

# **Compartment Review Presentation**

Crystal Falls Forest Management Unit Compartment 9 Entry Year 2016 Acreage: 3,268 County Dickinson Management Area: Ralph Ground Moraine

**Revision Date:** 07/25/2014

#### Stand Examiner: Scott Sebero

#### Legal Description:

T44N-R29W Sections 1, 2 & 11 - 15

#### **Identified Planning Goals:**

Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible, and to develop the quality while maintaining diversity in hardwood types.

#### Soil and topography:

A mix of Zimmerman fine sand, 18 to 35 percent slopes, rolling, excessively well drained soil on foot slopes, side slopes, and ridges and Pemene fine sandy loam, 6 to 18 percent slopes, gently rolling, well drained soil is on foot slopes, side slopes, and ridges in the uplands.

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

Ownership patterns in this compartment consist mostly of State lands and WE Energies with some small private parcels and hunting camps. Lands in and around this compartment are used mainly for hunting and managed for forest products.

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

Schwartz Creek, 60 Day Creek, and McGregor Creek

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

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

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

#### Watershed and Fisheries Considerations:

#### Wildlife Habitat Considerations:

This compartment contains portions of the historic Floodwood Deery Wintering Complex. Mesic and lowland conifers provide essential cover for wintering deer and should be maintained and promoted wherever possible. Continuing to promote age-class diversity in the aspen type is favorable for bear, deer, grouse, woodcock and other game and non-game species. Eagles, osprey, red-shouldered and goshawk are likely inhabitants of this compartment. Wolf activity is concentrated in and around this compartment.

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

Surface sediments consist of medium-textured till. There is insufficient data to determine the glacial drift thickness. Archean granite/gneiss subcrops below the glacial drift. There is not a current economic use for these rocks, although they have building stone potential. Republic Iron mine is located approximately eight miles to the north. Gravel pits are not indicated in this area, but there appears to be good gravel potential. Most of this area was previously leased for metallic exploration and parts of Sections 1 - 3 are currently leased. There is no economic oil and gas production in the UP.

#### Vehicle Access:

Access is from Floodwood, O'Neil Lake Road, and Big Wheel Road and connecting two tracks.

#### Survey Needs:

Corners are needed in Sections 2, 11, & 15.

#### **Recreational Facilities and Opportunities:**

Snowmobile trail 32 runs down Big Wheel Road, which is through this compartment.

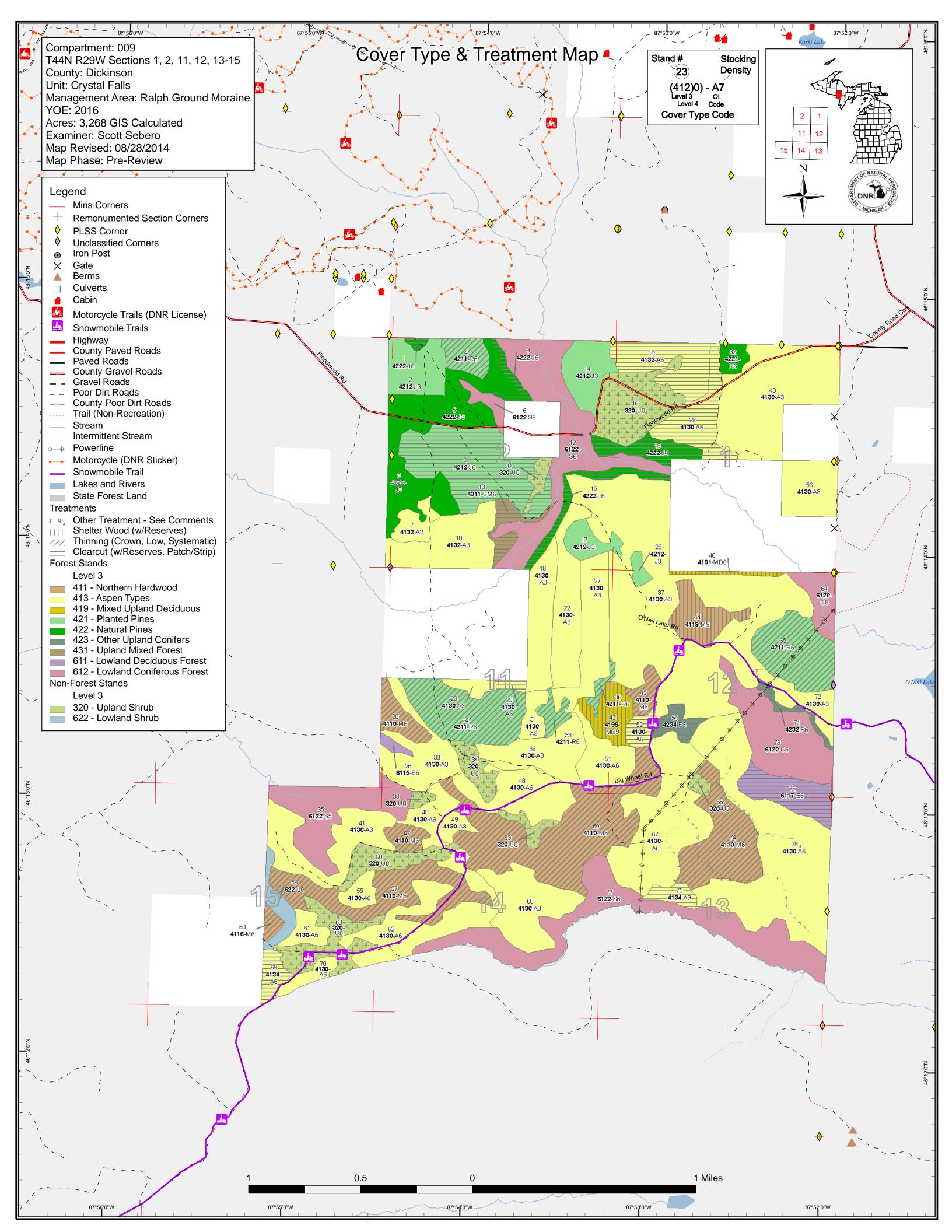
#### **Fire Protection:**

#### **Additional Compartment Information:**

Big Wheel Road is in verry poor condition and needs reshaping, cross drainage culverts and gravel.

