

# **Compartment Review Presentation**

**Gwinn Forest Management Unit** 

Compartment 49 Entry Year 2015

Acreage: 1,874
County Marguette

Management Area: Chain Lakes Moraine

Revision Date: 08/06/2013

Stand Examiner: Theresa Sysol

**Legal Description:** 

T44N R26W Section(s) 10-12

## **Identified Planning Goals:**

To maintain the health and sustainability of the forest, while providing for wildlife, fisheries, environmental and recreational needs.

## Soil and topography:

Uplands of Rubicon sand, Sayner-Rubicon, Croswell sand with lowland conifer swamps containing Carbondale and Tawas, and Tawas-Deford mucks. Some well-drained Garlic-Alcona-Voelker complex found within hardwood uplands along the Perrin Bros. Road.

#### Ownership Patterns, Development, and Land Use in and Around the Compartment:

Isolated 40 ac and 1 ac private holding(s) within central portion of compartment, otherwise State ownership. Numerous camps and private landholdings adjacent, making this a fairly high-use hunting and recreation area.

#### **Unique Natural Features:**

See MNFI comments. Potential for calypso orchid and ram's head lady's-slipper. Potential for eagle, osprey, frigga fritillary, red-shouldered hawk, goshawk and wood turtle. Potential for gray wolf.

#### Archeological, Historical, and Cultural Features:

none identified with HAL

#### **Special Management Designations or Considerations:**

Chain Lakes Moraine Management Area. Rich conifer swamp within Section 12 (See MNFI comments/abstracts)

#### Watershed and Fisheries Considerations:

Anderson Lake, Flacks Lakes, Chandler Brook and Miller Creek all fall within the compartment.

#### Wildlife Habitat Considerations:

Compartment 49 is found within the Chain Lakes Management Area; which is a Disintegration Moraine in Southwestern Marquette County. The State Forest covers about 84,600 acres and is mostly contiguous. State Forest Lands are the major ownership in this vicinity. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. Major forest cover types include Aspen, Mixed Lowland Conifer, and Jack Pine. In general, this area has a mid-range site quality. This management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. Some of the most significant wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; course woody debris; and retention or development of large living and dead standing trees (for cavities). Wildlife Division would like to increase the oak resource within this management area and to optimize acorn production. This management area represents approximately ¼ of the oak resource on WUP state forest. In addition to promoting mast crops another priority is to maintain or increase wildlife corridors especially along riparian corridors.

The following have been identified as featured species for the Chain Lakes Management Area: Black bear, Gray Jay, Pileated Woodpecker, Northern Goshawk, Red Crossbill. However, the featured species concept does not preclude the management for other wildlife species within a particular MA, rather it is simply intended to be as a tool to help prioritize or focus habitat management.

For lands purchased with Pittman–Robertson Act or Game and Fish funds, the primary objective of vegetative management must be wildlife restoration.

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

Surface sediments consist of medium-textured glacial till, and minor amounts of peat and muck and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 100 and 200 feet. The Cambrian Trempealeau Formation and Munising Group subcrop below the glacial drift. The Trempealeau could be used for stone. Gravel pits are located two miles to the northeast, and there should be some potential on the uplands. Abandoned iron mines are located four miles to the northeast. This compartment has not been leased, but leases for metallic exploration were located in the Township to the south. There is no economic oil and gas production in the UP.

#### **Vehicle Access:**

The Perrin Bros. Road, a county maintained good gravel seasonal road bisects the compartment, with only a few closed two-track roads providing additional access. The Miller Creek Road, a State maintained Road, provides access to the NW portion of the compartment. This road receives heavy year-round traffic, and is in need of maintenance. Access on the east is via the Anderson Lake SFCG Road.

#### **Survey Needs:**

None at this time.

## **Recreational Facilities and Opportunities:**

Anderson Lake and Flacks Lakes trails, Anderson Lake State Forest Campground and boat access site. A State-sponsored snowmobile trail (Trail #33) utilizes both the Perrin Bros.and Miller Creek Roads during the winter months. Heavy hunting use.

#### **Fire Protection:**

Fire response time will be around 1/2 hour, with control efforts requiring around the same amount of time if located on upland grounds. Lowland ground fires would require additional control time and alternate suppression tactics.

