



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41191

Entry Year 2021

Acreage: 1,580

County Alger

Management Area: Seney Lake Plain

Stand Examiner: Mario Molin

Legal Description:

T46N R17W Sections 21-23, 26 & 27

Identified Planning Goals:

Timber and wildlife management opportunities are the primary focus on state lands in this compartment.

Soil and topography:

Flat to rolling terrain generally featuring sandy to fine sandy loam soils on the uplands & ridges, and heavier muck soils in the bottomlands. Drainage is slow on the lowland sites.

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

The area features large blocks of contiguous state ownership, with only one 80-acre parcel of private land adjacent to this compartment.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

This compartment lies within the Petrel Deeryard.

Watershed and Fisheries Considerations:

This compartment contains Metser Creek, Star Creek and Prairie Creek. Metser Creek, Star Creek, and Prairie Creek are all designated Type 1 trout streams less than 50' width. 300' buffers are recommended for Metser Creek, Star Creek, and Prairie Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies on the north side of M-28 about 2 miles east of Shingleton. It is located in the core of the Petrel Deer Yard. This deer yard has been managed to meet the needs of wintering deer populations for over 30 years. Prairie Creek is the western boundary, while Star Creek flows along most of the eastern boundary. Lowland conifer is the dominant cover type between these streams, although some areas of mixed lowland forest, aspen, and northern hardwoods are also present. Wildlife goals include continuing to provide browse and wintering cover for deer, sustaining the winter yarding habitat for the future by promoting conditions where cedar can grow without being over-browsed, protecting stream and riparian corridors, and maintain and enhance diversity in northern hardwoods. Timber harvests will take place during the winter to provide a natural food source for wintering deer. Streams will be buffered to protect these corridors. Species benefitting from this management include deer, black bear, beaver, kingfisher, ruffed grouse, and snowshoe hare.

Mineral Resource and Development Concerns and/or Restrictions

Sections 21-23 & 26-27, T46N-R17W, Alger County

A state-owned sand/gravel pit exists in Section 23 (Star Siding Road #3), and there may be potential for both sand & gravel and limestone/dolostone within the compartment. But, much of the compartment is covered by wetlands, which could inhibit surface development. There is no known metallic mineral potential in this area no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

This compartment is accessed from the Metser Grade via Star Siding Road. Much of the compartment has no usable roads at this time.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

There are no developed recreational facilities in this compartment.

Fire Protection:

Access across low, wet terrain is extremely difficult in most of this compartment

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

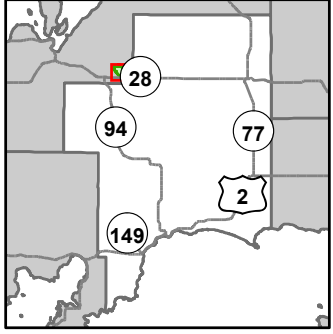
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

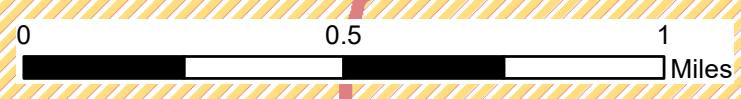
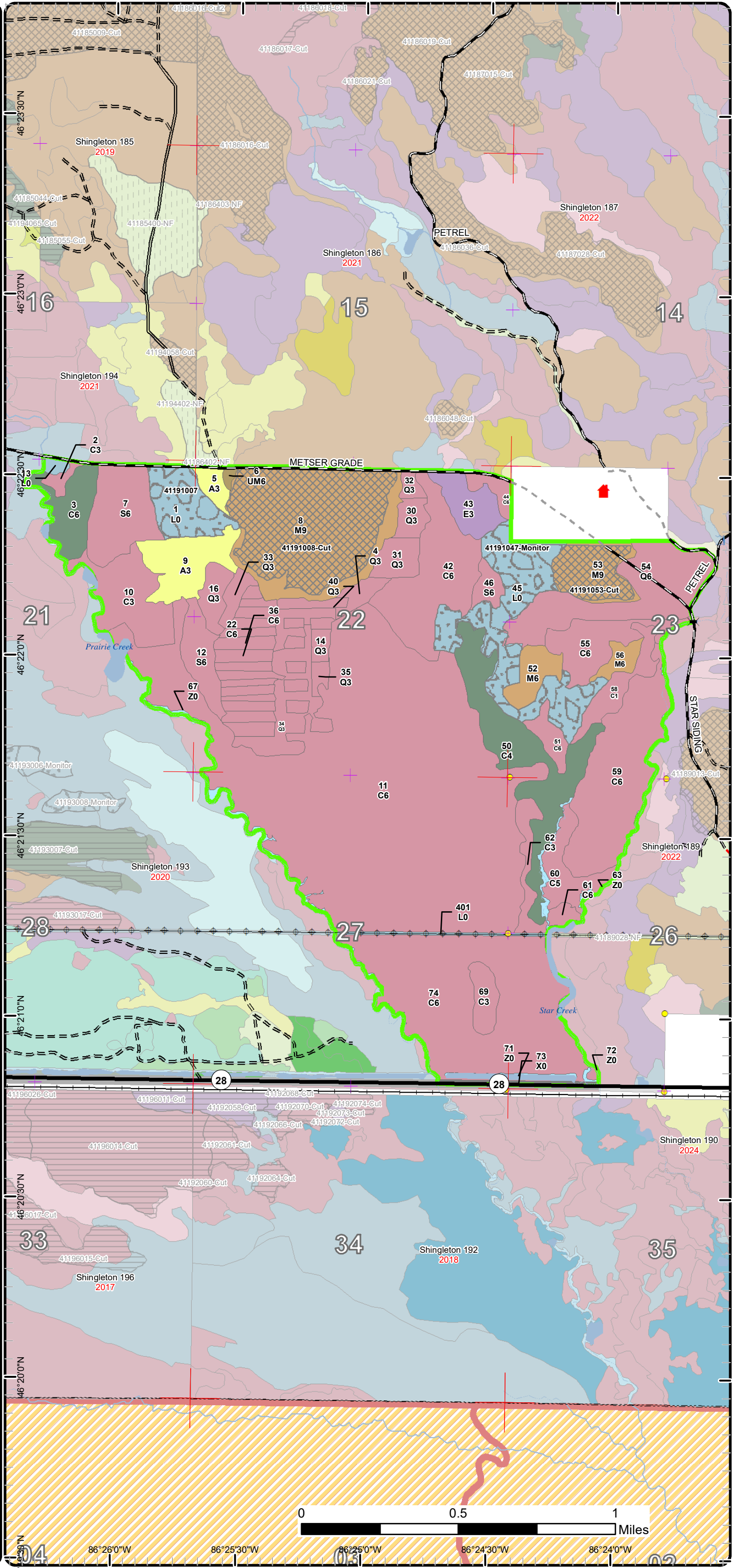
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 191
 T46N,R17W, Sec: 21-23, 26, 27
 County: Alger
 Unit: Shingleton
 Mgmt Area: Seney Lake Plain
 YOE: 2021
 Acres: 1579.6 GIS Calculated
 Examiner: Mario Molin
 Map Revised: 9/20/2023
 Map Phase: Post Review



