Gwinn Forest Management Unit
Compartment Review Presentation
Compartment #286 Entry Year: 2012
Compartment Acreage: 1480 County: Marquette

Revision Date: 7/27/2010

Stand Examiner: Dean Wilson

Legal Description: T47N-R23W, sections 19, 30, 31, 32.

Identified Planning Goals ('Management Area' or 'RMU',if applicable): Mixed use.

Management Goals: Forest production.

Soil and Topography: Wet loams, loamy sands, sandy loams, and organic soils are predominating over mostly level land.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is bordered by State land and non-industrial private ownerships.

Unique, Natural Features: The Chocolay River occurs in this tract.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: Watershed protection.

Watershed and Fisheries Considerations: Stands involving water courses are designated special conservation areas.

Wildlife Habitat Considerations: Sand River Lake Plain. Maintain or increase hemlock covertype. Special Conservation Areas along LeVasseur Creek and tributaries to provide protection for wildlife corridors and riparian areas including vernal channels. Diversity in habitat types offers a variety of hunting and wildlife viewing opportunities. Large hemlock stands are regenerating well and have taken on some old growth characteristics which provide thermal cover, coarse woody debris, and super-canopy trees.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of thin to discontinuous glacial till over bedrock and lacustrine (lake) clay and silt. The glacial drift thickness varies between 10 and 200 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. There is not a current economic use for the Jacobsville, but it was previously used as a building stone. Gravel pits are located within the compartment, and potential appears to be good. This compartment has never been leased. There is no economic oil and gas production in the UP.

Vehicle Access: Is limited by private ownerships, water courses and wetlands.

Survey Needs: N\A

Recreational Facilities and Opportunities: There are no developed recreational facilities in this compartment.

Fire Protection: Fire risk is moderate to low for this tract.

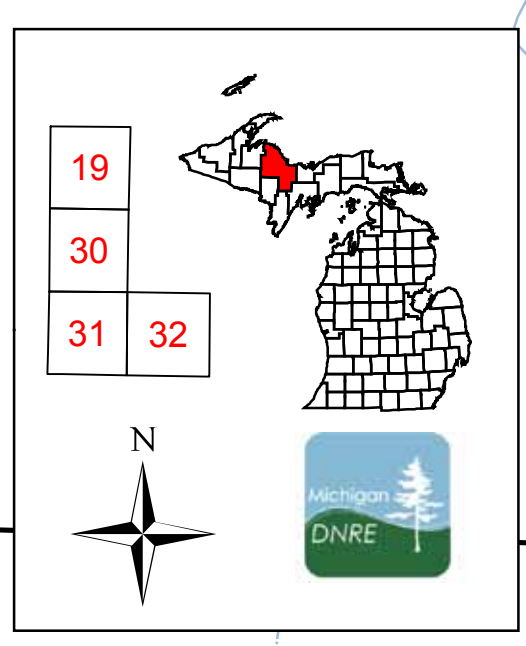
Additional Compartment Information:

- **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 286
T47N, R23W, Sec. 19, 30, 31, 32
County: Marquette
Unit: Gwinn
YOE: 2012
Acres: 1,480 GIS Calculated
Stand Examiner: Dean Wilson
Map Revised: 8/30/2010
Map Phase: Pre-Review



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

19

30

31

32

Brown Rd
Kawbawgam Rd
Mangum Rd
County Road BR
Dorow Creek
Le Vasseur Creek
Camp Four Rd
J H Ln
Lake LeVasseur

87°15'0"W
87°12'0"W
46°28'0"N
46°27'0"N
46°26'0"N
46°25'0"N

Legend

- Miris Corners
- Paved Roads
- Intermittent Stream/Drain
- Stream

Treatments
- Clearcut (w/Reserves, Patch/Strip)

