

Gwinn Forest Management Unit Compartment Review Presentation Compartment #226 Entry Year: 2012

Revision Date: July 8, 2010

Stand Examiner: Tom Seablom

Legal Description: T46N R28W, Sec's 19, 20, 30, and 31

Identified Planning Goals ('Management Area' or 'RMU', if applicable): N/A

Management Goals: Management goals for this compartment are to continue to provide a sustainable flow of timber products and to continue to manage wildlife habitat. Timber products are primarily for fiber production with some pine sawlog management taking place. Wildlife habitat is being provided primarily in early successional stages, with some seral stage habitat being provided in the white and red pine cover types. Treatments proposed for the current entry year include both seed tree and final harvest. These treatments will provide for early successional habitat as the harvested stands regenerate. They will also provide both pulpwood and sawlog products.

Soil and Topography: Soils within this compartment fall into either the Kalkaska-Ishpeming-Rock Outcrop or the Rubicon-Keweenaw Association. These soils range from rock outcrop and very deep, gently rolling to very hilling somewhat excessively drained sandy soils (Kalkaska-Ishpeming) to very deep, gently undulating to very hilling, excessively drained and well drained sandy soils (Rubicon-Keweenaw). Minor soil compositions within the compartment also include Carbondale, Tawas, Deford, and Greenwood in the depressions and drainages, Keweenaw, Pelissier, Rubicon, Sayner and Waiska soils exist in areas similar to the Kalkaska and Ishpeming soils as do Sayner soils. These associations are well suited for timber management, with limitations being placed on road building due primarily to terrain. Topography is generally level to undulating.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership within the vicinity of the compartment is primarily State with scattered private industrial and non-industrial landowners. This compartment is on the western edge of the major State landholdings in this part of the county. The abandoned Republic Mine is located approximately four to five miles west of the compartment. Two television broadcasting towers exist within the confines of the compartment. Land use is predominately woodland management, recreation and camps.

Unique, Natural Features: None

Archeological, Historical, and Cultural Features: Two major television broadcasting towers are located within the confines of this compartment. The abandoned ELF line corridor also traverses this compartment.

Special Management Designations or Considerations: There are several stands currently listed as Potential Old Growth. Some of these designations are being proposed for removal in their entirety and some are being proposed to be changed to better reflect what function they are performing on the landscape, i.e. riparian corridor.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Chain Lakes Moraine. Within Special Conservation Areas, try to manage for diversity and older age classes for wildlife, aesthetics, and riparian protection. Maintain or increase and/or improve oak for hard mast production, mimic natural disturbance in white and red pine, and strive to increase diversity for wildlife.

Mineral Resource and Development Concerns and/or Restrictions: Sections 19, 20, 30 and 31, T46N-R28W, Marquette County Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 10 and 100 feet. The Precambrian Archean Granite/Gneiss subcrops below the glacial drift. Some of the Granite/Gneiss might be used for dimension stone. A rock (?) quarry is indicated on the topo four miles to the south. Gravel pits are located within the compartment (possibly old ones), and potential appears to be good. The abandoned Greenwood iron mine is located seven miles to the northeast. The southern portion of this compartment and nearby State land was previously leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: There is generally good vehicle access to this compartment. A few winter roads exist in the northern and central portion of the compartment on the wetter soils. County road's CF, CFA, and FFH/CCF provide access to the majority of this compartment.

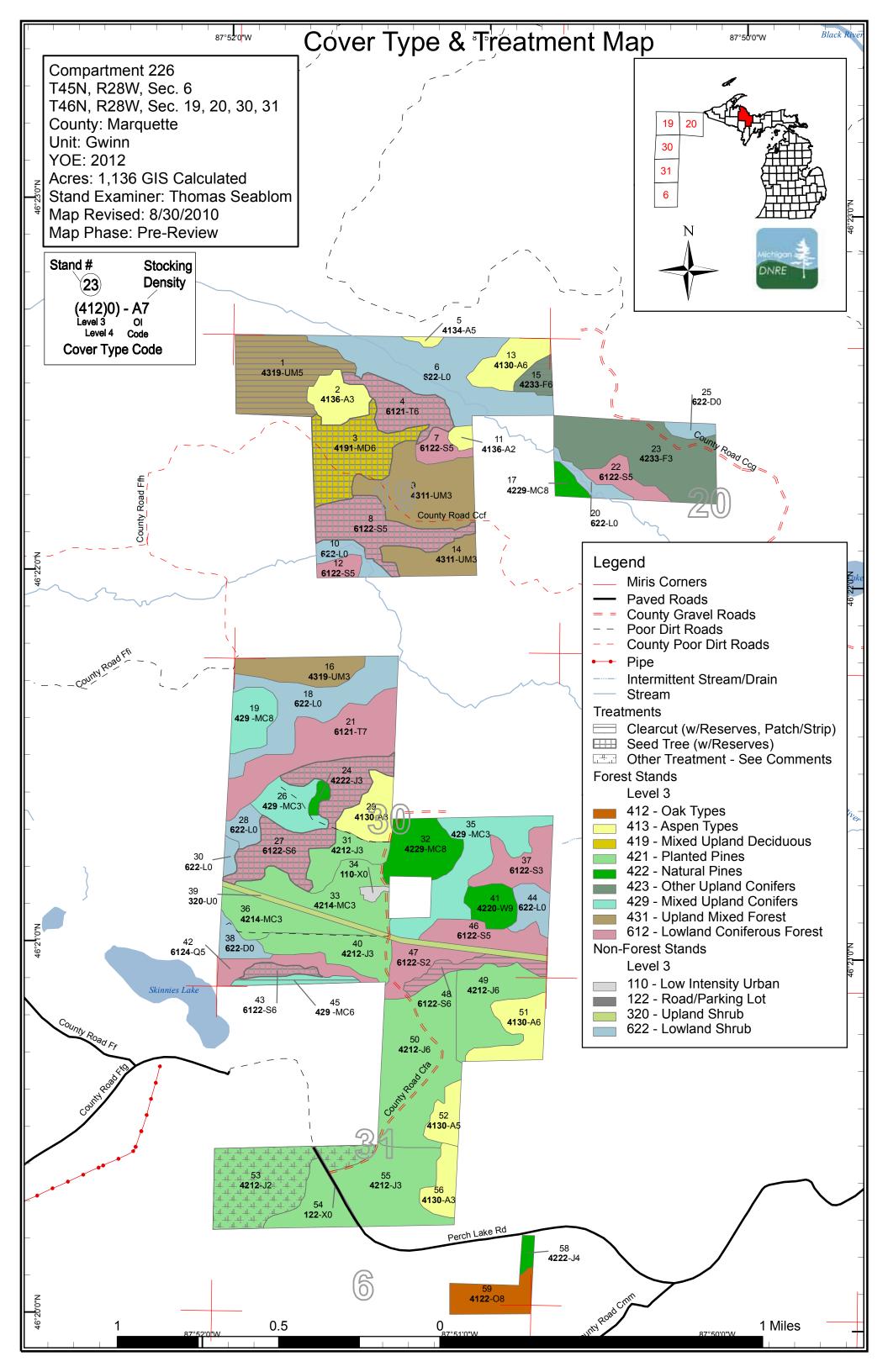
Survey Needs: Some minor survey needs may be necessary upon approval of proposed treatments. Existing registered corners exist in the compartment as well.