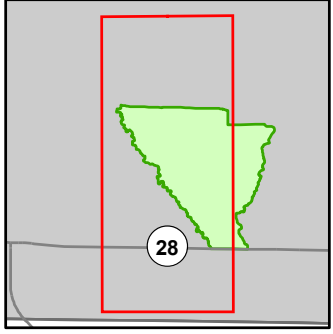
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- Bridges
- Culvert
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub



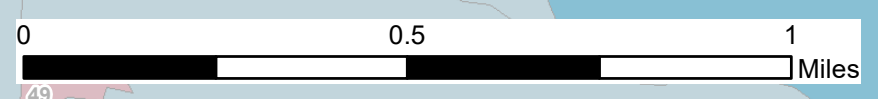
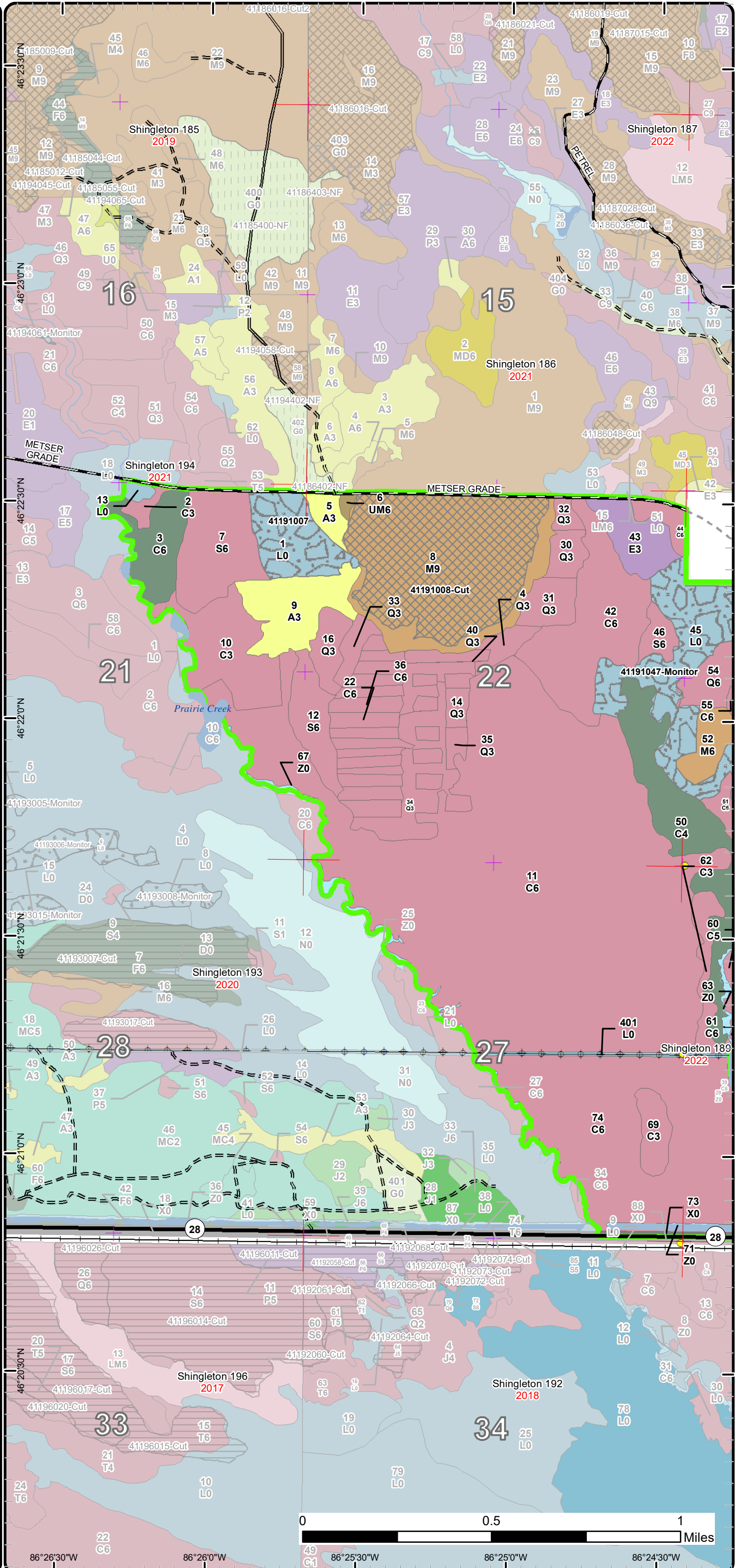
46°23'30"N 46°23'00"N 46°22'30"N 46°22'00"N 46°21'30"N 46°21'00"N 46°20'30"N 46°20'00"N
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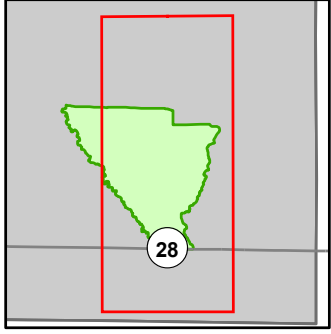
