



**GWINN FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 99 ENTRY YEAR: 2009
Compartment Acreage: 1186 GIS acres County: Alger

Revision Date: 08/08/2007

Stand Examiner: Jerry Mohlman

Legal Description: T45N R22W Sections 1,12,13, T45N R21W Section 18

Management Goals: For the 10 year entry period, we will harvest one aspen stand to regenerate aspen. Retention in these stands will consist of white pine, cedar, hemlock, and groups of hardwood along travel corridors. We are planning to have selection harvests in seven hardwood stands. We will retain representatives of all tree species in these stands as well as all size classes. We will retain den trees and other trees important to wildlife. Emphasis will be on improving tree and stand timber quality. The south part of the compartment may not be harvested due to access and stream crossing difficulties.

Soils and topography: Shoepac, Shoepac-Trenary, Cathro-Ensley, Charlevoix-Ensley, Chatham-Ensley, Lupton-Tawas-Carbondale. A range of very high quality hardwood soils down to poorly drained wetland. Flat to gently rolling with some steep moraine ridges.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Private land surrounds this compartment. Mostly hunting camps and residences.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: Old logging camp sites in compartment.

Special Management Designations or Considerations: Biodiversity maintenance stands along Johnson creek and associated riparian areas. Stands 7, 9, 14, 18, 19, 20, 21, 28, 31, 35, 37, 38, 39, 40, 43, 44, 45, 46, 47, 48, 49, 52, 55, 56, 61

Watershed and Fisheries Considerations: Good. Johnson Creek actually begins with confluence of the third tributary, which drains south along the eastern border of T45N, R22W. That N-S tributary and the first NW loop of the combined flows of the first two tributaries are classified as trout water, Type 1. Most of the downstream reach of Johnson Creek is also classified Type 1. For reasons mentioned above, the headwater areas contained within this compartment are critical importance to the rest of Johnson Creek. They should be protected from any new sources of erosion or other disruptions to their natural flow.

Wildlife Habitat Considerations: Maintain and protect riparian "Special Conservation Area" stands as movement corridors and core habitat for a multitude of game and nongame wildlife species/communities. Promote habitat legacies in all "Special Conservation Area" stands, such as standing and fallen snags, supercanopy trees, and natural processes/disturbances. Maintain or enhance biodiversity in northern hardwood stands through conservation of all associated overstory and understory species, with a particular focus on providing mesic conifer species in all forest strata. Perpetuation of the aspen covertime acreage

through commercial timber sales is a high priority. Providing continued public access for hunting, trapping, and wildlife viewing is also a high priority in this remote and somewhat landlocked compartment.

Mineral Resource and Development Concerns and/or Restrictions: COMPARTMENT 99: Sections 1, 12 & 13, T45N-R22W, Alger County

Surface sediments consist of coarse-textured till (drumlin area). The glacial drift thickness varies between 10 and 50 feet. The Ordovician Black River Group subcrops below the glacial drift. The Black River is quarried for dolostone in the UP. A gravel pit is located one mile to the north and there should be potential. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Generally good north but through private so permanent access is uncertain. Poor access south.

Survey Needs: None requested this entry period.

Recreational Facilities and Opportunities: General forest recreation such as hunting and fishing.

Fire Protection: Fire frequency and severity is low in this compartment due to hardwood or swamp soils.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **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, where pertinent, 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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

ALGER COUNTY

COMPARTMENT: 99

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							17	12	5	17									51
Black Spruce									5										5
Cedar										51									51
Grass	1																		1
LowInd Brush	158																		158
LowInd Poplr			26					29											55
Marsh	3																		3
Mx Swmp Cnfr			10						111	54									175
Paper Birch							16												16
Spruce Fir								1		14									15
Swamp Hrdwds			6					5	25	16									52
Upland Hdwds			1						4	19								552	576
Water	28																		28
Total	190		43				33	47	150	171								552	1186

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

ALGER COUNTY

COMPARTMENT: 99

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	51																										51
S Black Spruce		5																									5
C Cedar				51																							51
G Grass					1																						1
L Lowlnd Brush									158																		158
P Lowlnd Poplr										55																	55
N Marsh											3																3
Q Mx Swmp Cnfr												175															175
B Paper Birch															16												16
F Spruce Fir																			15								15
E Swamp Hrdwds																				52							52
M Upland Hdwds																								576			576
Z Water																									28		28
Total	51	5		51	1				158	55	3	175			16				15	52				576	28	1186	