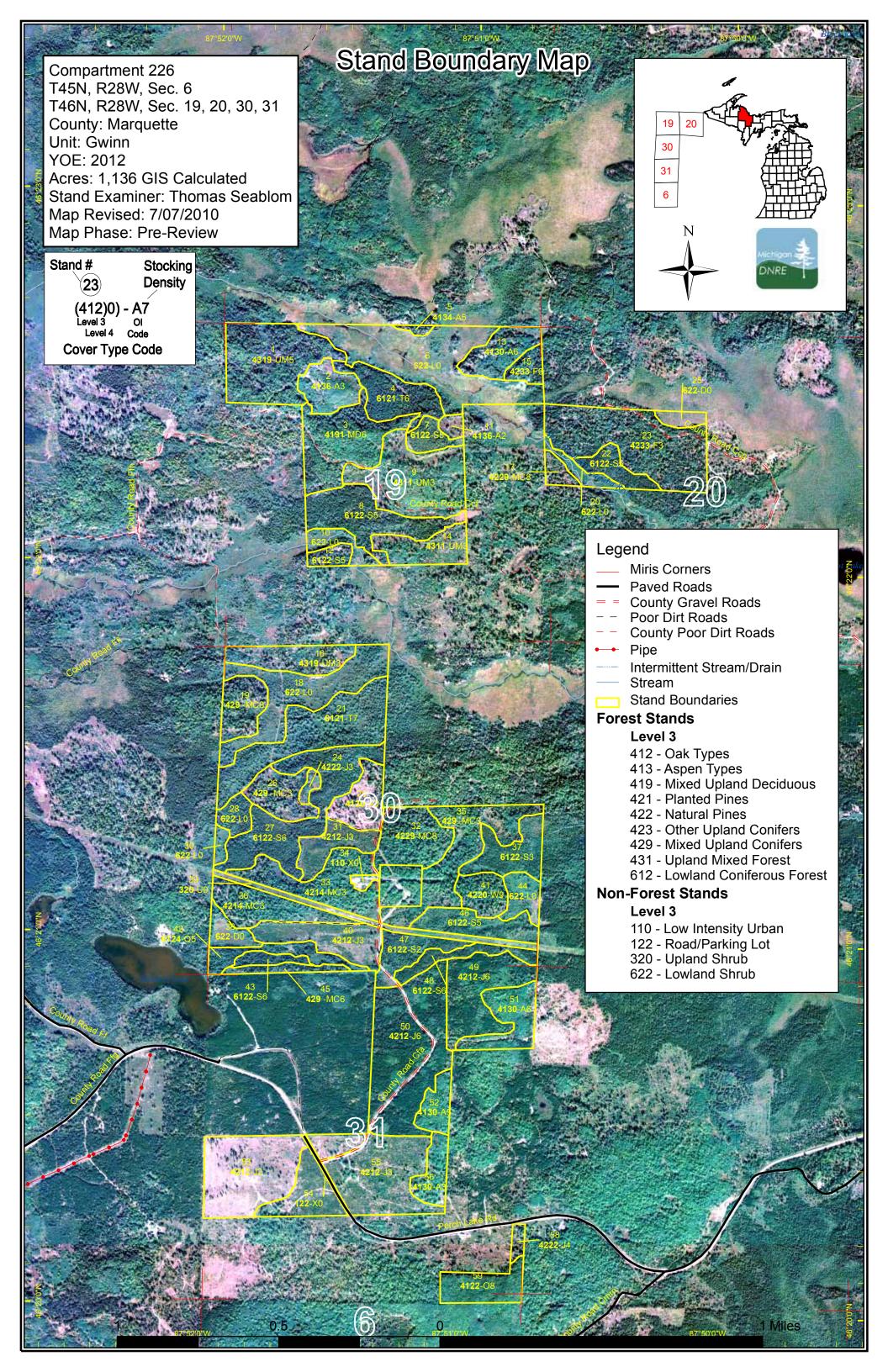
Recreational Facilities and Opportunities: There are no established recreational facilities in the compartment nor do any opportunities exist.

