



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71024

Entry Year 2019

Acreage: 1,765

County Roscommon

Management Area: Houghton Lake Wetlands

Revision Date: 2017-07-10

Stand Examiner: Dale Ekdom

Legal Description:

T24N R04W Sections 19, 30, and 31

Identified Planning Goals:

Vegetation management in the Houghton Lake Wetlands Management Area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for the next ten years will focus on balancing the age class distribution aspen. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected issues within the next decade are the need to continue to balance aspen age class distributions, an expected increase in recreation pressure and invasive species encroachment.

Soil and topography:

Soils in the compartment include Rifle peat in the swamps and Saugatuck sand on the uplands. The compartment is primarily swamp with a upland portion in the northeast corner.

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

The compartment is a solid block of state ownership except the 80 acres of mostly upland in the northeast corner of Section 19. This private parcel is split into numerous smaller parcels with seasonal cabins. The compartment is surrounded by state land.

Unique Natural Features:

Great blue heron, Bald eagle, Blanding's turtle, Rainbow mussel, Osprey, Common moorhen, Black tern, Least bittern, Secretive locust, and Loon have been identified in the vicinity. Rich conifer swamp community recorded in the south end of the compartment and adjacent compartments.

Archeological, Historical, and Cultural Features:

Compartment records indicate that there is an old trappers cabin located "within" the compartment. No formal archeological records were found and the site was not located during this entry cycle.

Special Management Designations or Considerations:

Most of the compartment is within the Deadstream Swamp which is a Registered Natural Landmark. State land designations put this into the Special Conservation Area (SCA) category.

Watershed and Fisheries Considerations:

Cole Creek and Deer Farm Creek are both located within this compartment.

Wildlife Habitat Considerations:

The Deadstream Swamp historically served as a winter deer yard. Little evidence of deer-yarding was observed when the compartment was inventoried the last 2 entry cycles.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are not located in the area and potential appears to be limited. East Norwich Field is located just to the north. The field has produced over 5.9 million BO and 15.7 Bcf gas primarily from the Devonian Richfield Formation. It is in secondary recovery operations currently and is not expected to expand. None of the state land in the compartment is currently leased but has been leased in the recent past. Oil and gas potential is considered moderate. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Robinson Lake Road is the primary access route to this area.. There are no state forest two tracks accessible to the public

within the compartment. Old air photos show evidence of old two tracks from when logging took place in the 1960's.

Survey Needs:

None needed at this time

Recreational Facilities and Opportunities:

Lack of vehicle access make recreational opportunities difficult for the public in this compartment. However, due to the lack of pressure some good hunting and trapping opportunities do exist for the general public. The landowners of the private parcels to the north appear to be the primary users. No designated recreation trails exist within the compartment.

Fire Protection:

Lack of access and fuel buildup in the birch / black spruce mixtures could contribute to large fire growth in this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

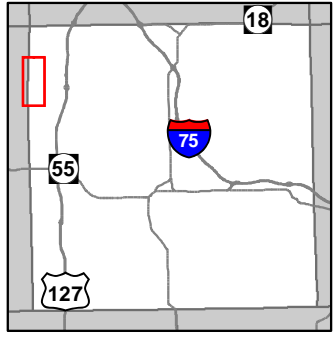
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