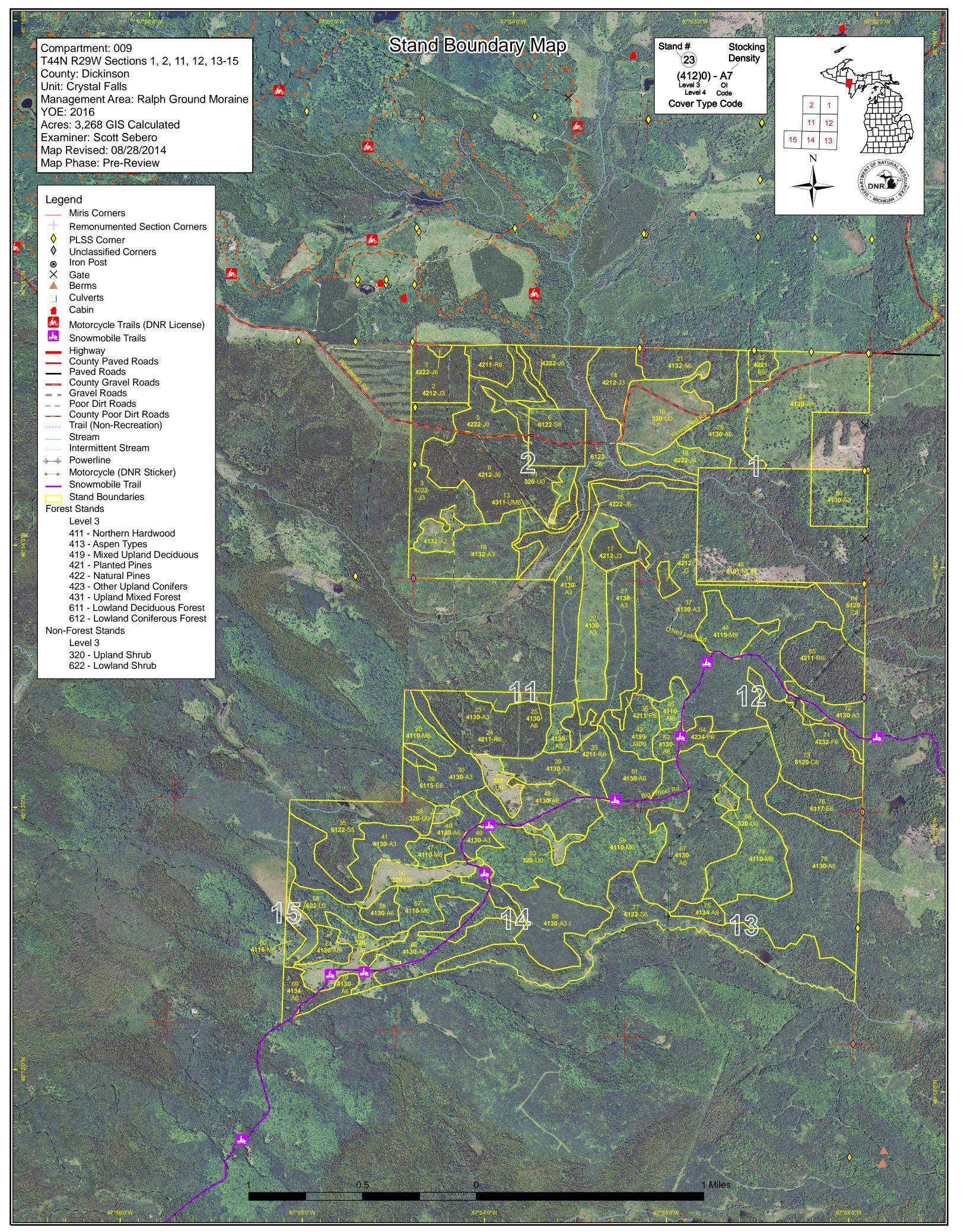
The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

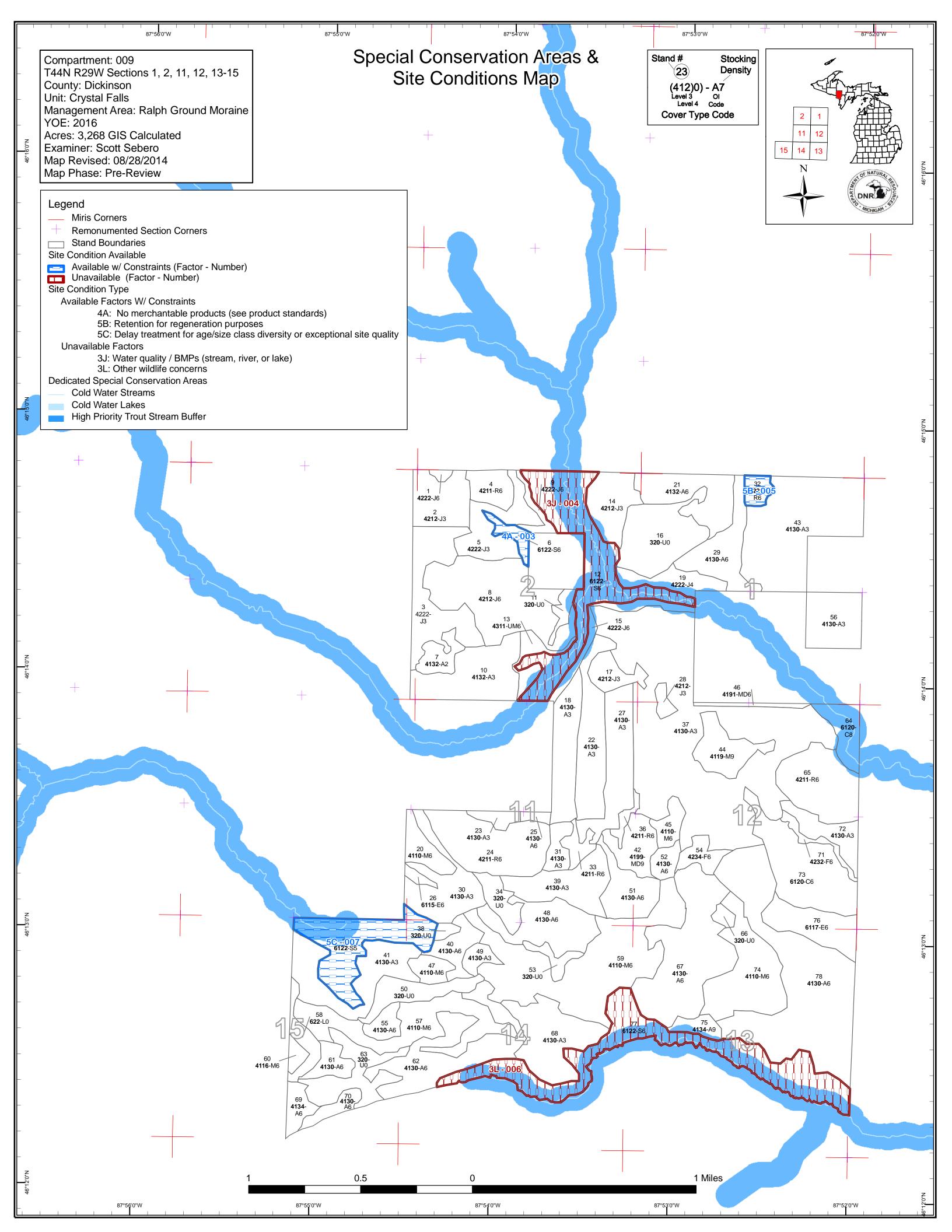
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system