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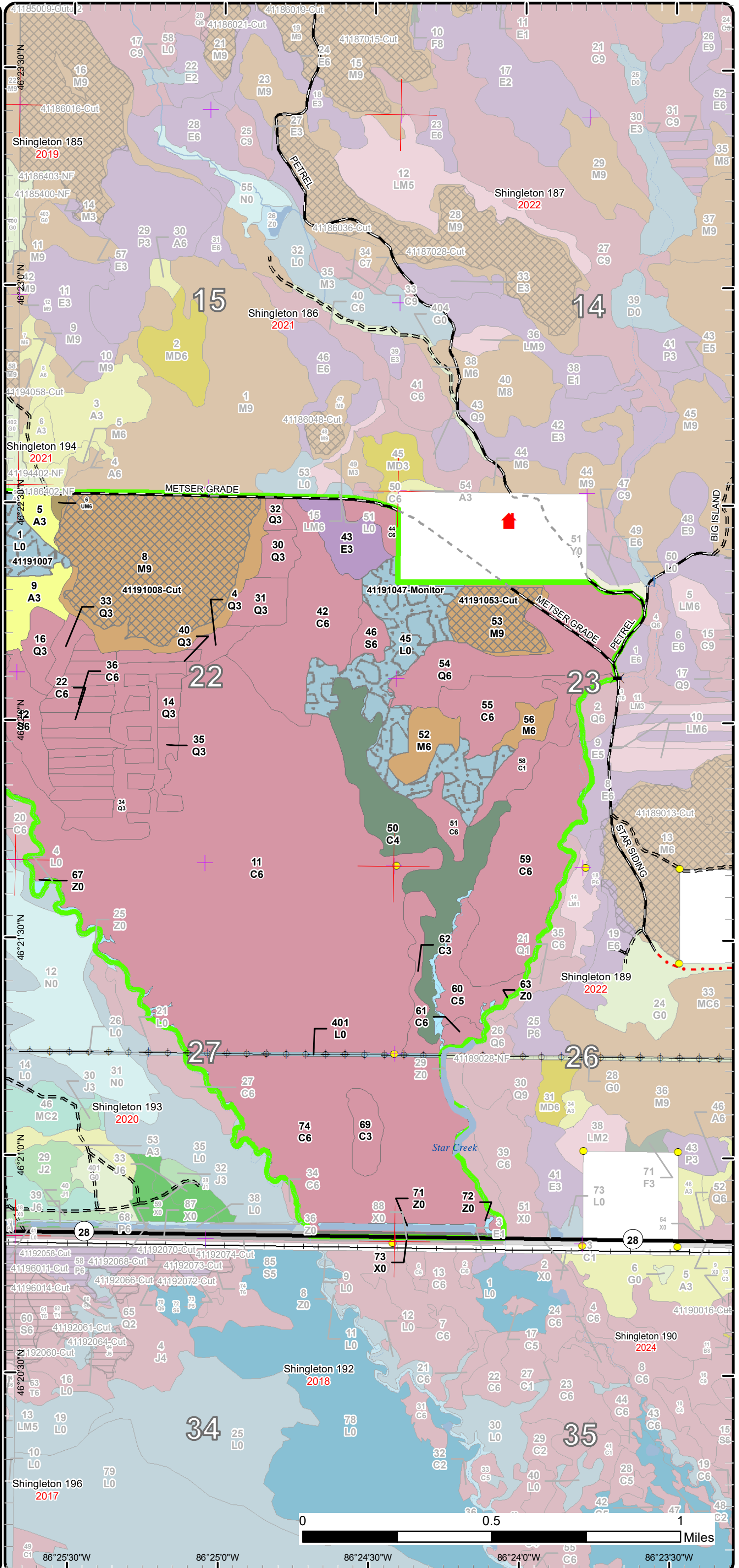
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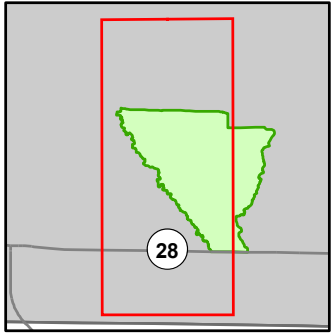
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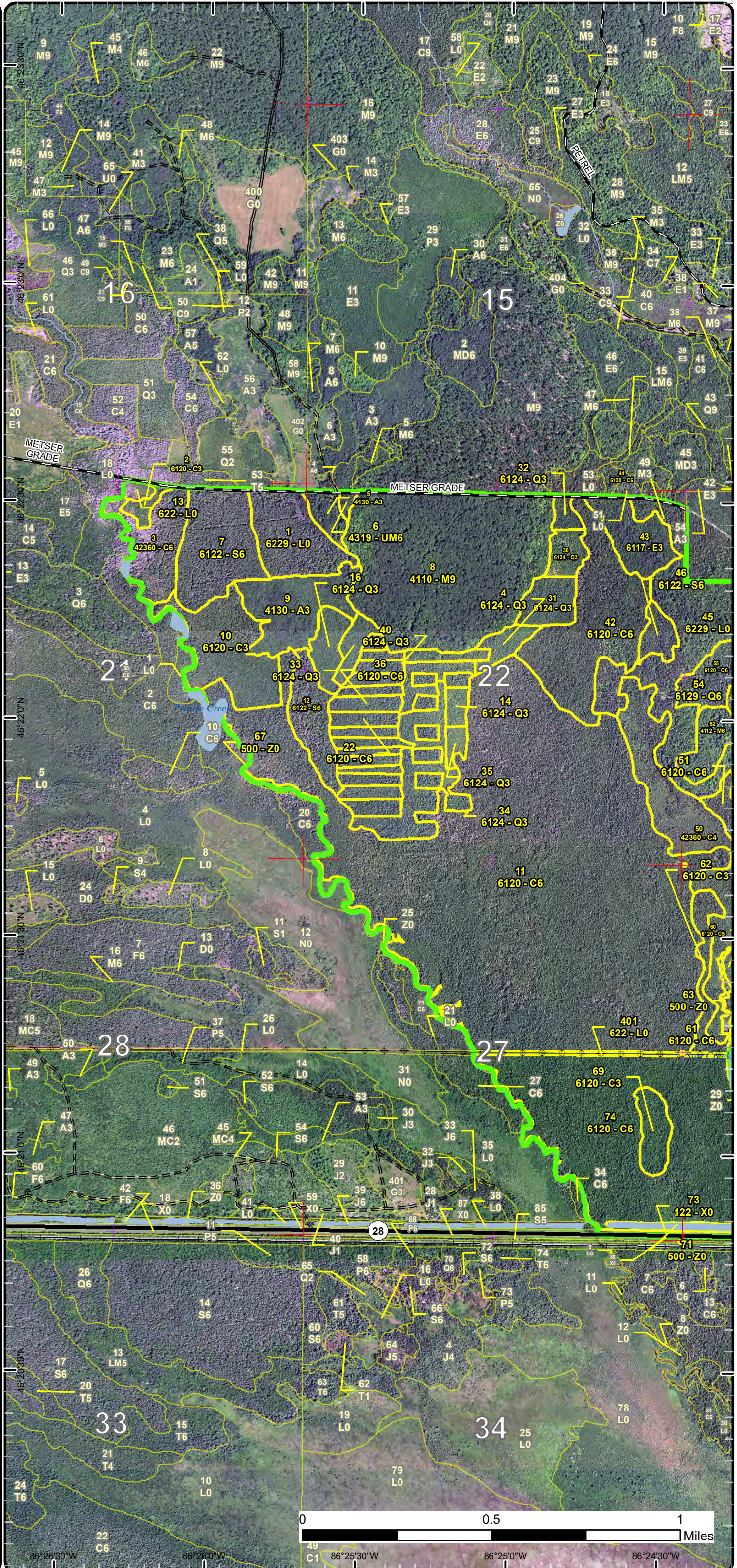
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Stand Boundary Map