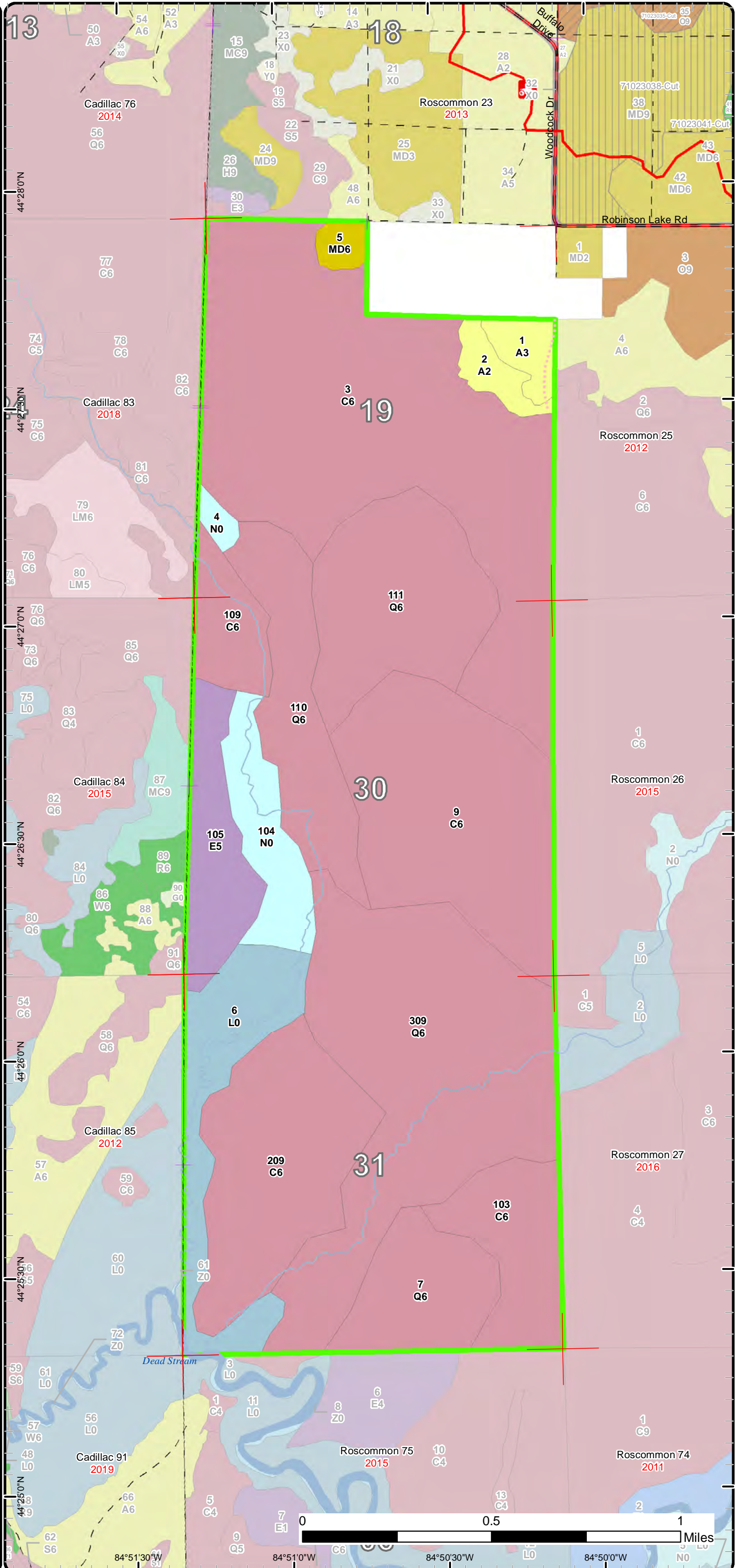
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatment Map

Compartment: 24
 T24N,R04W, Sec.19, 30-31
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Houghton Lake Wetlands
 YOE: 2019
 Acres: 1764.7 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 8/2/2017
 Map Phase: Review

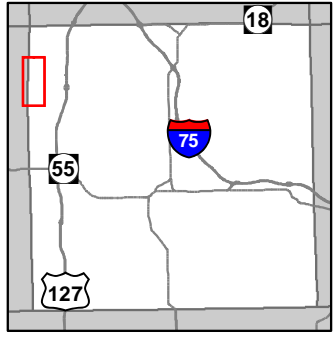


- Miris Corners
- + Remonumented Section Corners
- Counties
- ORV Trails
- Designated ATV
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

