

# **Compartment Review Presentation**

**Crystal Falls Forest Management Unit** 

Compartment 12050
Entry Year 2019
Acreage: 2,272
County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2017-08-18

Stand Examiner: Scott Sebero

**Legal Description:** 

T43N-R29W SECTIONS 16, 17, 20, 21, 22, 23, 26, 27 & 28.

### **Identified Planning Goals:**

Develop age class distribution in aspen type. Develop the quality while maintaining diversity in hardwood types. Maintain health of conifer types and increase acreage where possible. Develop buffers on lakes and streams. Maintain and improve road system.

### Soil and topography:

Nearly level to hilly, well drained and very poorly drained, loamy and mucky soils that formed in ice-contact drift, glacial till and organic deposits.

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

State lands mixed with private parcels. Lands used mainly for hunting and fishing.

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

Ford River is the Northern boundary and the E. Br. Sturgeon River is the Southern boundary of the compartment.

# Archeological, Historical, and Cultural Features:

Multiple compartments were determined to have no known archaeological sites within them; we have no concerns for these compartments: 10, 14, 30, 50, 70, 75, 93, 112, 116, 138, 142, 144, 156, 166, and 186.

# **Special Management Designations or Considerations:**

None.

#### Watershed and Fisheries Considerations:

The Ford River runs north along the compartments border and the EB of the Sturgeon River runs south of this compartments border. Both of important trout streams and require a 300 foot buffer in riparian areas susceptible to Aspen regeneration. For all other riparian areas, BMPs should be followed to maintain canopy cover and prevent erosion into waterbodies. Vernal pools and intermittent streams should be protected as well.

#### Wildlife Habitat Considerations:

Featured species include American woodcock, black bear, northern goshawk, ruffed grouse, and white-tailed deer. It would beneficial to all featured species to continue to manage this compartment for age class diversity and to retain what lowland complexes there are for compartment species diversity.

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

Former sand/gravel pits are located in sections 15 and 20, but potential for additional gravel within the compartment appears to be limited. There may be some sand and clay potential. There has been no metallic mineral mining within seven miles of the compartment. There has been metallic mineral leasing in the area in the recent past and potential may still exist within the compartment. There is no economic oil and gas production in the UP.

#### **Vehicle Access:**

Access to compartment is through private or corporate land by woods roads off Lerza Road, which comes off the Leeman Road.

### **Survey Needs:**

None.

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

Snowmobile trail is located just to the West of the compartment and borders the West side of stand 11.

#### **Fire Protection:**

# **Additional Compartment Information:**

None.

The following reports from the Inventory are attached:

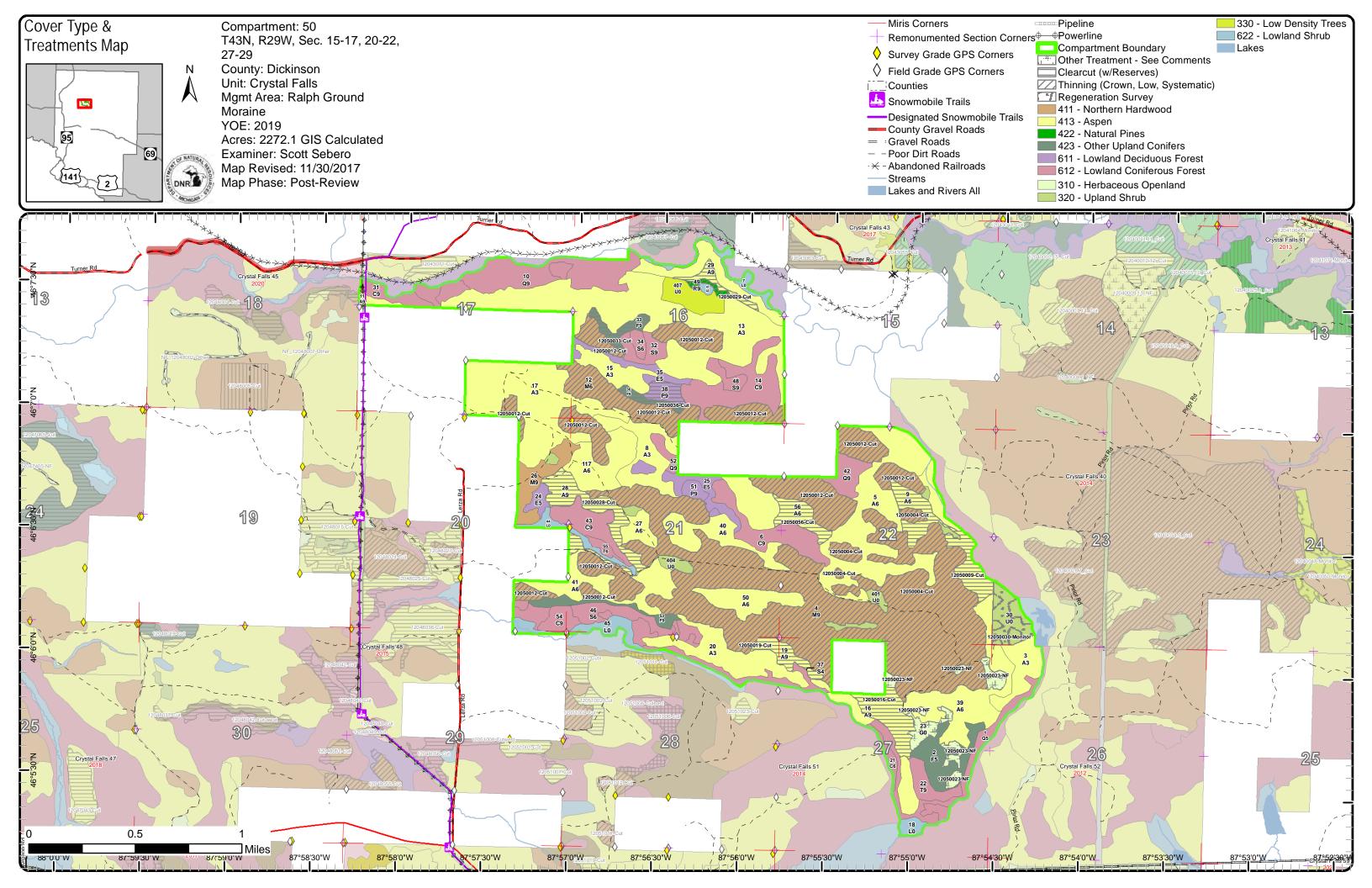
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

