



**BARAGA FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT #18 ENTRY YEAR: 2010

Compartment Acreage: 2733.0847

County: Baraga

Revision Date: 10/17/2008

Stand Examiner: Fred Hansen

Legal Description: Spurr Township
T48N, R31W, Sections 6, 8, 10, 14, 15, 16, 18, 21, 22, 23, 24 and 25.

RMU (if applicable):

Management Goals: To maintain a healthy sustainable forest with special consideration to wildlife and fisheries habitat.

Soil and Topography: This is a very rugged area. There is a line of bluffs just north of M-28. North of this land is quite rugged. South of this line the terrain is much flatter. Soils in this compartment consist of Peshekee-Rock outcrop complex, Champion-Michigamme cobbly silt loams, Carbondale and Tacoosh mucks and Michigamme-Rock outcrops.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The lands around Beaufort, Ruth and Lake George are developed home and cottage sites. Much of the adjacent land to the north is either industrial forest or Craig Lake State Park. Lands to the south, east and west are mixed industrial forest and small private land owners.

Unique, Natural Features (include only non-site specific and non-sensitive information): MNFI recognizes the potential for freija fritillary, frigga fritillary, red-disked alpine, and ebony boghaunter in bogs. Along with the potential for bald eagle, osprey, common loon, great-blue heron rookery, red-shouldered hawk, goshawk, moose, gray wolf and for wood turtle (along drainages).

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): none.

Special Management Designations or Considerations: BMP guidelines should be followed around the intermittent streams.

Watershed and Fisheries Considerations: There are several lakes in this compartment: Coon Lake, Middle Lake, Ruth Lake, Beaufort Lake and several smaller lakes. Spurr river and several unnamed creeks are also on state land. The streams in this compartment are warm water streams. There is a concern about bank erosion and stream crossings. BMP guidelines need to be followed.

Wildlife Habitat Considerations: Favor mesic conifers (White Pine and Hemlock) and Northern Red Oak. Consider retention of a buffer of uncut conifers adjacent to ponds and lakes for summer thermoregulatory cover for moose, where possible.

Mineral Resource and Development Concerns and/or Restrictions: There is an old Iron mine in section 22. This is west of Ohio mine. The ground is slumping in this area.

Vehicle Access: Access is a problem in this area due to its rugged terrain. There are forest roads that enter the compartment to the north of M-28 that range from poor to fair condition. Access for these roads is from the Nelligan and Craig Lake roads. Access to the lands South of M-28 is very good through a series of County and Cottage roads.

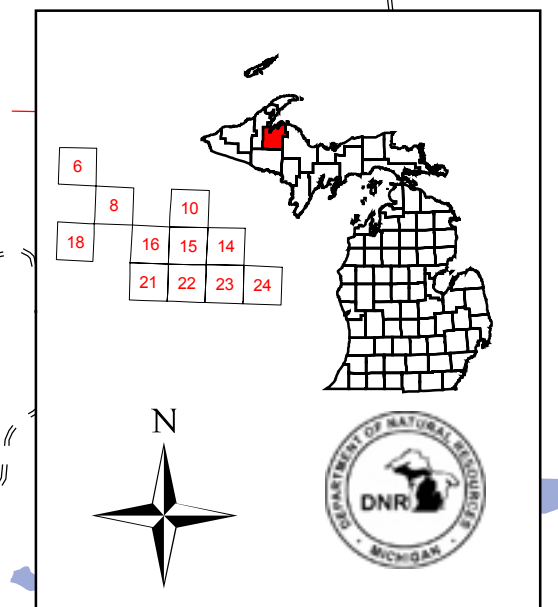
Survey Needs: Some survey work will need to be done for harvest activities.

Recreational Facilities and Opportunities: Snowmobile trail 8 crosses this compartment. It uses the powerline for most of the distance. Beaufort Lake State Forest Campground is within this compartment and gets some use from fisherman and campers.

Fire Protection: The majority of fires in the area are caused by lighting strikes. Man caused fires are rare. Suppression efforts are hampered by the rugged terrain.