# Compartment: 009 T44N R29W Sections 1, 2, 11, 12, 13-15 County: Dickinson Unit: Crystal Falls Management Area: Ralph Ground Moraine YOE: 2016 Acres: 3,268 GIS Calculated Examiner: Scott Sebero Map Revised: 08/28/2014 Map Phase: Pre-Review

**Remonumented Section Corners**  $\diamond$ PLSS Corner  $\diamond$ **Unclassified Corners** Iron Post  $\odot$ X Gate Berms Culverts 1 Cabin 4 Motorcycle Trails (DNR License) **6**6 <u>\_\_</u> Snowmobile Trails Highway County Paved Roads Paved Roads County Gravel Roads Gravel Roads Poor Dirt Roads County Poor Dirt Roads Trail (Non-Recreation) ----Stream Intermittent Stream  $\leftrightarrow \rightarrow$  Powerline Motorcycle (DNR Sticker) •--• Snowmobile Trail **Stand Boundaries** Forest Stands Level 3 411 - Northern Hardwood 413 - Aspen Types419 - Mixed Upland Deciduous421 - Planted Pines 422 - Natural Pines 423 - Other Upland Conifers431 - Upland Mixed Forest 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest **Non-Forest Stands** Level 3 320 - Upland Shrub 622 - Lowland Shrub





# Report 1 – Total Acres by Cover Type and Age Class

Crystal Falls Mgt. Unit Scott Sebero : Examiner

### Compartment 009 Year of Entry 2016



Age Class

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		0.0	70,79	62-02-02-02-02-02-02-02-02-02-02-02-02-02	96° 20	OP OP	30.36	60.00	P. D.	00000000000000000000000000000000000000	66.00	100'100'	6 <sup>170,17</sup> 9	220× 1370	of Least	,0 <sup>0</sup>
Aspen	247	424	311	297	221	0	49	0	82	0	0	0	0	0	1630	
Cedar	0	0	0	0	0	0	0	0	101	0	0	0	0	0	101	
Jack Pine	0	138	62	0	0	0	130	0	29	0	0	0	0	0	360	
Lowland Deciduous	0	0	0	0	0	0	0	0	43	0	0	0	0	0	43	
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	321	0	0	0	0	0	321	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	33	0	0	0	0	0	33	
Northern Hardwood	0	0	0	0	0	0	0	0	377	0	0	0	0	0	377	
Red Pine	0	0	0	0	0	89	80	0	10	0	0	0	0	0	178	
Upland Mixed Forest	0	0	0	0	0	0	0	0	15	0	0	0	0	0	15	
Upland Shrub	173	0	0	0	0	0	0	0	0	0	0	0	0	0	173	
Upland Spruce/Fir	0	0	0	0	0	0	0	0	22	0	0	0	0	0	22	
Total	435	562	373	297	221	89	259	0	1032	0	0	0	0	0	3268	



MICHIGAN	Crystal Falls Mgt. Unit Year of Entry 2016										Compartment Total Compartment Acres:	
		ree Planting - 72 pening Maintenar		C	s by T Other -	reatmo 0	ent Ty	ре				
				Cov	er Ty	oe by H	larves	st Metl	nod			
	Aspen Types		131	0 0		1100 00 0 0 0 55	0 0	CHARTER OF	131	Selection of the select		
	Lowland Deciduous Fores	st	39	0	0	0	0	0	39			
	Mixed Upland Deciduous		0	0	0	33	0	0	33			
	Natural Pines		53	0	0	0	0	0	53			
	Northern Hardwood		0	0	0	32	346	0	377			
	Other Upland Conifers		22	0	0	0	0	0	22			
	Planted Pines		107	0	0	0	169	0	275			
	Upland Mixed Forest		15	0	0	0	0	0	15			
		Total	366	0	0	64	514	0	944			