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

ALGER COUNTY

COMPARTMENT: **99**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7259 Cds	Hardwood	985 Cds
Hardwood	1662 Mbf	Hardwood	168 Mbf
Softwood	3636 Cds	Softwood	224 Cds
Softwood	142 Mbf	Sum CutVol	1545 Cds
Sum TotVol	14503 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1186		297	

**Proposed Treatments
With NO Limiting Factors**

Compartment: 99

Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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Total Acres..... 0

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
5	M9	8		60	northern hardwood	unevenaged	thinning	2	planting	prescribed for fdf treatment

TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Thinned 1992. Good quality large trees mostly high quality sugar maple. Some areas ok BA so overall would be light thin. Need access through private land, unknown at this time. In the northern hardwood stands we will retain representatives of all species present as well as all size classes. We will retain some den trees as well as other trees important to wildlife.

Wld : Strive to enhance species and size-class diversity in overstory, as well as providing for structural diversity. Leave all white spruce, black spruce, cedar, hemlock, and white pine. Underplant mesic conifers after stand overstory is treated.

10	M9	32		60	northern hardwood	unevenaged	thinning	2	planting	prescribed for fdf treatment
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Thinned 1992. Good quality large trees mostly high quality sugar maple. 1/2 of area sw of stream is red maple type. Also patches of hemlock. Some areas ok BA so overall would be light thin. Need access through private land, unknown at this time. In the northern hardwood stands we will retain representatives of all species present as well as all size classes. We will retain some den trees as well as other trees important to wildlife.

Wld : Strive to enhance species and size-class diversity in overstory, as well as providing for structural diversity. Leave all white spruce, black spruce, cedar, hemlock, and white pine. Underplant hemlock, white pine, and/or white spruce upon completion of cutting.

12	M9	71		65	northern hardwood	unevenaged	selection	2	planting	prescribed for fdf treatment
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TREATMENT LIMITING FACTORS: Blocked by other physical obstacle

comnts Fmd : Thinned 1992. M3 1" dbh in gaps. Patch of hemlock north point of stand. Fair to good quality. Some dieback, due to soil compaction? Ready for thinning but some gaps so will be light thin. Swales and vernal ponds. Need private land access, unknown at this time. In the northern hardwood stands we will retain representatives of all species present as well as all size classes. We will retain some den trees as well as other trees important to wildlife.

Wld : Apply appropriate BMPs to conserve vernal ponds. Underplant hemlock, white spruce, and/or white pine upon completion of cutting. Strive to enhance species and size-class diversity in overstory, as well as providing for structural diversity. Retain all white spruce, black spruce, cedar, hemlock, and white pine.

22	M6	17		65	northern hardwood	unevenaged	thinning	3	planting	
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TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate)
Road needed (resources not presently available)
Blocked by other physical obstacle

comnts Fmd : Mostly good quality hardwood stand marked in 1989 not cut. Also sold again in 1999 and not cut. Paint is mostly faded. Recommend re-marking in 2019 when stand 16 is marked again. This won't sell by itself due to very poor access. Stand has limiting factors. Some vernal ponds and drainages. Areas of large poor timber quality trees with dens and other wildlife values. East side has some fir and aspen mixed with white birch but would be converted to hardwood stand so is included in this stand. 1/2 of stand is red maple type but not poor quality. In the northern hardwood stands we will retain representatives of all species present as well as all size classes. We will retain some den trees as well as other trees important to wildlife.

Wld : Strive to enhance species and size-class diversity in overstory, as well as providing for structural diversity. Leave all white spruce, black spruce, cedar, hemlock, and white pine. Underplant hemlock, white spruce, and/or white pine after cutting completed.

27	M9	59		67	northern hardwood	unevenaged	selection	3	planting	prescribed for fdf treatment
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TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate)
Road needed (resources not presently available)
Blocked by other physical obstacle

comnts Fmd : Most of stand is M9 very good quality sugar maple with large log trees to 24"+ dbh. M3 1" areas near old opening. Areas around opening small trees and aspen in former open area filling in. Aspen south. Vernal ponds and drainages. Steep topography in spots, not feasible for cutting. No access at this time due to private landowner and numerous stream crossings. In the northern hardwood stands we will retain representatives of all species present as well as all size classes. We will retain some den trees as well as other trees important to wildlife.

Wld : Apply proper BMPs to vernal ponds. Strive to enhance species and size-class diversity in overstory, as well as providing for structural diversity. Leave all white spruce, black spruce, cedar, hemlock, and white pine. Underplant hemlock, white spruce, and/or white pine after cutting completed.




Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
29	A6	12	67	57	aspen (upland)	mature	final harvest	2		
<p>TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity Road needed (resources not presently available) Bridge needed (portable bridge not available or inadequate) Blocked by other physical obstacle</p> <p>comnts Fmd : Mostly A6 with about 1 acre of M6 SE. Some fir on edges. 3-4 stick hardwood under mature 6-stick aspen. 1 acre sparse. Vernal areas. Poor access through private and numerous stream crossings. Mature, but probably will not cut due to poor access. In the aspen stands, we will retain some trees such as hemlock, cedar, and white pine if present as well as some hardwood along travel corridors.</p> <p>Wld : Apply proper BMPs to vernal areas when treat in future. Follow FMFMD retention comments.</p>										
30	M9	48		64	northern hardwood	unevenaged	selection	3	planting	prescribed for fdf treatment
<p>TREATMENT LIMITING FACTORS: Adjacent landowner denies access Road needed (resources not presently available) Blocked by other physical obstacle Influence zones</p> <p>comnts Fmd : Good quality especially on higher ground. Large trees in spots. Over half the stand ready for thinning, other areas not overstocked. Defect in some large trees but some nice stems too. Excellent regeneration. M5 with big aspen on east side. Poor access through private and many stream crossings. In the northern hardwood stands we will retain representatives of all species present as well as all size classes. We will retain some den trees as well as other trees important to wildlife.</p> <p>Wld : Leave all cedar, hemlock, black spruce, white spruce, and white pine. Underplant hemlock, white spruce, and/or white pine after cutting completed. Strive to enhance species and size-class diversity in overstory, as well as providing for structural diversity including partial retention of existing tree cavities.</p>										
32	A6	17	82	64	aspen (upland)	mature	final harvest	3		
<p>TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate) Blocked by other physical obstacle</p> <p>comnts Fmd : Aspen 12-14". Access very poor due to streams and private land. Would need large road and bridge project as well as access through private land. Much of stand north is converting to poor quality hardwood and fir mix. Most of the rest of stand still contains a lot of aspen. Some Balsam poplar areas west with a little wetter soil. Recent beaver activity east. In the aspen stands, we will retain some trees such as hemlock, cedar, and white pine if present as well as some hardwood along travel corridors.</p> <p>Wld : Retain some scattered white spruce across stand. Leave all cedar, cherry, elm, hemlock, red pine, and white pine. Leave one chain wide strip of uncut timber along edge of stand 33 (pond). Try to incorporate some mature aspen in boundary line of sale as a source of mature aspen retention.</p>										
36	A6	5	77	65	aspen (upland)	mature	final harvest	2		
<p>TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate) Blocked by other physical obstacle</p> <p>comnts Fmd : Poor access due to being blocked by private land and numerous stream crossings. Mix of aspen mature with poor quality hardwood. Would leave pine and cedar in a harvest. However a harvest is unlikely. Some of this could be converted to hardwood on the higher, better soil. Fish division would like 100' uncut buffer and attempt to convert adjacent part of stand to conifer or hardwood. Probably at least 1/2 of stand not managed for aspen. In the aspen stands, we will retain some trees such as hemlock, cedar, and white pine if present as well as some hardwood along travel corridors.</p> <p>Wld : Leave some scattered white spruce. Leave hemlock, chery, and elm.</p>										
41	M9	24		64	northern hardwood	unevenaged	selection	3	planting	prescribed for fdf treatment
<p>TREATMENT LIMITING FACTORS: Adjacent landowner denies access Road needed (resources not presently available) Blocked by other physical obstacle Influence zones</p> <p>comnts Fmd : Good quality especially on higher ground. Large trees in spots. Over half the stand ready for thinning, other areas not overstocked. Defect in some large trees but some nice stems too. Excellent regeneration. M5 with big aspen on east side. Poor access through private and many stream crossings. In the northern hardwood stands we will retain representatives of all species present as well as all size classes. We will retain some den trees as well as other trees important to wildlife.</p> <p>Wld : Strive to enhance species and size-class diversity in overstory, as well as providing for structural diversity including retention of some cavity trees. Leave all white spruce, black spruce, cedar, hemlock, and white pine. Underplant hemlock, white spruce, and/or white pine when cutting completed.</p>										

