



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 20 ENTRY YEAR: 2009

Compartment Acreage: 1324 County: Clare

Revision Date: August 24, 2007; October 18, 2007

Stand Examiner: Tim Gallagher

Legal Description: T18N — R3W: Section: 10.
T19N — R3W: Section: 30.
T19N — R4W: Sections: 24, 25 & 36.

RMU (if applicable):

Management Goals:

Continue to manage the aspen and mixed oak stands to maintain a variety of age classes to enhance deer and grouse habitat. Several mature oak stands within the compartment are lacking sufficient oak regeneration. Many of these oak stands are now 80 to 85 years old and have partial harvests proposed to stimulate oak regeneration. The state land in this compartment is spread out over 5 sections. The state and private lands are intermixed resulting in miles of private property lines. Overall, the compartment is on average ground with site indices between 55 and 70. There are numerous old railroad grades criss-crossing the area, remnants from the white pine logging era.

Soil and Topography:

The area varies from well drained Grayling sands in the outwash plains to poorly drained mucky Lupton-Markey soils as you enter the Mostetler Creek Floodplain. The terrain varies from nearly level to gently rolling hills to the short steep banks that lead down to the floodplain of Mostetler Creek.

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

Dodge City coexists with this compartment. Dodge City is located adjacent to the north of state land in section 30. Dodge City is made up of both homes for permanent residents and seasonal use cottages. The location of Dodge City concentrates use within this compartment. The state land occurs in large contiguous blocks. Private in-holdings are mostly comprised of large (40 plus acres) forested blocks with single absentee ownerships. There is evidence that adjacent private forest owners are practicing forest management activities with commercial timber harvests.

Unique, Natural Features (include only non-site specific and non-sensitive information):

This area has a variety of rare species that could be or are present including; Secretive Locust, Eastern Box Turtle, Bald Eagle, Osprey, Great Blue Heron, Wood Turtle, Woodland Vole and Blanding's Turtle.

Archeological, Historical, and Cultural Features

None know

Special Management Designations or Considerations:

None know

Watershed and Fisheries Considerations:

Mostetler Creek should be treated as a cold water fishery as it is a designated trout stream from M-6 1 south and is part of the Tobacco River watershed. Mostetler Creek is in a valley and has a natural buffer of lowland brush, lowland

timber types and marsh directly adjacent to its banks the river corridor should be considered sensitive wetland. Nester Lake is located within the compartment and receives moderate fishing pressure mainly for panfish.

Wildlife Habitat Considerations:

This is a quality wildlife compartment consisting of a wide variety of cover types that provide the basic essentials for both game and non-game species. Aspen, in various age classes, O and Q types (thermal cover) are scattered throughout the area. Many passerine (avian species) utilize open stands once the young have fledged or are naturally common dwellers (have a strong habitat preference) for the aspen component in forested cover types.

Excessive trails throughout this compartment have fragmented the above forested cover types. A Director's Order should be requested for this compartment, which will reduce the ever expanding forest trail system (much of it created illegally by the general public). WLD will initiate the director's order on the road closures.

Compartment 20 is a great block of public ownership for those that hunt (deer, grouse, squirrel and turkeys).

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Pennsylvanian Saginaw and Grand River Formations. The Saginaw Formation is used for clay/shale in other areas of the State. A gravel pit is located in Section 26 and there is potential on the uplands. This area has had limited oil and gas development. None of the compartment is currently leased.

Vehicle Access:

Access to most of the compartment is good via the county road system and state two tracks that are in place. All the state land within section 24 (T19N — R4W) is landlocked by private. In the past access has been granted by private landowners to harvest timber. The land in section 24 contains the headwaters area for Mostetler creek.

Survey Needs:

None

Recreational Facilities and Opportunities:

Nester Lake public boat ramp is located in section 10 (T18N — R3W) and is maintained by Parks & Recreation Division. The area receives moderate hunting pressure most of which is deer, grouse and turkey hunters. Moderate fishing occurs on Nester Lake. District Recreation personnel recommend retention be left along Rogers Rd. for aesthetics.