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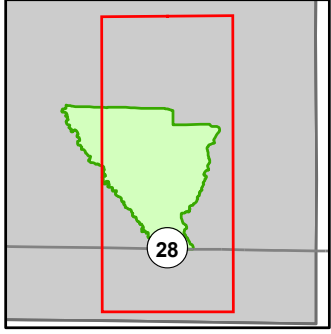


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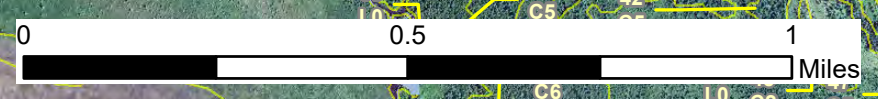
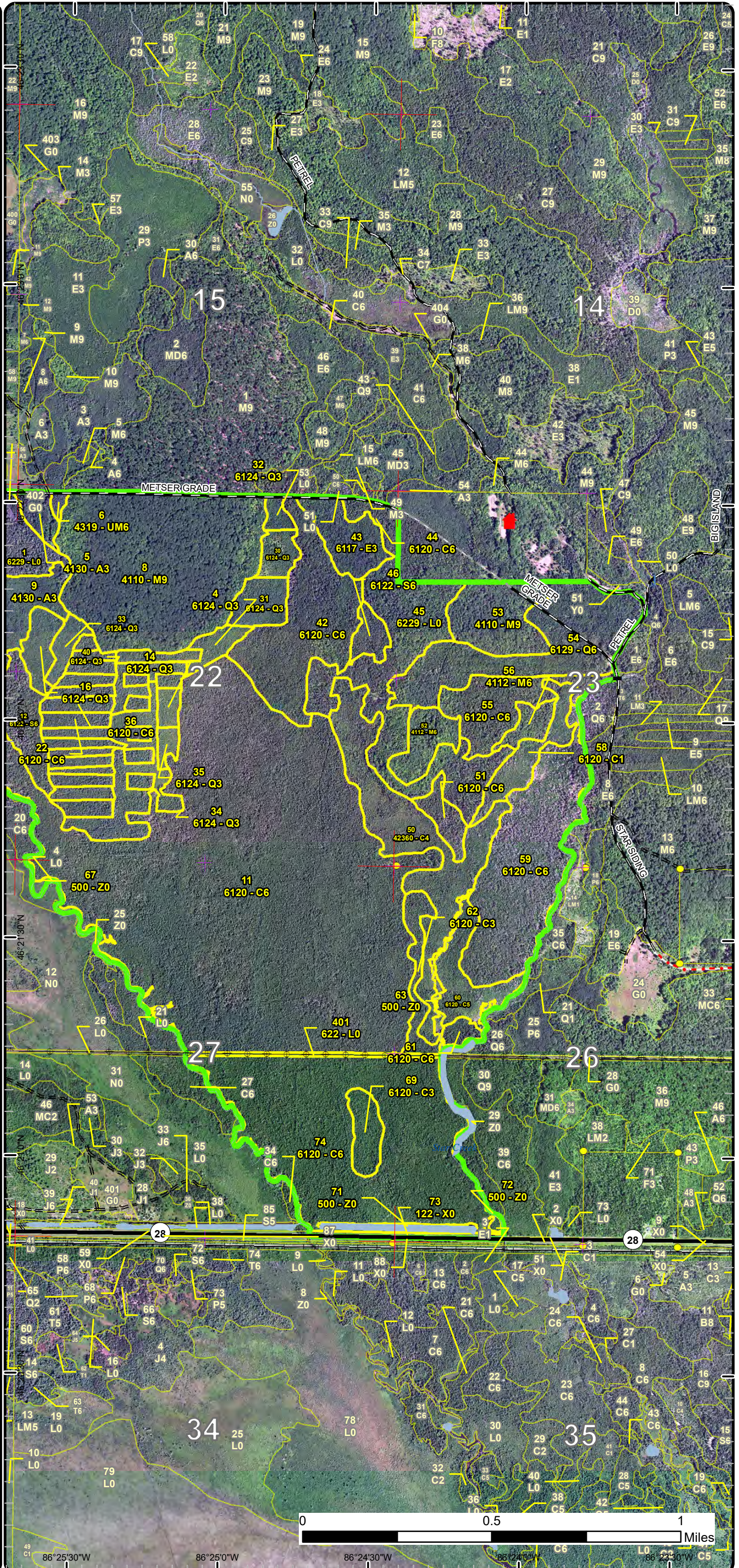