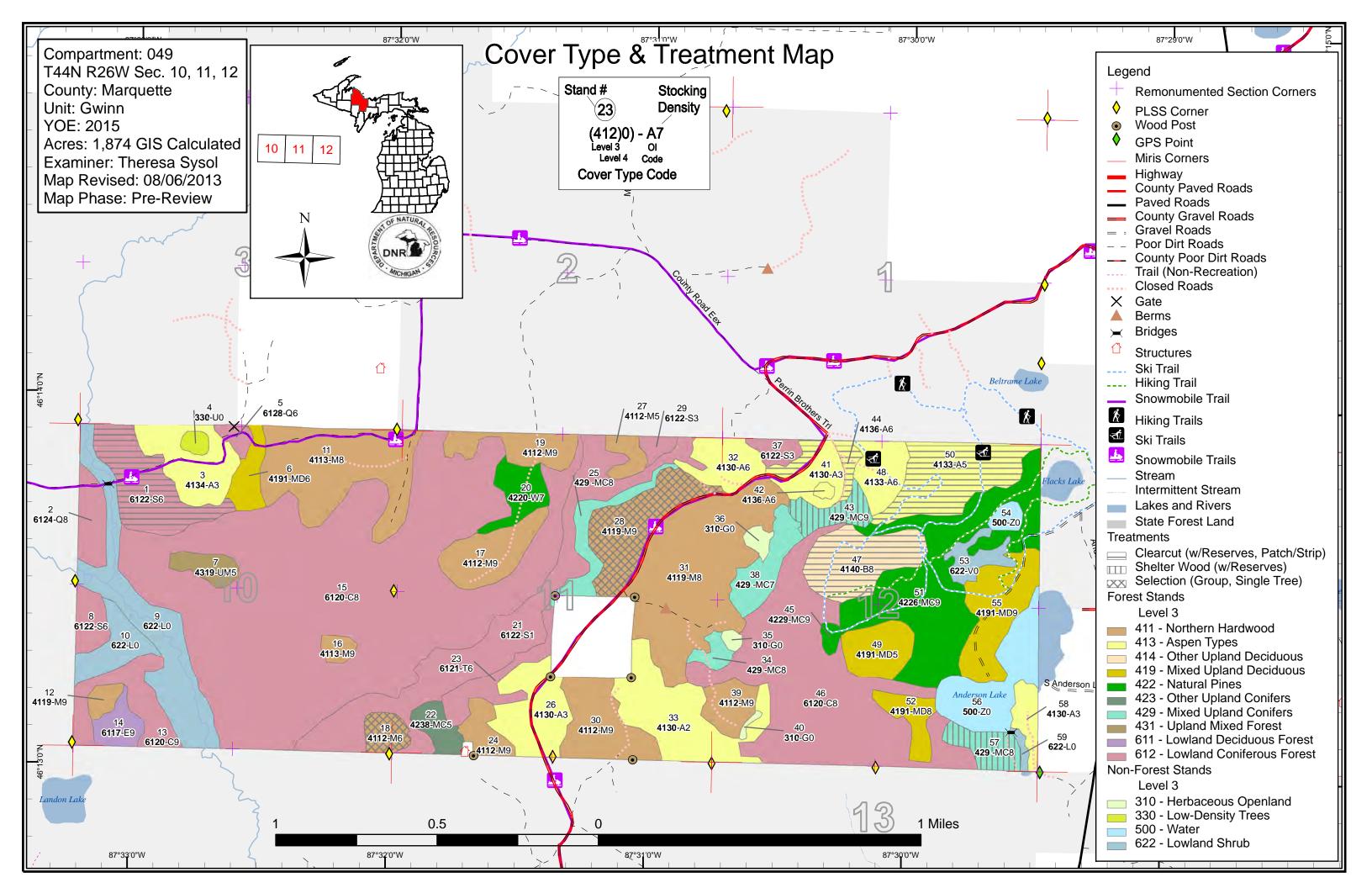
## **Additional Compartment Information:**

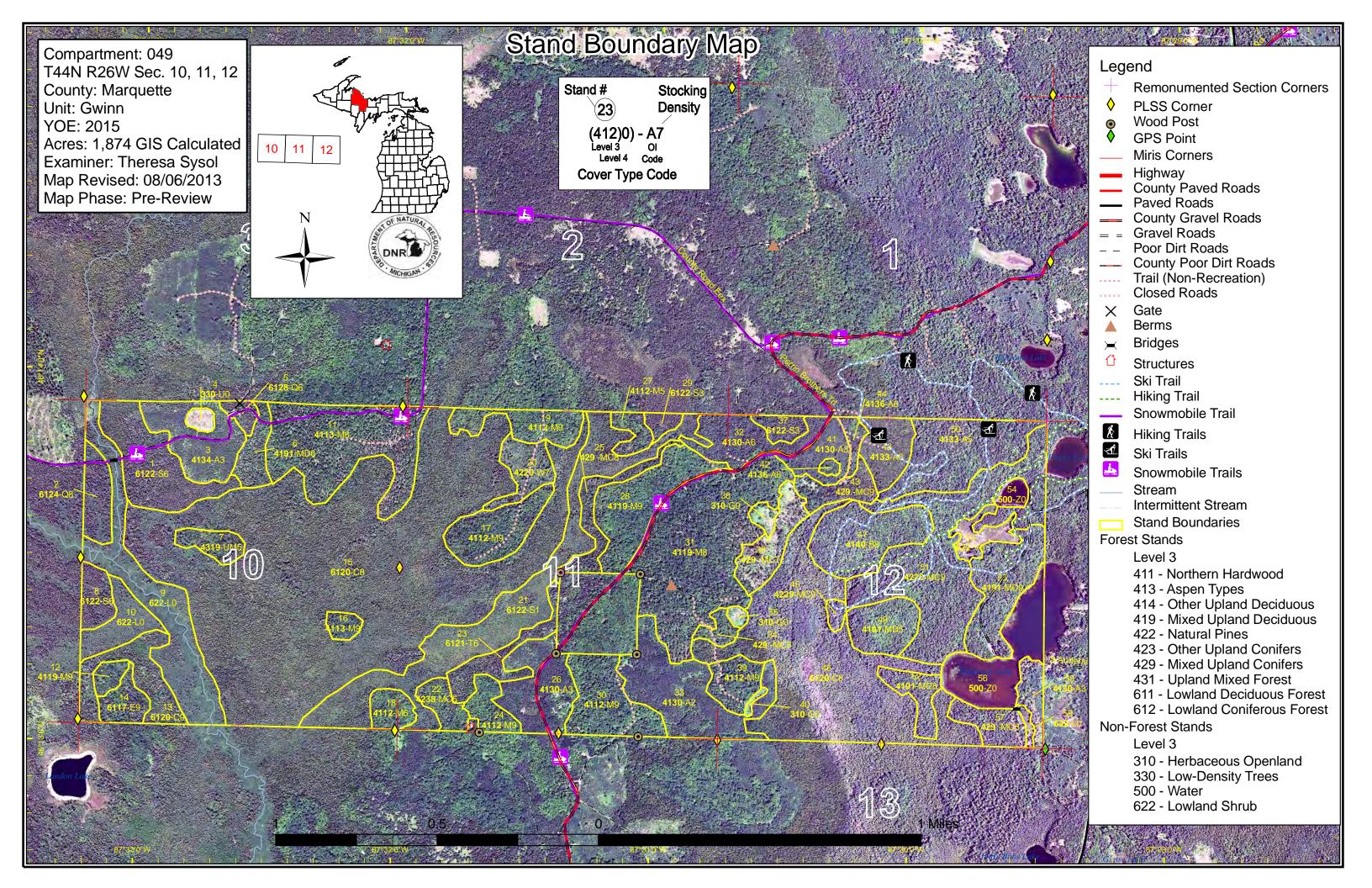
The following reports from the Inventory are attached:

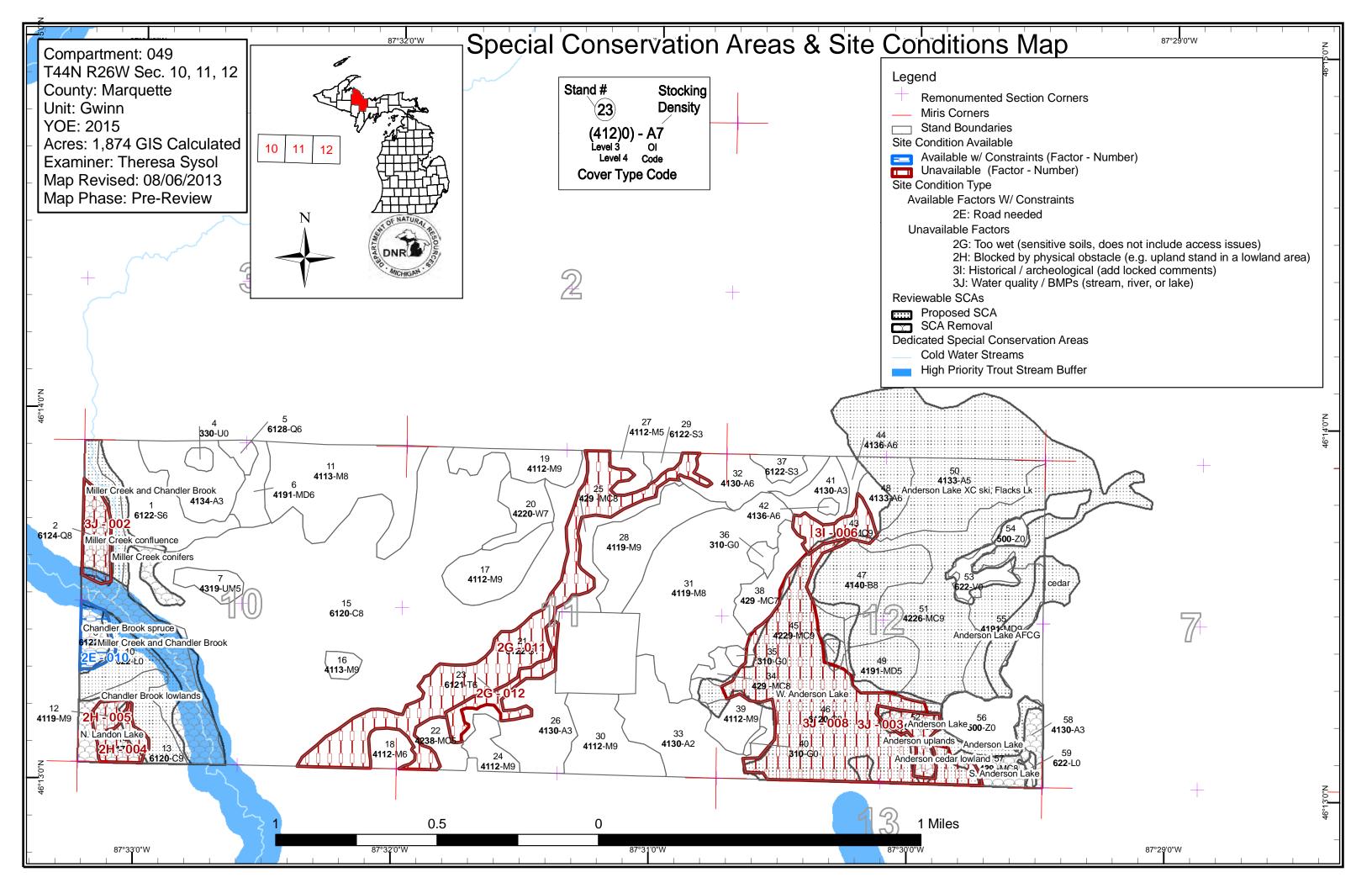
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system