Forest Stands
Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

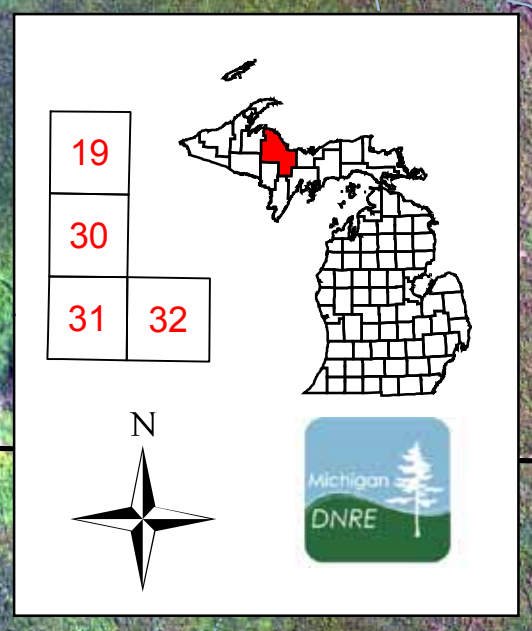
Non-Forest Stands
Level 3
- 622 - Lowland Shrub

1 — 0.5 — 0 — 1 Miles

1 **4112**-M9
2 **4112**-M5
3 **6122**-S6
4 **4130**-A3
5 **622**-L0
6 **4130**-A3
7 **6129**-Q6
8 **4130**-A3
9 **622**-L0
10 **4130**-A6
11 **6132**-LM6
12 **4139**-A3
13 **4130**-A3
14 **4139**-A3
15 **4139**-A3
16 **4139**-A3
17 **6115**-E6
18 **4130**-A3
19 **4130**-A3
20 **4139**-A3
21 **4130**-A3
22 **4130**-A6
23 **622**-L0
24 **4199**-MD6
25 **6120**-C2
26 **4112**-M6
27 **6132**-LM4
28 **4139**-A3
29 **622**-L0
30 **622**-L0
31 **622**-L0
32 **622**-L0
33 **6115**-E5
34 **4130**-A3
35 **4139**-A3
36 **622**-L0
37 **4130**-A3
38 **4119**-M6
39 **622**-L0
40 **4139**-A3
41 **4130**-A3
42 **6121**-T5

Stand Boundary Map

Compartment 286
T47N, R23W, Sec. 19, 30, 31, 32
County: Marquette
Unit: Gwinn
YOE: 2012
Acres: 1,480 GIS Calculated
Stand Examiner: Dean Wilson
Map Revised: 7/08/2010
Map Phase: Pre-Review



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

Legend

- Miris Corners
- Paved Roads
- Stand Boundaries

Forest Stands
- Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest

Non-Forest Stands
- Level 3
  - 622 - Lowland Shrub

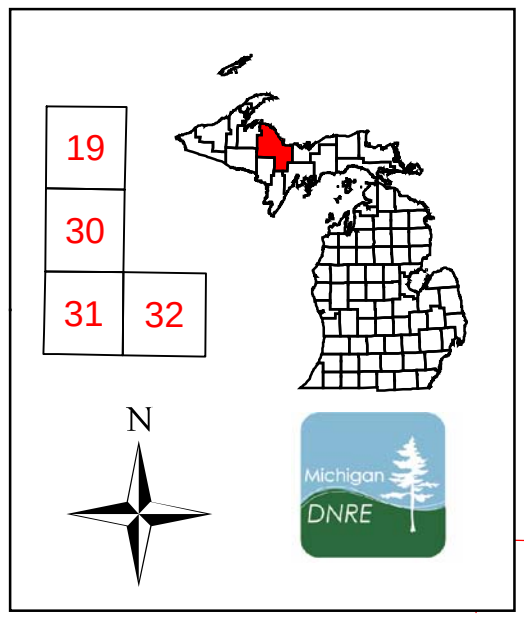
19
2 4112-M5
3 6122-S6
1 4112-M9
4 4130-A3
5 622-L0
6 4130-A3
7 6129-Q6
8 4130-A3
9 622-L0
30
10 4130-A6
11 6132-LM6
12 4139-A3
14 4139-A3
13 4130-A3
16 4139-A3
15 4139-A3
17 6115-E6
18 4130-A3
19 4130-A3
20 4139-A3
31
22 4130-A6
24 4199-MD6
26 4139-A3
32 622-L0
26 4112-M6
37 4130-A3
21 4130-A3
23 622-L0
31 622-L0
35 4139-A3
30 622-L0
25 6120-C2
27 6132-LM4
32
34 4130-A3
33 6115-E5
29 622-L0
41 4130-A3
38 4119-M6
40 4139-A8
42 6121-T5
36 622-L0
39 622-L0