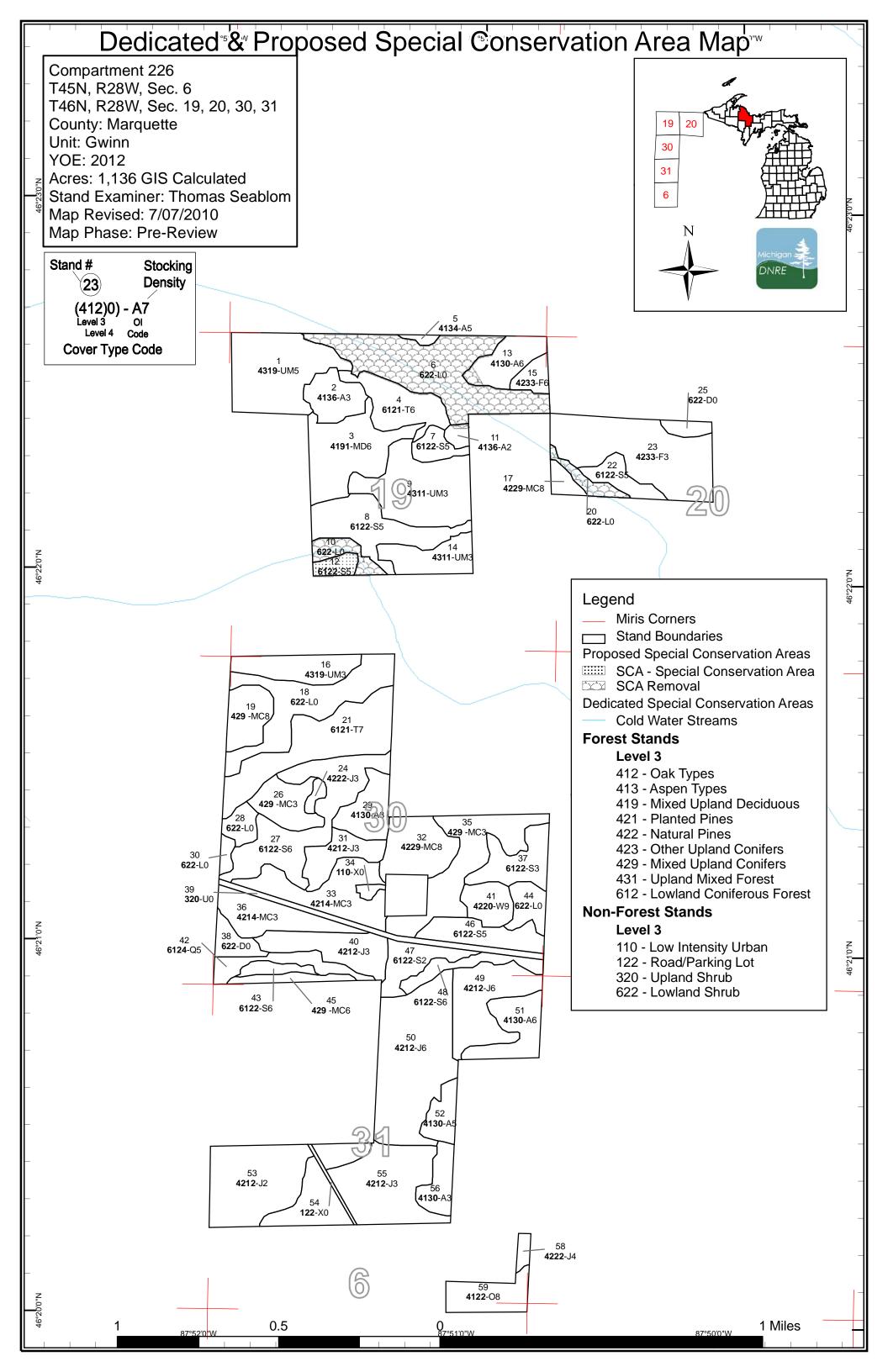
Fire Protection: Several volatile fire communities exist within the compartment and surrounding landscape, predominantly jack pine, spruce-fir and some red and white pine. This compartment is west of the revised 581 Zone Dispatch boundary. Adequate roads exist for fire suppression activities.

Additional Compartment Information: N/A

- ➤ 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







Data updated before 10:00 AM

Compartment 226 Year of Entry 2012



Age Class

							5-										
									\angle								Š.
Aspen	0	16	29	20	25	0	0	0	0	0	0	0	0	0	0	90	
Jack Pine	0	49	96	34	65	3	0	0	0	0	0	0	0	0	0	247	ĺ
Lowland Conifers	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	12	j
Lowland Shrub	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130	j
Lowland Spruce/Fir	0	0	0	0	0	0	0	10	31	110	5	7	0	0	0	164]
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	İ
Natural Mixed Pines	0	0	5	0	0	0	0	0	0	0	0	0	0	23	0	28	
Oak	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	16	
Planted Mixed Pines	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	52	
Tamarack	0	0	0	0	0	0	0	0	0	0	0	22	45	0	0	67	
Treed Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1
Upland Conifers	0	0	0	53	0	0	0	0	0	6	0	0	0	15	0	74]
Upland Mixed Forest	0	0	77	0	0	0	0	0	0	0	0	0	0	0	43	121	1
Upland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	j
Upland Spruce/Fir	0	0	0	0	55	0	0	6	0	0	0	0	0	0	0	61	j
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	j
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	12	
Total	157	65	206	159	146	3	0	16	31	128	21	29	45	50	79	1136	