Theresa Sysol : Examiner



						Age (	Class									
		6,0	70,70	Ser /	No. No.	Dr. Co.	S. S	800	Ta La	8 8 8	88	00,00	70,70	No. No.	St. V	, do
Aspen	0	56	87	49	0	0	0	47	2	0	0	0	0	0	240	
Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
Cedar	0	0	0	0	0	0	0	0	0	150	0	0	450	0	600	
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Lowland Conifers	0	0	0	0	0	0	0	5	0	15	0	0	0	0	20	
Lowland Deciduous	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11	
Lowland Shrub	81	0	0	0	0	0	0	0	0	0	0	0	0	0	81	
Lowland Spruce/Fir	0	0	0	7	0	0	0	0	95	57	0	0	0	0	159	
Mixed Upland Deciduous	0	0	0	0	0	0	0	21	50	0	0	0	0	12	83	
Natural Mixed Pines	0	0	0	0	0	0	0	3	98	0	0	0	0	0	101	
Northern Hardwood	0	0	0	0	0	0	0	0	8	326	0	0	0	20	354	
Paper Birch	0	0	0	0	0	0	0	38	0	0	0	0	0	0	38	
Tamarack	0	0	0	0	0	0	0	0	0	18	0	0	0	0	18	
Upland Conifers	0	0	0	0	0	0	0	0	14	10	19	0	0	35	79	
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10	
Water	43	0	0	0	0	0	0	0	0	0	0	0	0	0	43	
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	
Total	145	56	87	55	0	0	0	114	278	586	19	0	450	82	1874	



# **Report 2 – Proposed Treatment Summaries**

# Gwinn Mgt. Unit Year of Entry 2015

Compartment 049
Total Compartment Acres: 1,874

## **Acres by Treatment Type**

Commercial Harvest - 214 Tree

Tree Planting - 0

Other - 0

Habitat Cut - 0

Opening Maintenance - 0

			Cov	er Typ	oe by F	larves	st Meth	od	
		/.	Cigar Cit	10 in	N. S. S.	Street A	OKC OKC		Se proposition of the second o
Aspen Types		58	0	0	0	0	0	58	
Lowland Coniferous Forest		42	0	0	0	0	0	42	
Mixed Upland Conifers		0	0	0	28	0	0	28	
Northern Hardwood		0	49	0	0	0	0	49	
Other Upland Deciduous		38	0	0	0	0	0	38	
	Total	138	49	0	28	0	0	214	

## Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 049 Year of Entry 2015

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	32049001-Cut	41.8	6122 - Black Spruce	High Density Pole	91	81-110	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Cut all merchantable black spruce, tamarack. Leave all cedar, white pine.

Specs

Other Will need to be winter cut, which will conflict with snowmobile trail use. Minimize time period of harvest, so trail is not plowed all winter long. Comments: Leave a 4" snow base on road/trail as part of cutting specs. Miller Creek road is also in need of repairs. Retain riparian buffer along Miller

Creek, which can also provide spruce seed source, as well as some spruce, tamarack around/near white pine, which will be left (clumps of 15+

trees preferred). Evaluate and leave windfirm white spruce, if present.

Next

Monitor for successful regeneration of spruce and/or other mixed lowland species.

Steps:

Proposed

10/01/2014 Start Date:

18 32049018-Cut 9.7 4112 - Maple, High 95 81-110 Harvest Single Tree 4112 - Maple, Cmpt. Review Beech, Cherry Density Selection Beech, Cherry Proposal Association Pole Association

Prescription Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Maintain stand diversity, and leave wildlife trees. Leave

Specs: all hemlock, and mark white spruce to cut, if needed. If healthy and available, retain black cherry and yellow birch.

Other Low quality red maple stand fringed with conifers - difficult access for volume of wood involved (see Stage 1 mgmt comments). Cull yellow birch,

and cherry is dying. Try and negotiate sale. Comments:

**Next** Monitor for adequate regeneration prior to next harvest.

Steps:

Proposed

10/01/2014 Start Date:

32049028-Cut 39.7 4119 - Mixed High 111-140 Harvest Single Tree 4119 - Mixed Cmpt. Review Northern Hardwoods Density Log Selection Northern Hardwoods Proposal

Prescription Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target BA = 70-90. Create canopy gaps, where

appropriate to establish regeneration, and maintain stand diversity throughout. Leave obvious wildlife trees. Leave all cedar, hemlock and Specs:

smaller conifers. Remove at risk white spruce (mark), if necessary, but retain as much as possible (crossbill).

Lower quality hardwoods - may need to thin a little heavier. Marking/cruising test plot area - do not maintain. <u>Other</u>

Comments:

**Next** Monitor for successful regeneration of northern hardwoods, per work instructions.

Steps:

<u>Proposed</u>

Start Date: 10/01/2014

32 32049032-Cut 5.5 4130 - Aspen High 31 Harvest Clearcut 4130 - Aspen Cmpt. Review Density Proposal

Prescription Cut older portion of stand along Perrin Bros Road, due to declining health. Leave roadside maple, cherry and healthy paper birch (some will

Pole

need to be harvested - mark to cut or leave). Leave white pine and windfirm white spruce.

Specs:

Other Combine as sale with adjacent stand for marketability.

Comments:

<u>Next</u> Monitor for regeneration.