Fire Protection:

A potential fire control problem exists due to the heavy rural /urban interface within this compartment.

Additional Compartment Information:

Two isolated parcels within the compartment boundary are in the process of being transferred from the State Forest System to the Gladwin State Game Area and were not included in this inventory, they are as follows:

- 1) T18N — R3W, Sec 6, SE1/4: (160 acres).
- 2) T18N — R3W, Sec 4, part of W1/2NW: & part of NWSW: (105 acres)

****** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

- Cover Type by Age Class**
- Cover Type by Management Objective**
- Compartment Volume Summary**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**

****** The following information is displayed on the attached compartment maps:
Base feature information, stand numbers, cover types**

Proposed treatments
Proposed road access system
Suggested potential old growth

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

CLARE COUNTY

COMPARTMENT: 20

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	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	150-159	All Aged	Total
Aspen		120	240		131		3			84									578
Bog or Marsh	18																		18
Cedar												70							70
Grass	18																		18
Lowlnd Brush	38																		38
Marsh	24																		24
Mx Swmp Cnfr										46		52							98
Oak		171			6				34	201								11	423
Swamp Hrdwds									7	28									35
Water	22																		22
Total	120	291	240		137		3		41	359		122						11	1324

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

CLARE COUNTY

COMPARTMENT: **20**

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	578																										578
V Bog or Marsh			18																								18
C Cedar				70																							70
G Grass					18																						18
L Lowlnd Brush									38																		38
N Marsh											24																24
Q Mx Swmp Cnfr												98															98
O Oak														423													423
E Swamp Hrdwds																				35							35
Z Water																									22	22	
Total	578		18	70	18				38		24	98		423						35					22		1324

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

CLARE COUNTY

COMPARTMENT: **20**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8094 Cds	Hardwood	1785 Cds
Hardwood	2260 Mbf	Hardwood	1359 Mbf
Softwood	3657 Cds	Sum CutVol	4503 Cds
Softwood	66 Mbf		
Sum TotVol	16403 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	308
	1324		