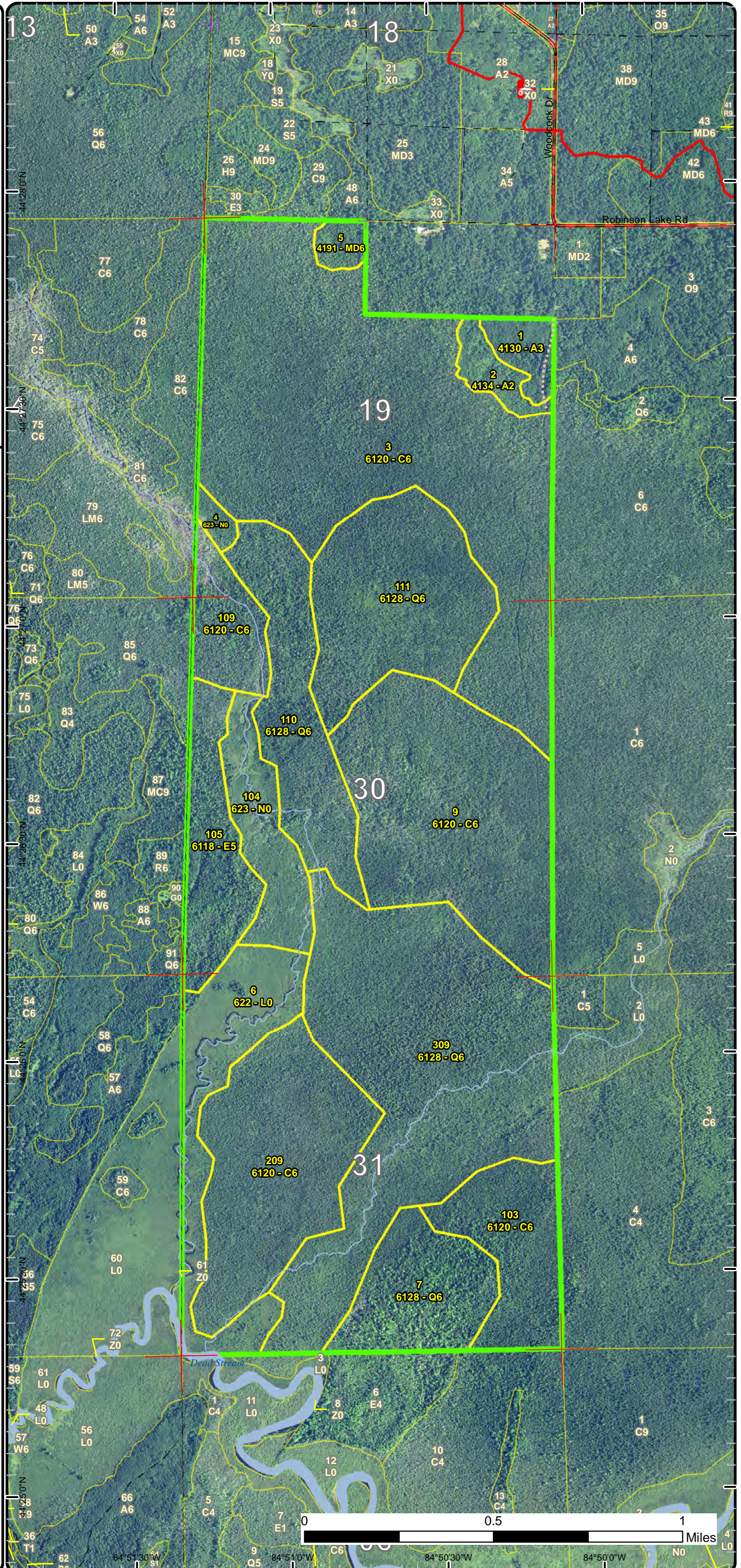


Stand Boundary Map

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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Cedar	0	0	0	0	0	0	0	0	205	41	228	411	0	0	0	0	0	0	885
Lowland Conifers	0	0	0	0	0	0	0	0	0	615	0	0	0	0	0	0	0	0	615
Lowland Deciduous	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	0	66
Lowland Shrub	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Marsh	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Mixed Upland Deciduous	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Total	153	0	0	37	0	0	10	0	205	656	294	411	0	0	0	0	0	0	1764



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2019

Compartment 24
Total Compartment Acres: 1,765

Acres of Harvest

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



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Treatment
Name

Acres

Stand
CoverType

Size
Density

Stand
Age

BA
Range

Treatment
Type

Treatment
Method

Cover Type
Objective

Age
Structure

Approval
Status

#Type!