Steps:

Proposed 10/01/2014 Start Date:

## Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 049 Year of Entry 2015

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a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	32049043-Cut	13.3	429 - Mixed Upland Conifers	High Density Log	94 I	51-80	Harvest	Shelterwood	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Remove merchantable aspen, maple, PB, balsam fir and spruce, leaving red and white pine and some windfirm white spruce. Avoid wetland

Specs: portions of stand.

Other Prepare with adjacent stand for marketability. See Stage 1 mgmt notes.

Comments:

<u>Next</u> Monitor for regeneration. Mixed species are acceptable.

Steps:

S

<u>Proposed</u>

Start Date: 10/01/2014

4136 - Aspen, 32049044-Cut 5.0 High 81-110 Harvest Clearcut with 4136 - Aspen, Cmpt. Review Mixed Conifer Mixed Conifer Density Reserves Proposal

Prescription Small wedge of timber with blowdown occurring. Remove all quaking aspen, balsam fir. Retain bigtooth aspen (for goshawk potential).

Specs:

<u>Other</u> Avoid areas that grade into more lowland types - drainage. Treat with adjacent stand 43, if possible.

Comments:

Next

Monitor for successful regeneration.

Steps:

Proposed

10/01/2014 Start Date:

32049047-Cut 38.2 4140 - Other Medium 79 Harvest Clearcut with 4137 - Aspen, Birch Cmpt. Review 47 Upland Deciduous Density Log Reserves Proposal

Prescription Harvest all aspen, balsam fir, red maple and most paper birch, spruce. Leave some paper birch (larger, healthy trees), white spruce (windfirm)

for seed and diversity, esp. along cross-country ski trail influence. Leave any hemlock, cedar, if present, and all white and red pine. Specs:

SCA - Recreation influence - Anderson Lake X-C ski trail, Flacks Lake Interpretative trail. Harvest during the summer months so as not to Other Property

Comments: conflict with ski trail activities. Early set-up with 2014 YOE compartment to the north, due to access.

Next Monitor for successful regeneration of aspen, birch and a component of mixed conifers is acceptable.

Steps:

<u>Proposed</u>

10/01/2013 Start Date:

50 32049050-Cut 47.1 4133 - Aspen. Medium 74 51-80 Harvest Clearcut with 4133 - Aspen. Cmpt. Review Mixed Pine Density Reserves Mixed Pine Proposal Pole

Prescription Cut most aspen, birch, red maple, leaving retention groups (15+ trees) around pine concentrations - can try using leave tree specs to accomplish

(vs. marking leave trees). Leave all red and white pine, and hemlock. Protect WP regeneration (5 - 20' hts noted) as much as possible Specs:

throughout. Protect trail integrity.

SCA - recreational influence - Anderson Lake X-C ski trail. Should treat with C. 48 (2014 POW) stand 45 to north to lessen the overall long-term Other

Comments: trail impact and provide harvest access via north (Perrin Bros. Rd).

Next Monitor for adequate regeneration of aspen, birch - a component of mixed conifers is acceptable also.

Steps:

**Proposed** 

10/01/2013 Start Date:

# Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 049 Year of Entry 2015

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a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
57	32049057-Cut	14.2	429 - Mixed Upland Conifers	Medium Density Log	84	51-80	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

<u>Prescription</u> Remove aspen, paper birch, red maple, spruce, balsam fir. Some windfirm white spruce and paper birch can be left for seed source and

Specs: diversity.

Other SCA - Recreation influence - Anderson Lake, boardwalk trail around lake. Treat with compartment 50 to the south, when prescribed, protecting

Comments: trail integrity and lake riparian zone.

Next Monitor for adequate regeneration of aspen, birch, maple and mixed conifers.

Steps:

S

Proposed

Start Date: 10/01/2016

Total Treatment

Acreage Proposed: 214.5

Gwinn Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 049 a Limiting Factor s Year of Entry 2015 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Method Objective Status Name Density Age Range Type #Type! **Prescription** Specs: Other Comment: **Next** Steps: Proposed

Total Treatment
Acreage Proposed:

0

#Type!

Start Date: # Limiting Factor

Data updated yesterday after 6:00 PM

**DOHMN** 

# **Report 5 – Site Conditions**

Gwinn Mgt. Unit

Theresa Sysol: Examiner

Compartment 049 Year of Entry 2015

Availa	ability for I	Management							
Total	Acres	Acres		omina	nt Site	e Con	dition	s	
Acres	Available	Not Available		No	3J	31	2H	2G	2E
240	240		Aspen	240					
600	462	138	Cedar	462	138				
20	5	15	Lowland Conifers	5	15				
11		11	Lowland Deciduous				11		
159	64	95	Lowland Spruce/Fir	53				95	11
83	70	13	Mixed Upland Deciduous	70	13				
101	101	0	Natural Mixed Pines	101	0				
353	348	5	Northern Hardwood	348			5		
38	38		Paper Birch	38					
18	3	14	Tamarack	3				14	
78	65	14	Upland Conifers	65	0	13			
10	10		Upland Mixed Forest	10					
16	16		White Pine	16					
1,728	1,422	306	Total Forested Acres	1,411	166	13	16	109	11
	82%	18%	Relative Percent						