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
23	O9	52	80	50	oak	mature	shelterwood-seed	1	natural regeneration	
comnts Fmd : Buffer left along private and road when stand 123 and 223 were cut in 2000. Very high visual impact with this stand. Shelterwood Cut - cut to 40% to 60% crown closure. Mark trees to cut with orange paint, do not mark to leave with green paint as the green painted trees will be visable for years folowing harvest. Do not eliminate any one species (mixed hardwood and mixed pine). Mark to remove the most stressed trees first, then for loggability, then to meet 40% to 60% crown closure, residual should be between 30 and 50 sq. ft. Buffer scattered N, L and V types with a 70' ft no cut area around the low areas. These uncut buffers will help meet the retention guidelines.										
24	O9	41	80	50	oak	mature	shelterwood-seed	1	natural regeneration	
comnts Fmd : Very high visual impact with this stand. Dense Mr3/Mr4 understory in many areas of the stand. Scattered mature red pine and aspen. What aspen is left is falling apart and making snags. Semi steep bank above Z type at south end of stand. Shelterwood Cut - cut to 40% to 60% crown closure. Mark trees to cut with orange paint, do not mark to leave with green paint as the green painted trees will be visable for years folowing harvest. Do not eliminate any one species (mixed hardwood and mixed pine). Mark to remove the most stressed trees first, then for loggability, then to meet 40% to 60% crown closure, residual should be between 30 and 50 sq. ft. Buffer scattered N and Z types with a 70' ft no cut area around the low areas. These uncut buffers will help meet the retention guidelines.										
25	O9	17	83	80	oak	immature	selection	1	natural regeneration	
comnts Fmd : Rolling hills much of the timber is on north and east facing slopes. Excellent quality timber. Selection harvest - cut all red maple and reduce residual oak down to 70 sq. ft.										
26	O9	15	83	50	oak	mature	shelterwood-seed	1	natural regeneration	
comnts Fmd : Semi steep bank at north end of stand above Z type. Scattered red pine 18" plus DBH. Shelterwood Cut - cut to 40% to 60% crown closure. Mark trees to cut with orange paint, do not mark to leave with green paint as the green painted trees will be visable for years folowing harvest. Do not eliminate any one species (mixed hardwood and mixed pine). Mark to remove the most stressed trees first, then for loggability, then to meet 40% to 60% crown closure, residual should be between 30 and 50 sq. ft. Buffer scattered L and Z types with a 70' ft no cut area around the low areas. These uncut buffers will help meet the retention guidelines. May need to stay off slope at north end of stand.										
32	O9	10	83	55	oak	immature	selection	1	natural regeneration	
comnts Fmd : Decent quality timber. Selection harvest - cut all red maple and reduce residual oak down to 70 sq. ft.										
34	O9	32	83	50	oak	mature	shelterwood-seed	1	natural regeneration	
comnts Fmd : Shelterwood Cut - cut to 40% to 60% crown closure. Mark trees to cut with orange paint, Do not eliminate any one species (mixed hardwood and mixed pine). Mark to remove the most stressed trees first, then for loggability, then to meet 40% to 60% crown closure, residual should be between 30 and 50 sq. ft. Buffer adjaacent V type with a 70' ft no cut area around the low areas. This uncut buffer will help meet the retention guidelines.										
39	A9	13	86	60	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : Final harvest 2" spec. manage for a mix of aspen/oak regeneration. Leave uncut islands and individual trees to meet retention guidelines.										
124	O9	22	80	50	oak	mature	shelterwood-seed	1	natural regeneration	
comnts Fmd : All aspen and red maple cut in 2002. Decent O3 understory. Very high visual impact with this stand. Shelterwood Cut - cut to 40% to 60% crown closure. Mark trees to cut with orange paint, do not mark to leave with green paint as the green painted trees will be visable for years folowing harvest. Mark to remove the most stressed trees first, then for loggability, then to meet 40% to 60% crown closure, residual should be between 30 and 50 sq. ft. Buffer scattered N and Z types with a 70' ft no cut area around the low areas. These uncut buffers will help meet the retention guidelines.										
126	O8	28	70	50	oak	mature	shelterwood-seed	1	natural regeneration	
comnts Fmd : Partail harvest in 2002. All aspen, red maple and some oak were removed. Regen is decent however, there are areas where the regen is spotty. Second stage Shelterwood Cut reduce BA to 30 sq. ft.										
134	O9	7	80	50	oak	mature	shelterwood-seed	1	natural regeneration	
comnts Fmd : All aspen, red maple and some oak cut in 2002. Stand is a buffer between Mostetler Road and a large clearcut to the south. Very high visual impact with this stand. Shelterwood Cut - cut to 40% to 60% crown closure. Mark trees to cut with orange paint, do not mark to leave with green paint as the green painted trees will be visable for years folowing harvest. Mark to remove the most stressed trees first, then for loggability, then to meet 40% to 60% crown closure, residual should be between 30 and 50 sq. ft. Leave a mix of oak size classes to meet retention guidelines.										
139	A9	26	80	65	aspen (upland)	mature	final harvest	1	natural regeneration	
comnts Fmd : Muture aspen/oak with high quality timber here. Final harvest 2" spec manage for a mix of aspen and oak regeneration. Rolling hills and vallies, for the most part the stand is upland with scattered seasonally wet areas. Consider late summer - winter harvest. Leave scattered uncut islands and individual trees to meet retention guidelines.										

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 20

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
239	A9	37	86	70	aspen (upland)	mature	final harvest	1	natural regeneration	

comnts Fmd : Muture aspen/oak with high quality timber here. Final harvest 2" spec manage for a mix of aspen and oak regeneration. Rolling hills and vallies, for the most part the stand is upland with scattered seasonally wet areas. Consider late summer - winter harvest. Leave scattered uncut islands and individual trees to meet retention guidelines.