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Gwinn Mgt. Unit Year of Entry 2012

Compartment 226
Total Compartment Acres: 1136

Acres by Treatment Type

Commercial Harvest - 204 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 49

Habitat Cut - 0 Opening Maintenance - 0 Tree Seeding - 0 Pesticide - 0

Cover Type by Harvest Method

		Over Type by Harvest Method										
		/ (**************************************	To	10 S	No o	Ogi Ogi	The second secon	N. N. S.			
Lowland Spruce/	Fir	10	0	81	0	0	0	91				
Mixed Upland De	ciduous	0	0	36	0	0	0	36				
Tamarack		0	0	22	0	0	0	22				
Upland Conifers		6	0	0	0	0	0	6				
Upland Mixed Fo	43	0	0	0	0	0	43					
Upland Spruce/F	ir	6	0	0	0	0	0	6				
	Total	66	0	138	0	0	0	204				

s t	t					atments Pres imiting Facto		Compartment: 226 Year of Entry 2012	Michigan DNRE
a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	32226001-Cut	43.4	4319 - Mixed Upland Forest	Medium Density Pole	74	Harvest	Clearcut with Reserves	Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
Preso Specs								uld be marked, especia o no less than 50 sq. ft	
Other Comm	nents: by the o	ther stand	s that were cut during	g the summer in th	nis area.	This stand is son		which seems to work we the surface, so completication.	
Next Steps		ate scarific	cation from harvestin	g is not achieved, t	then a po	st harvest scarfic	cation by anchor chaini	ng is recommended.	
3	32226003-Cut		4191 - Mixed Upland Deciduous with Conifer	High Density Pole	92	Harvest	Seed Tree with Reserves	Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Preso Specs	For red should b	oine: Cut a	all red pine less than to a resdiual of 50-70	14" dbh, thin those	areas of	red pine where	density by BA of red pir	ite pine, regardless of n ne exceeds 100 sq. ft./a tions. Encourage scarif	c. These areas
Other Comn	_ Whole to	ee harves	ting could be allowed	d in this stand to aid	d with sca	arification.			
Next Steps		ate scarific	cation isn't obtained o	during logging then	scarify w	vith anchor chains	s post harvest.		
4	32226004-Cut	21.5	6121 - Tamarack	High Density Pole	102	Harvest	Seed Tree	Tamarack	Cmpt. Review Proposal
Presc Specs			leaving approximate ed across the treatment	•	acre (tam	arack and black s	spruce). Seed trees sh	ould be left in both grou	ups and
Other Comn	nents:								
Next Steps		regenerati	on success to detern	mine success of pa	tches vs.	single seed trees	S.		
15	32226015-Cut	6.3	42330 - Upland Fir	High Density Pole	64	Harvest	Clearcut	Upland Spruce/Fir	Cmpt. Review Proposal
Preso Specs	-	all tree sp	ecies regardless of n	nerchantability.					
Other Comm	_ 0% retended nents:	ntion beca	use of small stand si	ze.					
Next Steps	<u>:</u>								
43	32226043-Cut	4.9 6	122 - Black Spruce	High Density Pole	85	Harvest	Seed Tree	Black Spruce	Cmpt. Review Proposal
Presc Specs		all trees e	xcept any cedar if pro	esent. Leave appro	ximately	10-15 black spru	ice per acre as scattere	ed individual trees.	

Other Comments:

Next Steps:

Gwinn Mgt. Unit Table 3 -- Treatments Prescribed Compartment: 226 Year of Entry 2012 with No Limiting Factor s Data updated before 10:00 AM t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n CoverType Method Objective Name Density **Status** d Age Type 32226045-Cut 5.9 429 - Mixed Upland 85 Natural Jack Pine Cmpt. Review 45 High Density Pole Harvest Clearcut with Conifers Reserves Proposal Prescription Harvest all species except red and white pine. Allow for natural jack pine regeneration to occur here. Specs: No chipping is to be allowed in this stand. Strive for a snow free harvest to allow for maximum scarification. Other_ Comments: <u>Next</u> Steps: 48 **32226048-Cut** 10.2 6122 - Black Spruce High Density Pole Harvest Clearcut Black Spruce Cmpt. Review Proposal Prescription Clearcut this stand, reatain any cedar if present. Since this is a narrow stand, a seed source will be available from the spruce stand to the north. Specs: <u>Other</u> Comments: Monitor regeneration in this stand to determine the success of what is essentially a strip cut. <u>Next</u> Steps: 42121 - Planted Medium Density 4 Cmpt. Review

53 32226053-

Other

49.2

Jack Pine, Mixed Deciduous

Saplin

Other

Unspecified

Planted Jack Pine

Proposal

Prescription Regen survey.