\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Not Available 3J: Water quality / BMPs (stream, river, or lake)  Comments:  Not Available 3J: Water quality / BMPs (stream, river, or lake)  13 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)  2E: Road needed	(stream, river, or lake)  Comments:  Not Available 3J: Water quality / BMPs (stream, river, or lake)  13 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)  2E: Road needed		Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003 Not Available 3J: Water quality / BMPs 13 2H: Blocked by physical 2E: Road needed (stream, river, or lake) obstacle (e.g. upland	Not Available 3J: Water quality / BMPs 13 2H: Blocked by physical 2E: Road needed (stream, river, or lake) obstacle (e.g. upland stand in a lowland area)	002	Not Available		15				
(stream, river, or lake) obstacle (e.g. upland	(stream, river, or lake) obstacle (e.g. upland stand in a lowland area)	(	Comments:						
	comments:	003	Not Available		13	obstacle (e.g. upland	2E: Road needed		
Comments:		(	Comments:						

# Report 5 – Site Conditions

Gwinn Mgt. Unit
Theresa Sysol: Examiner

Compartment 049 Year of Entry 2015

004	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	2E: Road needed
С	comments:			
005	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	2E: Road needed
C	comments:			
800	Not Available	3J: Water quality / BMPs (stream, river, or lake)	139	1C: Other dept or div proc/practices
С	comments:			
010	Available	2E: Road needed	11	
	comments:	t compartment.		
011	Not Available	2G: Too wet (sensitive soils, does not include access issues)	95	
C	comments:			
012	Not Available	2G: Too wet (sensitive soils, does not include access issues)	14	
С	comments:			

Compartment: 049
Year of Entry: 2015



## Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Anderson Lake Comments hiking trail along lakeshore	Visual Management Area	Recreational/Scenic Value Area	SCA	0.9
Comments	Habitat Areas or Corridors	Other Habitat Area	SCA	2.7
Anderson Lake Comments Visual along Anderson Lake;	Visual Management Area	Recreational/Scenic Value Area	SCA	5.7
cedar Comments SCA - maintain wildlife therm	Habitat Areas or Corridors hal cover and RMZ for Anderson La	Other Habitat Area	SCA	7.7
Anderson cedar lowland Comments also contains lakeshore trail	Habitat Areas or Corridors	Habitat Corridor	SCA	9.8
Anderson Lake AFCG Comments also includes boat launch an	Concentrated Recreation Area	State Forest Campground	SCA	15.7
Miller Creek and Chandler Brook Comments Continuation of SCA which s	Spring-Seeps, Riparian Areas	Riparian Area ter lakes, streams layer	SCA	18.5
Chandler Brook lowlands Comments corridor south to Landon Lak	Habitat Areas or Corridors	Habitat Corridor	SCA	50.2
W. Anderson Lake Comments rich conifer swamp with drain	Habitat Areas or Corridors	Other Habitat Area	SCA	146.4
Anderson Lake XC ski, Flacks Lk Comments also includes hiking trail alon	Visual Management Area	Recreational/Scenic Value Area	SCA	330.0

Compartment: 049
Year of Entry: 2015



## Report 6 - 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Miller Creek conifers Comments	Potential Old Growth		SCA Removal	7.9
Chandler Brook spruce Comments possible treatment with adjace	Potential Old Growth		SCA Removal	9.5
Anderson uplands Comments BMP's and visual management	Potential Old Growth ent guidelines would apply		SCA Removal	13.3
Miller Creek confluence Comments protect watershed through BI	Potential Old Growth MP's		SCA Removal	14.9
S. Anderson Lake Comments Visual /BMP guidelines along	Visual Management Area g Anderson Lake would still apply	Recreational/Scenic Value Area	SCA Removal	18.5
N. Landon Lake  Comments  near Landon Lake - follow BN	Potential Old Growth		SCA Removal	20.0
Miller Creek and Chandler Brook Comments SCA is covered by static cold	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	45.1

Compartment: 049
Year of Entry 2015



# Report 7 - 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.

Conservatio Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical r sites of cultural and historical significance that may occur upon to bottomlands. They include thousands of Native American settlen and British outposts, nineteenth century logging camps, mines at the Great Lakes, there are shipwrecks and other remains docum be identified by Natural heritage data from the State Historic Prethis compartment will be implemented in such a manner as to mathe sensitive nature of this information, no further detail about local	errestrial areas and Great Lakes nents and burial sites, as well as French and homesteads. Beneath the waters of enting the maritime trade. Such sites may servation Office. Proposed treatments in aintain the integrity of these sites. Due to
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effects as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well