Compartment: 009 Crystal Falls Mgt. Unit **Report 3 -- Treatments Prescribed** Year of Entry 2016 with No Limiting Factor s t а Treatment Acres CoverType Size Stand BA Treatment Treatment Cover Type Approval n Density Method Objective d Name Age Range Type Status 42220 - Natural 4222 - Natural Jack 12009001-Cut 2.5 High 80 51-80 Harvest Clearcut with Cmpt. Review 1 Jack Pine Densitv Reserves Pine Proposal Pole Prescription Cut all jack pine, aspen, balsam, spruce and maple that have a six inch or greater stump diameter. Leave red and white pine and oak if present. Specs: Other No retention other than leave species, if present. Comments: <u>Next</u> Scarify. Steps: Proposed Start Date: 10/01/2015 4 12009004-Cut 19.1 42110 - Planted High 60 111-140 Harvest **Crown Thinning** 4211 - Planted Red Cmpt. Review Red Pine Proposal Density Pine Pole Prescription Cut every third row of red pine where rows haven't been previously cut. Thin to BA of 100. Cut any merchantable aspen, balsam and maple. Specs: <u>Other</u> Comments: <u>Next</u> Steps: Proposed Start Date: 10/01/2015 12009008-Cut 106.6 42120 - Planted High 60 111-140 Harvest Clearcut with 4222 - Natural Jack Cmpt. Review 8 Jack Pine Density Reserves Pine Proposal Pole Prescription Cut all jack pine, aspen, maple, balsam and spruce with a stump diameter of 2 inches or more. Cut red pine with a stump diameter of 2 inches or more, except mark 1 to 3 red pine leave trees per acre. Specs: Other Comments: Next Scarify. Herbicide if needed, determined by TMS. Steps: Proposed 10/01/2015 Start Date: 9 12009009-Cut 8.0 42220 - Natural High 80 81-110 Clearcut with 4133 - Aspen, Cmpt. Review Harvest Mixed Pine Jack Pine Density Reserves Proposal Pole Prescription Cut all aspen, jack pine, spruce, balsam and maple with a stump diameter of 6 inches or more. Leave all oak, cedar, hemlock and red and white pine, if present. Specs: Other Comments: <u>Next</u> Steps:

Proposed Start Date: 10/01/2015

# Report 3 -- Treatments Prescribed

Compartment: 009 v ..... ~~ ~ ~



S t			·		with	No Limit	ting Factor		Year of Entry 2016	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	12009013-Cut	14.8	4311 - Pine, Aspen Mix	High Density Pole	80	51-80	Harvest	Clearcut with Reserves	4311 - Pine, Aspen Mix	Cmpt. Review Proposal
Preso Spec			pine, spruce, balasam	and maple	with a s	tump diam	eter of 6 inches	or more. leave all c	edar and red and white	e pine and oak,
<u>Other</u> Comr	r_ Push tov ments:	vard jack p	bine.							
<u>Next</u> Steps										
Propos Start [		15								
15	12009015-Cut	18.8	42220 - Natural Jack Pine	High Density Pole	80	81-110	Harvest	Clearcut with Reserves	4222 - Natural Jack Pine	Cmpt. Review Proposal
Preso Spec			pine, spruce, balasam oak, if present.	and maple	with a s	tump diam	eter of 6 inches	or more. Mark 3 to	5 red pine per acre to	eave. Leave
<u>Other</u> Comr	r_ ments:									
<u>Next</u> Steps	Scarify. <u>S:</u>									
Propos Start [		15								
19	12009019-Cut	23.5	42221 - Natural Jack Pine, Mixed Deciduous	Low Density Pole	60	1-50	Harvest	Clearcut with Reserves	4212 - Planted Jack Pine	Cmpt. Review Proposal
Preso Spec			a stump diameter of 2" and oak, if present.	or more. C	Cut all as	pen, jack p	pine, spruce and	balasam with a stu	Imp diameter of 6" or n	nore. Leave all
<u>Other</u> Comr	r_ ments:									
<u>Next</u> Steps	<u>s:</u>	jack pine.	Herbicide as needed t	o prevent a	spen and	d maple sp	routing.			
<u>Propo</u> Start [		15								
20	12009020-Cut	18.5	4110 - Sugar Maple Association	High Density Pole	80	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
Preso Spec		es to a BA	of 70 to 80. Remove	large aspen	and bal	sam first, tl	hen use standar	ds in complete mar	ker as guide. Leave oa	ak, if present.
<u>Other</u> Comr	r_ ments:									
<u>Next</u> Steps										
Propos Start [		15								

Compartment: 009 Crystal Falls Mgt. Unit **Report 3 -- Treatments Prescribed** Year of Entry 2016 with No Limiting Factor s t а Treatment Acres CoverType Size Stand BA Treatment Treatment Cover Type Approval n Density Method Objective Status d Name Age Range Type Clearcut with 12009021-Cut 48.9 4132 - Aspen, Jack High 60 51-80 Harvest 4212 - Planted Jack Cmpt. Review 21 Pine Densitv Reserves Pine Proposal Pole Prescription Cut all aspen, jack pine, spruce, balasam and maple with a stump diameter of 2 inches or more. Leave all red and white pine and oak, if present. Specs: Other Very poor aspen. Comments: Next Plant to jack pine. Herbicide as needed to prevent aspen and maple sprouting. Steps: Proposed Start Date: 10/01/2015 24 12009024-Cut 73.4 42110 - Planted High 55 111-140 Harvest **Crown Thinning** 4211 - Planted Red Cmpt. Review Red Pine Proposal Density Pine Pole Prescription Cut every third row of red pine where rows haven't been previously cut. Thin to BA of 100. Cut any merchantable aspen, balsam and maple. Specs: <u>Other</u> Comments: <u>Next</u> Steps: Proposed Start Date: 10/01/2015 25 12009025-Cut 3.8 4130 - Aspen High 80 81-110 Harvest Clearcut with 413 - Aspen Cmpt. Review Density Reserves Proposal Pole Prescription Cut all aspen, jack pine, spruce, balsam and maple with a stump diameter of 6 inches or more. Leave all oak and red and white pine, if Specs: present. Other No retention other than leave species, if present. Comments: Next Steps: Proposed 10/01/2015 Start Date: 29 12009029-Cut 43.0 4130 - Aspen High 80 81-110 Clearcut with Cmpt. Review Harvest 413 - Aspen Density Reserves Proposal Pole Prescription Cut all aspen, jack pine, spruce, balasam and maple with a stump diameter of 6 inches or more. Leave all red and white pine and oak, if present. Specs: Other\_ Comments: <u>Next</u> Steps:

Proposed Start Date: 10/01/2015

Compartment: 009 Crystal Falls Mgt. Unit **Report 3 -- Treatments Prescribed** Year of Entry 2016 with No Limiting Factor s t а Treatment Acres CoverType Size Stand BA Treatment Treatment Cover Type Approval n Method Objective d Name Density Age Range Type Status 42110 - Planted 4211 12009033-Cut 9.9 High 111-140 **Crown Thinning** - Planted Red Cmpt. Review 33 55 Harvest Red Pine Densitv Pine Proposal Pole Prescription Cut every third row of red pine where rows haven't been previously cut. Thin to BA of 100. Cut any merchantable aspen, balsam and maple. Specs: Other Comments: Next Steps: Proposed Start Date: 10/01/2015 36 12009036-Cut 5.6 42110 - Planted High 55 111-140 Harvest **Crown Thinning** 4211 - Planted Red Cmpt. Review Red Pine Proposal Density Pine Pole Prescription Cut every third row of red pine where rows haven't been previously cut. Thin to BA of 100. Cut any merchantable aspen, balsam and maple. Specs: <u>Other</u> Comments: <u>Next</u> Steps: Proposed Start Date: 10/01/2015 12009042-Cut 27.0 4199 - Other Mixed High 80 111-140 Harvest Shelterwood 412 - Oak Cmpt. Review 42 Upland Deciduous Density Log Proposal Prescription Cut all aspen, jack pine, spruce, balasam and maple with a stump diameter of 2 inches or more. Mark oak to 50 BA, leaving healthy trees with well developed crowns. Leave all red and white pine, if present. Specs: <u>Other</u> Comments: Scarify. Herbicide maple stump sprouts if necessary. <u>Next</u> Steps: Proposed 10/01/2015 Start Date: 44 12009044-Cut 31.9 4119 - Mixed High 80 141-170 Harvest Shelterwood 4119 - Mixed Cmpt. Review Northern Hardwoods Density Log Northern Hardwoods Proposal Prescription Cut all aspen, jack pine, spruce, balasam with a stump diameter of 4 inches or more. Mark oak and maple to 50 BA, leaving healthy trees with well developed crowns. Favor oak. Leave all red and white pine, if present. Specs: Other Comments: <u>Next</u> Scarify. Steps: Proposed Start Date: 10/01/2015

**Report 3 -- Treatments Prescribed** Compartment: 009 Crystal Falls Mgt. Unit Year of Entry 2016 with No Limiting Factor s t а Treatment Acres CoverType Size Stand BA Treatment Treatment Cover Type Approval n Density Method Objective Status d Name Age Range Type Cmpt. Review 12009045-Cut 12.7 4110 - Sugar Maple High 80 111-140 Harvest **Crown Thinning** 411 - Northern 45 Association Densitv Hardwood Proposal Pole Prescription Mark trees to a BA of 70 to 80. Remove large aspen and balsam first, then use standards in complete marker as guide. Leave red and white Specs: pine and oak. Other Comments: Next Steps: Proposed Start Date: 10/01/2015 46 12009046-Cut 5.6 4191 - Mixed High 80 81-110 Harvest Shelterwood 412 - Oak Cmpt. Review Upland Deciduous Proposal Density with Conifer Pole Prescription Cut all aspen, jack pine, spruce, balasam and maple with a stump diameter of 2 inches or more. Mark oak to 50 BA, leaving healthy trees with well developed crowns. Leave all red and white pine, if Specs: <u>Other</u> Comments: <u>Next</u> Scarify. Steps: Proposed Start Date: 10/01/2015 12009047-Cut 12.1 4110 - Sugar Maple High 80 111-140 Harvest **Crown Thinning** 411 - Northern Cmpt. Review 47 Association Density Hardwood Proposal Pole Prescription Mark trees to a BA of 70 to 80. Remove large aspen and balsam first, then use standards in complete marker as guide. Leave red and white Specs: pine and oak. Other Comments: Next Steps: Proposed 10/01/2015 Start Date: 52 12009052-Cut 10.5 4130 - Aspen High 80 51-80 Clearcut with Cmpt. Review Harvest 413 - Aspen Density Reserves Proposal Pole Prescription Cut all aspen, jack pine, spruce, balasam and maple with a stump diameter of 6 inches or more. Leave all red and white pine and oak, if present. Specs: Other\_ Comments: <u>Next</u> Steps: Proposed

<u>Start Date:</u> 10/01/2015

Compartment: 009 Crystal Falls Mgt. Unit **Report 3 -- Treatments Prescribed** Year of Entry 2016 with No Limiting Factor s t а Treatment Acres CoverType Size Stand BA Treatment Treatment Cover Type Approval n Density Method Objective Status d Name Age Range Type 42340 - Upland Clearcut with Cmpt. Review 12009054-Cut 14.0 High 80 81-110 Harvest 4134 - Aspen, 54 Spruce/Fir Densitv Reserves Spruce/Fir Proposal Pole Prescription Cut all aspen, jack pine, spruce, balasam and maple with a stump diameter of 6 inches or more. Leave all cedar, hemlock and red and white Specs: pine and oak, if present. Other Comments: Next Steps: Proposed Start Date: 10/01/2015 57 12009057-Cut 73.9 4110 - Sugar Maple High 80 111-140 Harvest **Crown Thinning** 411 - Northern Cmpt. Review Proposal Association Density Hardwood Pole Prescription Mark trees to a BA of 70 to 80. Remove large aspen and balsam first, then use standards in complete marker as guide. Leave red and white pine and oak. Specs: <u>Other</u> Comments: <u>Next</u> Steps: Proposed Start Date: 10/01/2015 12009059-Cut 151.2 4110 - Sugar Maple High 80 111-140 Harvest **Crown Thinning** 411 - Northern Cmpt. Review 59 Association Density Hardwood Proposal Pole Prescription Mark trees to a BA of 70 to 80. Remove large aspen and balsam first, then use standards in complete marker as guide. Leave red and white Specs: pine and oak. Other Comments: Next Steps: Proposed 10/01/2015 Start Date: 60 12009060-Cut 5.9 4116 - Mixed N. High 80 111-140 **Crown Thinning** 411 - Northern Cmpt. Review Harvest Hardwood - Aspen Density Hardwood Proposal Pole Prescription Mark trees to a BA of 70 to 80. Remove large aspen and balsam first, then use standards in complete marker as guide. Specs: Other\_ Comments: <u>Next</u> Steps: Proposed