Specs:

<u>Other</u> Comments:

<u>Next</u> Steps:

Total Treatment

177.3 Acreage Proposed:

a Limiting Factor s Data updated before 10:00 AM Year of Entry 2012 t **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n Method Objective Name CoverType Density **Status** Age Type 70 8 32226008-Cut 31.2 6122 - Black Spruce Medium Density Harvest Seed Tree with Black Spruce Cmpt. Review Pole Reserves Proposal

Table 4 -- Treatments Prescribed with

Compartment: 226

<u>Prescription</u> Seed tree harvest leaving approximately 10-15 trees per acre (tamarack and black spruce), all other trees except cedar are to be cut regardles of <u>Specs:</u> merchantability. Seed trees should be left in both groups and individuals scattered across the treatment area.

Other Hold this stand another 10 years as several other stands of this covertype are being prescribed for this entry period.

. . .

Next Steps:

<u>Limiting Factor and No</u> 5E: Age / size class diversity

Gwinn Mgt. Unit

<u>Treatment Reason</u> Hold this stand for another 10 years as several other stands of this covertype are being prescribed during the current entry period.

27 32226027-Cut 45.0 6122 - Black Spruce High Density Pole 80 Harvest Seed Tree with Black Spruce Cmpt. Review Reserves Proposal

<u>Prescription</u> A seed tree harvest is being prescribed for this stand. Leave appoximatly 10-15 trees per acre composed of the tree species present in this stand. <u>Specs:</u> (black spruce, tamarack and jack pine).

Other Hold this stand another 10 years as several spruce stands are being proposed for treatment during this entry period.

Comment:

Next Steps:

<u>Limiting Factor and No</u> 5E: Age / size class diversity

76.2

<u>Treatment Reason</u>
Hold stand another entry cycle. Several spruce stands are being proposed for harvest during this entry period.

Total Treatment Acreage Proposed: Data updated before 10:00 AM

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2012

Michigan DNRE

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

5 - Forested Stands Compartment: 226 Gwinn Mgt. Unit



Gwinn Mgt. Unit					Michigan S
Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4319 - Mixed Upland Forest	Medium Density Pole	43.4	Uneven Age		Blowdown from 2005. Stand was put up as a sale at last entry but wasn't cut do to access issues, which have now been resolved.
4136 - Aspen, Mixed Conifer	High Density Sapling	14.6	15		Scattered overstory oak, some jack and red pine. Stand was commericially cut in the summer of 1993 by St. John Logging, permit #11-92. All trees 2-inches and larger at dbh were cut.
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	35.8	Uneven Age	81-110	Very large red pine, patch of jack pine could go as own, some wind damage.
6121 - Tamarack	High Density Pole	21.5	102	111-140	
4134 - Aspen, Spruce/Fir	Medium Density Pole	1.6	28		This is a very small stand that is actually part of a larger stand in the comparment to the north (Comp 221 Stand 38).
6122 - Black Spruce	Medium Density Pole	7.4	102	1-50	Same age as stand to the north as well as composition however the diameter and heights are significantly different.
6122 - Black Spruce	Medium Density Pole	31.2	70	111-140	Cutable Stand, but will hold another 10. Two aged also. 3 to 4 Sticks, Some have 5. Cedar pockets here and there. Was recommended at last entry to cut this period.
4311 - Pine, Aspen Mix	High Density Sapling	42.0	15		Aspen mixed with jack, red & white pine; scattered balsam fir and spruce as well. There is a patch of pure jack pine on the southwest end of this stand. Stand was harvested in the summer of 1993 by St. John Forest Products, permit #11-92. Red and white pine were selectively cut and birch seed trees were left.
4136 - Aspen, Mixed Conifer	Medium Density	3.1	15		Mix of red pine, aspen, and spruce as well as some jack pine. Cut summer 1993, St. John Forest Products, permit #11-92
6122 - Black Spruce	Medium Density Pole	5.0	90	51-80	SCA=>Potential Old Growth. Small stand, fair amount of storm damage from circa 2005. Access is from the south across private land. Merchantable stand.
4130 - Aspen	High Density Pole	15.7	31	1-50	Pole aspen with a heavy fir understory and mid canopy component. Commercially harvested in 1977 by Holli Forest Products, permit #14-72A. Small patch of red pine sawtimber at south west tip of stand.
4311 - Pine, Aspen Mix	High Density Sapling	16.8	15		Mix of predominately aspen, fir, jack pine and red pine. Some overstory red and white pine.
42330 - Upland Fir	High Density Pole	6.3	64	51-80	Cutable stand but small acreage. Southeast part of stand transitions into lowland black spruce.
	Level 4 Cover Type 4319 - Mixed Upland Forest 4136 - Aspen, Mixed Conifer 4191 - Mixed Upland Deciduous with Conifer 6121 - Tamarack 4134 - Aspen, Spruce/Fir 6122 - Black Spruce 4311 - Pine, Aspen Mix 4136 - Aspen, Mixed Conifer 6122 - Black Spruce	Level 4 Cover Type 4319 - Mixed Upland Forest Medium Density Pole 4136 - Aspen, Mixed Conifer 6121 - Tamarack High Density Pole 4134 - Aspen, Spruce/Fir 6122 - Black Spruce 6122 - Black Spruce Medium Density Pole 4311 - Pine, Aspen Mix Conifer Medium Density Pole 4311 - Aspen, Mixed Conifer Medium Density Pole 4311 - Pine, Aspen Mix High Density Sapling Medium Density Pole High Density Pole High Density Pole High Density Pole High Density Sapling High Density Pole High Density Pole	Level 4 Cover Type 4319 - Mixed Upland Forest High Density Pole 4191 - Mixed Upland Deciduous with Conifer High Density Pole 6121 - Tamarack High Density Pole 4134 - Aspen, Spruce/Fir Medium Density Pole 6122 - Black Spruce Medium Density Pole 6122 - Black Spruce Medium Density Pole 4311 - Pine, Aspen Mix High Density Sapling 42.0 4311 - Pine, Aspen Medium Density Pole 4136 - Aspen, Mixed Conifer Medium Density Pole 4130 - Aspen Medium Density Sapling 42.0 4311 - Pine, Aspen Mix High Density Sapling 15.7 4311 - Pine, Aspen Mix High Density Sapling 42.0 4311 - Pine, Aspen Mix High Density Pole 4311 - Pine, Aspen Mix High Density Pole 4311 - Pine, Aspen Mix High Density Pole 4330 - Upland Fir High Density Sapling 42330 - Upland Fir High Density Sapling 6.3	Level 4 Cover Type Density Acres Stand Age 4319 - Mixed Upland Forest Density Pole Density Pole 4136 - Aspen, Mixed Conifer High Density Pole 6121 - Tamarack High Density Pole 4134 - Aspen, Spruce Density Pole 6122 - Black Spruce Medium Density Pole 6122 - Black Spruce Medium Density Pole 4311 - Pine, Aspen Mixed Density Sapling 4136 - Aspen, Mixed Density Pole 4137 - Aspen Mixed Density Pole 4138 - Aspen Mixed Density Pole 4139 - Aspen Mixed Density Pole 4131 - Pine, Aspen Mixed Medium Density Sapling 4130 - Aspen High Density Pole 4131 - Pine, Aspen Mixed Medium Density Pole 4131 - Pine, Aspen Mixed Medium Density Pole 4130 - Aspen High Density Sapling 4130 - Aspen High Density Pole 4131 - Pine, Aspen Mix High Density Pole 4131 - Pine, Aspen Mixed Density Pole 4130 - Aspen High Density Sapling 42330 - Upland Fir High Density Sapling 42330 - Upland Fir High Density 6.3 64	Level 4 Cover Type Density Acres Stand Age Range