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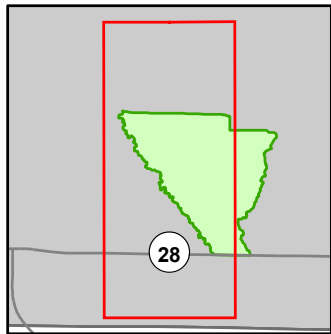
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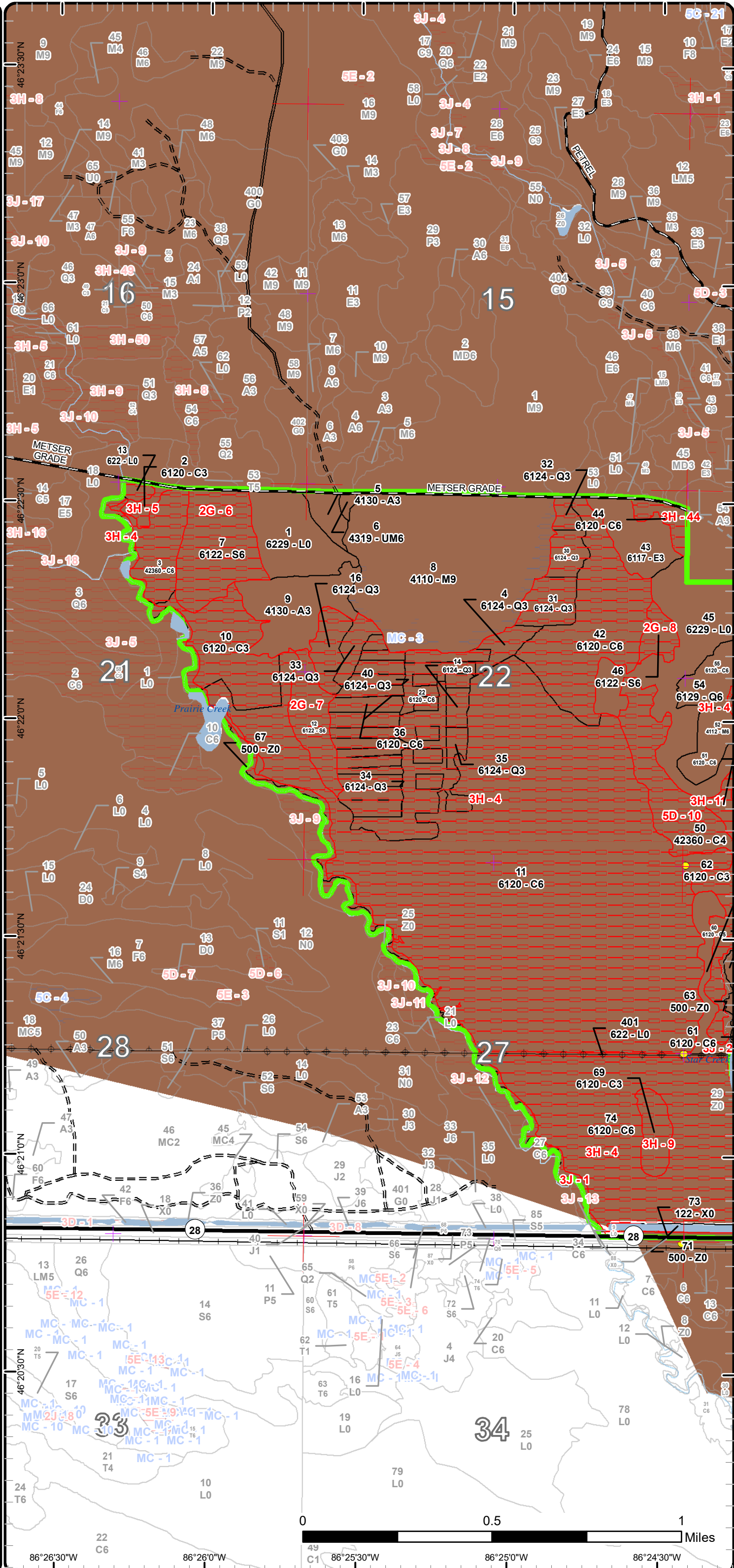
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Special Conservation Areas

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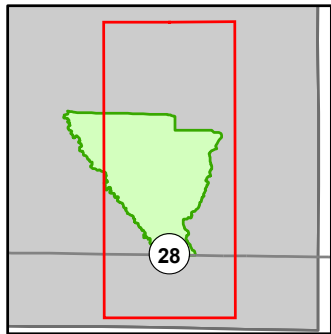


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- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range