Habitat Cut:

Site Condition:

Prescription
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date:

**Total Treatment
Acreage Proposed: 0.0**

Report 4 – Site Conditions

Roscommon Mgt. Unit
Dale Ekdom : Examiner

Compartment: 24
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5F	2G
		With Condition	Not Available			
36	36	0	0	Aspen		
885	0	0	885	Cedar	0	885
615	0	0	615	Lowland Conifers		615
66	0	0	66	Lowland Deciduous		66
90	90	0	0	Lowland Shrub		
62	62	0	0	Marsh		
10	0	10	0	Mixed Upland Deciduous	10	
1,765	188	11	1,566	Total Forested Acres	11	1,566
	11%	1%	89%	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	Available	5F: Evaluated for Forest Health Considerations	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cut with stand 23 in compartment 23 adjacent to it							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1,566	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: Deadstream Swamp							

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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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	Roscommon Mgt. Unit		Report 7 – Forested Stands			Compartment: 24	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2019	
1	4130 - Aspen	Sapling Well	18.5	22	Immature		Nice A3 stand
2	4134 - Aspen, Spruce/Fir	Sapling Medium	17.5	22	Immature		Mix of low aspen stocking with red maple, balsam, and a few oaks, somewhat lower ground than the aspen stand to the north.
3	6120 - Lowland Cedar	Poletimber Well	411.4	107	171-200		Dead Stream Swamp, Interior areas are more black spruce, higher/drier edges have scattered white pine and hemlock - HCVA/SCA
5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.3	53	81-110		Mix of aspen, balsam, spruce, and red maple. Scattered, hemlock, white pine, and red pine, and oak. Transitions zone between upland and cedar swamp, parts are wet with tag alder, should hold okay with higher water table that is present, cut with stand to the north next time to make a larger treatment area so deer browse next to the swamp isn't a factor
7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	73.9	88	81-110		DEAD STREAM SWAMP. Imagery implies heavier deciduous canopy in this stand especially the southern portions
9	6120 - Lowland Cedar	Poletimber Well	204.8	78	81-110		DEAD STREAM SWAMP
103	6120 - Lowland Cedar	Poletimber Well	73.6	97	81-110		DEAD STREAM SWAMP
105	6118 - Lowland Deciduous with Cedar	Poletimber Medium	66.2	97	51-80		Dead Stream Swamp
109	6120 - Lowland Cedar	Poletimber Well	41.0	80	81-110		DEAD STREAM SWAMP - Records indicate that there was a old trappers cabin near the section corner in this stand. The good imagery shows an opening just over the line into the Cadillac Unit. Never found the cabin or got to this stand in 2019 YOE
110	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	99.2	88	51-80		DEAD STREAM SWAMP. Bench that sits slightly higher than surroundings and supports some red maple and white pine.
111	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	133.8	88	51-80		See early photos from 1938. This stand and stand 309 are probably from a fire in the early 30's. There was also a network of roads on those photos that could be from some logging prior to it burning.
209	6120 - Lowland Cedar	Poletimber Well	154.3	97	81-110		DEAD STREAM SWAMP
309	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	308.2	88	51-80		See early photos from 1938. This stand and stand 111 are probably from a fire in the early 30's. There was also a network of roads on those photos that could be from some logging prior to it burning.