<u>Start Date:</u> 10/01/2015

Compartment: 009 Crystal Falls Mgt. Unit **Report 3 -- Treatments Prescribed** Year of Entry 2016 with No Limiting Factor s t а Treatment Acres CoverType Size Stand BA Treatment Treatment Cover Type Approval n Density Method Objective d Name Age Range Type Status 60.6 42110 - Planted 12009065-Cut High 60 111-140 Harvest **Crown Thinning** 4211 - Planted Red Cmpt. Review 65 Red Pine Densitv Pine Proposal Pole Prescription Cut every third row of red pine where rows haven't been previously cut. Thin to BA of 100. Cut any merchantable aspen, balsam and maple. Specs: Other\_ Comments: Next Steps: Proposed Start Date: 10/01/2015 69 12009069-Cut 13.6 4134 - Aspen, High 80 81-110 Harvest Clearcut with 4134 - Aspen, Cmpt. Review Spruce/Fir Reserves Spruce/Fir Proposal Density Pole Prescription Cut all aspen, jack pine, spruce, balasam and maple with a stump diameter of 6 inches or more. Leave all cedar, hemlock and red and white pine and oak, if present. Specs: <u>Other</u> Comments: <u>Next</u> Steps: Proposed Start Date: 10/01/2015 12009071-Cut 7.8 42320 - Upland High 80 81-110 Harvest Clearcut with 4134 - Aspen. Cmpt. Review 71 Spruce Density Reserves Spruce/Fir Proposal Pole Prescription Cut all aspen, jack pine, spruce, balasam and maple with a stump diameter of 6 inches or more. Leave all cedar, hemlock and red and white pine and oak, if present. Specs: Other Comments: Next Steps: Proposed 10/01/2015 Start Date: 12009074-Cut 71.3 4110 - Sugar Maple High 80 111-140 **Crown Thinning** 411 - Northern Cmpt. Review 74 Harvest Association Density Hardwood Proposal Pole Prescription Mark trees to a BA of 70 to 80. Remove large aspen and balsam first, then use standards in complete marker as guide. Leave red and white pine and oak. Specs: Other --Scott Sebero : 08/22/2014 comments: Comments: Mark out and pretect cultural resource in NW portion of stand and protect same resource in stand 66. Next Steps: **Proposed** Start Date: 10/01/2015

S t		Crystal F	alls Mgt. Unit	Repo			nents Prescril iting Factor	bed	Compartment: 009 Year of Entry 2016	DR NATURAL PLAND
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
75	12009075-Cut	10.8	4134 - Aspen, Spruce/Fir	High Density Lo	80 g	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<u>Preso</u> Spec		spen, jack I oak, if pre		n and maple	with a s	tump diam	neter of 6 inches o	r more. Leave all	cedar, hemlock and re	d and white
<u>Other</u> Comr	<u>.</u> ments:									
<u>Next</u> Steps	<u>s:</u>									
<u>Propo</u> <u>Start [</u>		15								
76	12009076-Cut	38.8	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	80	81-110	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
<u>Preso</u> Spec			pine, spruce, balasam lar, hemlock and oak,		and mixe	ed hardwo	od, except oak, w	ith a stump diame	ter of 6 inches or more.	Leave all red
<u>Other</u> Comr	<u>nents:</u>									
<u>Next</u> Steps	<u>s:</u>									
Propo Start [		15								
78	12009078- Hunter Walking Trail	18.2	4130 - Aspen	High Density Pole	37	51-80	Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal
<u>Preso</u> Spec	<u>cription</u> Opening <u>s:</u>	Maintenar	nce							
<u>Othei</u> <u>Comr</u>	Mowing/ ments:	discing/see	eding							
<u>Next</u> Steps	<u>s:</u>									
<u>Propo</u> <u>Start [</u>		16								
11	NF_12009011- NonFor	7.7	3201 - Sweet Fern				Non-Forest Management	Other - Specify	3201 - Sweet Fern	Cmpt. Review Proposal
<u>Preso</u> Spec	cription Opening	Maintenar	nce				0			·
<u>Other</u> Comr	<u>.</u> ments:									
<u>Next</u> Steps	<u>s:</u>									
<u>Propo</u> Start [		16								
16	NF_12009016- NonFor	61.8	3201 - Sweet Fern				Non-Forest Management	Other - Specify	3201 - Sweet Fern	Cmpt. Review Proposal
<u>Preso</u> Spec	<u>cription</u> Opening <u>s:</u>	Maintenar	nce				-			
<u>Other</u> Comr	<u>-</u> ments:									
<u>Next</u> Steps										
Propo Start [		16								

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

Compartment: 009 Year of Entry 2016 OF NATURA

S t		Crystarr		Кер			ting Factor	beu	Year of Entry 2016	DNR MICHAEN
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	NF_12009034- NonFor	17.3	3201 - Sweet Fern				Non-Forest Management	Other - Specify	3201 - Sweet Fern	Cmpt. Review Proposal
<u>Pres</u> Spec	<u>cription</u> Opening	Maintenar	nce							
<u>Othe</u> Com	er iments:									
<u>Next</u> Step										
Propo Start	<u>osed</u> Date: 10/01/20	16								
38	NF_12009038- NonFor	4.1	3201 - Sweet Fern				Non-Forest Management	Other - Specify	3201 - Sweet Fern	Cmpt. Review Proposal
<u>Pres</u> Spec	<u>scription</u> Opening <u>cs:</u>	Maintenar	nce							
	iments:									
<u>Next</u> Step	<u>IS:</u>									
Propo Start	<u>Date:</u> 10/01/20	16								
50	NF_12009050- NonFor	27.7	3201 - Sweet Fern				Non-Forest Management	Other - Specify	3201 - Sweet Fern	Cmpt. Review Proposal
<u>Pres</u> Spec	<u>cription</u> Opening	Maintenar	nce							
<u>Othe</u> Com	er iments:									
<u>Next</u> Step										
Propo Start	<u>bsed</u> Date: 10/01/20 <sup>-</sup>	16								
53	NF_12009053- NonFor	9.1	3201 - Sweet Fern				Non-Forest Management	Other - Specify	3201 - Sweet Fern	Cmpt. Review Proposal
<u>Pres</u> Spec	cription Opening	Maintenar	nce							
<u>Othe</u> Com	er iments:									
<u>Next</u> Step	<u>IS:</u>									
Propo Start		16								
63	NF_12009063- NonFor	40.6	3201 - Sweet Fern				Non-Forest Management	Other - Specify	3201 - Sweet Fern	Cmpt. Review Proposal
Pres Spec	<u>cription</u> Opening <u>cs:</u>	Maintenar	nce							
<u>Othe</u> Com	er iments:									
<u>Next</u> Step										
Propo Start	<u>osed</u> <u>Date:</u> Unspecifi	ed								