Cover Type & Treatment Map

Compartment 18
 T48N, R31W, Sec. 6, 8, 10
 14-16, 18, 21-24
 County: Baraga
 Unit: Baraga
 YOE: 2010
 Acres: 2,733 GIS Calculated
 Stand Examiner: Fred Hansen
 Map Revised: 8/04/2008
 Map Phase: Draft



Stand # 23
 Stacking Density
 (412)0 - A7
 Level 3
 Level 4
 Code
 Cover Type Code

Legend

- Miris Corners
- Highways
- Paved Road
- Gravel Road
- Poor Dirt Road
- Railroads
- Trails
- Intermittent Stream/Drain
- Stream
- U.S. Highway
- Hiking Trail
- Snowmobile Trail
- Lakes

Forest Stands

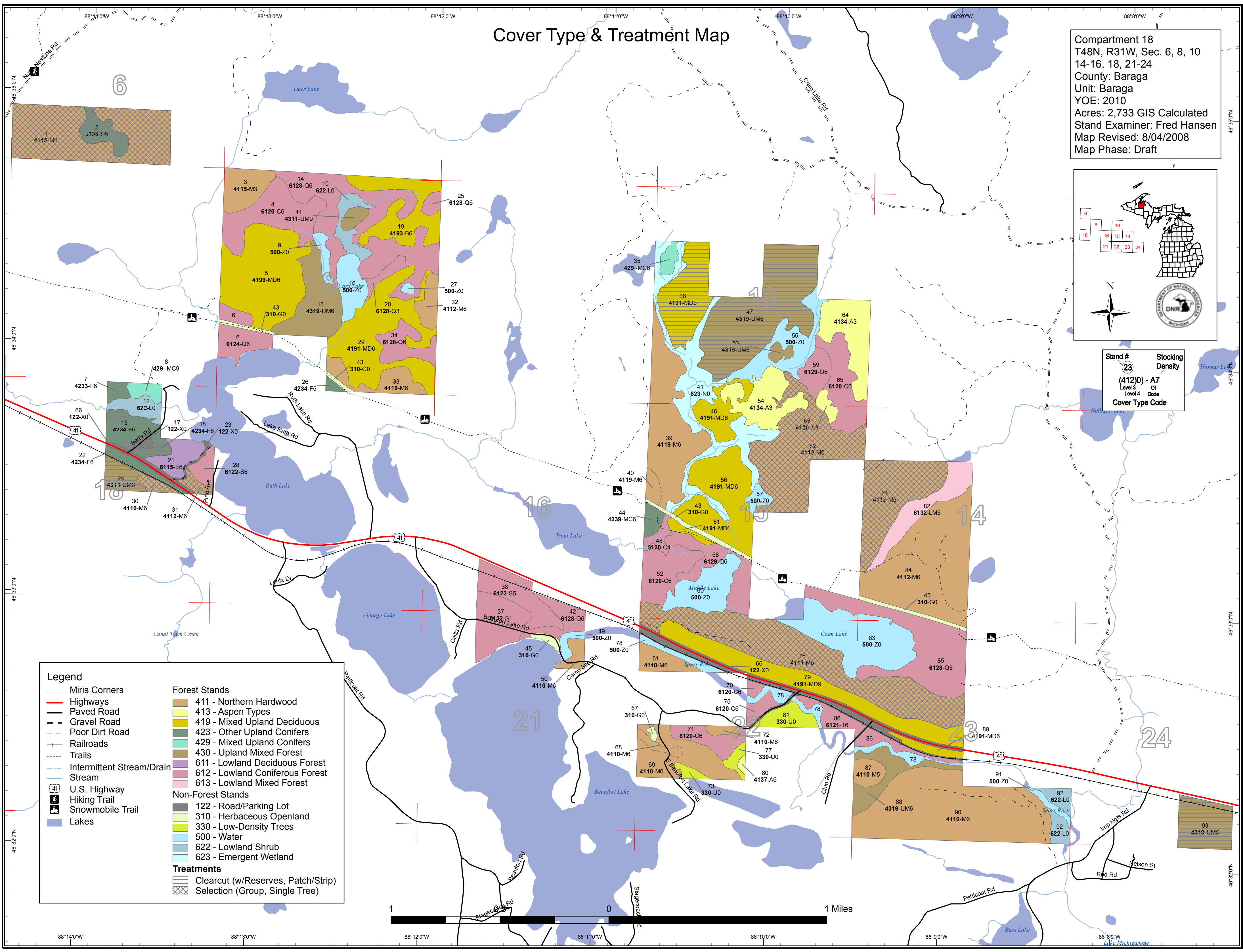
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