Lake Kawbawgam
Le Vasseur Creek
Brown Rd
Kawbawgam Rd
Mangum Rd
County Road BR
Dorcey Creek
Chocolay River
Cable Four Rd
J H Ln
87°14'0"W
87°12'0"W
46°28'0"N
46°27'0"N
46°26'0"N
46°25'0"N

0.5 0 1 Miles

Dedicated & Proposed Special Conservation Area Map

Compartment 286
T47N, R23W, Sec. 19, 30, 31, 32
County: Marquette
Unit: Gwinn
YOE: 2012
Acres: 1,480 GIS Calculated
Stand Examiner: Dean Wilson
Map Revised: 7/08/2010
Map Phase: Pre-Review



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

Legend
- Miris Corners
- Stand Boundaries

Proposed Special Conservation Areas
- SCA - Special Conservation Area

Dedicated Special Conservation Areas
- Cold Water Streams

19
30
31
32

1 **4112**-M9
2 **4112**-M5
3 **6122**-S6
4 **4130**-A3
5 **622**-L0
6 **4130**-A3
7 **6129**-Q6
8 **4130**-A3
9 **622**-L0
10 **4130**-A6
11 **6132**-LM6
12 **4139**-A3
13 **4130**-A3
14 **4139**-A3
15 **4139**-A3
16 **4139**-A3
17 **6115**-E6
18 **4130**-A3
19 **4130**-A3
20 **4139**-A3
21 **4130**-A3
22 **4130**-A6
23 **622**-L0
24 **4199**-MD6
25 **6120**-C2
26 **4112**-M6
27 **6132**-LM4
28 **4139**-A3
29 **622**-L0
30 **622**-L0
31 **622**-L0
32 **622**-L0
33 **6115**-E5
34 **4130**-A3
35 **4139**-A3
36 **622**-L0
37 **4130**-A3
38 **4119**-M6
39 **622**-L0
40 **4139**-A3
41 **4130**-A3
42 **6121**-T5

87°15'0"W
87°12'0"W
46°28'0"N
46°27'0"N
46°26'0"N

1 0.5 0 1 Miles

Table 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit **Compartment 286 Year of Entry 2012**

Data updated before 2:00 PM

Age Class

	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	Total
Aspen	0	216	234	244	130	0	0	0	0	0	0	0	0	0	0	**824**
Cedar	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	**34**
Lowland Conifers	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0	**47**
Lowland Deciduous	0	0	0	0	0	0	0	0	0	177	0	0	0	0	0	**177**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	**70**
Lowland Shrub	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**102**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	**2**
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	105	0	0	0	0	0	**105**
Northern Hardwood	0	0	0	0	0	0	0	0	0	105	0	6	0	0	0	**111**
Tamarack	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	**7**
Total	**102**	**216**	**234**	**244**	**130**	**0**	**81**	**0**	**2**	**464**	**0**	**6**	**0**	**0**	**0**	**1480**

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Gwinn Mgt. Unit
Year of Entry 2012

Compartment 286
Total Compartment Acres: 1480

Acres by Treatment Type

Commercial Harvest - 46	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
Northern Hardwood	46	0	0	0	0	0	**46**
Total	**46**	**0**	**0**	**0**	**0**	**0**	**46**

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
26	32286026-Cut	45.8	4112 - Maple, Beech, Cherry Association	High Density Pole	88	Harvest	Clearcut with Reserves	Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Clearcut all maple, white birch, aspen, spruce, and fir and retain all other species or trees. Retain all maple with a stump diameter of 18 inches and larger. Mark 6 to 10 spruce per acre for retention.