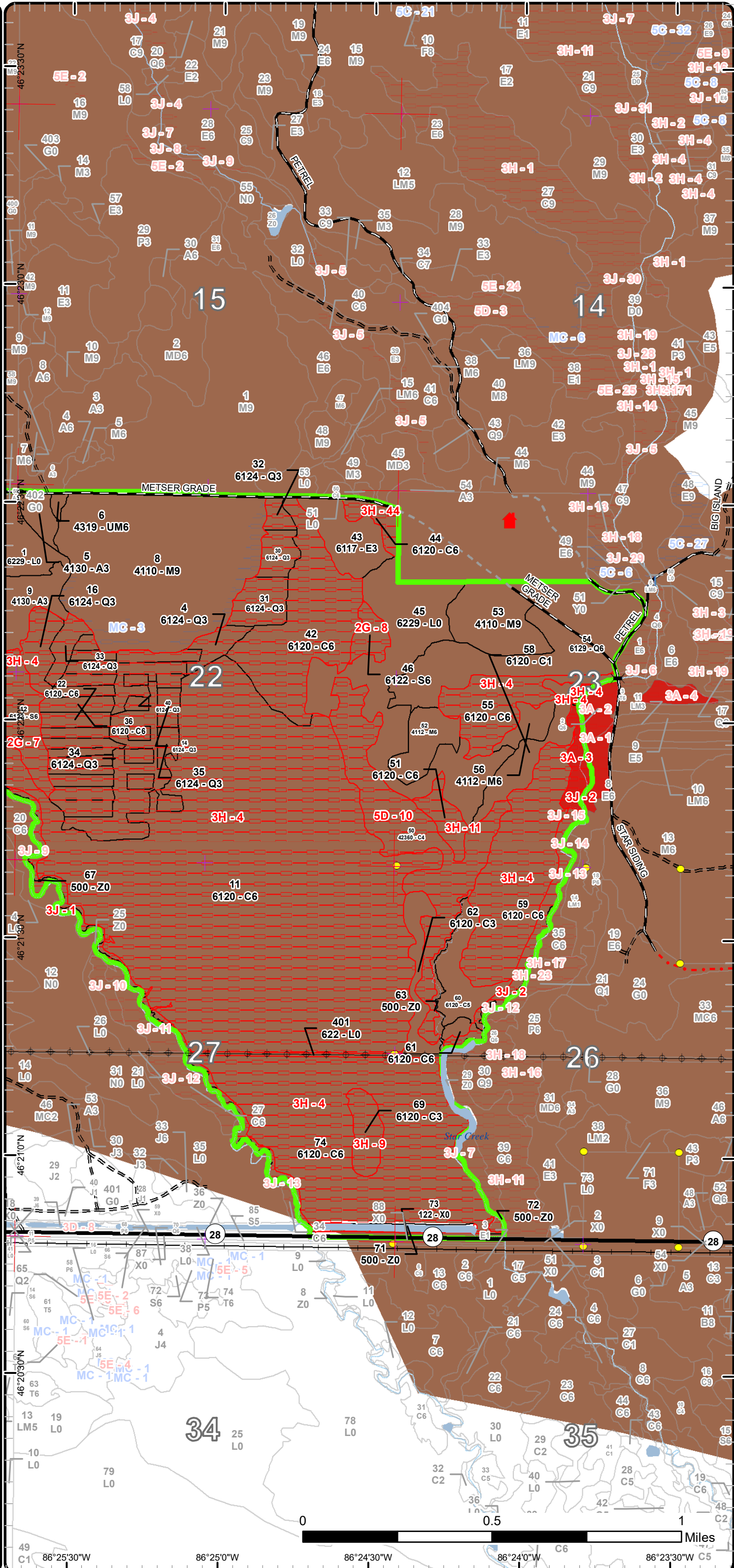


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- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range



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+	Unnever-Aged	Total
Aspen	0	7	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Cedar	0	0	0	0	0	82	0	0	0	0	63	0	0	596	61	150	65	0	1016
Lowland Conifers	0	0	0	37	106	0	0	0	0	0	0	0	0	0	0	0	0	0	143
Lowland Deciduous	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Shrub	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	54	7	0	0	0	0	0	0	61
Northern Hardwood	0	0	0	0	0	13	0	7	0	0	0	0	0	0	0	0	0	151	171
Upland Mixed Forest	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Total	136	7	0	66	126	95	0	7	0	0	117	7	0	596	61	150	65	151	1581



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 191

Total Compartment Acres: 1,580

Commercial Harvest - 127
 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
Northern Hardwood		0	127	0	0	0	0	0	0	0	127
	Total	0	127	0	0	0	0	0	0	0	127

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		127	0	0	0	0	0	97	0	0	223
Next Step		0	0	0	0	0	0	127	0	0	127
	Total	127	0	0	0	0	0	223	0	0	350



Stand Name	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:

1	41191007	27.4	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6139 - Mixed Lowland Forest	Even-Aged	No
<p><u>Prescription</u> regen check <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any species <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2028</p>											
8	41191008-Cut	103.2	4110 - Sugar Maple Association	Sawtimber Well	99	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark to 80BA. Focus on regen release where regen is thick, and in areas with little regen create larger openings. Winter cut. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
45	41191047-Monitor	69.1	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Monitor <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any mix of tree species <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2028</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
53 41191053-Cut	23.4	4110 - Sugar Maple Association	Sawtimber Well	97	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark to 80BA with focus on creating regen gaps and releasing existing regeneration.</p> <p><u>Specs:</u> Winter cut, Oct 1st start.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of hardwoods</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: 223.1

Report 4 – Site Conditions

Shingleton Mgt. Unit
Mario Molin : Examiner

Compartment: 191
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions							
		With Condition				MC	2G	3A	3H	3J	5D		
36	36	0		0	Aspen								
1015	46	0		969	Cedar			8	869	31	61		
143	59	0		84	Lowland Conifers				84				
18	18	0		0	Lowland Deciduous								
104	102	0		2	Lowland Shrub					2			
60	0	0		60	Lowland Spruce/Fir		60						
171	153	19		0	Northern Hardwood	19							
1	1	0		0	Upland Mixed Forest								
5	4	0		0	Urban					0			
26	9	0		17	Water			0	2	15			
1,580	429	19		1,132	Total Forested Acres	19	60	8	954	49	61		
	27%	1%		72%	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	3J: Water quality / BMPs (stream, river, or lake)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Rich conifer swamp ERA							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 191

Mario Molin : Examiner

Year of Entry: 2021

4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	925	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was part of "metser mix" sale. This portion of the parent stand was returned because it was too wet to cut.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 191

