5	Log/Pole	12						
Jack Pine					10	Pole/Sapling	7						
Red Pine					10	Log/XLog/Pole	12						
Paper Birch					10	Pole/Sapling	7						
Quaking Aspen					5	Pole/Sapling	7						

52 6224 - Treed Bog Nonstocked 236.1 No

Sub-Canopy Species			Density	Avg. Height	Size
Tag Alder			Low		Tall Shrub
Tamarack			High		Sapling
Black Spruce			Medium		Sapling
Bog Birch			Low		Tall Shrub
Northern White Cedar			Low		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
53	42210 - Natural Red Pine	Sawtimber Well	10.3	83	51-80	N/A																																																																
54	6224 - Treed Bog	Nonstocked	17.3			No																																																																
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55	6120 - Lowland Cedar	Poletimber Well	45.2	75	1-50	N/A	Similar to stand 56 but cedar is shorter. Old winter road that goes through stand is all tamarack.																																																															
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56	6120 - Lowland Cedar	Poletimber Well	27.1	92	51-80	N/A	Fir is dying out, tamarack is dead. Some areas of only cedar 1-2 sticks tall and some cedar regeneration coming into the stand. BA ranges from 20-90, all species but cedar are maxed out for age and health.																																																															
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57	6122 - Black Spruce	Poletimber Well	27.2	89	51-80	N/A	Stand development has not improved from 10 years ago. It would be good to harvest now to help promote and continue the species diversity that is currently in the stand.																																																															
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58	122 - Road/Parking Lot	Nonstocked	22.8			No																																																																
59	42210 - Natural Red Pine	Poletimber Well	3.0	83	51-80	N/A	(2012) Natural red pine stand with higher elevations than the lowlands surrounding them - stand contains mainly red pine with scattered bs, wp, cedar, tag alder and blue berry.																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60	6124 - Lowland Spruce-Fir	Poletimber Medium	175.1	73	1-50	N/A	There are 2 age classes the older trees have the Beetle damage and lots of mortality, younger trees 6-8 dbh seem healthy. 2014- More trees present that what it looked like on the photos, trace 1 stick cedar. harvest for health reasons. no deer.(2012) These three stands are of the same spp but because of different water table it is regenerating at different rates. This stand is probably not going to ever be merchantable.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar	10	Pole	6			Leatherleaf		Medium	Variable	Tall Shrub	
Black Spruce	45	Pole	7	73		Bog Birch		Medium	Variable	Tall Shrub	
Balsam Fir	5	Sapling	4			Tag Alder		High	Variable	Tall Shrub	
Jack Pine	5	Pole	8								
White Pine	5	Log/Pole	10								
Tamarack	30	Pole/Sapling	7	73							

61	6124 - Lowland Spruce-Fir	Poletimber Medium	38.7	83	1-50	N/A	Tamarack has died out of the stand. Very wet ground keeping that stand from becoming fully stocked. Spruce is mainly along the edges and dying.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce	40	Pole	8	83		Black Spruce		Low	Variable	Sapling	
Northern White Cedar	33	Pole	8			Tag Alder		High	Variable	Tall Shrub	
Balsam Fir	10	Pole	6			Labrador Tea		Medium	Variable	Tall Shrub	
Tamarack	5	Pole	9	83		Balsam Fir		Low	Variable	Sapling	
White Pine	2	Pole/Log	10								
Red Maple	10	Pole/Sap/Log	9								

62	6122 - Black Spruce	Poletimber Well	399.4	93	81-110	N/A	The stand is variable with very thick areas to less overstory and more open grown trees. It would be good to harvest this stand, access is extremely difficult with a bridge and multiple drains to the east and a very steep slope to the north. (2012) Got into the N part of the stand so far- this area was near the start of the creek - wet with many 1 -2' wide feeder creeks of course this timber is smaller and more stunted b/c of the higher water table - cedar is found in the open areas where the sun gets to it -try and field check south thru PVT- there are a couple areas of slightly higher ground where the paper birch is over the cedar. Spruce is about 1 stick taller than the cedar WB 4-3 sticks 7-3 dbh BS 3-6 sticks 6-9 dbh C 2-3 sticks 3-10 dbh				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch	5	Log/Pole	10			Tag Alder		Low	5 - 10 feet	Tall Shrub	
Black Spruce	70	Pole/Sapling	7	93		Labrador Tea		Low	Variable	Tall Shrub	
Red Pine	5	Pole/Log	12								
Northern White Cedar	5	Log/Pole	10								
Tamarack	3	Log	10								
Balsam Fir	5	Pole/Sapling	6								
Red Maple	5	Pole/Sap/Log	9								
White Pine	2	Log	14								