S t	Gwinn Mgt. Unit			Report 8 –	Forested	Stands Compartment: 049 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6122 - Black Spruce	High Density Pole	41.8	91	81-110	Some higher ground, but mainly low; perched roots, blowdown. Ground cover of sphagnum, bunchberry, snowberry, lab tea noted. Oversized white pine with dead tops; some cavity trees. Trace amounts of red maple, paper birch and quaking aspen.
2	6124 - Lowland Spruce- Fir	Medium Density Log	15.1	91		Small strip of timber between Miller Creek and Chandler Brook.  Trace amount of cherry, paper birch. Ground cover of sphagnum, snowberry, bunchberry, lab tea.
3	4134 - Aspen, Spruce/Fir	High Density Sapling	31.7	13		"Miller Creek Bridge Aspen" sale #012-95 - cut Oct-Nov, 1998. Ground cover of blackberry, bracken fern, club moss noted.
5	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	5.0	74		Some dead/dying tops on white pine. Trace amount of hemlock, cedar within. Ground cover of sphagnum, lab tea (mediumheavy density).
6	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	12.1	Uneven Age	1-50	Hardwood stand with thick spruce/fir understory; residual hemlock and white spruce. Cut 1980. Ground cover of princess pine, club moss.
7	4319 - Mixed Upland Forest	Medium Density Pole	9.9	92		
8	6122 - Black Spruce	High Density Pole	11.3	92		Ground cover noted of sphagnum, lab tea, tagalder.
11	4113 - R.Maple, Conifer	Medium Density Log	72.8	94	81-110	Cut in 1980 and also as t. sale #001-05 "Miller Creek South" - select cut Fall, 2009. Not much new regeneration noted yet. Ground cover includes club moss, raspberry, princess pine.
12	4119 - Mixed Northern Hardwoods	High Density Log	5.4	90	111-140	Isolated island of low quality hardwoods - difficult access.
13	6120 - Lowland Cedar	High Density Log	26.6	122	81-110	Some lower stocked areas within. Cedar measured up to 17" dbh. Hardwood and W. Spruce mainly along more upland edges.
14	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	11.1	85		Difficult access to stand.
15	6120 - Lowland Cedar	Medium Density Log	423.5	134	51-80	Thicker spruce/fir along transition edges, dropping into lower tagalder areas with cedar, white pine and spruce. Historic evidence of cedar cutting. High water table - perched roots. Sphagnum, lab tea, club moss ground cover.
16	4113 - R.Maple, Conifer	High Density Log	5.0	90		Isolated island of timber within cedar swamp.
17	4112 - Maple, Beech, Cherry Association	High Density Log	27.4	95	51-80	T. sale #013-95 "Big Wheels Block" (U2 - 29 acs) - cut Feb, 1997. Also thinned in 1969. Ground cover of club moss, bracken fern, princess pine, hazel.

S t	Gwin	Gwinn Mgt. Unit				Stands Compartment: 049 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4112 - Maple, Beech, Cherry Association	High Density Pole	9.7	95	81-110	Low quality red maple stand fringed with conifers - difficult access for volume of wood involved. Some sparser areas.  Ground cover of club moss, princess pine. Treat with Compt. 50, if cut.
19	4112 - Maple, Beech, Cherry Association	High Density Log	19.9	Uneven Age	81-110	T. sale # 013-95 "Big Wheels Block" (U1 - 21acs) - cut Fall, 1996. Black knot on cherry, maple with forks, crook, stain, sweep. Patchy white pine regeneration present.
20	42200 - Natural White Pine	Low Density Log	15.7	Uneven Age	1-50	T. sale #013-95 "Big Wheels Block" (Unit 3 - 18 acs) - cut Fall, 1997.
21	6122 - Black Spruce	Low Density Sapling	95.0	89		Ground cover of sphagnum, grasses.
22	42380 - Non Pine Upland Conifer, Mixed Deciduous	Medium Density Pole	10.1	90	51-80	Some sparser areas and heavier understory fir.
23	6121 - Tamarack	High Density Pole	17.6	95		Some areas heavier to spruce. Trace amount of paper birch present, mainly on stand edges. Ground cover includes leatherleaf, lab tea, sphagnum, grasses.
24	4112 - Maple, Beech, Cherry Association	High Density Log	11.4	90	81-110	Thinned under T. sale #015-95 - some lower BA, in places.  Overall stand quality is low - stain, crook, forks, spiral seams.  Cherry with black knot. Ground cover of princess pine, club moss.
<b>25</b>	429 - Mixed Upland Conifers	Medium Density Log	15.7	Uneven Age	51-80	High and low grounds. Hardwood mainly located along transition edges - stand drops into pocket of thicker cedar with tagalder, lab tea, sphagnum. Other ground cover noted includes club moss, grasses.
26	4130 - Aspen	High Density Sapling	34.0	26		Mix of upland and slightly lowland aspen; residual marked trees left. Ground cover of bracken fern, club moss, grasses, hazel, tagalder and raspberry noted. T. sale #11-85 "Perrin Bros. Aspen Block" (Unit1)
27	4112 - Maple, Beech, Cherry Association	Medium Density Pole	7.6	88	81-110	Low quality stand.
28	4119 - Mixed Northern Hardwoods	High Density Log	39.7	90	111-140	T. sale #027-84 "Perrin Bros. Hardwood Block III" (Block A,B) - thinned 1986. Ground cover of princess pine, club moss.
29	6122 - Black Spruce	High Density Sapling	4.4	92		Spruce bog. Ground cover of sphagnum, lab tea.
30	4112 - Maple, Beech, Cherry Association	High Density Log	33.4	90	81-110	T. sale #028-84 "Perrin Bros. Hardwood Block IV" - cut 1986. Also T. sale #003-05 "Big Rock Hardwoods" - thinned Su, 2006. Contains thick F/S regeneration patch along west side. Some uprooted maple, dead white spruce noted. Ground cover includes heavy club moss; princess pine, raspberry, trace amount of yew.

