



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 018 ENTRY YEAR: 2010

Compartment Acreage: 1444 County: Schoolcraft

Revision Date: Oct. 27, 2008

Stand Examiner: Kristen Matson & Robert Tylka

Legal Description: T45N, R16W sections 28, 29, 30

RMU (if applicable):

Management Goals: To manage the compartment in accordance with the principles of sustainable forest eco-system management.

Soil and Topography: Level lowlands with Carbondale, Lupton, Deford and Tawas Mucks. Higher ground with Deford-AuGres-Rubicon Complex soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The west part of the compartment borders USFS land, the rest is surrounded by state owned land and private parcels.

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

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

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: Hickey Creek and the West Branch of the Hickey Creek are found within this compartment. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations: This compartment lies in the Seney Sand Lake Plain ecological sub-subsection approximately seven miles southeast of Shingleton. Hickey Creek and the West Branch of Hickey Creek both flow through the eastern half. Lowland conifer, scrub/shrub, and northern hardwoods are the primary cover types, similar to pre-settlement land cover. Management activities will be limited by access to the compartment. Wildlife management objectives include providing early successional deciduous habitat, providing age and structurally diverse northern hardwood, maintaining buffer zones along river systems to maintain the riparian habitat and corridors, and retaining cedar and hemlock stands to provide cover and habitat for associated wildlife species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand & gravel and peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. The Trenton and

Black River are quarried for dolostone in the UP. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access: Very difficult. Access to the east portion of the compartment is from the south, across several private parcels with gates. Access to the west part of the compartment is from the north, across U.S. Forest Service land where trucking is only permitted in the winter.

Survey Needs:

Recreational Facilities and Opportunities: There are no developed recreational facilities within the compartment. The area is used for hunting.

Fire Protection: Wildfires within this compartment are very rare. In the event of a fire start, access to the eastern third of the compartment is from the south and would be a minimum of 90 minute response time. The majority of the rest of the compartment is very difficult, if not impossible to access without major road improvements or new road construction.

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

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 18

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									23										23
Black Spruce								9											9
Cedar								3	137	250									390
Hemlock								34											34
Lowlnd Brush	122																		122
Marsh	328																		328
Mx Swmp Cnfr								153	19										172
Swamp Hrdwds							12	9											21
Tamarack							1												1
Upland Hdwds																		291	291
White Pine								52		1									53
Total	450						13	260	179	251								291	1444

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

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 18

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	23																										23
S Black Spruce		9																									9
C Cedar				390																							390
H Hemlock						34																					34
L Lowlnd Brush									122																		122
N Marsh											328																328
Q Mx Swmp Cnfr												172															172
E Swamp Hrdwds																			21								21
T Tamarack																					1						1
M Upland Hdwds																								291			291
W White Pine																									53	53	
Total	23	9		390		34			122		328	172							21		1			291		53	1444

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **18**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	7179 Cds	Hardwood	936 Cds
Hardwood	210 Mbf	Hardwood	7 Mbf
Softwood	13771 Cds	Softwood	276 Cds
Softwood	527 Mbf	Sum CutVol	1226 Cds
Sum TotVol	22424 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	
1444		120	

**Proposed Treatments
With NO Limiting Factors**

Compartment: 18

Entry Year: 2010

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

SHINGLETON FOREST AREA

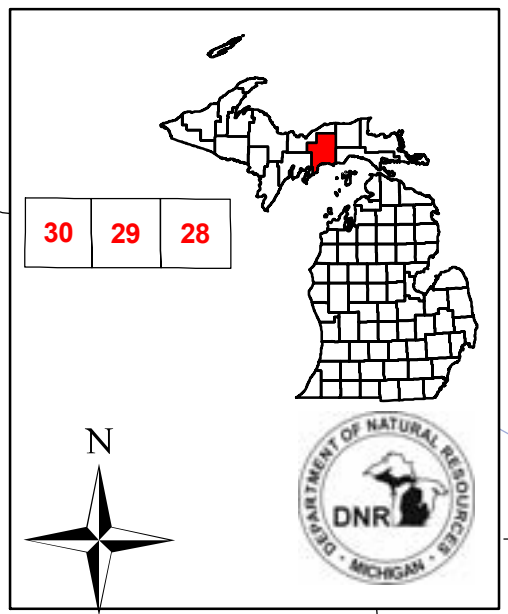
**Proposed Treatments
With Limiting Factors**