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

Compartment: 009 Year of Entry 2016 OF NATURA

S t a				·	with	No Limi	ting Factor		Year of Entry 2016	DNR BOUR
n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
66	NF_12009066- NonFor	4.6	3205 - Mixed Upland Shrub				Non-Forest Management	Other - Specify	3205 - Mixed Upland Shrub	Cmpt. Review Proposal
Prese Spec	<u>cription</u> Opening <u>s:</u>	Mantenance	)							
<u>Othe</u> Com	<u>r</u> ments:									
<u>Next</u> Step										
<u>Propo</u> Start I		16								

**Total Treatment** 

1135.2 Acreage Proposed:

S t		Crystal Falls	Mgt. Unit	Report 4		eatment Site Con	Compartment: 009 Year of Entry 2016	DNR DNR S		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							
Presci Specs Other Comm										
<u>Next</u> Steps:										
Propo Start [										
Limitir	ng Factor									
	Total Treatme reage Propose									

# **Report 5 – Site Conditions**

Scott Sebero : Examiner

Compartment 009 Year of Entry 2016

#### Availability for Management

Total	Acres	Acres	Γ	Dominar	nt Site	e Cone	dition	s	
Acres	Available	Not Available		No	5C	5B	4A	3L	ЗJ
1629	1629		Aspen	1,629					
101	101		Cedar	101					
360	360		Jack Pine	360					
43	43		Lowland Deciduous	43					
320	80	241	Lowland Spruce/Fir	1	69		9	128	112
33	33		Mixed Upland Deciduous	33					
380	380		Northern Hardwood	380					
178	178		Red Pine	169		10			
15	15		Upland Mixed Forest	15					
22	22		Upland Spruce/Fir	22					
3,080	2,840	241	Total Forested Acres	2,752	69	10	9	128	112
	92%	8%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	Available	4A: No merchantable products (see product standards)	9				
	Comments:						
004	Not Available	3J: Water quality / BMPs (stream, river, or lake)	113	2G: Too wet (sensitive soils, does not include access issues)			
	Comments:						
005	Available	5B: Maintain for regeneration purposes	10				
	Comments: Aspen removed last	entry. BA only at 70.					

	_	l Falls Mgt. Unit Sebero : Examiner		Report 5 – Site Conditions	Compartment 009 Year of Entry 2016
006	Not Available	3L: Other wildlife concerns	128		
С	omments:				
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	70	4A: No merchantable products (see product standards)	
С	omments:				



#### 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

Comments

Compartment: 009 Year of Entry 2016



# Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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 sites of cultural and historical significance that may occur upon bottomlands. They include thousands of Native American settle and British outposts, nineteenth century logging camps, mines the Great Lakes, there are shipwrecks and other remains docu be identified by Natural heritage data from the State Historic Pri this compartment will be implemented in such a manner as to n the sensitive nature of this information, no further detail about le	terrestrial areas and Great Lakes ments and burial sites, as well as French and homesteads. Beneath the waters of menting the maritime trade. Such sites may eservation Office. Proposed treatments in maintain the integrity of these sites. Due to			
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen con stocked trout populations and those of other coldwater fish spe- year to year. Coldwater streams in Michigan typically provide th contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	cies (e.g., slimy sculpin) to persist from ese conditions due to substantial			
SCA	Habitat Area	An area that provide some specific need for the life cycle of wild and Waterfowl Production Areas, deer wintering complexes in I openings and savannas. Habitat areas are distinct from critical endangered or threatened species (such as Kirtland's warbler of general in nature, are not primarily associated with threatened of covered by species recovery plans that are developed in cooper	owland conifer communities, grassland habitat designated for recovery of or piping plover areas) in that they are more or endangered species, and are not			
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems 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 effect as aesthetics, habitat, bank stability, timber production, and the	ne unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well			

S t	Crystal Falls Mgt. Unit			Report 8	– Forested	Stands Compartment: 009 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	High Density Pole	2.5	80	51-80	
2	42120 - Planted Jack Pine	High Density Sapling	38.2	17		
3	42221 - Natural Jack Pine, Mixed Deciduous	High Density Sapling	62.3	24		
4	42110 - Planted Red Pine	High Density Pole	19.1	60	111-140	
5	42220 - Natural Jack Pine	High Density Sapling	41.8	17		
6	6122 - Black Spruce	High Density Pole	9.2	80	81-110	
7	4132 - Aspen, Jack Pine	Medium Density	15.7	6	1-50	
8	42120 - Planted Jack Pine	High Density Pole	106.6	60	111-140	Alternate red, jack rows. Red pine very supressed. Many areas of pure jack pine. Some pockets of aspen and scattered aspen throughout stand.
9	42220 - Natural Jack Pine	High Density Pole	8.0	80	81-110	
10	4132 - Aspen, Jack Pine	High Density Sapling	60.9	17		
12	6122 - Black Spruce	High Density Pole	112.5	80	51-80	
13	4311 - Pine, Aspen Mix	High Density Pole	14.8	80	51-80	Poor quality aspen. Pine site. Sweet fern and blueberry.
14	42120 - Planted Jack Pine	High Density Sapling	34.7	17		
15	42220 - Natural Jack Pine	High Density Pole	18.8	80	81-110	Nice jack pine on fairly steep hill. Heavy to red pine on east side of stand.
17	42120 - Planted Jack Pine	High Density Sapling	17.4	17		
18	4130 - Aspen	High Density Sapling	44.6	17		
19	42221 - Natural Jack Pine, Mixed Deciduous	Low Density Pole	23.5	60	1-50	Opening growing in to cherry brush. Pockets of jack pine and red maple poles.
20	4110 - Sugar Maple Association	High Density Pole	18.5	80	111-140	Some large aspen and balsam mixed throughout stand.