Other Comments:

Next Steps: Check for regeneration per work instructions.

Total Treatment Acreage Proposed: 45.8

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: **0**

Data updated before 2:00 PM

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2012

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status

Prescription Specs:

Other Comments:

Next Steps:

Total Treatment Acreage Proposed: **0**

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	High Density Log	6.1	100	81-110	Selectively cut in 1985: TS#12-82
2	4112 - Maple, Beech, Cherry Association	Medium Density Pole	37.6	88	51-80	Selectively cut in 1995: TS#18-92 Contains a couple of small lowland conifer inclusions.
3	6122 - Black Spruce	High Density Pole	2.3	78	51-80	
4	4130 - Aspen	High Density Sapling	27.3	15		Harvested in 1995: TS#18-92.
6	4130 - Aspen	High Density Sapling	10.4	15		Harvested in 1995: TS#18-92.
7	6129 - Mixed Coniferous Lowland Forest	High Density Pole	47.4	50	1-50	Margionally productive.
8	4130 - Aspen	High Density Sapling	121.4	25	1-50	Harvested in 1985: TS#12-82. Becoming a well-stocked aspen stand. Includes a few acre patch of upland conifers (hemlock, spruce-fir, and cedar) on east side along a riparian corridor.
10	4130 - Aspen	High Density Pole	130.0	30	51-80	Cleanly clearcut when property was under Mead Paper ownership
11	6132 - Mixed Lowland Forest with Cedar	High Density Pole	49.3	88	111-140	Some areas of slightly elevated upland.
12	4139 - Aspen, Mixed Deciduous	High Density Sapling	16.7	4		Harvested in 2006: TS#118-02-01.
13	4130 - Aspen	High Density Sapling	24.6	4		Harvested in 2006: TS#118-02-01.
14	4139 - Aspen, Mixed Deciduous	High Density Sapling	3.9	4		Harvested in 2006: TS#118-02-01.
15	4139 - Aspen, Mixed Deciduous	High Density Sapling	17.0	4		Harvested in 2006: TS#118-02-01.
16	4139 - Aspen, Mixed Deciduous	High Density Sapling	17.3	16		Harvested in 1994: TS#17-92.
17	6115 - Lowland Ash	High Density Pole	47.0	88	51-80	Contains some slighty elevated uplands.
18	4130 - Aspen	High Density Sapling	54.5	16		Harvested in 1994: TS#24-92. Contains a small bog inclusion.
19	4130 - Aspen	High Density Sapling	17.8	8		Harvested in 2002: TS#119-02-01.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4139 - Aspen, Mixed Deciduous	High Density Sapling	3.9	4		Harvested in 2006: TS#118-02-01.
21	4130 - Aspen	High Density Sapling	41.0	16		Harvested in 1994: TS#17-92.
22	4130 - Aspen	High Density Pole	37.9	25	51-80	Harvested in 1985: TS#11-82.
24	4199 - Other Mixed Upland Deciduous	High Density Pole	105.2	88	81-110	Contains some bottom lands and flood plains along the Chocolay River as well as some sawlog inclusions..
25	6120 - Lowland Cedar	Medium Density	33.6	50		
26	4112 - Maple, Beech, Cherry Association	High Density Pole	45.8	88	81-110	
27	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	20.4	88	1-50	Significant portions of stand flodded by beaver.
28	4139 - Aspen, Mixed Deciduous	High Density Sapling	20.7	5		Harvested in 2005: TS#120-02-01.
33	6115 - Lowland Ash	Medium Density Pole	130.2	88	51-80	Whole stand is latticed with drains and other waterways. North 1/2 heavily impacted by beaver.
34	4130 - Aspen	High Density Sapling	44.2	15	1-50	Harvested in 1995: TS#5-92. North side of stand lacking aspen due to beaver activity.
35	4139 - Aspen, Mixed Deciduous	High Density Sapling	42.4	4		Harvested in 2006: TS#121-02-01.
37	4130 - Aspen	High Density Sapling	38.8	15	1-50	Harvested in 1995: TS#5-92
38	4119 - Mixed Northern Hardwoods	High Density Pole	21.5	88	81-110	Stand contains lowland patches and wet drains.
40	4139 - Aspen, Mixed Deciduous	High Density Sapling	69.1	4		Harvested in 2006: TS#122-02-01.
41	4130 - Aspen	High Density Sapling	84.7	28	1-50	Harvested in 1982: TS#22-81. Well stocked aspen in transition to pole stand. Stand contains a gravel pit.
42	6121 - Tamarack	Medium Density Pole	7.3	88	1-50	SCA = Part of a deer winter yard complex. Interior of stand is E. larch. Perimeter is mixed lowland species.