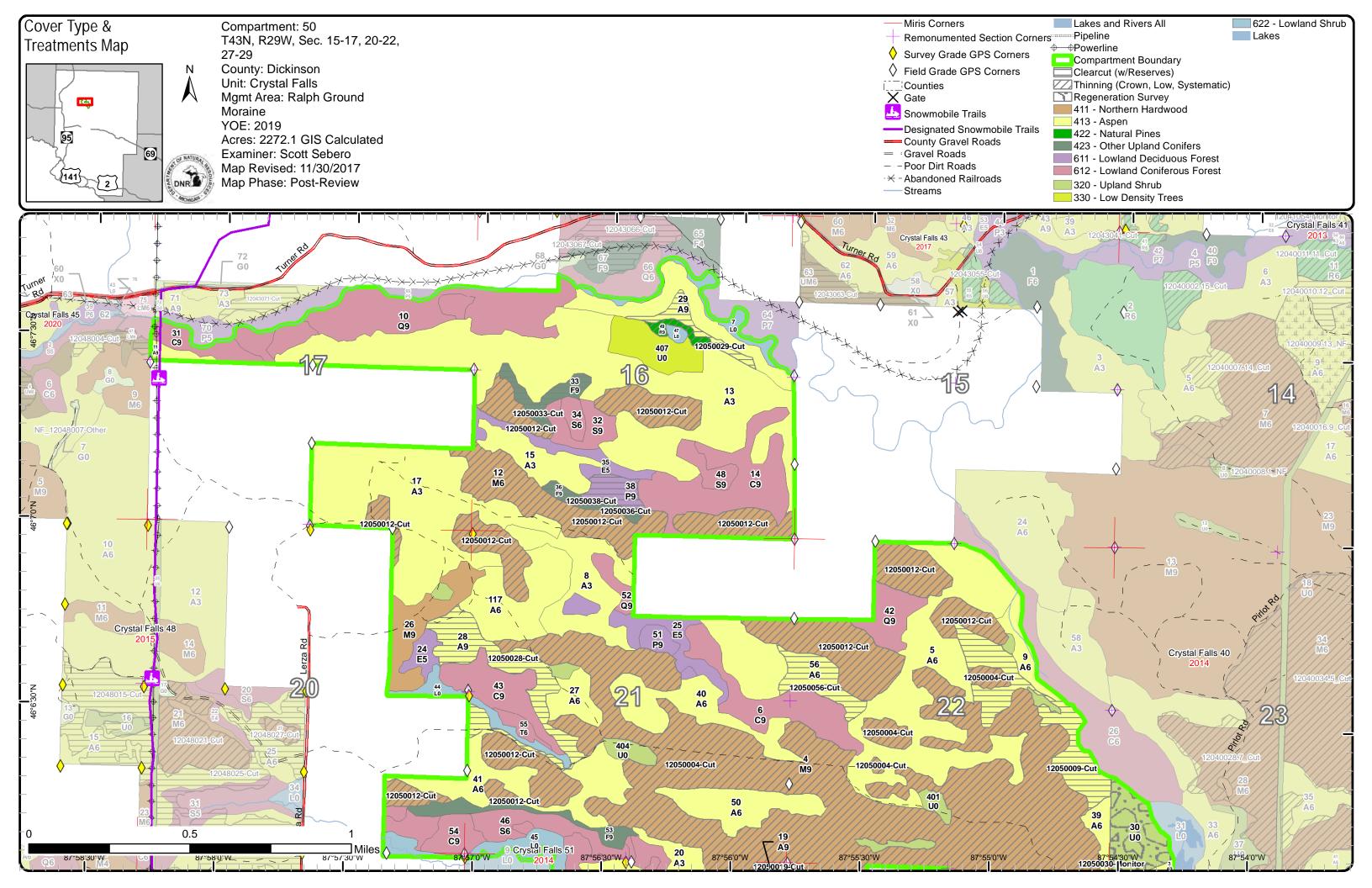
The following information is displayed, where pertinent, on the attached compartment maps:

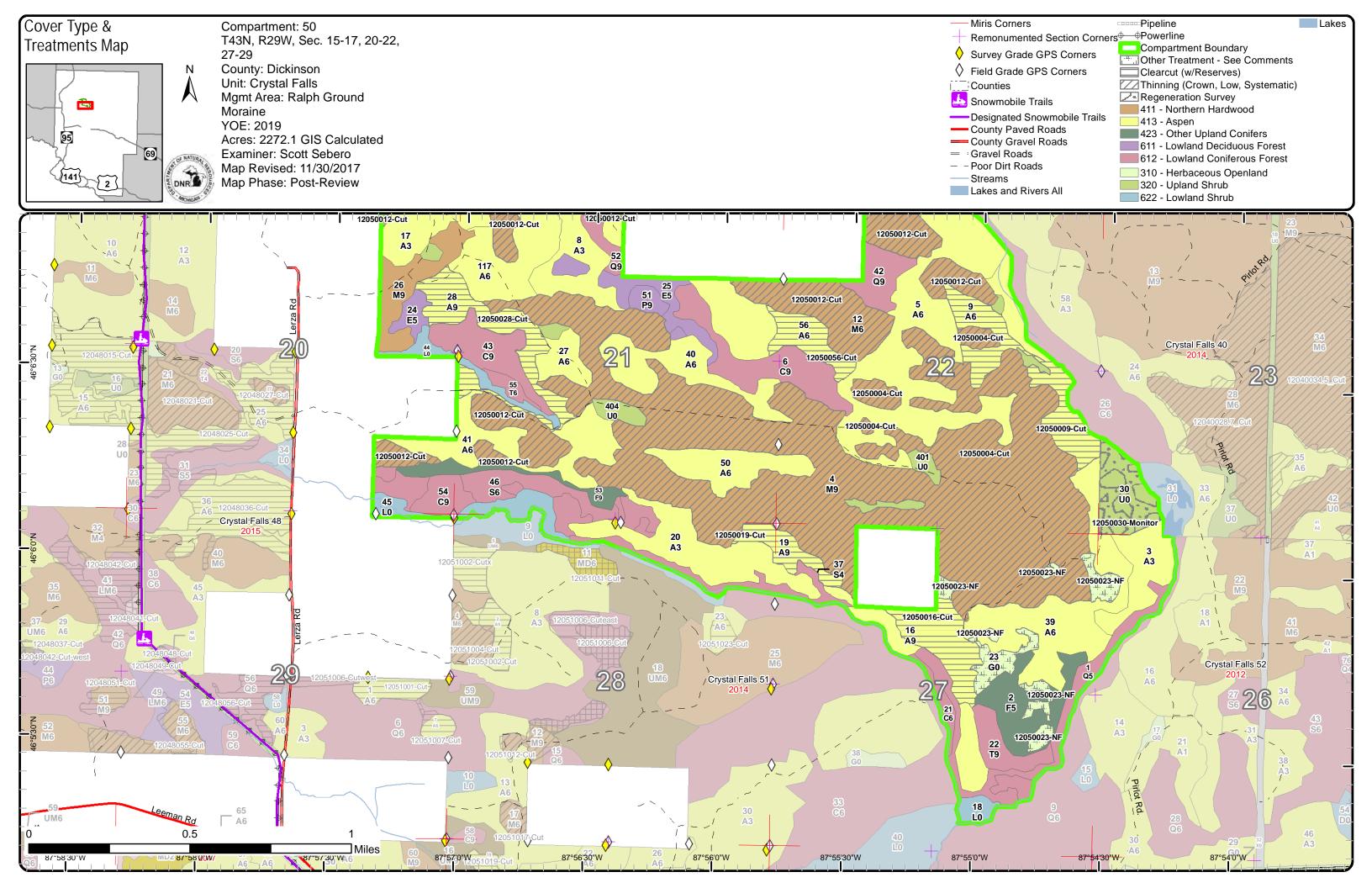
Base feature information, stand boundaries, cover types, and numbers Proposed treatments