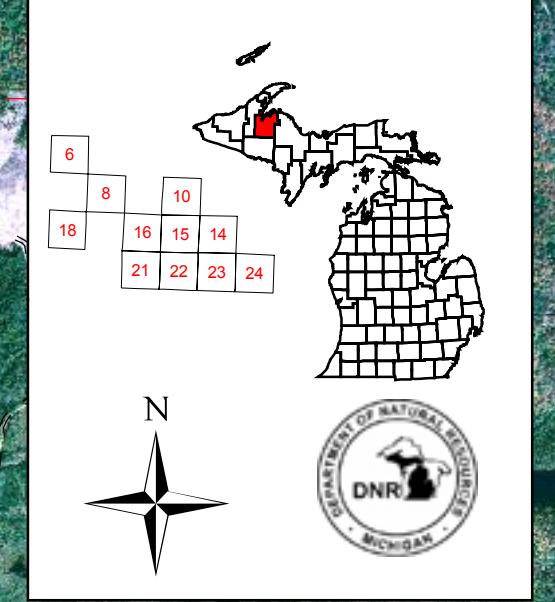
Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)



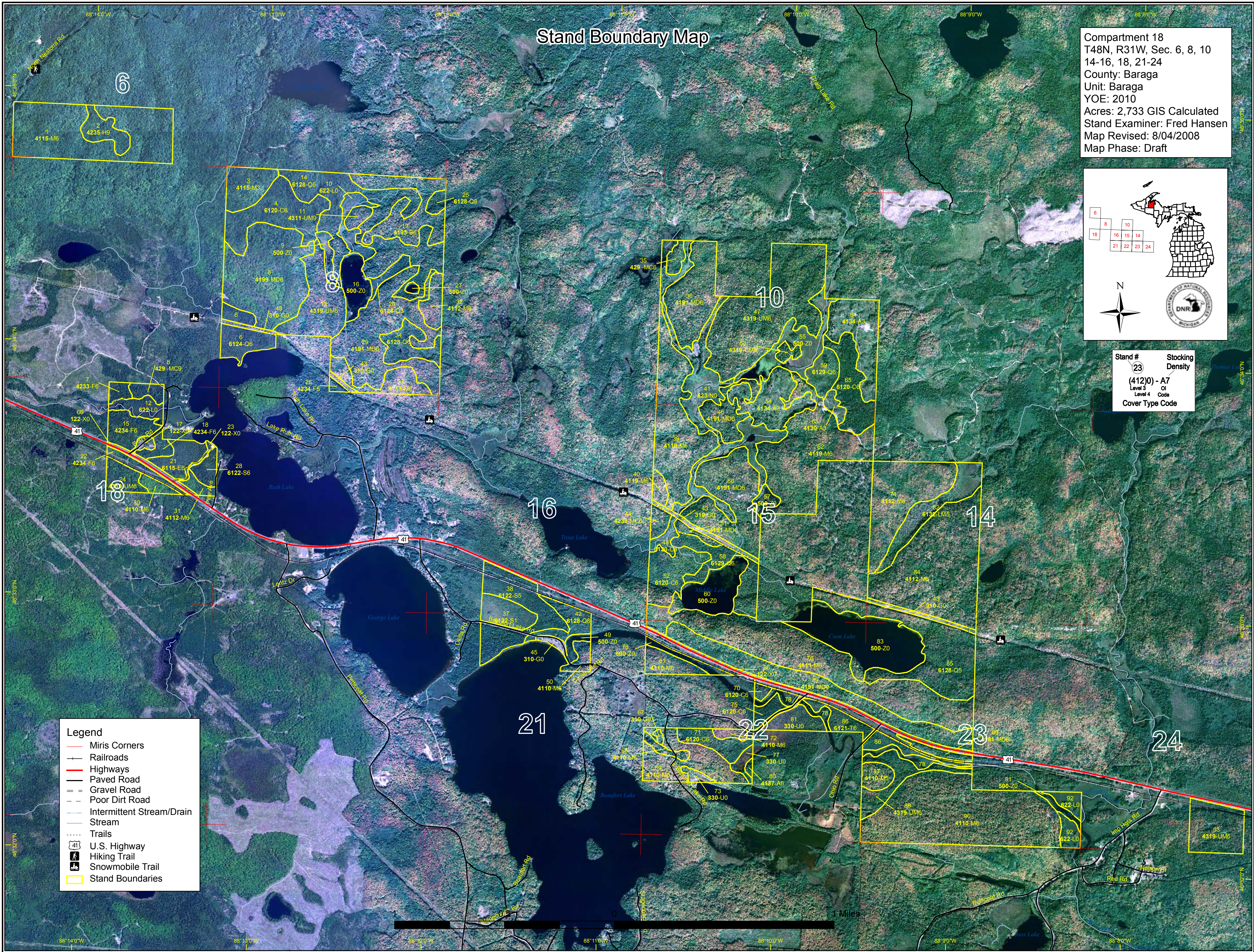
Stand Boundary Map

Compartment 18
 T48N, R31W, Sec. 6, 8, 10
 14-16, 18, 21-24
 County: Baraga
 Unit: Baraga
 YOE: 2010
 Acres: 2,733 GIS Calculated
 Stand Examiner: Fred Hansen
 Map Revised: 8/04/2008
 Map Phase: Draft