5 – Forested StandsData updated before 10:00 AM



Data updated before 10:00 AM		10:00 AM Year of Entry: 2012			
Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4319 - Mixed Upland Forest	High Density Sapling	18.6	14		Scattered overstory red and white pine. Range of regen from birch to tamarack. Cut late winter 1995 by J. Carey Logging, permit #10-92. Spruce less than 9" dbh were left, red and white pine were marked. Access was from the south via frozen road.
42290 - Natural Mixed Pine	Medium Density Log	4.6	15	1-50	Harvested summer 1993 by St. John Forest Products, permit #11-92. Pine was selectively cut and any spruce smaller than 8" stump diameter were left. Regen success here is high. There are lots of white and red pine seedlings coming up.
429 - Mixed Upland Conifers	Medium Density Log	15.1	150	1-50	Overstory red and white pine with a heavy fir understory. Cut late winter 1995 by J. Carey Logging, permit #10-92. Spruce less than 9" dbh were left, red and white pine were marked. Access was from the south via frozen road.
6121 - Tamarack	Low Density Log	45.4	117	1-50	Scattered tamarack with some heavier pockets one or 2w.p. in the distance.
6122 - Black Spruce	Medium Density Pole	9.8	60	51-80	Lots of small dia bacck spruce. Trees avg. 30 -40 ft tall.
42330 - Upland Fir	High Density Sapling	55.1	31	1-50	Scattered red and white pine log & x-log. Heavy fir understory with some pine mixed in. Stand was cut in 1977 by Holli Forest Products, permit #14-72A. It was piece cut and not cut very thoroughly. Hold stand another 10-20 years and harvest at that time. Very mixed size class stand.
42220 - Natural Jack Pine	High Density Sapling	2.5	23		Mix of jackpine & black spruce, with some tamarack along the edge.
429 - Mixed Upland Conifers	High Density Sapling	15.7	23	1-50	Mixed stand of white pine saplings and logs with a considerable amount of balsam fir and scattered jack pine. Scattered white pine weevil damage as well. Commercially cut between 1983-86 by Oscar Antilla, permit #6-82. All oak were left, red and white pine were marked and all other species were cut.
6122 - Black Spruce	High Density Pole	45.0	80	81-110	Pockets of smaller diameter spruce and tamarack within this stand. Recommend holding another 10 years and cutting at next entry period.
4130 - Aspen	High Density Sapling	15.8	5	1-50	BA Swings were in Pine pockets. 2 patches of W. Pine w/ R. Pine the rest aspen & jack pine. Stand was cut in June 2005 by Minerick Logging, sale #104-02-01. All oak, cherry, red and white pine, and birch were left, as well as spruce with less than 4 merchantable sticks.
42120 - Planted Jack Pine	High Density Sapling	14.5	10		Stand harvested in fall of 1993 by Minerick Logging, permit #4- 92. Cherry, oak, and some red and white pine were left. Under FTP #C31-330, the site was disk trenched and hand planted with jack pine in may 1995.
	Cover Type 4319 - Mixed Upland Forest 42290 - Natural Mixed Pine 429 - Mixed Upland Conifers 6121 - Tamarack 6122 - Black Spruce 42330 - Upland Fir 42220 - Natural Jack Pine 429 - Mixed Upland Conifers 6122 - Black Spruce	Cover Type 4319 - Mixed Upland Forest 42290 - Natural Mixed Pine Medium Density Log 429 - Mixed Upland Conifers 6121 - Tamarack 6122 - Black Spruce 42330 - Upland Fir 42220 - Natural Jack Pine 42220 - Natural Jack Pine 42120 - Black Spruce High Density Sapling 6122 - Black Spruce High Density Sapling Cover TypeDensityAcres4319 - Mixed Upland ForestHigh Density Sapling18.642290 - Natural Mixed PineMedium Density Log4.6429 - Mixed Upland ConifersMedium Density Log15.16121 - TamarackLow Density Log45.46122 - Black SpruceMedium Density Pole9.842330 - Upland FirHigh Density Sapling55.142220 - Natural Jack PineHigh Density Sapling2.5429 - Mixed Upland ConifersHigh Density Sapling15.76122 - Black SpruceHigh Density Pole45.04130 - AspenHigh Density Sapling15.8	Level 4 Cover Type Size Density Acres Stand Age 4319 - Mixed Upland Forest High Density Sapling 18.6 14 42290 - Natural Mixed Pine Medium Density Log 4.6 15 429 - Mixed Upland Conifers Medium Density Log 15.1 150 6121 - Tamarack Low Density Log 45.4 117 6122 - Black Spruce Medium Density Pole 9.8 60 42330 - Upland Fir High Density Sapling 55.1 31 42220 - Natural Jack Pine High Density Sapling 2.5 23 429 - Mixed Upland Conifers High Density Sapling 15.7 23 6122 - Black Spruce High Density Sapling 15.8 5 4130 - Aspen High Density Sapling 15.8 5	Level 4 Cover Type Size Density Acres Stand Age BA Range 4319 - Mixed Upland Forest High Density Sapling 18.6 14 14 42290 - Natural Mixed Pine Medium Density Log 4.6 15 1-50 429 - Mixed Upland Conifers Medium Density Log 15.1 150 1-50 6121 - Tamarack Low Density Log 45.4 117 1-50 6122 - Black Spruce Medium Density Pole 9.8 60 51-80 42330 - Upland Fir Pine High Density Sapling 55.1 31 1-50 42220 - Natural Jack Pine High Density Sapling 2.5 23 1-50 429 - Mixed Upland Conifers High Density Sapling 15.7 23 1-50 6122 - Black Spruce High Density Pole 45.0 80 81-110 4130 - Aspen High Density Sapling 15.8 5 1-50	