Compartment: 18

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status	
4	M6	28		50	northern hardwood	unevenaged	selection	3			
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle											
comnts Fmd : Difficult access - long drive from south across several private parcels. Low value of the wood combined with the distance and cost of operations, make this unmerchantable in current markets. If possible: select cut to apx. 70 BA. Maintain species and size diversity. Ridges within the stand; lower ground supports more conifer species. Soil=Duck-Rubicon 0-15% slopes and Deford-AuGres-Rubicon Complex, 0-15% slopes											
Wld : Agree with FMFM comments. Leave hemlock, cedar, and scattered large beech for cover and a source of hard mast.											
5	A6	20	68	62	aspen (upland)	mature	final harvest	3	natural regeneration		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle											
comnts Fmd : Large diameter aspen with other smaller trees mixed in. Stand was contained within 19 Creek G3 Timber Sale, #045-94, returned to the state without being cut due to remote location. Access is still difficult - long drive from south across several private parcels. Low value of the wood combined with the distance and cost of operations, make this unmerchantable in current markets. If able to cut: clearcut all trees except hemlock, w.pine and cedar. Cut with adjacent stands in compartment 017. Aspen is the preferred regeneration species, but a mix including species currently on site is acceptable. 98/2=b.spruce, b.fir soil=Deford-Rubicon-AuGres Complex, 0-15% slopes											
Wld : Agree with FMFM comments; leave hemlock, cedar, and white pine.											
6	M6	21		50	northern hardwood	unevenaged	selection	3			
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle Land survey needed											
comnts Fmd : Difficult access - long drive from south across several private parcels. Low value of the wood combined with the distance and cost of operations, make this unmerchantable in current markets. If possible: select cut to apx. 70-80 BA. Maintain species and size diversity. Ridges within the stand; lower ground supports more conifer species and b.ash. Adjacent to private property; property lines have not been established. 98/2=w.pine, hemlock, spruce, cedar 99/2=p.birch, aspen, beech soil=Seney-Deford-Paquin Complex, 0-6% slopes											
Wld : Agree with FMFM comments. Leave hemlock, cedar, and scattered large beech for cover and a source of hard mast.											
9	M6	48		50	northern hardwood	unevenaged	selection	3			
TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate) Land survey needed											
comnts Fmd : Sharply rolling terrain; ridges with hardwood, hemlock, w.pine and b.fir regen, lowland drainages with conifers. Very difficult access; long drive from south across several private parcels, also would need a portable bridge across Hickey Creek. Low value of the wood combined with the distance and cost of operations, make this unmerchantable in current markets. Adjacent to private land, no corners available. If possible: select cut to apx. 70-80 BA, maintaining species and size diversity. Follow BMP guidelines along Hickey Creek. 98/2=hemlock, cedar, w.spruce 99/2=y.birch, cherry, p.birch soil=Deford-AuGres-Rubicon Complex, 0-15% slopes											
Wld : Agree with FMFM comments. Leave hemlock, cedar, and some cherry to provide cover and a soft mast source for wildlife.											
27	A6	3	68	62	aspen (upland)	mature	final harvest	3	natural regeneration		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle											
comnts Fmd : Large diameter aspen with other smaller tree species mixed in. Difficult access: long drive from south across several private parcels. Low value of the wood combined with the distance and cost of operations, make this unmerchantable in current markets. If possible: cut all trees except cedar, hemlock and white pine. Aspen is the preferred regeneration species, but a mix containing other species currently on site is acceptable. Soil=Deford-Rubicon Complex, 0-15% slopes											
Wld : Agree with FMFM comments. Leave hemlock and cedar for cover.											
Total Acres.....		120									