Total Acres..... 300

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 20

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
6	A9	8	80	55	aspen (upland)	mature	final harvest	3	natural regeneration	

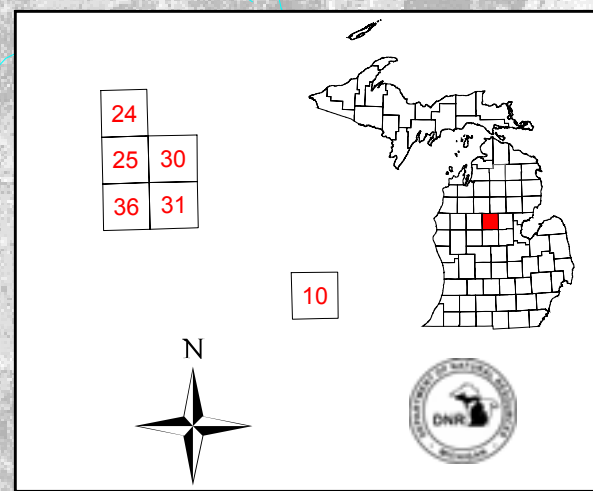
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Wildlife Division to habitat cut to maintain aspen type. WLD will arange access. Prescribed last YOE but not harvested due to lack of access. Landlocked by private.

Total Acres..... 8

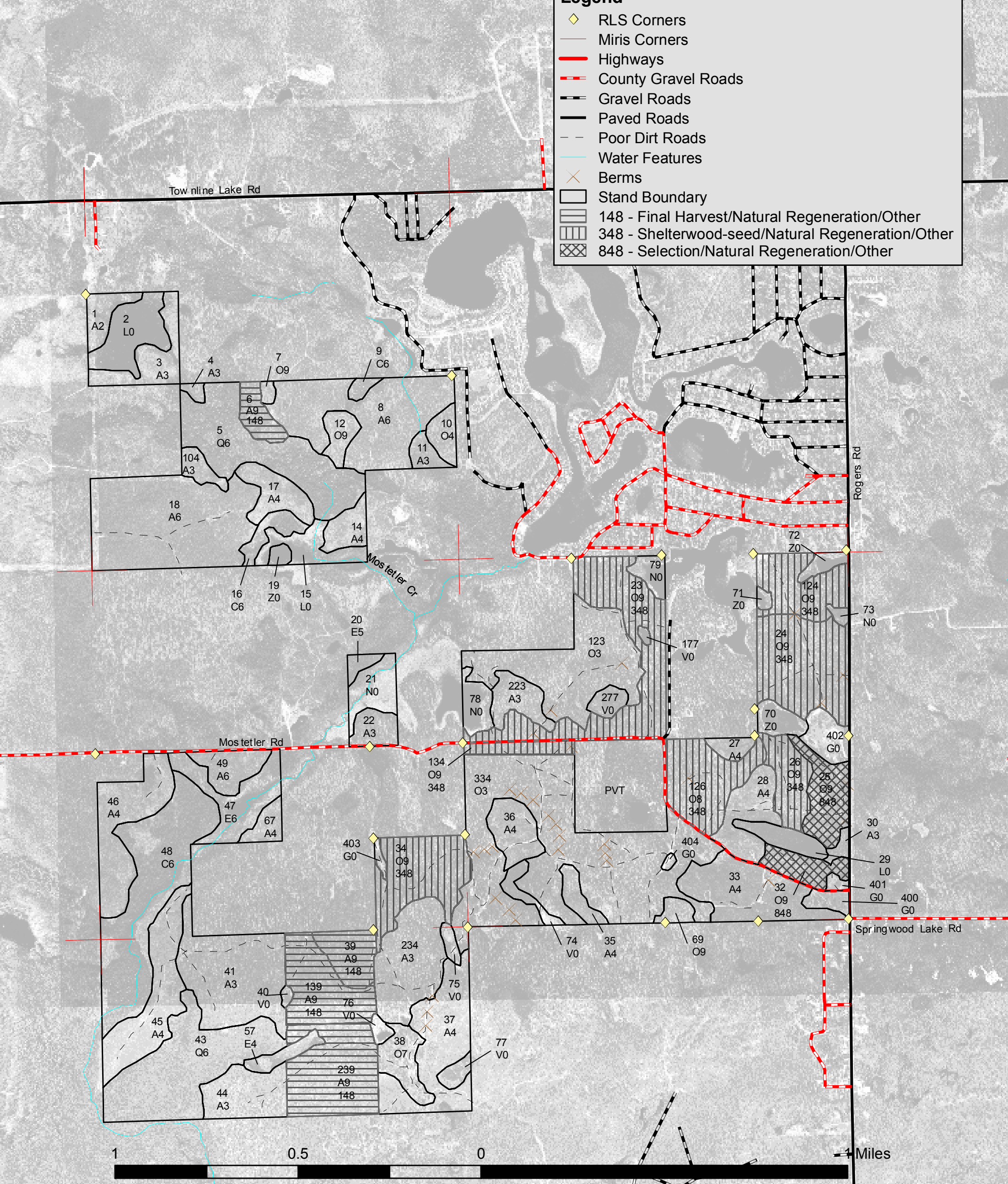
Compartment 20
 T19N, R04W, Sec. 24, 25, 36
 T19N, R03W, Sec. 30, 31
 T18N, R03W, Sec. 10
 County: Claire
 Unit: Gladwin
 YOE: 2009
 Acres: 1,324 GIS Calculated
 Stand Examiner: Timothy Gallagher
 Map Revised: 10/23/2007
 Map Phase: Pre-Review