S

5 – Forested Stands Data updated before 10:00 AM



t				Data upda	ted before 1	10:00 AM Year of Entry: 2012
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42290 - Natural Mixed Pine	Medium Density Log	23.2	150	81-110	Very large red & white pine, pocket of jack pine poles on west end. Understory is white pine, aspen, balsam & red maple. Commercially cut 1984 by Holli Forest products, permit #23-81. This stand is different from the surrounding original stand in that the jack pine is bigger in diameter and the stocking for the red and white pine is higher.
33	42140 - Planted Mixed Pine	High Density Sapling	30.6	20	1-50	Stand was cut during 1984-86 by Oscar Antilla, permit #6-82. Stand was herbicided, disk trenched and hand planted in May 1990 with white pine, FTP #C31-163. There is a considerable amt weevil dmg, West end of stand was not planted but allowed to seed in naturally due to the amount of overstory left in this area. It has worked very well.
35	429 - Mixed Upland Conifers	High Density Sapling	36.9	24		Stand cut in 1984 by Holli Forest Products, permit #23-81. All maple was left to minimize weevil damage on the white pine regeneration.
36	42140 - Planted Mixed Pine	High Density Sapling	21.5	20	1-50	Stand was cut during 1984-86 by Oscar Antilla, permit #6-82. The site was disk trenched in 1989, FTP #C31-163. Th east end was planted with white pine in 1990, the western 1/3 was not planted and allowed to regenerate naturally which worked very well. Weevil damage prvelant throughout the stand. There is more red pine in this stand compared to north of the ELF ROW, but could still be same stand as the species compositon is the same.
37	6122 - Black Spruce	High Density Sapling	18.5	80		Small diameter black spruce. Assuming poor site quality as growth essentially stopped at about 40-50yrs.
40	42120 - Planted Jack Pine	High Density Sapling	22.8	16		Site was harvested in the summer of 1994 by Minerick Logging, permit #4-92. The site was then herbicided, disk trenched and hand planted to jack pine in May 1995 under FTP #C31-330.
41	42200 - Natural White Pine	High Density Log	11.6	160	51-80	Stand cut in 1984 by Holli Forest Products, permit #23-81.
42	6124 - Lowland Spruce- Fir	Medium Density Pole	12.0	85		Sparse stand. Patch of red pine in south west corner.
43	6122 - Black Spruce	High Density Pole	4.9	85	81-110	Could cut this stand. 4-5 stick black spruce & tamarack scattered birch & cedar.
 45	429 - Mixed Upland Conifers	High Density Pole	5.9	85	81-110	Mixed upland jack pine, black spruce, balsam fir, scattered red & white pine.
46	6122 - Black Spruce	Medium Density Pole	17.4	80		Variable stocking & diameter. Very small poles.
47	6122 - Black Spruce	Medium Density	14.1	85	1-50	Small diameter spruce.
48	6122 - Black Spruce	High Density Pole	10.2	85	81-110	Stand is different than adjacent in diameter and height. Diameter range 6-8 inches, heights are 4-5 sticks.

