



**GWINN FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 238 ENTRY YEAR: 2008**

**Compartment Acreage: 1572 GIS acres County: 52**

---

**Revision Date: 09/08/2006**

**Stand Examiner:** Warren J Heikkila

**Legal Description:** T45N, R28W, Sec. 22, 27, and 34 .

**Management Goals:** For the 10 yr. period beginning in 2008, we will strive to perpetuate or increase the component of oak, birch, and dry, mesic conifers in a non-plantation setting, where they now occur. Protection of water quality in the Wild West Creek & tributaries is also a priority concern here.

**Soils and topography:** Ranging from relatively level creek bottoms, swamp conifer, tag alder, and bog/marshlands, to upland which is only rolling to moderately hilly. Generally good logging chance throughout, though access is somewhat lengthy and most roads are in need of upgrading with gravel, etc.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** State ownership here is generally blocked in quite well on all sides except the east, which does border some relatively small private forest holdings, mostly non-industrial private owners with recreational objectives. St. John Real Estate is the largest of these private owners with 1200+ acres, but even here the hunting rights are leased. Development is very limited with a few seasonal cottages or hunting camps widely distributed. Production of forest products along with low key recreational activities such as hunting, mushroom & berry picking, riding ORV's, hiking, fishing, and trapping make up the land uses here.

Unique, Natural Features (include only non-site specific and non-sensitive information): The Wild West Creek and its tributaries make up the unique natural features on State land here.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

**Special Management Designations or Considerations:** Special Conservation Areas (formally know as Old Growth stands) are shown on the attached map.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** This compartment is located south of Ishpeming near the Dickenson County Border. The diversity in cover-types attracts a good variety of wildlife and offers some decent hunting, trapping, and wildlife viewing opportunities. The lowlands along Wild West Creek serve as cover and as a movement corridor for many mammals, birds, and amphibians. There is a hunter walking trail located in the southerly portion of the compartment which passes through aspen cover and grassy openings which offers hunters upland bird, showshoe hare, and deer hunting opportunities.

### **Mineral Resource and Development Concerns and/or Restrictions:**

#### **Compartment 238** Sections 22, 27 and 34, T45N-R28W, Marquette County

Surface sediments consist of medium-textured till and peat and muck. There is insufficient data to determine the glacial drift thickness. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. This rock could be used as dimension stone. Gravel pits are not located in this area, but there should be potential on the uplands. The abandoned Republic iron mine is located ten miles to the northwest. Section 34 was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:** The Camp Hope Road (a through road connected to the Flat Rock County Rd CAA on both ends) provides vehicle access to that part of the compartment lying west of the Wild West Creek. Various internal two track, narrow roads (some of which are bermed ), complete the access network to reach parts of the compartment off of the Camp Hope Rd. Another un-named road leads into the part of the compartment east of the Wild West Creek, this road exiting the Flat Rock Rd in Section 10 from the north. Temporary roads are established for timber removal, but these are bermed, and often seeded for wildlife, or obliterated following timber sale completion. All roads in this compartment are in need of upgrading with gravel in at least key areas to make them useable in wet weather, etc. The road passing through the NE1/4 of Sec 22 could be designated as a winter road useable when frozen.

**Survey Needs:** A survey request for 2008 was made for the following corners: H12 (center of Sec 34), and also corners no. 9, 12, & 13 in Sec 34.

**Recreational Facilities and Opportunities:** A network of “hunter walking trails” was established dating back to the 1970’s in Sec 34 from former logging trails, being disked and seeded and bermed upon completion. Currently they have been growing in or reverting to a somewhat natural condition. In addition to this, only low key recreational opportunities for activities such as hunting, trapping, fishing, hiking, mushroom & berry picking, etc. exist in this compartment.

**Fire Protection:** This compartment is included within the “581 Zone Dispatch” area which provides for a pre-planned dispatch of specified fire equipment from within the Gwinn and Crystal Falls Mgt. Units, dependent upon the severity of forecast burning conditions for a specific day. Areas of jack/red pine cover types with the encroachment of recreational seasonal and/or residential dwellings have warranted this pre-planning. Mutual aide agreements with local volunteer fire departments also provide critical fire suppression response, especially in the area of structural fire and/or protection, and evacuations.