6 – Nonforested Stands

Data updated before 2:00 PM

Stand	Cover Type	Acres	Gen Cmts:
5	6223 - Inundated Shrub Swamp	7.7	
9	6223 - Inundated Shrub Swamp	28.2	
23	6223 - Inundated Shrub Swamp	7.6	
29	6223 - Inundated Shrub Swamp	11.3	
30	6223 - Inundated Shrub Swamp	8.4	50\50 shrub and cattails where not open water.
31	6223 - Inundated Shrub Swamp	19.5	New and old beaver ponds and meadows. Contains some small\minor E, Q, and M inclusions.
32	6223 - Inundated Shrub Swamp	4.6	
36	6220 - Alder/willow	10.1	
39	6220 - Alder/willow	4.9	Beaver meadows.

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.

Data updated before 2:00 PM

Stand	SCA Type	SCA Name	Acres	Comments
24	**Unique Site - SCA**	32286024	105.2	SCA = Riparian zone along Chocolay River. Change from OI old growth.
25	**Unique Site - SCA**	32286025	33.6	SCA = Riparian lowland conifers along stream. Change from OI old growth.
27	**Unique Site - SCA**	32286027	20.4	SCA = Riparian zone to creek. Change from OI potential old growth.
33	**Unique Site - SCA**	32286033	130.2	SCA = Large wetland complex involving riparian areas around streams and other flowages. Change from OI potential old growth.
38	**Unique Site - SCA**	32286038	21.5	SCA = Riparian zone along flowages into creek. Change from OI potential old growth.
42	**Unique Site - SCA**	32286042	7.3	SCA = Part of a unique lowland conifer complex that serves as winter deer yard. Change fron OI potential old growth.
5	**Unique Site - SCA**	NF_32286005	7.7	SCA = Riparian wetlands along creek. Change from OI potential old growth,
9	**Unique Site - SCA**	NF_32286009	28.2	SCA = Riparian wetlands along creek. Change from OI potential old growth.
23	**Unique Site - SCA**	NF_32286023	7.6	SCA = Riparian wetlands along stream. Change from OI potential old growth.
29	**Unique Site - SCA**	NF_32286029	11.3	SCA = Riparian wetlands along creek. Change from OI potential old growth.
30	**Unique Site - SCA**	NF_32286030	8.4	SCA = Riparian wetlands. Change from OI potential old growth.
31	**Unique Site - SCA**	NF_32286031	19.5	SCA = Riparian wetlands along a stream. Change from OI potential old growth.
32	**Unique Site - SCA**	NF_32286032	4.6	SCA = Riparian wetlands along a feeder stream to the Chocolay River.
36	**Unique Site - SCA**	NF_32286036	10.1	SCA = Riparian wetlands along creek. Change from OI potential old growth.

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.

Data updated before 2:00 PM

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.