5 – Forested Stands Data updated before 10:00 AM



t				Data updat	ed before 1	0:00 AM Year of Entry: 2012
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	31.4	26	51-80	Jack pine with aspen pockets. Different than adjacent stand; much shorter and not as dense. Was commercially cut in 1982 by Holli Forest Products, permit #24-81A. FTP #C31-114 for scarifying and seeding was written but never acted upon. Enough natural regeneration was in place.
50	42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	65.5	32	51-80	Planted jack pine with aspen pockets. Was cut in 1973 by Oscar Antilla, permit #18/72A. Area was scarified with roller chopper and anchor chains in the spring of 1974 then seeded with 1/2 lb/acre of jack pine seed on 5/29/1974 under FTP #CF-106. This treatment was considered unsuccessful and it was followed up by machine planting of jack pine in the spring of 1977, planting form #168.
<u> </u>	4130 - Aspen	High Density Pole	18.8	27	1-50	Mix of jack pine pockets within the aspen. Oak is only in north. Some red pine and white pine scattered throughout. Stand had been cut in 1982 by Holli Forest Products, permit #24-81A.
	4130 - Aspen	Medium Density Pole	9.4	32	51-80	Scattered oak & pine. Stand was cut in 1973 by Oscar Antilla, permit #18/72A. No oak was cut in this stand. There is some oak regen in the areas surrounding the residual oak, but it is heavily browsed.
53	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	49.2	4		Stand was cut between Oct 2002 and June 2004 by Minerick Logging, sale #104-02-01. Site was then herbicided, disk trenched and direct seeded under FTP #C31-464. Trenching and seeding took place in spring of 2005. When is regen Check? Areas seem patchy. A few areas of aspen, and there are a few scattered residual red pine.
 55	42120 - Planted Jack Pine	High Density Sapling	58.2	15		Stand had been cut in spring of 1983 by Clarence Christian, permit #9-92, all oak were left. Under FTP #C31-287, the site was herbicided, disk trenched and hand planted in May 1995.
 56	4130 - Aspen	High Density Sapling	10.8	16		Stand was harvested in 1993 by Clarence Christian, permit #9- 92. All oak and most red and white pine were left.
	42220 - Natural Jack Pine	Low Density Pole	2.7	40	1-50	Barely a forested condition. Very patchy, could almost treat with a planting or trench & seed.
 59	4122 - Oak, Pine	Medium Density Log	16.1	93	81-110	PT 1: 50:20 oak:pine PT 2: 100:60 o:p PT 3: 20:80 o:p PT4: 70ft Stand recently harvested. Trace of white pine regen where there is a seed source. Some oak seedlings as well.

6 – Nonforested StandsData updated before 10:00 AM



Stand	Cover Type	Acres	Gen Cmts:
6	6220 - Alder/willow	60.0	
10	6220 - Alder/willow	7.7	
18	6220 - Alder/willow	38.2	
20	6220 - Alder/willow	5.6	
25	6224 - Treed Bog	4.3	
28	6229 - Mixed lowland shrub	6.8	Stand was cut in March 2006 by Minerick Logging, sale #104-02-01. Tamarack seed trees were left as well as those spruce with less than 4 merchantable sticks. No evidence of seedlings at this time. Summer survey may be necessary.
30	6220 - Alder/willow	2.8	
34	11 - Low Intensity Urban	1.9	
38	6224 - Treed Bog	7.6	
39	3201 - Sweet Fern	11.3	
44	6229 - Mixed lowland shrub	9.3	
54	122 - Road/Parking Lot	1.7	

Compartment: 226 Year of Entry: 2012



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 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments
11	Unique Site - SCA	32226011	0.3	SCA=>Riparian Corridor. A portion of this stand is currently listed as POG, Influence zones. It is the northern most tip which was typed out R8 at last entry. Due to it's small size it was lumped in with the aspen stand. The large red pine do exhibit some old growth features as they are large trees, but a more appropriate designation would be riparian corridor.
12	Unique Site - SCA	32226012	5.0	Stand is listed in POG status. This stand is exhibiting old growth characteristics as there are several large red and white pine within the stand, a wind event has created a fair amount of downed woody debris and it is along a tributary to the W. Branch Escanaba River.
13	Unique Site - SCA	32226013	1.3	SCA=>Riparian Corridor. A portion of this stand is currently listed as POG, Scenic values/Visual values. It is the eastern most tip which was typed out R9 at last entry. Due to it's small size it was lumped in with the larger aspen stand. The tip portion does not provide any true scenic/visual values along West Branch Creek. The large red pine do exhibit some old growth features as they are large trees, but riparian corridor is a more appropriate designation.
6	Unique Site - SCA	NF_32226006	60.0	SCA=>Riparian Corridor. Remove from POG status, stand is a mix of tag alder and marsh grass. Riparian corridor is a more fitting designation.
10	Unique Site - SCA	NF_32226010	7.7	SCA=>Riparian Corridor. Stand currently listed as POG. This stand is a tag alder/marsh grass swamp. Should be removed from POG status as it does not exhibit any old growth characteristics but is along a tributary to the W. Branch Escanaba River.
20	Unique Site - SCA	NF_32226020	5.6	SCA=>Riparian Corridor. Stand listed as POG but should have this designation removed. It is a tag alder/marsh grass stand. Riparian corridor is a more fitting designation as the West Branch Creek does flow through this stand which is a tributary to the W. Branch Escanaba River.

Gwinn Mgt. Unit Compartment: 226





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.

Conservation Area	Туре	Data updated before 10:00 AM Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxyger stocked trout populations and those of other coldwater fish year to year. Coldwater streams in Michigan typically provi contributions of groundwater to their stream flows. Such st designated as trout resources by Fisheries Order 210.	species (e.g., slimy sculpin) to persist from de these conditions due to substantial