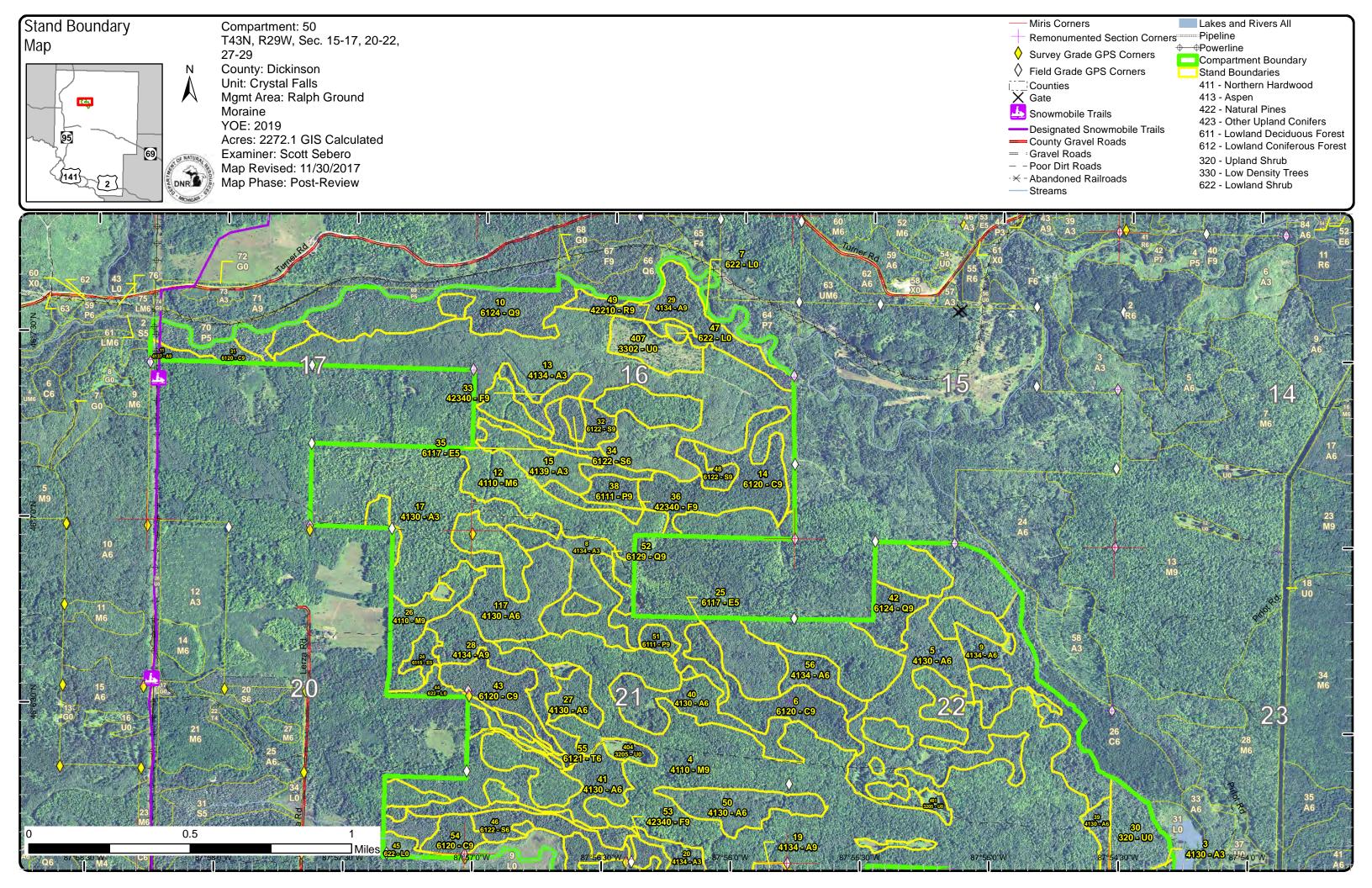
Site condition boundaries

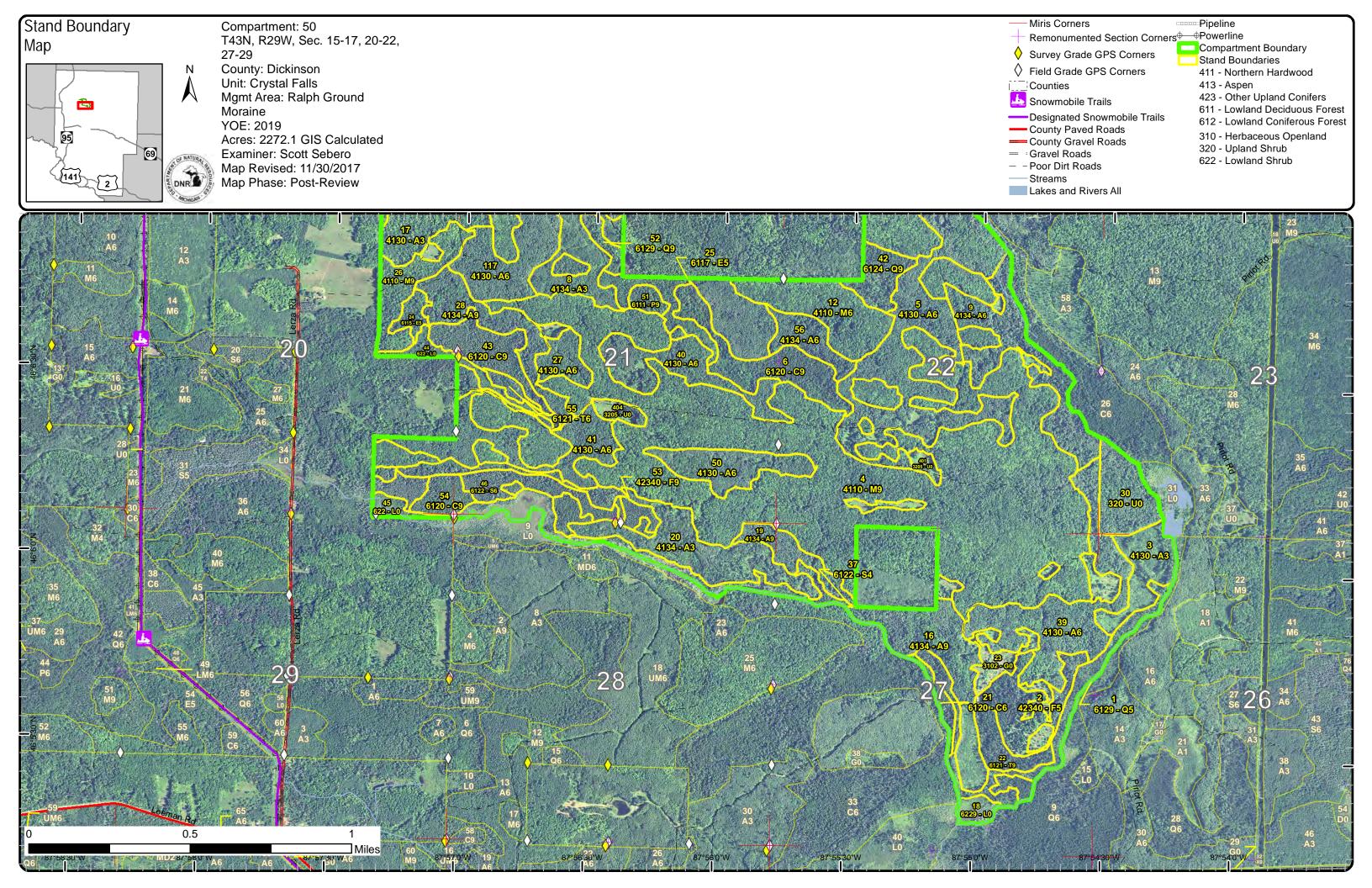
Details on the road access system

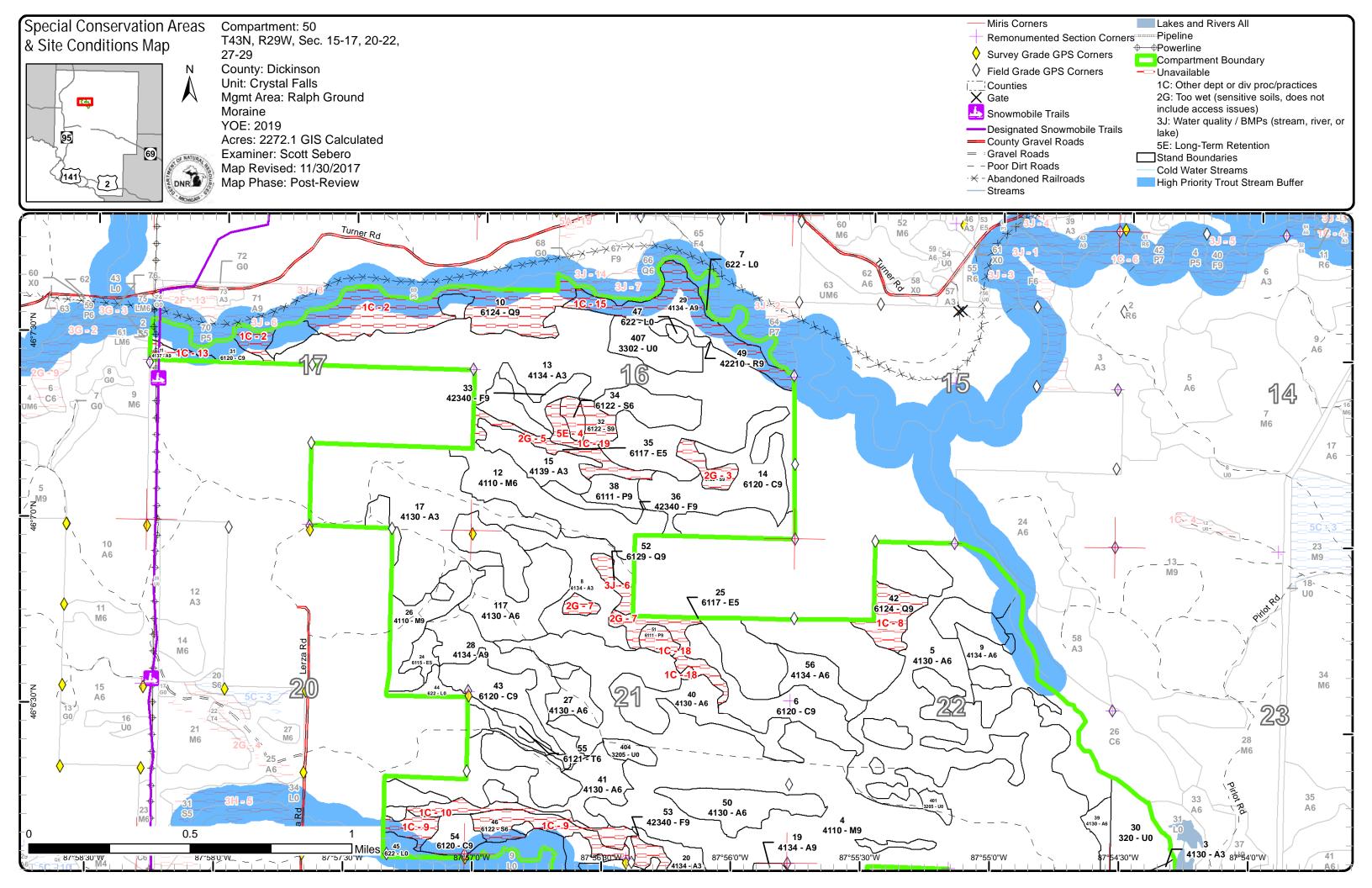


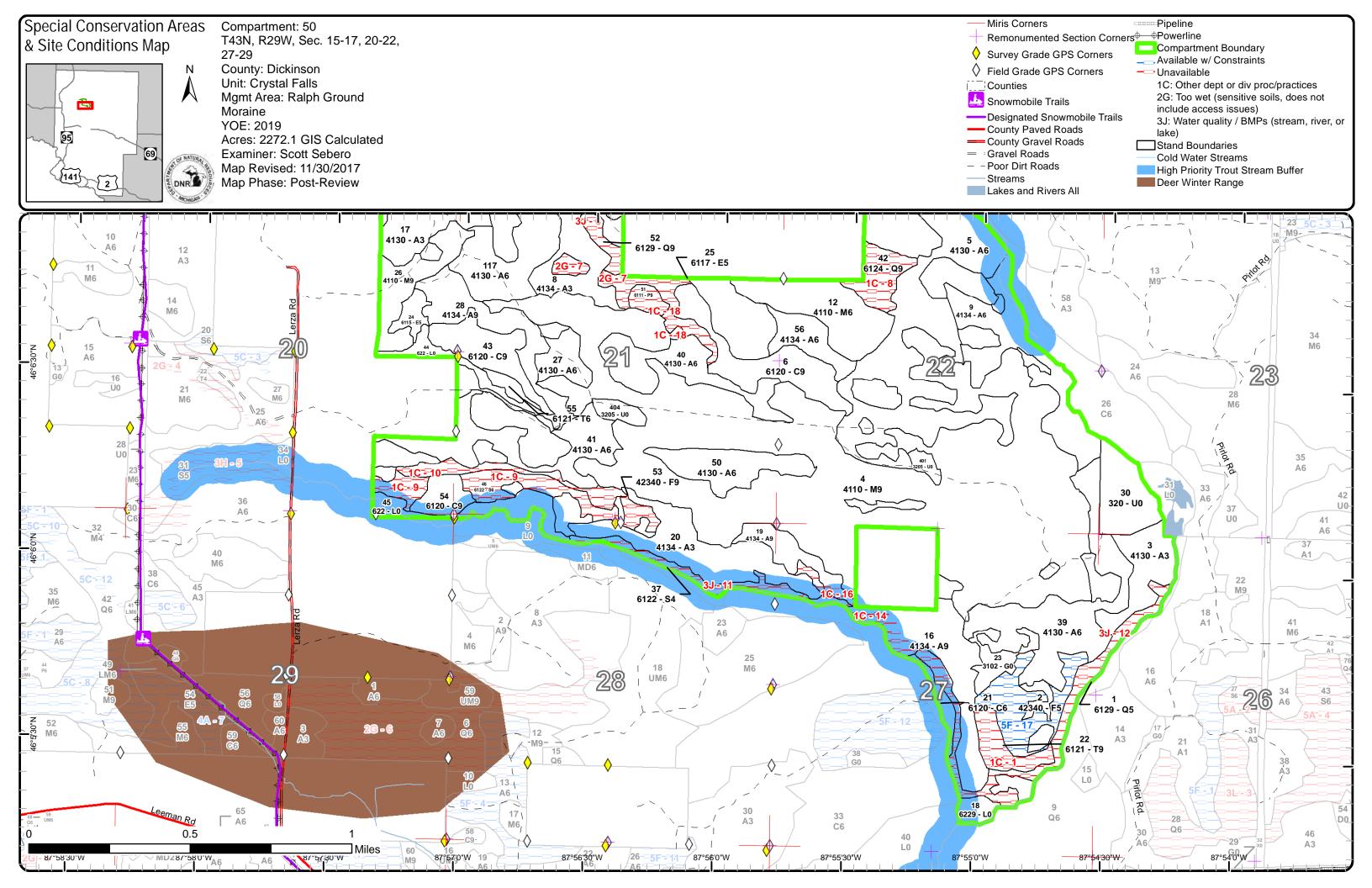












Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment 50

Year of Entry 2019



## Age Class

														_					
	¥or	A ST CONTRACTOR						, 3 / &				S John S	20,100				List List	*   Jros	Non Low
Aspen	0	145	58	225	0	406	0	0	0	51	75	0	0	0	0	0	0	0	960
Cedar	0	0	0	0	0	0	0	0	0	55	104	0	0	0	0	0	0	0	159
Herbaceous Openland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Low-Density Trees	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	0	0	0	0	30	86	0	0	0	0	0	0	0	116
Lowland Deciduous	0	0	0	0	0	0	6	0	0	0	31	0	0	0	0	0	0	0	37
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	45	25	0	0	0	0	0	0	0	70
Northern Hardwood	0	0	0	0	0	0	0	0	0	697	0	0	0	0	0	0	0	0	697
Red Pine	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Tamarack	0	0	0	0	0	0	0	4	0	14	0	0	0	0	0	0	0	0	18
Upland Shrub	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Upland Spruce/Fir	0	0	0	0	0	28	0	10	0	13	6	0	0	0	0	0	0	0	57
Total	139	145	58	225	0	434	6	14	0	905	346	0	0	0	0	0	0	0	2271