Stand #	Stocking Density
(4120) - A7	Level 3
	Level 4
	Code
	Cover Type Code

- Legend**
- Miris Corners
 - Railroads
 - Highways
 - Paved Road
 - Gravel Road
 - Poor Dirt Road
 - Intermittent Stream/Drain
 - Stream
 - Trails
 - U.S. Highway
 - Hiking Trail
 - Snowmobile Trail
 - Stand Boundaries



Baraga Mgt. Unit

Covertime, Acres, and Age summary
(Level 3 Cover Type)

Compartment 018 Year of Entry 2010

Report Date: 08/04/2008



	Age Class															Total
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen Types	0	82.5	0	0	0	0	0	0	0	0	1.3	0	0	0	0	83.9
Emergent Wetland	77.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77.3
Herbaceous Openland	21.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.4
Low-Density Trees	22.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.6
Lowland Coniferous Forest	0	0	0	0	0	0	0	29.9	80.9	11.3	247.0	112.3	0	48.5	529.9	
Lowland Deciduous Forest	0	0	0	0	0	0	0	16.4	0	0	0	0	0	0	16.4	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	31.3	31.3	
Lowland Shrub	39.5	0	0	0	0	0	0	0	0	0	0	0	0	0	39.5	
Mixed Upland Conifers	0	0	0	0	0	0	0	0	6.9	6.0	0	0	0	0	12.8	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	21.9	72.7	185.0	0	0	162.0	441.6	
Northern Hardwood	0	0	0	0	0	0	0	0	0	105.6	0	0	0	793.8	899.4	
Other Upland Conifers	0	0	0	0	5.1	0	34.0	0	0	0	6.6	0	0	17.6	63.4	
Road/Parking Lot	49.2	0	0	0	0	0	0	0	0	0	0	0	0	0	49.2	
Upland Mixed Forest	0	0	0	0	0	0	12.9	0	0	0	160.6	0	0	66.3	239.8	
Water	205.1	0	0	0	0	0	0	0	0	0	0	0	0	0	205.1	
Total	415.0	82.5	0	0	0	5.1	0	46.9	46.3	109.7	196.9	599.3	112.3	0	1119.5	2733.4



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
1 11018001-Cut	101.0	4115 - Y.Birch, Hemlock NH	High Density Pole	69	Harvest	Single Tree Selection	Y.Birch, Hemlock NH
<u>Rev Cmnt:</u> Sale area may be reduced due to steep slopes and inoperable ground.							
<u>Rev Spec:</u> Follow retention guidelines. Reserve pine, oak, cedar, and hemlock.							
<u>Next Steps:</u> Check regen within 4 years of completion of sale.							
2 11018002-Cut	15.4	42350 - Upland Hemlock	High Density Log	99	Harvest	Single Tree Selection	Upland Hemlock
<u>Rev Cmnt:</u>							
<u>Rev Spec:</u> Mark to 80-100 sq ba. Favor oak, white pine, and hemlock where present. In areas of greater than 50% hemlock the cutting of any species will be limited to access corridors and operability. Mark to increase hemlock regen. Refer to the "Complete Marker" for further marking guidelines.							
<u>Next Steps:</u> Check regen within 4 years							
15 11018015-Cut	18.2	42340 - Upland Spruce/Fir	High Density Pole	60	Harvest	Clearcut with Reserves	Upland Spruce/Fir
<u>Rev Cmnt:</u>							
<u>Rev Spec:</u> Follow retention guidelines. Reserve cedar, pine, hemlock and oak if present.							
<u>Next Steps:</u> check regen within 4 years of completion of harvest.							
18 11018018-Cut	6.9	42340 - Upland Spruce/Fir	High Density Pole	60	Harvest	Clearcut with Reserves	Upland Spruce/Fir
<u>Rev Cmnt:</u>							
<u>Rev Spec:</u> follow retention guidelines. Reserve hemlock and piine.							
<u>Next Steps:</u> Check reger withe in 4 years of harvest							
24 11018024-Cut	12.9	4319 - Mixed Upland Forest	High Density Pole	65	Harvest	Clearcut with Reserves	Mixed Upland Forest
<u>Rev Cmnt:</u>							
<u>Rev Spec:</u> Follow retention guidelines. Reserve oak, pine, hemlock and cedar.							
<u>Next Steps:</u> check regen within 4 years of harvest.							
30 11018030-Cut	5.5	4110 - Sugar Maple Association	High Density Pole	85	Harvest	Single Tree Selection	Y.Birch, Hemlock NH
<u>Rev Cmnt:</u>							
<u>Rev Spec:</u> Mark to 70-90 sq ba. Favor oak, white pine, red pine and hemlock where present. Refer to the "Complete Marker" for further marking guidelines.							
<u>Next Steps:</u> check regeneration within 4 years							



