



Roscommon Forest Management Unit
Compartment Review Presentation
Compartment #145 **Entry Year: 2014**
Compartment Acreage: 1286 **County: Roscommon**

Revision Date: 1/3/2012

Stand Examiner: Dale Ekdom

Legal Description: T21N R04W Sections 1 and 2

Identified Planning Goals: Houghton Lake Wetlands Eco-Regional Management Area

Management Goals: Maintain current age and species diversity in a range of early and late succession ecosystems consistent with the fact that much of the compartment is designated as part of an Old Growth SCA.

Soil and Topography: Terrain is generally low and wet with a few higher ridges. Soils are Lupton Muck, Rifle Peat, and Saugatuck sand.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment is a solid block of state land and is surrounded by state land except for north of the compartment which is primarily residential homes on acreages or farms.

Unique, Natural Features: Wolf Creek Flooding (Wraco Lodge acquisition) just west of the compartment.

Archeological, Historical, and Cultural Features: There is a historical site east of the compartment. No other sites within the compartment are none or were detected during fieldwork

Special Management Designations or Considerations: Much of the compartment is part of an Old Growth SCA centered on the riparian corridor of Wolf Creek.

Watershed and Fisheries Considerations: East Branch of Wolf Creek bisects the compartment.

Wildlife Habitat Considerations: Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, and turkeys, and waterfowl as well as non-game species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Jurassic Ionia Formation and the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for brick making clay elsewhere in the State. Most of the good gravel pits are associated with upland areas. There are not any gravel pits nearby and potential appears to be limited. Headquarters Field is located two miles to the southeast. The field has produced over 11.3 million BO and 4.2 Bcf gas primarily from the Devonian Richfield Formation. It is in secondary recovery operations currently. All of the State land in the compartment is currently leased

Vehicle Access: Vehicle access is poor due to wet terrain.

Survey Needs: None necessary at this time.

Recreational Facilities and Opportunities: None except for dispersed recreation such as hunting.

Fire Protection: Compartment has no recent history of major fires, low incidence of wildland-urban interface, no large concentrations of high hazard fuel types, and numerous natural barriers to fire spread. It is also in close proximity to fire suppression forces. Terrain could be a problem during extended droughts.

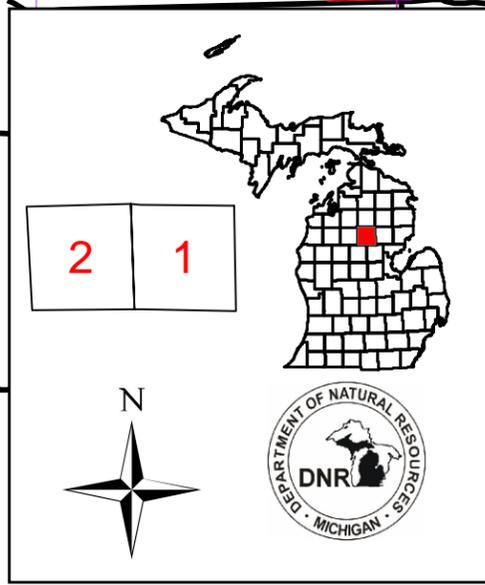
Additional Compartment Information: No treatments are proposed this YOE due to much of the compartments designation as an Old Growth SCA and the presence of immature cover types which are not in the Old Growth SCA.

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Cover Type & Treatment Map

Compartment: 145
 T21N R04W Sec. 1, 2
 County: Roscommon
 Unit: Roscommon
 YOE: 2014
 Acres: 1,286 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 08/07/2012
 Map Phase: Pre-Review



Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend

- Miris Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Stream
- Intermittent Stream
- Lakes and Rivers