### **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 special conservation areas**

09/21/2006 2:33:31 PM

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 238

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not	STAND AGE CLASS																Total	
	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
Aspen		83	189		166	69			111	4									622
Black Spruce						6			42		38		9						95
Cedar											59	18						122	199
Grass	28																		28
Jack Pine							4												4
LowInd Brush	159																		159
LowInd Poplr			52			65													117
Marsh	41																		41
Mx Swmp Cnfr						22			15		34	21						82	174
Paper Birch									44	8									52
Spruce Fir				3	14			35	23										75
Tamarack			6																6
<b>Total</b>	<b>228</b>	<b>83</b>	<b>247</b>	<b>3</b>	<b>180</b>	<b>162</b>	<b>4</b>	<b>35</b>	<b>235</b>	<b>12</b>	<b>131</b>	<b>39</b>	<b>9</b>					<b>204</b>	<b>1572</b>

09/21/2006 2:33:34 PM

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

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: 238

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	592																		30								622
S Black Spruce		95																									95
C Cedar				199																							199
G Grass					28																						28
J Jack Pine							4																				4
L LowInd Brush									159																		159
P LowInd Poplr										117																	117
N Marsh											41																41
Q Mx Swmp Cnfr												174															174
B Paper Birch															44				8								52
F Spruce Fir																			75								75
T Tamarack																						6					6
<b>Total</b>	592	95		199	28		4		159	117	41	174			44				113		6						1572

ESCANABA RIVER STATE FOREST

GWINN FOREST MGT UNIT

MARQUETTE COUNTY

COMPARTMENT: **238**

**Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS**

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	8094 Cds	Hardwood	2263 Cds
Softwood	9290 Cds	Softwood	2262 Cds
Softwood	11 Mbf	Sum CutVol	4525 Cds
Sum TotVol	17406 Cds		
<b>Total Cmpt Acres</b>		Acres Proposed For Cut.....	239
1572			