# **Report 2 – Treatment Summary**

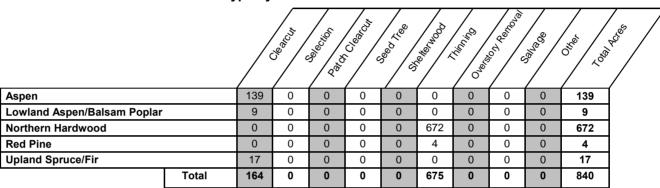
Crystal Falls Mgt. Unit Year of Entry: 2019

#### **Acres of Harvest**

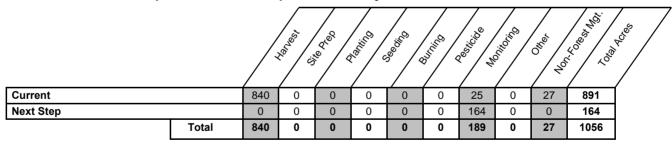
Compartment 50
Total Compartment Acres: 2,272

Commercial Harvest - 840 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Method**



Compartment: 50 Year of Entry: 2019

а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** n Objective Name CoverType Density Age Range Type Method Structure **Status** d 12050004-Cut 455.1 4110 - Sugar Maple Sawtimber Crown Thinning 411 - Northern Approved 111-Harvest Even-Aged Association Well 140 Hardwood Proposal

**Habitat Cut: No Site Condition:** 

Prescription Mark hardwood to 80 BA using compleat marker as guide. Aspen, spruce and balsam with one or more pulpwood stick will be designated to Specs:

cut. No cedar, hemlock, oak, red or white pine or sub merchantable spruce or balsam will be cut.

Next Step **Treatments:** 

s

t

Acceptable Regen:

Mark out wet cedar drains.

Comment:

Other

**Proposed Start Date:** 10/01/2018

Poletimber 12050009-Cut 37.8 4134 - Aspen. 45 81-110 Harvest Clearcut with 4134 - Aspen. Even-Aged Approved Spruce/Fir Well Retention Spruce/Fir Proposal

**Habitat Cut: No** Site Condition:

Prescription Cut all aspen and mixed hardwood, except oak, two inches or greater DBH. Cut all spruce, balsam, tamarack and jack pine with one or more

pulpwood sticks. No cedar, hemlock, red or white pine will be cut. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable mix of aspen, spruce and balsam.

Regen:

300 ft. buffer on trib to Ford River in NE portion of stand. Other

Comment:

**Proposed Start Date:** 10/01/2018

12050012-Cut 216.6 4110 - Sugar Maple Poletimber 85 Crown Thinning 411 - Northern Even-Aged 111-Harvest Approved Association Proposal 140 Hardwood

**Habitat Cut: No Site Condition:** 

Prescription Mark hardwood to 80 BA using compleat marker as guide. Aspen, spruce and balsam with one or more pulpwood stick will be designated to

cut. No cedar, hemlock, oak, red or white pine or sub merchantable spruce or balsam will be cut. Specs:

Next Step **Treatments:** 

<u>Acceptable</u>

Regen:

**Other** Mark out wet cedar drains.

Comment:

**Proposed Start Date:** 10/01/2018

12050016-Cut 4134 - Aspen, 81-110 27.2 Sawtimber 85 Clearcut with 4134 - Aspen, Harvest Even-Aged Approved Spruce/Fir Well Retention Spruce/Fir Proposal

**Habitat Cut: No Site Condition:** 

Prescription Cut all aspen and mixed hardwood, except oak and cherry, two inches or greater DBH. Cut all spruce, balsam, tamarack and jack pine with one Specs:

or more pulpwood sticks. Cut all cherry with two or more pulpwood sticks. No cedar, hemlock, red or white pine will be cut.

Monitoring, Natural Regen (Re-Inventory) Next Step

**Treatments:** 

Acceptable Mix of aspen, spruce and balsam.