Forest Stands

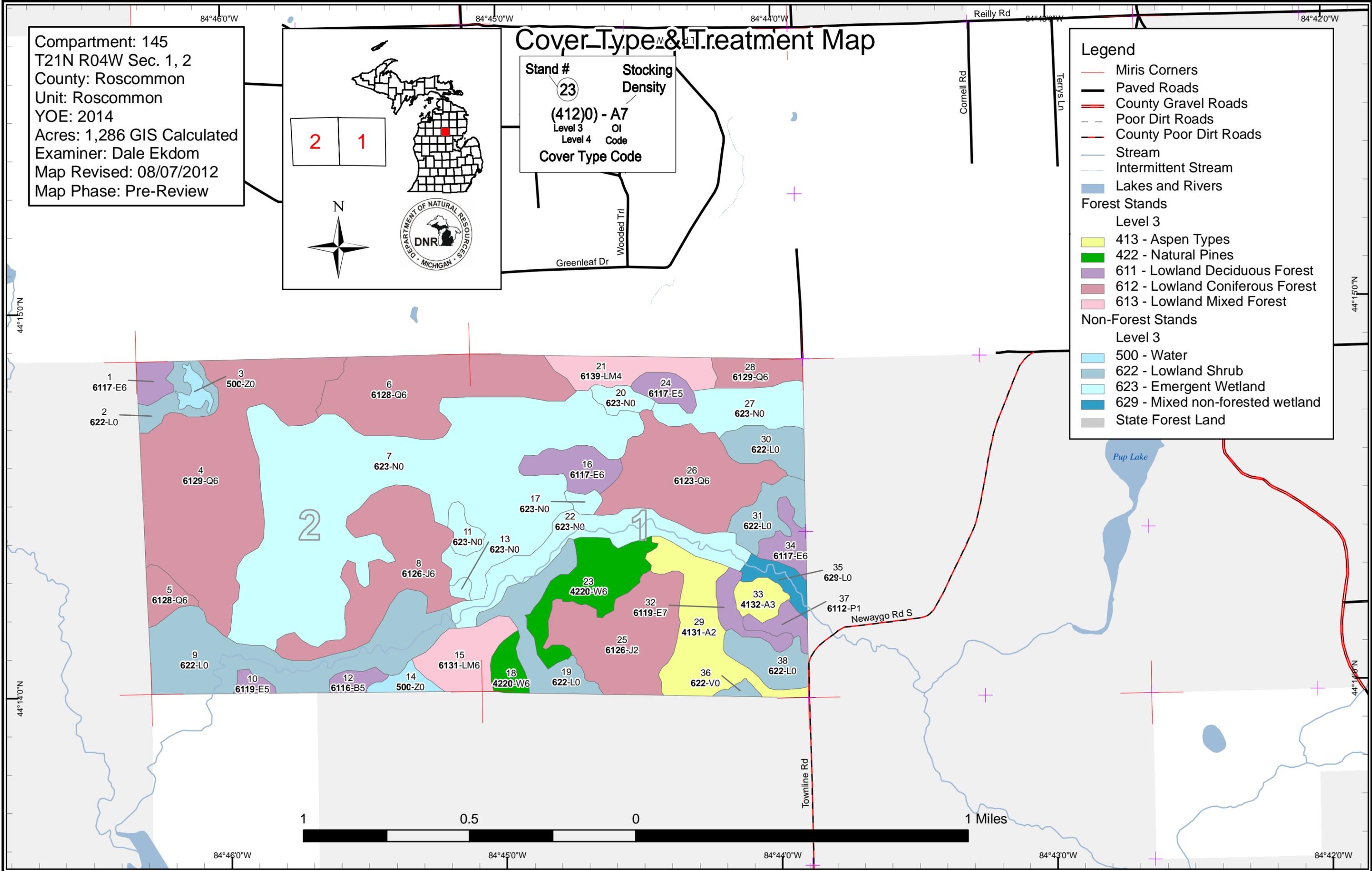
Level 3

- 413 - Aspen Types
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

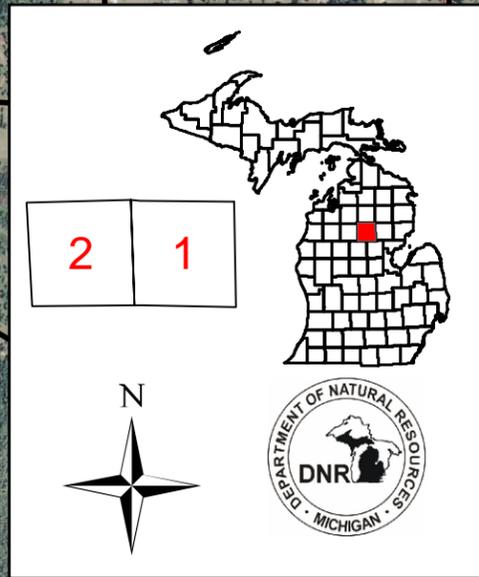
Level 3

- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- State Forest Land



84°46'0"W 84°45'0"W 84°44'0"W 84°43'0"W 84°42'0"W
 44°15'0"N 44°14'0"N 44°13'0"N

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Stand Boundary Map

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

- Legend**
- Miris Corners
 - Paved Roads
 - County Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Stream
 - Intermittent Stream
 - Stand Boundaries
- Forest Stands**
- Level 3