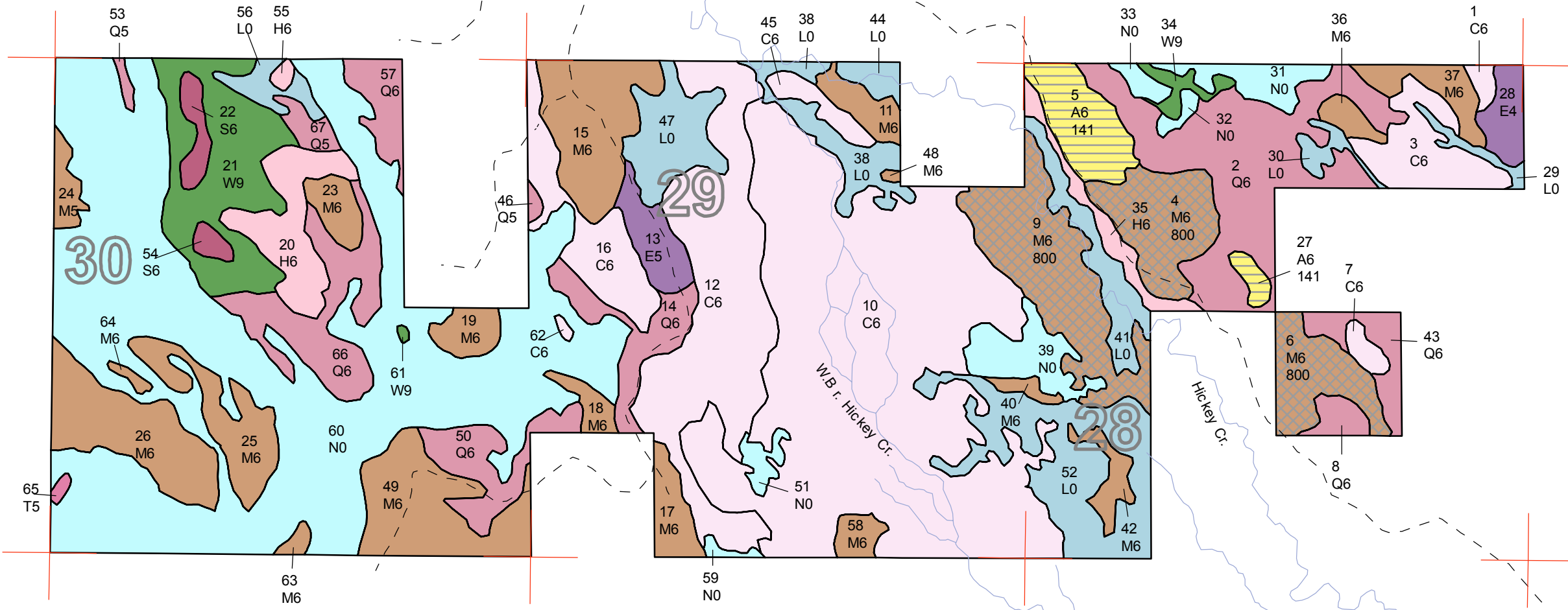
Compartment 18
 T45N, R16W, Sec. 28-30
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2010
 Acres: 1444 GIS Calculated
 Stand Examiner: Kristen Matson
 and Bob Tylka
 Map Revised: 10/29/2008
 Map Phase: Pre-Review



Covertime & Treatment Map

Legend

- Miris Corners
- - - Poor Dirt Roads
- Water Features
- Stand Boundaries
- Treatments**
- ▨ Final Harvest/Natural Regeneration/Hand Tools
- ▩ 800 - Selection
- Cover Types**
- A - Aspen
- C - Northern White Cedar
- E - Swamp Hardwoods
- H - Hemlock
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- Q - Mixed Swamp Conifers
- S - Black Spruce Swamp
- T - Tamarack
- W - White Pine



86:22:0"W 86:21:0"W 86:20:0"W 86:19:0"W 86:18:0"W

46:17:0"N

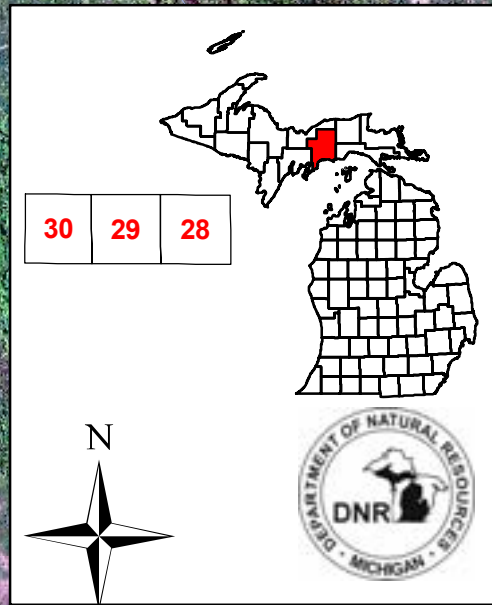
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46:17:0"N