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 238 Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
<b>1</b>	<b>B6</b>	44	73	58	paper birch	mature	seed tree	1		
<p>comnts Fmd : Leave oak (if any), cherry, red &amp; white pine, and birch seed trees. Go with a shortwood operation to save some of the F2 understory, because undoubtedly we will have a mixed stand in the future, and converting portions of this stand to dry mesic conifer is certainly acceptable. Our alternate MO for this stand, should birch fail to restock the stand, is upland conifer or "F" type - a mix of spruce/fir/pine. Note that stand 25 of compartment 230 adjacent to the north will be cut with this sale.</p> <p>Wld : Located in the NENE of Sec 22. Cut no oak, white pine, red pine or cherry and leave some large white birch for seed trees. This upland hardwood stand borders some lowland types, aspen, and openings and has some good game trails running through it.</p>										
<b>4</b>	<b>Q6</b>	21	106	37	mixed swamp conifer	mature	seed tree	1		
<p>comnts Fmd : Cedar is essentially lacking on this side of the road - perhaps it was cut out in the past (eg. for underground mine lagging, etc). Leave small scattered patches of spruce/tamarack for a seed source to regenerate this stand. It seems tamarack is an aggressive seeder &amp; will easily dominate the new stand. See cut stands to the north. Note that stand #4 extends west of trail road also, on the north end.</p> <p>Wld : Located in the N1/2NE of Sec 22, east of trail road for the most part. Wildlife Division does not support cutting this stand. This stand is primarily lowland conifer and comprised of black spruce, tamarack, fir and some cedar and offers good shelter for wildlife.</p>										
<b>22</b>	<b>S6</b>	27	93	33	black spruce-swamp	mature	seed tree	1		
<p>comnts Fmd : Very little cedar present in this stand. We will leave any cedar present. Very nice spruce and tamarack. Site is not too wet, should be a good logging chance with access from the north on existing road off the Camp Hope Road. ( winter cutting needed). Old railroad grade runs thru stand east-west. We will provide a spruce seed source by marking small clumps of spruce/tam seed trees to leave.</p> <p>Wld : Located in the E1/2NW &amp; W1/2NE of Sec 27. Wildlife Division does not support cutting this stand. This stand is primarily lowland conifer and comprised of black spruce, tamarack, fir, and some cedar and offers good shelter for wildlife.</p>										
<b>30</b>	<b>S6</b>	8	110	37	black spruce-swamp	mature	seed tree	1		
<p>comnts Fmd : Private land east of this stand was cut. It is now heavy with tamarack,- alder, spruce, &amp; fir underneath. We will cut this in 2008, with the exception of cedar, and leaving a seed source for spruce (marked trees or patches of seed trees). We can expect tamarack to seed in here as it did on the private land to the east.</p> <p>Wld : Located in the E1/2NW of Sec 34. Wildlife Division does not support cutting this stand. This stand is primarily lowland conifer and comprised of black spruce, tamarack, fir and some cedar and offers good shelter for wildlife.</p>										
<b>36</b>	<b>B5</b>	8	80	65	spruce-fir (uplands- including upland black spruce)	mature	removal	1		
<p>comnts Fmd : Stand consists of a knob or hill with larger birch dominating with a heavy fir understory. We will remove most of the overstory to release the fir, leaving a few birch for diversity and leaving the red/white pine as well.</p> <p>Wld : Located in the SESW of Sec 34. Try to retain associate species to maintain diversity in this stand.</p>										
<b>37</b>	<b>F6</b>	35	64	62	spruce-fir (uplands- including upland black spruce)	unevenaged	removal	1		
<p>comnts Fmd : On 7/6/05 I visited this stand per request of Brad Gustafson who works for Mark Anderson (MVA out of Felch). They are cutting the private land adjacent to State in SWSE of 34 and NENW of Sec 3 in Dickinson Co. (Chuck Walkner ran the lines). There is significant dead or dead topped jack pine just north of the boundary for SWSE, but the stand is quite diverse (both ages &amp; species - aspen, pine, &amp; spruce, etc) and since this is 2008 yr of entry and will need to be competitively bid, we will wait till then. Warren. Oh, MVA was using access from the southwest via an old road they said they improved. It passes immediately south of the 1/4 corner south side of Sec 34. Bill Ziegler (Fisheries from Crystal Falls) has erected a gate on the west end of this road - located just a 100 yds or so east of the DNR bridge on the Flat Rock Creek. OI field inventory in May 2006 = Overall I consider this an "F" type with jack pine as a component. Manage for upland dry mesic conifer/aspen mix. Our cut in 2008 will be a salvage type of cut or a release cut to remove the overstory from younger spruce/fir. Red &amp; white pine could be marked, use a stump diameter spec on spruce/fir (eg. Cut 8 inch &amp; larger), and cut all merch aspen &amp; jack pine. Oak is scarce here. Best to cut in winter when delimiting of brittle branches is best, since a lot of this conifer is quite limby. Very rocky soil also. Re-evaluate stand after it is cut - there may be spots that could be trenched &amp; seeded to jack pine. I included a few acres north of grass opening #407 with this cutting because it contains some overmature aspen that was missed when rest of stand 31 was cut.</p> <p>Wld : Located in the NWSE &amp; SESW of Sec 34. Cut no oak, red pine, or white pine. Leave associate species and manage for a component of upland conifer.</p>										
<b>44</b>	<b>A5</b>	30	71	61	spruce-fir (uplands- including upland black spruce)	mature	final harvest	1		
<p>comnts Fmd : This was left in the past for a visual buffer when adjacent stands were cut. Some of this stand is low ground (birch/balm/fir) and may have to be winter cut. Or the center portion containing the alder could be excluded if the timber is sparse here anyway. Thus it could possibly be summer cut. Access from north on existing road off of Camp Hope Road. Stand is overmature but has some fir advance regeneration that we should try to save.</p> <p>Wld : Located in the S1/2SW of Sec 22 &amp; N1/2NW of Sec 27. Cut no white pine, oak, or red pine and leave associated species to maintain diversity.</p>										

**GWINN FOREST MGT UNIT**

**Proposed Treatments  
With NO Limiting Factors**

**Compartment: 238**    **Entry Year: 2008**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
<b>63</b>	<b>S6</b>	1	110	37	black spruce-swamp	mature	final harvest	2		
<p>comnts Fmd : Cut with stand 30 to the southeast in 2008. Leave cedar.</p> <p>Wld : Located in the NENW of Sec 34. Wildlife Division does not support cutting this stand. This stand is primarily lowland conifer and comprised of black spruce, tamarack, fir and some cedar and offers good shelter for wildlife.</p>										
<b>82</b>	<b>A6</b>	30	73	61	aspen (upland)	mature	final harvest	1		
<p>comnts Fmd : This stand was created out of the southern edge of stand 40 since our riparian buffer is much wider than it needs to be here, and stand 82 can be cut with stand 44 to make an overall better logging chance here. This will balance or equalize the buffer on both the north &amp; south side of the Wild West Creek. Extreme east end has some lowland - cut whatever is possible. It borders a cedar type. We can leave conifer seed trees when this stand is cut to encourage more conifer regeneration here, even though the MO is aspen.</p> <p>Wld : Located in the N1/2SW &amp; SWSE of Sec 22. Cut no oak, white pine or red pine and leave associate species to maintain diversity.</p>										
<b>Total Acres.....</b>		<b>204</b>								