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
31 11018031-Cut	5.3	4112 - Maple, Beech, Cherry Association	High Density Pole	68	Harvest	Single Tree Selection	Maple, Beech, Cherry Association

Rev
Cmnt:

Rev Mark to 70-85 sq ba. Favor oak, white pine, cedar and hemlock where present. Refer to the "Complete Marker" for further marking guidelines.

Spec:

Next Check regen within 4 years of sale completion

Steps:

36 11018036-Cut	48.4	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	103	Harvest	Clearcut with Reserves	Mixed Southern Upland Deciduous
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Rev Sale area may be reduced due to inoperable ground.

Cmnt:

Rev Follow retention guidelines. Reserve pine, cedar, hemlock and oak if present.

Spec:

Next Check regen within 4 years of sale completion.

Steps:

47 11018047-Cut	115.5	4319 - Mixed Upland Forest	High Density Pole	106	Harvest	Clearcut with Reserves	Mixed Upland Forest
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Rev Sale area maybe reduced due to steep slopes and inoperable ground.

Cmnt:

Rev Follow retention guidelines. Reserve oak, pine, hemlock and cedar.

Spec:

Next Check regen within 4 years of sale completion

Steps:

62 11018062-Cut	96.5	4119 - Mixed Northern Hardwoods	High Density Pole	99	Harvest	Single Tree Selection	Mixed Northern Hardwoods
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Rev Sale area may me reduced due to inoperable ground

Cmnt:

Rev Mark to 70-85 sq ba. Favor oak, white pine, cedar and hemlock where present. Refer to the "Complete Marker" for further marking guidelines.

Spec:

Next Underplant with Hemlock and White Pine after harvert is completed. Check regen within 4 years of harvest completion.

Steps:

74 11018074-Cut	65.1	4112 - Maple, Beech, Cherry Association	High Density Pole	99	Harvest	Single Tree Selection	Maple, Beech, Cherry Association
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Rev Sale area may be reduced due to inoperable ground.

Cmnt:

Rev Mark to 70-85 sq ba. Favor oak, white pine, cedar and hemlock where present. Refer to the "Complete Marker" for further marking guidelines.

Spec:

Next Underplant with Hemlock and White Pine after harvert is completed. Check reger within 4 years of sale completion.

Steps:

76 11018076-Cut	134.8	4111 - S.Maple, Hard Mast Association	High Density Pole	99	Harvest	Single Tree Selection	S.Maple, Hard Mast Association
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Rev sale will be reduced due to inoperable ground.

Cmnt:

Rev Mark to 70-85 sq ba. Favor oak, white pine, cedar and hemlock where present. Refer to the "Complete Marker" for further marking guidelines.

Spec:

Next Check regen within 4 years of sale completion.

Steps:

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Baraga Mgt. Unit
Inventory Method: IFMAP

**PROPOSED TREATMENTS
NO LIMITING FACTORS**

Compartment: 018 Entry Yr: 2010
Date 08/04/2008



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
93 11018093-Cut	35.0	4319 - Mixed Upland Forest	High Density Pole	103	Harvest	Clearcut with Reserves	Mixed Upland Forest

Rev
Cmnt:

Rev Follow retention Guidelines. Reserve pine, hemlock, cedar and oak if present.

Spec:

Next Underplant with Hemlock after harvert is completed. Check regen within 4 years of sale completion.

Steps:

**Total Treatment
Acreage Proposed: 660.5**

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Baraga Mgt. Unit
Inventory Method: IFMAP

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**

Compartment: 018 Entry Yr: 2010
Date 08/04/2008



Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
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Limiting Factor
and Comment:

Rev
Cmnt:

Rev
Spec:

Next
Steps:

No Treatment
Reason

**Total Treatment
Acreage Proposed: 0**



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.

Inventory Method: IFMAP

Stand	SCA Name	Acres	Comments



DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.