46:16:0"N

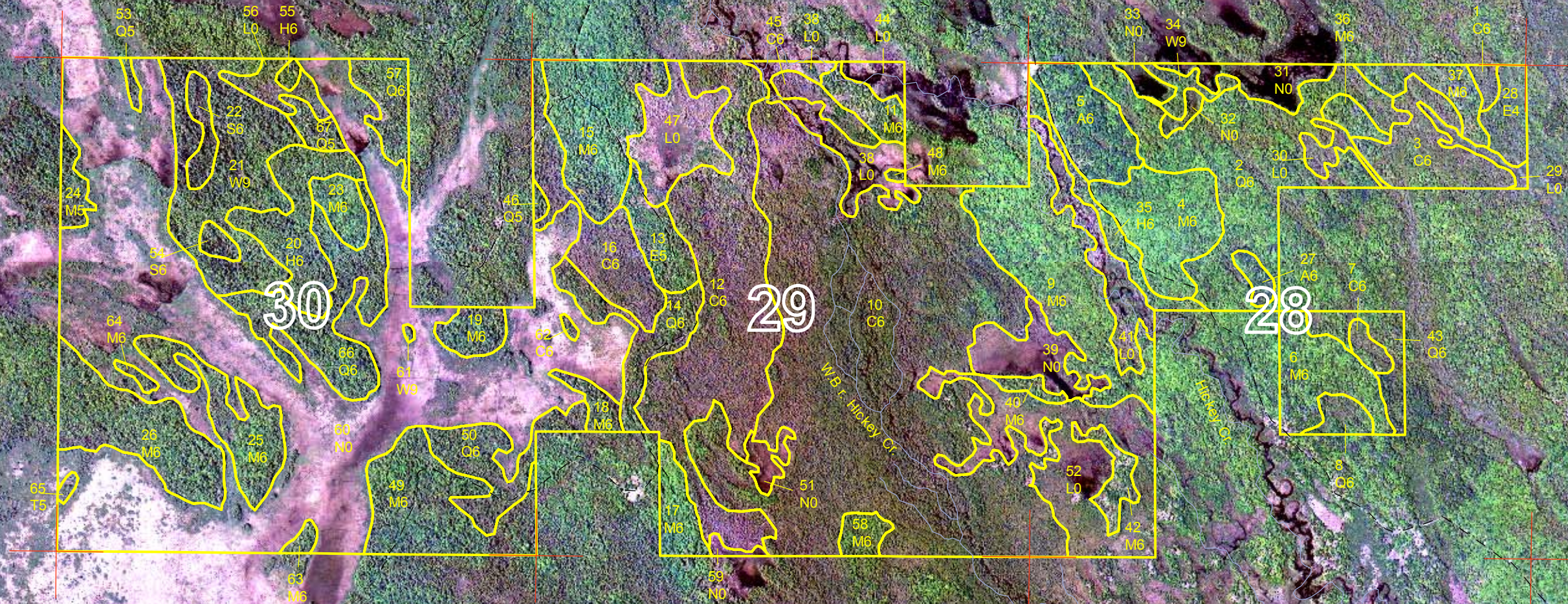
Stand Boundary Map

Compartment 18
T45N, R16W, Sec. 28-30
County: Schoolcraft
Unit: Shingleton
YOE: 2010
Acres: 1444 GIS Calculated
Stand Examiner: Kristen Matson
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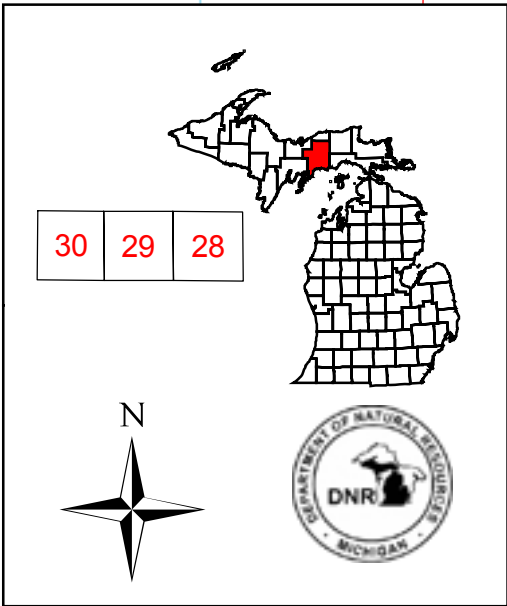