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
<b>15</b>	<b>F6</b>	11	77	50	spruce-fir (uplands- including upland black spruce)	high risk	seed tree	2		

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : An "island" of high ground surrounded by swamp & marsh. This would necessitate a winter cutting with frozen access from the Northeast. Only about 4 chains or so of swamp to cross - shouldn't be too difficult. Getting permission from private land to the east for access may be more difficult. Note that seed trees will be left for spruce/fir.

Wld : Located in the SENE of Sec 27. Treat as shelterwood cut and retain groups of seed trees to regenerate conifers. Accerss would be very difficult.

<b>19</b>	<b>A6</b>	11	77	60	aspen (upland)	mature	final harvest	2		
-----------	-----------	----	----	----	----------------	--------	---------------	---	--	--

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : Essentially an island of high ground in a swamp except only a very narrow neck of swamp to reach this from the west. Will need to use portable bridge, and winter cutting, to access from the south, so ideally this stand would be best to cut with the larger aspen stand #27 in 2018. Perhaps we can access from northwest via frozen road when stand 22 is cut (no bridge needed).

Wld : Located in the NWSE of Sec 27. Cut not oak, white pine or red pine, access wouldbe difficult.

<b>49</b>	<b>A6</b>	4	81	60	aspen (upland)	mature	final harvest	2		
-----------	-----------	---	----	----	----------------	--------	---------------	---	--	--

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : This stand should have been cut under commercial sale # 19/70A when stand 20 was cut (in 1972), but spring breakup interrupted the harvest and this patch of timber was left. A rock outcrop occurs in stand also. Perhaps this stand could be reached from north or northeast when stand 44 or 22 is cut, but would require winter cutting.

Wld : Located in the SWNW of Sec 27. Cut no White pine, oak, or red pine and leave assoiated species to aintain diversity.

<b>61</b>	<b>J5</b>	4	48	60	jack pine	mature	final harvest	2		
-----------	-----------	---	----	----	-----------	--------	---------------	---	--	--

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : Private land east of this stand has been cutover fairly recently, except for planted red pine which is 6 to 8 inch dbh at present. An old blue paint line is still visible, north-south. We should cut this stand in 2008 since we will want to access stand 15 through this stand. Note: The road on map traveling north-south down the Section line from the north is a winter road only. Best access would be from the east where ever the recent logging operation gained access (possibly the Tower Road). Due to the small acreage, Jim Ferris suggested hand planting of jack pine without site prep as a practical means of restocking, though we may get some natural seeding also. An alternate MO here is upland conifer (F type) and some seed trees will be left to allow this to happen. Old railroad grade (Kates Grade) passing east-west through stand is quite grown over now. Sandy soil here.

Wld : Located in the E1/2NE of Sec 27, bordering private land. Cut no white pine, oak, or redpine and leave associate species to maintain diversity. Back-up MO of "F".

<b>62</b>	<b>F5</b>	5	77	50	spruce-fir (uplands- including upland black spruce)	mature	seed tree	2		
-----------	-----------	---	----	----	---	--------	-----------	---	--	--