Year of Entry: 2021

9	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5D: Unproductive Forest Land	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
1	6229 - Mixed lowland shrub	Nonstocked	27.4	0	Unspecified	612 - Lowland Coniferous Forest	10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 3 & 4, acres 57. Residual BA 48' of cedar 12/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix. TCR: 9/24/18																									
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2	6120 - Lowland Cedar	Sapling Well	3.6	41	1-50	N/A	OPIC - FMD: SCA - Deeryard Stocked with cedar, spruce, balsam fir and paper birch regen, but the site indices appear to be very low. This site is extremely wet due to slow drainage, probably as a result of it's proximity to flooded areas near Prairie Creek.																									
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3	42360 - Upland Cedar	Poletimber Well	22.5	98	141-170	N/A	OPIC - FMD: SCA - Deeryard Slow-growing cedar on a very wet site. The understory is a mix of cedar & black spruce 1-4" DBH.																									
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5	4130 - Aspen	Sapling Well	6.6	5	Immature	N/A	OPIC - FMD: SCA - Deeryard 10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 4, acres 7. 12/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix. TCR: 9/24/18																									
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6	4319 - Mixed Upland Forest	Poletimber Well	1.5	38	51-80	N/A																										
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7	6122 - Black Spruce	Poletimber Well	35.7	91	111-140	N/A	2019: This portion of stand was not cut, stand 1 to the east was part of the parent stand. Area was too wet to cut and returned. 10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 3 & 4, acres 57. Residual BA 48' of cedar 12/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix. TCR: 9/24/18																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	4110 - Sugar Maple Association	Sawtimber Well	123.8	99	81-110	N/A	OPIC - FMD: SCA - Deeryard Last select cut in 1997.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		85	Log/Pole/Sap	14	99	Sugar Maple	Medium	Variable	Sapling
Red Maple		15	Log/Pole/Sap	14		Red Maple	Medium	Variable	Sapling
9	4130 - Aspen	Sapling Well	29.1	27	Immature	N/A	OPIC - FMD: SCA - Deeryard Aspen/paper birch regen over a mix of balsam fir, spruce, tamarack, cedar and lowland brush.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		8	Sapling	3		Tamarack	Low	5 - 10 feet	Sapling
Quaking Aspen		90	Sapling	3	27	Balsam Fir	Low	5 - 10 feet	Sapling
Black Cherry		2	Sapling	3					
10	6120 - Lowland Cedar	Sapling Well	35.2	41	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		5	Pole	6		Northern White Cedar	Low	Variable	Sapling
Tamarack		10	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		85	Sapling	3	41				
11	6120 - Lowland Cedar	Poletimber Well	445.6	128	111-140	N/A	OPIC - FMD: SCA - Deeryard Large expanse of slow-growing cedar - manage per deeryard plans. An average age is given here, as many areas have been partially cut. Size class/density/site indices vary with slight changes in elevation. Trees dating back into the 1850's are present. Mixed volume includes various hardwoods and aspen. Scattered white pine, hemlock, red maple, ash & birches are all present in some spots. The understory is extremely variable, but is generally some mix of conifers and lowland brush.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		3	Pole	8		Northern White Cedar	Medium	Variable	Sapling
Black Spruce		2	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		95	Pole	8	128	Tamarack	Low	Variable	Sapling
						Black Spruce	Low	Variable	Sapling
12	6122 - Black Spruce	Poletimber Well	17.8	91	51-80	N/A	2019: Stand was uncut. 10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 5, acres 10. Residual BA 65' of cedar 12/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix. TCR: 9/24/18		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Pole	6		Balsam Fir	Low	Variable	Sapling
Tamarack		5	Pole	6		Black Spruce	Low	Variable	Sapling
Balsam Fir		10	Pole	6					
Black Spruce		75	Pole	6	91				
13	622 - Lowland Shrub	Nonstocked	2.3	0	Unspecified	No	2019- flooded area, very few live cedar trees. A few spots of tag alder and cedar saplings.		
14	6124 - Lowland Spruce-Fir	Sapling Well	3.9	29	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		20	Sapling	2		Northern White Cedar	Medium	Variable	Sapling
Black Spruce		25	Sapling	4		Tamarack	Medium	Variable	Sapling
Tamarack		25	Sapling	4		Black Spruce	Low	Variable	Sapling
Balsam Fir		30	Sapling	4	29	Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
16	6124 - Lowland Spruce-Fir	Sapling Well	10.0	22	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		15	Sapling	2		Northern White Cedar	Medium	Variable	Sapling
Black Spruce		25	Sapling	3		Balsam Fir	Medium	Variable	Sapling
Balsam Fir		35	Sapling	3	22	Black Spruce	Low	Variable	Sapling
Tamarack		25	Sapling	3		Tamarack	Medium	Variable	Sapling
22	6120 - Lowland Cedar	Poletimber Well	39.6	98	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		2	Pole	8		Northern White Cedar	Medium	Variable	Sapling
Balsam Fir		8	Pole	8		Tamarack	Medium	Variable	Sapling
Tamarack		30	Pole	8		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		60	Pole	8	98	Black Spruce	Low	Variable	Sapling
30	6124 - Lowland Spruce-Fir	Sapling Well	7.2	28	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		25	Sapling	4		Black Spruce	Low	Variable	Sapling
Black Spruce		25	Sapling	4		Tamarack	Medium	Variable	Sapling
Northern White Cedar		20	Sapling	2		Balsam Fir	Medium	Variable	Sapling
Balsam Fir		30	Sapling	4	28	Northern White Cedar	Medium	Variable	Sapling
31	6124 - Lowland Spruce-Fir	Sapling Well	10.9	31	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		25	Sapling	4		Balsam Fir	Medium	Variable	Sapling
Black Spruce		25	Sapling	4		Northern White Cedar	Medium	Variable	Sapling
Balsam Fir		30	Sapling	4	31	Black Spruce	Low	Variable	Sapling
Northern White Cedar		20	Sapling	2	31	Tamarack	Medium	Variable	Sapling
32	6124 - Lowland Spruce-Fir	Sapling Well	3.5	36	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		25	Sapling	4		Balsam Fir	Medium	Variable	Sapling
Black Spruce		25	Sapling	4		Northern White Cedar	Medium	Variable	Sapling
Northern White Cedar		20	Sapling	2		Black Spruce	Low	Variable	Sapling
Balsam Fir		30	Sapling	4	36	Tamarack	Medium	Variable	Sapling
33	6124 - Lowland Spruce-Fir	Sapling Well	6.2	29	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		25	Sapling	4		Balsam Fir	Medium	Variable	Sapling
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
34	6124 - Lowland Spruce-Fir	Sapling Well	25.5	34	Immature	N/A	No records found to figure out when cut.																																									
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36	6120 - Lowland Cedar	Poletimber Well	21.4	44	1-50	N/A	2019: Stand is made up of many small cuts over many years for the "deer yard project". Area was all lumped together because all the individual cuts are very small, generally less than 5 acres and scattered around the whole stand with residual patches in between. If needed size and locations of individual cuts can be found in the old sale records. Wildlife also conducted a regeneration survey in 2012 for these sites.																																									
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40	6124 - Lowland Spruce-Fir	Sapling Well	7.1	30	1-50	N/A																																										
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42	6120 - Lowland Cedar	Poletimber Well	58.2	182	141-170	N/A	2019: Some birch in stand, most of it is dead. OPIC - FMD: SCA - Deeryard Manage per WLD deeryard management plans.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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43 6117 - Lowland Deciduous, Mixed Coniferous Sapling Well 18.1 36 Immature N/A OPIC - FMD: SCA - Deeryard