S t	Gwini	n Mgt. Unit		Report 8 –	Forested	Stands Compartment: 049 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	4119 - Mixed Northern Hardwoods	Medium Density Log	106.8	90	51-80	T. sale #027-84 (Block C,D,E,F) - thinned 1986 and T. sale #002-05 "Perrin Bros. Hardwood" (U1-4, U6) - thinned summer 2008, summer 2009.
32	4130 - Aspen	High Density Pole	25.2	31		Older aspen along roadway (10-15" dbh) - poor health, road hazard - with younger timber beyond (4-7" dbh). Heavier spruce/fir scattered within. Harvested with adjacent compartment (C. 48) under t. sale #15/77A "Miller Creek Block No. 1" - winter, 1980.
33	4130 - Aspen	Medium Density	52.6	26		T. sale #011-85 "Perrin Bros. Aspen Block" (Unit2) - cut Nov Dec, 1985. Ground cover includes: bracken fern, raspberry, tagalder.
34	429 - Mixed Upland Conifers	Medium Density Log	5.8	Uneven Age	81-110	Transition between hardwoods and lowland conifers.
37	6122 - Black Spruce	High Density Sapling	6.8	31		T. sale #15/77A - cut Winter, 1980. Thick black spruce understory with scattered overstory maple, cedar, spruce and white pine. Ground cover of lab tea, blueberry.
38	429 - Mixed Upland Conifers	Low Density Log	19.5	100	1-50	T. sale #002-05 "Perrin Bros. Hardwood" (Unit 7) - cut Su, 2009. Contains blowdown white spruce and snag trees.
39	4112 - Maple, Beech, Cherry Association	High Density Log	14.4	90	51-80	T. sale #002-05 "Perrin Bros. Hardwood" (Unit 5) - cut Su, 2009.  Trace amount of balsam fir, white spruce present.
41	4130 - Aspen	High Density Sapling	14.6	14		T. sale #014-95 "Ski Trail Aspen" - cut August-Sept, 1998. Conifer retention along Perrin Bros. Road, as well as no-cut patch retention (stand 41).
42	4136 - Aspen, Mixed Conifer	High Density Pole	1.7	82		Retention patch surrounded by young aspen.
43	429 - Mixed Upland Conifers	High Density Log	13.3	Uneven Age	51-80	Semi-open grown stand. Heavily weeviled, large diameter white pine; older scattered aspen, multi-clump red maple, dead and oversized balsam fir. Ground cover of club moss, princess pine.
44	4136 - Aspen, Mixed Conifer	High Density Pole	5.0	38	81-110	Small wedge of timber with blowdown occuring.
45	42290 - Natural Mixed Pine	High Density Log	3.0	79	81-110	Knob of red and white pine fringed with spruce,cedar.
46	6120 - Lowland Cedar	Medium Density Log	150.3	92		contains small creek/flow
47	4140 - Other Upland Deciduous	Medium Density Log	38.2	79		Oversized aspen and birch in decline. Some red and white pine overstory with pockets of good regeneration established.
48	4133 - Aspen, Mixed Pine	High Density Pole	18.4	38		T. sale #006-74 - cut Summer, 1974.

S t	Gwinr		Report 8	– Forested	Stands Compartment: 049 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	20.6	79	51-80	Paper birch is dead/dying; larger balsam fir already dead. White pine with dead and/or snapped off tops - no pine regeneration noted. Trace amounts of yellow birch, cedar and hemlock (patches). Stand will slowly convert.
50	4133 - Aspen, Mixed Pine	Medium Density Pole	47.1	74	51-80	Aspen, birch with mixed red and white pine.
51	42260 - Natural Pine, Mixed Deciduous	High Density Log	98.2	85	81-110	Anderson Lake and Flacks Lake trail(s) fall within stand. Heavy to pine, with patchy aspen, birch and maple which is in decline and a trail hazard, in places. Understory is mainly fir.
52	4191 - Mixed Upland Deciduous with Conifer	Medium Density Log	12.7	81	1-50	Ridge stand. Ground cover of club moss, princess pine and bracken fern noted.
55	4191 - Mixed Upland Deciduous with Conifer	High Density Log	37.5	85	51-80	Heavy recreation influence - remove mainly hazard trees only.
57	429 - Mixed Upland Conifers	Medium Density Log	14.2	84	51-80	Mixed upland gradually sloping into lowland terrain with heavier white pine along E/SE side, transitioning into more spruce on the W. Ground cover of sphagnum, wintergreen, club moss noted.
58	4130 - Aspen	High Density Sapling	10.0	13		Stand of mainly wildfire origin - site burned on May 3, 1999 (Mqt#012). Ground cover of bracken fern, grasses, blueberry, wintergreen and pipsissewa noted.

# Report 9 - Nonforested Stands

Compartment: 049 Year of Entry: 2015



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
4	3303 - Mixed Low Density Trees	3.4	No	Unspecified	W32-575: opening creation - rock rake, disc and seeded June, 2000 (3.2 acs). Encroachment of spps, esp. quaking aspen
9	6220 - Alder/willow	61.3	No	Unspecified	Contains both Chandler Brook and Miller Creek
10	6220 - Alder/willow	17.7	No	Unspecified	Contains scattered trees.
35	3103 - Rubus-Fern	2.1	No	Unspecified	W32-411: opening creation - rock rake, disc, seed June, 1990.
36	3103 - Rubus-Fern	3.8	No	Unspecified	W32-411: opening creation - rock rake, disc, seed June, 1990. White pine seedlings 10-20 foot hts.
40	3103 - Rubus-Fern	1.1	No	Unspecified	W32-411: opening creation - rock rake, disc, seeded June, 1990. More bracken fern than grasses visible.
53	6225 - Bog	10.7	No	Unspecified	Leatherleaf bog/marsh
54	50 - Water	4.9	No	Unspecified	(part of) Flacks Lake
56	50 - Water	38.2	No	Unspecified	Anderson Lake
59	6220 - Alder/willow	2.2	No	Unspecified	