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

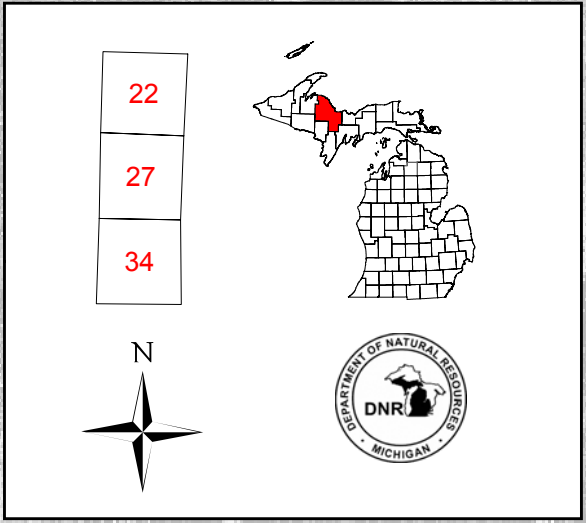
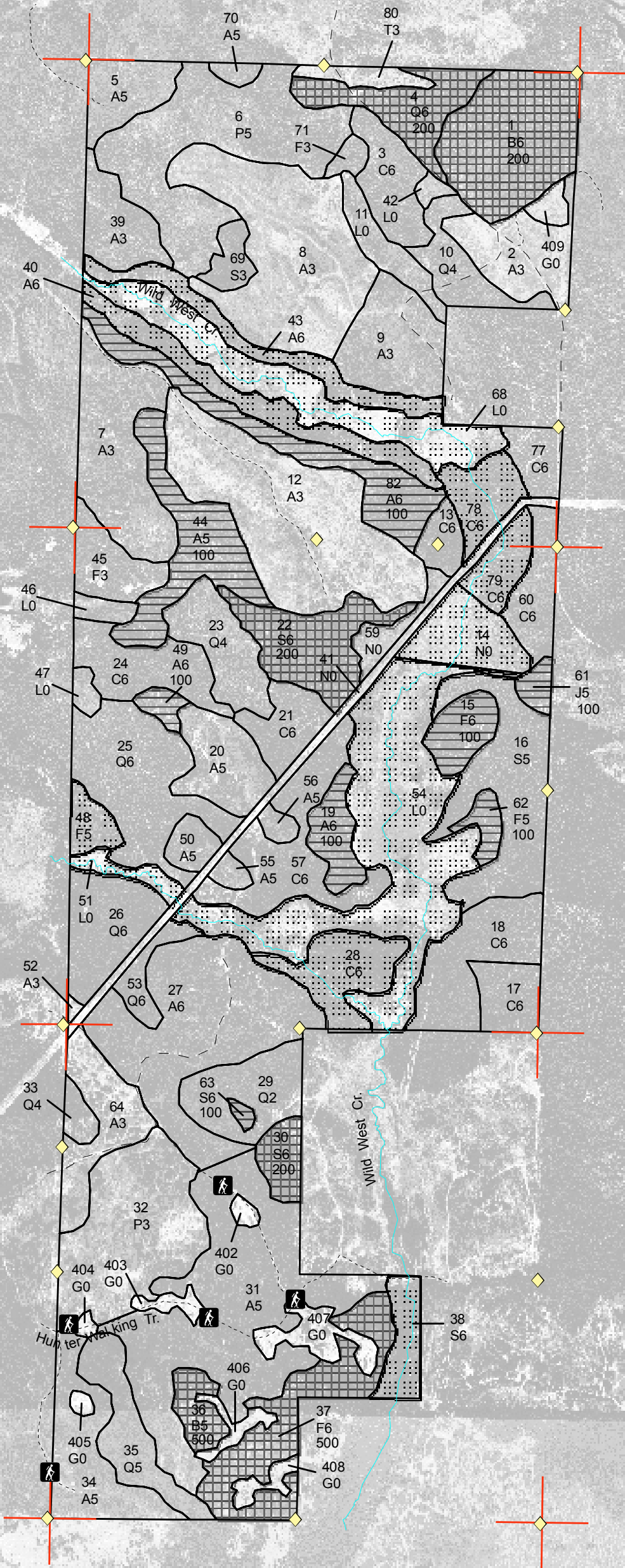
comnts Fmd : Small island of high ground in the swamp. Winter access needed. Cut with stand 15. Note that seed trees will be left.

Wld : Located in the NESE of Sec 27. Do

**Total Acres..... 35**

# Field Map

Compartment 238  
 T45N, R28W, Sec. 22, 27, 34  
 County: Marquette  
 Unit: Gwinn  
 YOE: 2008  
 Acres: 1,572 GIS Calculated  
 Stand Examiner: Warren Heikkila  
 Map Revised: 9/14/2006  
 Map Phase: Pre-review



**Legend**

- RLS Corners
- Miris Corners
- Poor Dirt Roads
- Trails
- Water Features
- Hiking Trails
- Stand Boundary
- Biodiversity/Old Growth Areas
- 100 - Final Harvest
- 200 - Seed Tree
- 500 - Removal