Legend

- Miris Corners
- Poor Dirt Roads
- Water Features
- Stand Boundaries

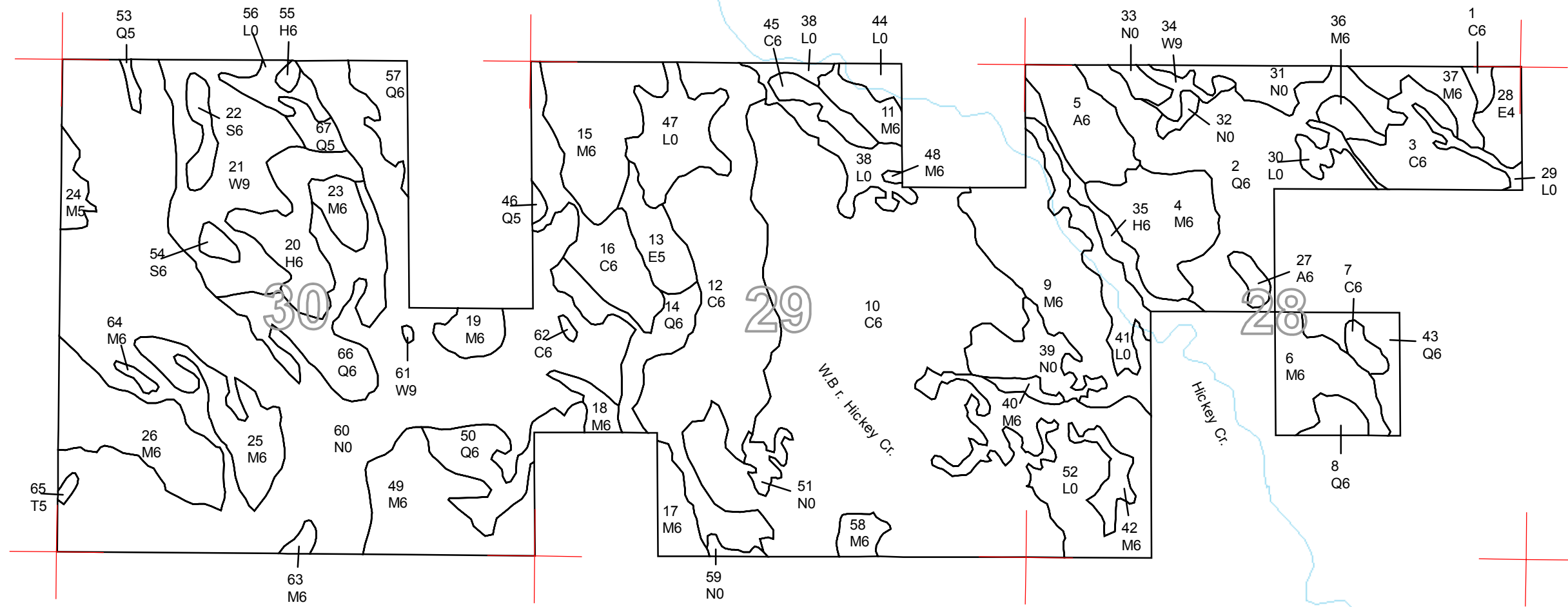


Compartment 18
 T45N, R16W, Sec. 28-30
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 Map Revised: 10/29/2008
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Dedicated & Proposed Special Conservation Area Map

- Legend
- Miris Corners
 - Stand Boundaries
 - Dedicated Special Conservation Areas
 - Old Special Conservation Areas
 - Potential Old Growth Stands
 - Cold Water Streams



86°22'0"W 86°21'0"W 86°20'0"W 86°19'0"W 86°18'0"W

46°17'0"N

46°16'0"N

46°17'0"N

46°16'0"N



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	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.