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
50	M6	4		64	northern hardwood	unevenaged	selection	2		
<p>TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate) Blocked by other physical obstacle Influence zones</p> <p>comnts Fmd : Mostly red maple type but good sugar on top of slope. Steep slopes in spots. Vernal lower. Some M# 4" dbh in areas. Cut only if possible to get road through. However blocked by streams and lack of access through private so sale unlikely. In the northern hardwood stands we will retain representatives of all species present as well as all size classes. We will retain some den trees as well as other trees important to wildlife.</p> <p>Wld : Leave all cedar, hemlock, black spruce, white spruce, and white pine.</p>										
Total Acres.....		297								

Field Map

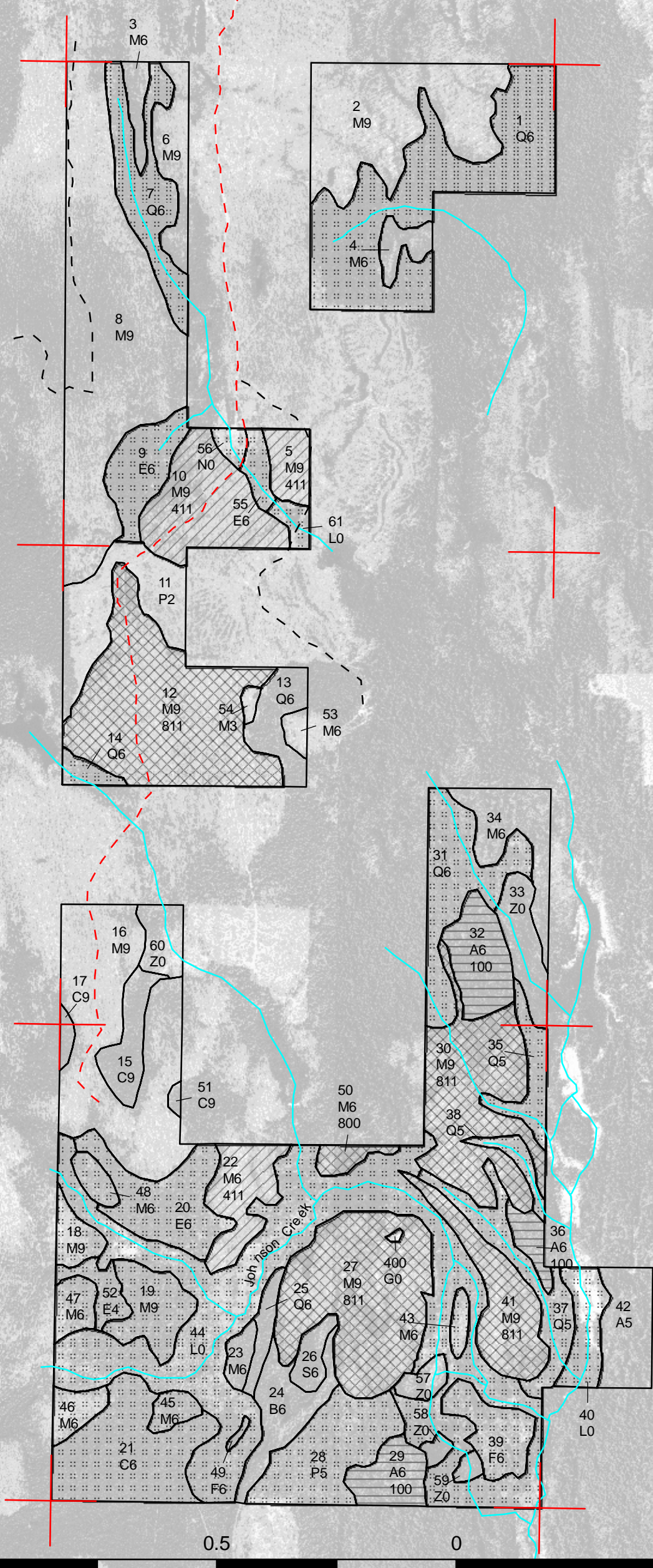
Compartment 99
 T45N, R22W, Sec. 1, 12, 13
 T45N, R21W, Sec. 18
 County: Alger
 Unit: Gwinn
 YOE: 2009
 Acres: 1,186 GIS Calculated
 Stand Examiner: Gerald Mohlman
 Map Revised: 10/12/2007
 Map Phase: Pre-review

01	
12	
13	18

Legend

- Miris Corners
- - - Gravel, County
- - - Gravel,
- - - Poor Dirt, County
- - - Poor Dirt,
- Water Features
- Stand Boundary
- Biodiversity/Old Growth Area
- 100 - Final Harvest
- 411 - Thinning/Planting/Hand Tools
- 800 - Selection
- 811 - Selection/Planting/Hand Tools



Wir tan en Rd

Sipila Rd