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Cherry	5	Sapling	3		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	5	Pole	6					
Black Ash	5	Sapling	3					
Paper Birch	25	Sapling	3					
Balsam Fir	40	Sapling	3	36				
Yellow Birch	10	Sapling	3					

44 6120 - Lowland Cedar Poletimber Well 6.8 164 81-110 N/A 2019: Paper birch is dying out of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	95	Pole	8	164	Balsam Fir	Low	Variable	Sapling
Paper Birch	5	Log	10					

45 6229 - Mixed lowland shrub Nonstocked 70.6 0 Unspecified 612 - Lowland Coniferous Forest 2019: Combined stands into one, scattered cedar and hemlock residual. 10/31/11 bb Stand is now on proposal 14-11 Metser Mix, Unit 6, acres 42. Residual BA = cedar 8', white pine 3', hemlock 27" 12/3/12 RFT Stand is now under contract 41-014-11-01 Metser Mix. TCR: 9/24/18

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	>20 feet	Log
Northern White Cedar	Low	>20 feet	Log

46 6122 - Black Spruce Poletimber Well 6.8 107 51-80 N/A OPIC - FMD: SCA - Deeryard On the ground this appears to be a stocked stand (Q3, 1" avg. DBH) but aerial photos back to 1953 show it as a non-stocked area, illustrating that site indices are extremely low. The area is very wet/inoperable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	90	Pole	6	107	Balsam Fir	Low	< 5 feet	Sapling
Balsam Fir	5	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	5	Sapling/Pole	4		Red Maple	Low	Variable	Sapling

50 42360 - Upland Cedar Poletimber Poor 61.2 131 1-50 N/A 2019: Lowland marsh or bog with super stunted cedar, some are up to 6 inches in diameter but are too short to make a merchantable stick.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	100	Sapling/Pole	4	131	Northern White Cedar	Low	< 5 feet	Sapling

51 6120 - Lowland Cedar Poletimber Well 8.4 143 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	90	Pole	8	143	Balsam Fir	Medium	Variable	Sapling
Black Spruce	5	Pole	8		Black Spruce	Low	Variable	Sapling
Paper Birch	2	Log/Pole	10					
Balsam Poplar	3	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
52	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.4	47	1-50	N/A	2019: Semi-open hardwoods on rolling terrain; quality of the timber is fairly low. Small knob on south end with larger pole sized trees.																																										
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53	4110 - Sugar Maple Association	Sawtimber Well	27.4	97	81-110	N/A	OPIC - FMD: SCA - Deeryard																																										
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54	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	59.4	36	1-50	N/A	OPIC - FMD: SCA - Deeryard Strip cut back in the 80's - some dominant trees are now reaching merchantable size. Overall the stand is a mix of fir, spruce, cedar, tamarack, paper birch, black ash, red maple and aspen. Small pockets of aspen (same age) are included in this stand.[3/13/13] WLD conducted a regen survey in this stand in October 2012 to determine if sufficient cedar regen is present. Counting stopped at 10 cedar in each size class: seedlings, saplings under 4" DBH, and trees over 5" DBH on each plot. As a result, the true average number of cedar per acre cannot be accurately determined from the survey results but general stocking levels may be adequately assessed. Results: 26 out of 51 - 1/50 acre plots had adequate cedar regeneration to be considered fully-stocked. An overall average of more than 284 cedar saplings and more than 84 cedar seedlings per acre are present. In addition, the survey revealed an average of approximately 1141 mixed conifer saplings/poles, 464 mixed hardwood saplings/poles, 359 paper birch saplings/poles and 18 mixed aspen saplings/poles per acre.																																										
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55	6120 - Lowland Cedar	Poletimber Well	26.9	143	141-170	N/A	OPIC - FMD: SCA - Deeryard Cedar generally 2-3 sticks tall plus other spp. A few large white pine and yellow birch and hemlock are also present.																																										
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56	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.8	66	51-80	N/A	2019: Southeast edge is a mix of everything in the sapling class. OPIC - Hemlock/red maple association on gently rolling terrain. The hemlock range from 8 to 20+ DBH. Mixed softwood includes scattered balsam fir, cedar and spruce; mixed hardwood includes yellow & paper birches. Many of the yellow birch are large diameter trees of little value for timber. Lowland brush is also present in the wetter areas. Due to its location in the deeryard, this stand is probably most valuable as wildlife habitat.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
58	6120 - Lowland Cedar	Sapling Poor	15.8	141	1-50	N/A	OPIC - A mix of slow-growing cedar, other conifers, paper birch and black ash on a very wet site.																												
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59	6120 - Lowland Cedar	Poletimber Well	75.9	143	51-80	N/A	2019: Mixed hardwood includes a few red maple, birches and black ash. Mixed softwood is tamarack & fir. White pine & hemlock are also present. None of which would amount to any percentage of canopy closure. In some areas lowland brush dominates the understory. Stocking levels and site indices vary significantly throughout the stand.																												
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63	500 - Water	Nonstocked	8.7		Unspecified	No	Star Creek and tributaries																												
67	500 - Water	Nonstocked	12.5		Unspecified	No	OPIC - FMD: Prairie Creek and tributaries																												
69	6120 - Lowland Cedar	Sapling Well	10.3	41	1-50	N/A	OPIC - FMD: SCA - Deeryard																												
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71	500 - Water	Nonstocked	3.6		Unspecified	No	FMD: Flooded ditch - borrow pit from construction of M-28																																					
72	500 - Water	Nonstocked	0.7		Unspecified	No	Star Creek																																					
73	122 - Road/Parking Lot	Nonstocked	4.5		Unspecified	No	OPIC - FMD: HIGHWAY M-28 RIGHT-OF-WAY. [6/20/06 km] FTP# W41-1296 - Scotch pine removal.																																					
74	6120 - Lowland Cedar	Poletimber Well	149.9	128	111-140	N/A	OPIC - FMD: SCA - DeeryardLarge expanse of cedar - manage per deeryard plans. An average age/size/density is given here, as some areas have been partially cut and size class/density/site indices vary with slight changes in elevation.Mixed commercial pulpwood includes white pine, hemlock, tamarack, spruce, fir, ash, birches and red maple.																																					
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401	622 - Lowland Shrub	Nonstocked	4.2		Unspecified	No	POWERLINE RIGHT-OF-WAY																																					