63	6116 - Lowland Birch	Poletimber Well	28.6	93	1-50	N/A	Fair to poor quality- high water table, do not think this stand will ever become fully stocked.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce	15	Pole/Sapling	7			Bog Birch		Low	5 - 10 feet	Tall Shrub	
Northern White Cedar	15	Pole/Sapling	7			Labrador Tea		Medium	< 5 feet	Tall Shrub	
Red Maple	10	Pole	8			Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Paper Birch	60	Pole	8	93							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64 429 - Mixed Upland Conifers Sawtimber Well 9.7 131 51-80 N/A Blow down areas in the stand. BA has been reduced from 10 years ago. Tamarack has died out from the stand. Basal area averages around 65 sq.ft.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	8		Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5		White Pine	Low	Variable	Pole
Black Spruce	25	Pole/Sapling	7	78	Red Maple	Low	Variable	Sapling
Northern White Cedar	10	Pole	7					
White Pine	42	XLog/Log	18	131				
Red Pine	3	Log/Pole	12					
Red Maple	5	Pole	8					

65 6120 - Lowland Cedar Poletimber Poor 35.2 93 1-50 N/A (2012) low ground with poor hardwoods and some cedar other conifers coming in. Because of being so close to river stand will probably not ever be fully stocked.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole/Sapling	7		Leatherleaf	Low	< 5 feet	Tall Shrub
Northern White Cedar	50	Pole/Sapling	7	93	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	15	Pole/Sapling	7		Labrador Tea	Low	< 5 feet	Tall Shrub
Red Maple	15	Pole/Sapling	7		Bog Birch	Medium	5 - 10 feet	Tall Shrub
Tamarack	10	Pole/Sapling	7					

66 6122 - Black Spruce Poletimber Well 88.5 93 51-80 N/A Basal area has decreased from 10 years ago. Tamarack and white birch are in decline from age and disease.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	70	Pole/Sapling	7	93	Tag Alder	Low	Variable	Tall Shrub
White Pine	5	Log/Pole	14		Bog Birch	Low	Variable	Tall Shrub
Tamarack	5	Pole	8					
Paper Birch	10	Pole	8					
Northern White Cedar	10	Pole/Sapling	7					

67 42210 - Natural Red Pine Sawtimber Well 7.6 98 51-80 N/A Nice pine - small stand - road leads to pvt camp.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole/XLog	14		Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
Red Pine	60	Log/Pole/XLog	14	98				
Paper Birch	5	Pole	9					
Tamarack	10	Pole	8					
Red Maple	5	Pole	9					
Black Spruce	10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68 6224 - Treed Bog Nonstocked 14.4 No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low		Tall Shrub
Tamarack	Low		Sapling
White Pine	Trace		Pole
Red Pine	Trace		Pole
Labrador Tea	Trace		Tall Shrub
Northern White Cedar	Low		Sapling

69 6122 - Black Spruce Poletimber Medium 7.6 93 1-50 N/A 2014- Small knob with mixed conifer - fair quality.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole/XLog	14	
Paper Birch	5	Pole	8	
Red Maple	5	Pole	8	
Northern White Cedar	5	Pole/Sapling	7	
Tamarack	10	Pole	7	
Black Spruce	70	Pole/Sapling	7	93

Sub-Canopy Species	Density	Avg. Height	Size
Bog Birch	Low	5 - 10 feet	Tall Shrub
Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	Low	Variable	Sapling

70 6122 - Black Spruce Poletimber Well 15.1 83 51-80 N/A There is a 3 acre high ground area where the pine is located. The other area of the stand is wet and has dead or dying tamarack and spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	80	Pole	7	83
White Pine	10	Log/Pole	14	
Red Pine	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub

71 6224 - Treed Bog Nonstocked 204.6 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low		Sapling
Northern White Cedar	Low		Sapling
Tag Alder	Low		Tall Shrub
Jack Pine	Low		Pole
White Pine	Low		Pole
Tamarack	Low		Sapling
Red Pine	Low		Pole

72 42200 - Natural White Pine Sawtimber Well 11.6 105 1-50 N/A Wet to get there - not the typical nice pine island. Some blow down and poor quality wood. Understory coming in alright. Access from the south, through private.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	5	Pole	8	
White Pine	70	Log/Pole	14	105
Balsam Fir	10	Pole/Sapling	7	
Black Spruce	10	Pole/Sapling	7	
Quaking Aspen	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 6229 - Mixed lowland shrub Nonstocked 7.2 Unspecified No Flood area for river, part of the HCVA for Natural Rivers.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full		Tall Shrub

74 6229 - Mixed lowland shrub Nonstocked 2.1 Unspecified No Flood area, half the stand is HCVA in the Natural River Area.

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low		Sapling
Tag Alder	Medium		Tall Shrub
Tamarack	Low		Sapling

75 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 12.9 105 1-50 N/A Not sure b/c of the snow but some small feeder creeks in stand - more than likely flood out in the spring. East side of stand is HCVA for Natural Rivers.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	40	Pole	7	
Northern White Cedar	40	Pole/Sapling	8	105
Red Maple	10	Pole	8	
Paper Birch	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Bog Birch	Low	5 - 10 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub
Black Spruce	Low	Variable	Sapling

76 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 14.3 93 51-80 N/A 2022- Harvest did not occur due to small acreage and slope to the river.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log/Pole	12	
Tamarack	5	Pole	8	
Black Spruce	45	Pole	8	93
Paper Birch	10	Pole	8	
Northern White Cedar	10	Pole/Sapling	7	

(2012) Cut with compartment 100 to the south. PVT lines will need to be established. Hill that leads down to the river small hardwood area at the NE edge.