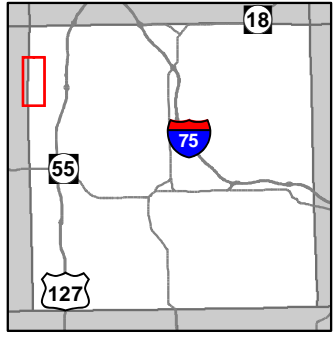




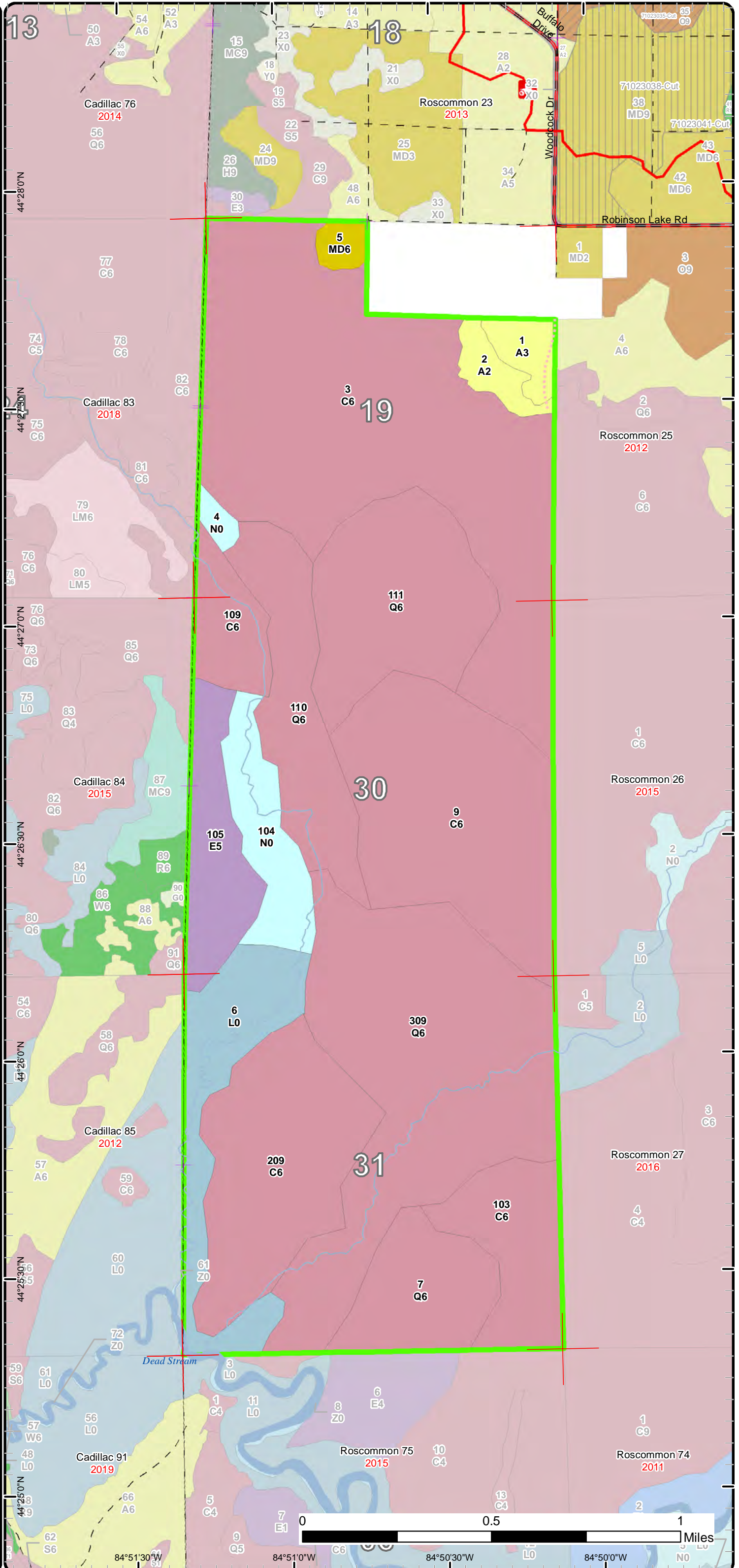
Stand	Cover Type	Acres	Managed Site	General Comments:
4	623 - Emergent Wetland	6.9	No	
6	622 - Lowland Shrub	90.5	No	DEAD STREAM SWAMP.
104	623 - Emergent Wetland	54.8	No	

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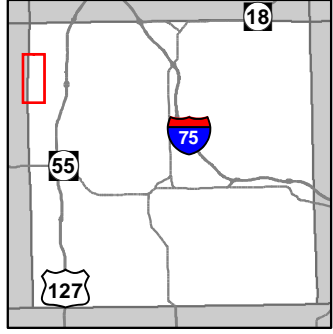


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