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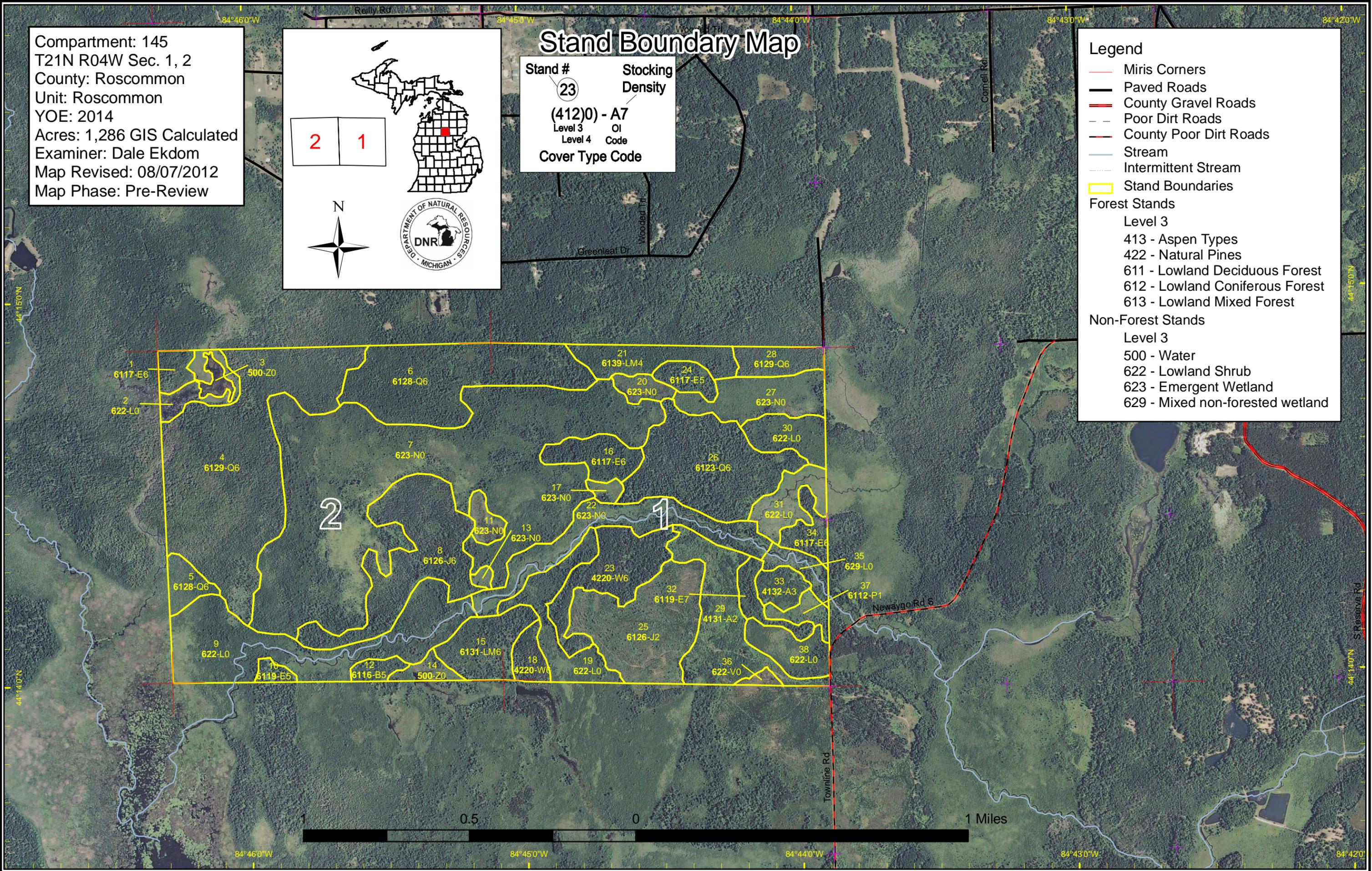


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	0	60	0	0	0	0	0	0	0	0	0	0	0	0	60
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	63	0	0	0	0	0	0	69	0	0	0	0	0	132
Lowland Aspen/Balsam Poplar	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	0	244	71	0	0	14	0	329
Lowland Deciduous	0	0	0	0	11	0	0	0	12	38	0	0	0	0	61
Lowland Mixed Forest	0	0	0	0	0	0	0	0	24	0	0	0	0	27	51
Lowland Shrub	191	0	0	0	0	0	0	0	0	0	0	0	0	0	191
Marsh	388	0	0	0	0	0	0	0	0	0	0	0	0	0	388
Paper Birch	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	46	46
Total	594	131	0	0	11	0	0	0	354	109	0	0	14	73	1286