S t	Crystal Falls Mgt. Unit			Report 8	– Forested	Stands Compartment: 009 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4132 - Aspen, Jack Pine	High Density Pole	48.9	60	51-80	Poor quality aspen. Pockets of old jackpine and aspen. Pockets of younger aspen and jack pine.
22	4130 - Aspen	High Density Sapling	54.6	5		Scattered pole and log sized red oak.
23	4130 - Aspen	High Density Sapling	8.1	17		
24	42110 - Planted Red Pine	High Density Pole	73.4	55	111-140	
25	4130 - Aspen	High Density Pole	3.8	80	81-110	Poor condition.
26	6115 - Lowland Ash	High Density Pole	3.9	80	51-80	
27	4130 - Aspen	High Density Sapling	53.8	17		
28	42120 - Planted Jack Pine	High Density Sapling	5.8	17		
29	4130 - Aspen	High Density Pole	43.0	80	81-110	Scattered red oak and red pine. Some paper birch and balsam.
30	4130 - Aspen	High Density Sapling	48.4	17		
31	4130 - Aspen	High Density Sapling	12.5	5		
32	42210 - Natural Red Pine	High Density Pole	9.7	80	51-80	
33	42110 - Planted Red Pine	High Density Pole	9.9	55	111-140	
35	6122 - Black Spruce	Medium Density Pole	70.9	80		
36	42110 - Planted Red Pine	High Density Pole	5.6	55	111-140	
37	4130 - Aspen	High Density Sapling	311.1	25		
39	4130 - Aspen	High Density Sapling	47.6	17		Clumps of very limby log sized red oak.
40	4130 - Aspen	High Density Pole	20.2	41	51-80	

S t	Crystal Falls Mgt. Unit			Report 8	– Forested	Stands Compartment: 009 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	4130 - Aspen	High Density Sapling	64.7	17		
42	4199 - Other Mixed Upland Deciduous	High Density Log	27.0	80	111-140	
43	4130 - Aspen	High Density Sapling	124.3	5		
44	4119 - Mixed Northern Hardwoods	High Density Log	31.9	80	141-170	Scattered large aspen and spruce. A few yellow birch and basswood.
45	4110 - Sugar Maple Association	High Density Pole	12.7	80	111-140	
46	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	5.6	80	81-110	
47	4110 - Sugar Maple Association	High Density Pole	12.1	80	111-140	Lots of sugar maple regen. Most of it 3 to 5 feet tall.
48	4130 - Aspen	High Density Pole	51.8	41	51-80	
49	4130 - Aspen	High Density Sapling	9.1	17		
51	4130 - Aspen	High Density Pole	32.9	41	81-110	Lots of oak and sugar maple left along southern edge of stand when it was harvested.
52	4130 - Aspen	High Density Pole	10.5	80	51-80	Scattered log sized red oak.
54	42340 - Upland Spruce/Fir	High Density Pole	14.0	80	81-110	
55	4130 - Aspen	High Density Pole	11.7	41	51-80	
56	4130 - Aspen	High Density Sapling	39.7	5	1-50	Pockets of pole and log sized red oak.
57	4110 - Sugar Maple Association	High Density Pole	73.9	80	111-140	
59	4110 - Sugar Maple Association	High Density Pole	151.2	80	111-140	small pockets of 6" dia. aspen. Cut only operational trees of this size. Cut most large dia. aspen. Scattered large dia. oak. Open up around these large oak.
60	4116 - Mixed N. Hardwood - Aspen	High Density Pole	5.9	80	111-140	Aspen in verry poor condition.
61	4130 - Aspen	High Density Pole	14.3	41	81-110	

S t	Crystal Falls Mgt. Unit			Report 8	– Forested	Stands Compartment: 009 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	4130 - Aspen	High Density Pole	79.2	41	51-80	
64	6120 - Lowland Cedar	Medium Density Log	22.7	80	51-80	Schwartz creek runs through stand.
65	42110 - Planted Red Pine	High Density Pole	60.6	60	111-140	A few aspen and spruce poles still in stand.
67	4130 - Aspen	High Density Pole	113.7	37	51-80	
68	4130 - Aspen	High Density Sapling	62.4	17		
69	4134 - Aspen, Spruce/Fir	High Density Pole	13.6	80	81-110	Large old aspen, spruce and balsam mixed with pockets of younger aspen.
70	4130 - Aspen	High Density Pole	11.1	41	51-80	
71	42320 - Upland Spruce	High Density Pole	7.8	80	81-110	
72	4130 - Aspen	High Density Sapling	24.2	17		
73	6120 - Lowland Cedar	High Density Pole	78.4	80	81-110	
74	4110 - Sugar Maple Association	High Density Pole	71.3	80	111-140	
75	4134 - Aspen, Spruce/Fir	High Density Log	10.8	80	81-110	
76	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	38.8	80	81-110	Scattered cedar. some wet drains with tag alder and black ash. Some blowdown areas.
77	6122 - Black Spruce	High Density Pole	128.2	80	51-80	
78	4130 - Aspen	High Density Pole	183.0	37	51-80	

Compartment: 009

Year of Entry: 2016

NATURA

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	WICHIGA!
11	3201 - Sweet Fern	7.7	No	Unspecified		
16	3201 - Sweet Fern	61.8	No	Unspecified		
34	3201 - Sweet Fern	17.3	No	Unspecified		
38	3201 - Sweet Fern	4.1	No	Unspecified		
50	3201 - Sweet Fern	27.7	No	Unspecified		
53	3201 - Sweet Fern	9.1	No	Unspecified		
58	6229 - Mixed lowland shrub	15.6	No	Unspecified		
63	3201 - Sweet Fern	40.6	No	Unspecified		
66	3205 - Mixed Upland Shrub	4.6	No	Unspecified		