Field Map



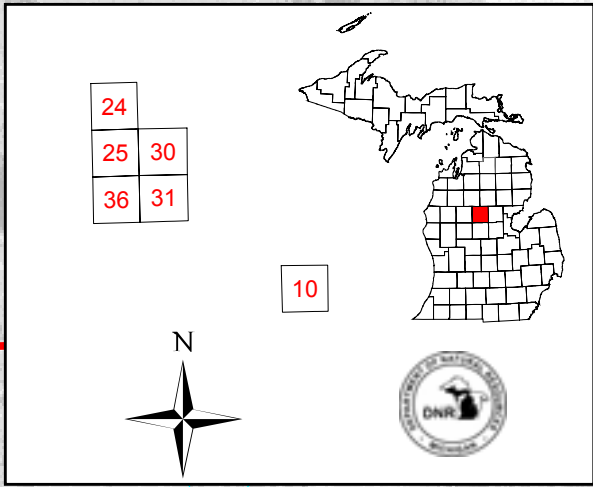
Legend

- ◆ RLS Corners
- Miris Corners
- Highways
- - - County Gravel Roads
- - - Gravel Roads
- Paved Roads
- - - Poor Dirt Roads
- Water Features
- × Berms
- Stand Boundary
- ▨ 148 - Final Harvest/Natural Regeneration/Other
- ▤ 348 - Shelterwood-seed/Natural Regeneration/Other
- ▩ 848 - Selection/Natural Regeneration/Other



Field Map

Compartment 20
 T19N, R04W, Sec. 24, 25, 36
 T19N, R03W, Sec. 30, 31
 T18N, R03W, Sec. 10
 County: Claire
 Unit: Gladwin
 YOE: 2009
 Acres: 1,324 GIS Calculated
 Stand Examiner: Timothy Gallagher
 Map Revised: 10/23/2007
 Map Phase: Pre-Review



Legend

- ◆ RLS Corners
- Miris Corners
- Highways
- - - County Gravel Roads
- - - Gravel Roads
- Paved Roads
- - - Poor Dirt Roads
- Water Features
- × Berms
- Stand Boundary
- ▨ 148 - Final Harvest/Natural Regeneration/Other
- ▤ 348 - Shelterwood-seed/Natural Regeneration/Other
- ▩ 848 - Selection/Natural Regeneration/Other

Athey Ave

Gladwin Rd

Monroe Rd

Baily Lake