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2014

Compartment 145
Total Compartment Acres: 1286

Acres by Treatment Type

Commercial Harvest - 0	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
	#Error	#Error	#Error	#Error	#Error	#Error	#Error
Total	#Error	#Error	#Error	#Error	#Error	#Error	#Error

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status

#Error

Prescription
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: #Error

**Total Treatment
Acreage Proposed: 0**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Error

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<u>Prescription</u> <u>Specs:</u>									
<u>Other</u> <u>Comments:</u>									
<u>Next</u> <u>Steps:</u>									
<u>Proposed</u> <u>Start Date:</u> #Error									

**Total Treatment
Acreage Proposed: 0**

Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 145	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.7	87			retain as SCA - riparian corridor - POG
4	6129 - Mixed Coniferous Lowland Forest	High Density Pole	153.5	87			SCA - riparian corridor - POG
5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	10.1	87			SCA - riparian corridor - POG
6	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	80.0	87			SCA - riparian corridor - POG
8	6126 - Lowland Jack Pine	High Density Pole	68.6	82			SCA - riparian corridor - POG
10	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	4.0	87			"island" of hardwoods surrounded by lowland brush, etc., SCA - riparian corridor - POG
12	6116 - Lowland Birch	Medium Density Pole	5.8	87			Level 4 call based on OI data from stand to the south in 71146
15	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	26.8	Uneven Age	1-50		SCA - POG, poor/no access due to free flowing stream and large wetland complex surrounding stand, WP understory is almost pole size, terrain is mix of lowland and upland, found some mention of a timber sale in 1942.
16	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	18.2	90			SCA - riparian corridor - POG
18	42200 - Natural White Pine	High Density Pole	9.3	Uneven Age	111-140		combination of upland and lowland, mostly WP poles with scattered RP poles and R/W pine SL/XL's, hardwoods declining, 3 ages of WP/2 ages of RP, SCA - POG, possibly thin at some future YOY to enhance OG characteristics
21	6139 - Mixed Lowland Forest	Low Density Pole	24.0	87			SCA - riparian corridor - POG
23	42200 - Natural White Pine	High Density Pole	37.1	Uneven Age	111-140		combination of upland and lowland, mostly WP poles with scattered RP poles and R/W pine SL/XL's, hardwoods declining, 3 ages of WP/2 ages of RP, SCA - POG, possibly thin at some future YOY to enhance OG characteristics
24	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	9.4	90			SCA - riparian corridor - POG
25	6126 - Lowland Jack Pine	Medium Density	62.9	14			stand was cut in 1996 and seeded to JP in 1998, bulk of stand is lower/wetter with leatherleaf ground cover, some wetter parts (esp. the north end) are very sparse and more treed bog OR bog, more upland areas have oak and aspen scattered in with the artif. regen. JP



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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 145
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6123 - Lowland Fir	High Density Pole	71.1	90		SCA - POG
28	6129 - Mixed Coniferous Lowland Forest	High Density Pole	14.1	122		SCA - POG
29	4131 - Aspen, Oak	Medium Density	49.9	16		more upland parts of the stand are BTA or JP/Oak, lower parts are TA/JP, south part and northwest arm are very heavy to jack pine, wettest parts of the stand are fairly sparse
32	6119 - Mixed Lowland Deciduous Forest	Low Density Log	10.3	90		very sparse black ash SL with tag alder and TA saplings in the u.s., scattered areas heavy to swamp conifers, ground is variable with upland areas interspersed among lower/wetter ground, softer soils with swamp grass ground cover in most of the stand
33	4132 - Aspen, Jack Pine	High Density Sapling	10.0	16		cut in 1996, regenerated well to A/JP
34	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	11.1	41		island of very old TA/RM/BF, stand has numerous wet potholes and runs, poor access as at least 1 drainage requiring a culvert would have to be crossed, probably wouldn't regenerate too well due to the age of the hardwoods, SCA - POG
37	6112 - Lowland Aspen	Low Density Sapling	8.0	16		poor to fair aspen regen from a 1996 cut on somewhat low ground



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	622 - Lowland Shrub	12.6	N/A	Unspecified	
3	50 - Water	4.9	N/A	Unspecified	
7	6239 - Mixed Emergent Wetland	289.8	No	Unspecified	emergent wetland with islands of deciduous trees and/or conifer trees and also areas of lowland shrub
9	6229 - Mixed lowland shrub	84.4	No	Unspecified	Floodplain of Wolf Creek
11	6230 - Cattail	7.0	N/A	Unspecified	
13	6230 - Cattail	2.1	N/A	Unspecified	
14	50 - Water	6.8	N/A	Unspecified	beaver pond
17	6230 - Cattail	3.7	N/A	Unspecified	
19	622 - Lowland Shrub	29.7	N/A	Unspecified	
20	6230 - Cattail	7.4	N/A	Unspecified	
22	6239 - Mixed Emergent Wetland	47.3	No	Unspecified	marsh grass
27	623 - Emergent Wetland	31.1	N/A	Unspecified	
30	6220 - Alder/willow	17.8	No	Unspecified	
31	6223 - Inundated Shrub Swamp	18.4	No	Unspecified	lowland shrub/water, scattered areas with lots of dead tree stubs, broad drainage leading to Wolf Creek
35	629 - Mixed non-forested wetland	9.9	No	Unspecified	floodplain of Wolf Creek, marsh grass with areas of black ash trees, edges are "L" or have thin bands of swamp conifers
36	6225 - Bog	2.6	No	Unspecified	leatherleaf bog with encroaching conifers
38	6229 - Mixed lowland shrub	18.1	No	Unspecified	lowland shrub with scattered trees

**7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments
1	Unique Site - SCA	71145001	7.7	SCA - Old Growth/Riparian Corridor
4	Unique Site - SCA	71145004	153.5	SCA - Old Growth/Riparian Corridor
5	Unique Site - SCA	71145005	10.1	SCA - Old Growth/Riparian Corridor
6	Unique Site - SCA	71145006	80.0	SCA - Old Growth/Riparian Corridor
8	Unique Site - SCA	71145008	68.6	SCA - Old Growth/Riparian Corridor/Connectivity
10	Unique Site - SCA	71145010	4.0	SCA - Old Growth/Riparian Corridor
12	Unique Site - SCA	71145012	5.8	SCA - Old Growth/Riparian Corridor
15	Unique Site - SCA	71145015	26.8	SCA - Old Growth/Riparian Corridor
16	Unique Site - SCA	71145016	18.2	SCA - Old Growth/Riparian Corridor
18	Unique Site - SCA	71145018	9.3	SCA - Old Growth
21	Unique Site - SCA	71145021	24.0	SCA - Old Growth/Riparian Corridor
23	Unique Site - SCA	71145023	37.1	SCA - Old Growth
24	Unique Site - SCA	71145024	9.4	SCA - Old Growth/Riparian Corridor
26	Unique Site - SCA	71145026	71.1	SCA - Old Growth
28	Unique Site - SCA	71145028	14.1	SCA - Old Growth/Riparian Corridor
34	Unique Site - SCA	71145034	11.1	SCA - Old Growth/Riparian Corridor

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Stand	SCA Type	SCA Name	Acres	Comments
2	Unique Site - SCA	NF_71145002	12.6	SCA - Connectivity
3	Unique Site - SCA	NF_71145003	4.9	SCA - Connectivity
7	Unique Site - SCA	NF_71145007	289.8	SCA - Riparian Corridor/Connectivity
9	Unique Site - SCA	NF_71145009	84.4	SCA - Riparian Corridor/Connectivity
11	Unique Site - SCA	NF_71145011	7.0	SCA - Connectivity
13	Unique Site - SCA	NF_71145013	2.1	SCA - Connectivity
14	Unique Site - SCA	NF_71145014	6.8	SCA - Riparian corridor/Connectivity
17	Unique Site - SCA	NF_71145017	3.7	SCA - Connectivity
19	Unique Site - SCA	NF_71145019	29.7	SCA - Riparian Corridor
20	Unique Site - SCA	NF_71145020	7.4	SCA - Riparian Corridor/connectivity
22	Unique Site - SCA	NF_71145022	47.3	SCA - riparian corridor
27	Unique Site - SCA	NF_71145027	31.1	SCA - Riparian Corridor/Connectivity
30	Unique Site - SCA	NF_71145030	17.8	SCA
31	Unique Site - SCA	NF_71145031	18.4	SCA - Riparian Corridor
35	Unique Site - SCA	NF_71145035	9.9	SCA - Riparian corridor/connectivity



8 – 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.