Regen:

300 ft. buffer on Sturgeon River. Other

Comment:

**Proposed Start Date:** 10/01/2018

Crystal Falls Mgt. Unit Report 3 -- Treatments Compartment: 50 s Year of Entry: 2019 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age **Approval** n Method Objective Name CoverType Density Age Range Type Structure **Status** d 19 12050019-Cut 13.5 4134 - Aspen, Sawtimber 85 81-110 Clearcut with 4134 - Aspen, Approved Harvest Even-Aged Spruce/Fir Well Retention Spruce/Fir Proposal **Site Condition: Habitat Cut: No** Prescription Cut all aspen and mixed hardwood, except oak, two inches or greater DBH. Cut all spruce, balsam, tamarack and jack pine with one or more Specs: pulpwood sticks. No cedar, hemlock, red or white pine will be cut. Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable Mix of aspen, spruce and balsam. Regen: Other 300 ft. buffer on Sturgeon River. Comment: **Proposed Start Date:** 10/01/2018 12050023-NF 26.8 3102 - Grass Nonstocked 0 Unspec NonForestMgt Other - Specify 3102 - Grass Approved ified Proposal **Habitat Cut: No Site Condition:** Prescription WLD will manage to keep as an opening via mechanical / Rx burn. WLD will also manage mast plantings currently in openings. Specs: Next Step **Treatments:** Acceptable Regen: Other Comment: **Proposed Start Date:** 10/01/2018 12050028-Cut 36.4 4134 - Aspen, Sawtimber 90 81-110 Clearcut with 4134 - Aspen, Even-Aged Harvest Approved Spruce/Fir Well Retention Spruce/Fir Proposal **Habitat Cut: No Site Condition:** Prescription Cut all aspen and mixed hardwood, except oak, two inches or greater DBH. Cut all spruce, balsam, tamarack and jack pine with one or more pulpwood sticks. No cedar, hemlock, red or white pine will be cut. Specs: Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** 

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other Mark out drains and E-types at sale setup.

Comment:

**Proposed Start Date:** 10/01/2018

12050029-Cut 7.7 4134 - Aspen, 111-Sawtimber 90 Clearcut with 4134 - Aspen, Harvest Even-Aged Approved 140 Retention Spruce/Fir Proposal

Spruce/Fir Well

Prescription Cut all aspen and mixed hardwood, except oak, two inches or greater DBH. Cut all spruce, balsam and jack pine with one or more pulpwood

Specs: sticks. No cedar, hemlock, red or white pine will be cut.

**Site Condition:** 

Monitoring, Natural Regen (Re-Inventory) Next Step

**Treatments:** 

**Habitat Cut: No** 

Acceptable Mix of aspen, spruce, balsam and pine.

Regen:

Other 300 ft. buffer on Ford River.

Comment:

**Proposed Start Date:** 10/01/2018

											MATU
s		Crystal	l Falls Mgt. Unit		Re	eport 3	Treatme	nts	•	tment: 50 Entry: 2019	OF NATURAL P
t a										,	DNR DICHIGAN
n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
3	12050030- Monitor	24.8	4130 - Aspen	Sapling Well	3	Immatu re	Monitoring	Natural Regen (Re-Inventory)	4130 - Aspen	Even-Aged	Draft Field Boundary
Habita Prescr Specs:			Site Condition:								
Next S Treatm											
Accept Regen	table Mix of a	aspen, spr	ruce and fir.								
Other Comm		t to Treat	= 100%								
	sed Start Date	-	7/2017								
33 1	2050033-Cut	10.4	42340 - Upland Spruce/Fir	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Approved Proposal
			Site Condition: d mixed hardwood tw wood sticks. No ced					black ash Cut all s	spruce, balsam, ta	amarack and ja	ck pine with
Next S Treatm		ring, Natui	ral Regen (Re-Invent	ory)							
Accept Regen		aspen, spr	ruce, balsam and ma	ıple.							
Other Comm	ent:										
Propos	sed Start Date	<u>:</u> 10/01	1/2018								
36 1	2050036-Cut	6.3	42340 - Upland Spruce/Fir	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Approved Proposal
	_		Site Condition: d mixed hardwood, e. No cedar, hemlock,					t all spruce, balsam	ı, tamarack and ja	ck pine with or	ne or more
Next S Treatm		ring, Natui	ral Regen (Re-Invent	ory)							
Accept Regen		aspen, spr	ruce and balsam.								
Other Comm	ent:										
Propos	sed Start Date	<u>:</u> 10/01	1/2018								
38 1	2050038-Cut	9.2	6111 - Lowland Balsam Poplar	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	6111 - Lowland Balsam Poplar	Even-Aged	Approved Proposal
			Site Condition:  d mixed hardwood, e No cedar, hemlock,	xcept oak,						ck pine with or	·

Treatments:

Acceptable Mix of balm, aspen, spruce, balsam and tamarack.

Regen:

<u>Other</u> Winter cut because of wet soils.

Next Step Monitoring, Natural Regen (Re-Inventory)

Comment:

10/01/2018 Proposed Start Date:

Crystal Falls Mgt. Unit Report 3 -- Treatments Compartment: 50 s Year of Entry: 2019 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type Approval** Age n Method Objective d Name CoverType Density Age Range Type Structure **Status** 12050049-Cut 49 3.6 42210 - Natural Sawtimber 90 141-Harvest Crown Thinning 4221 - Natural Even-Aged Approved Red Pine Well 170 Red Pine Proposal **Habitat Cut: No Site Condition:** Prescription Mark red pine to 100 BA. Cut all Mixed hardwood, aspen, spruce and balsam with one or more pulpwood stick. No cedar, hemlock or white pine Specs: will be cut. Next Step Treatments: <u>Acceptable</u> Regen: Other Comment: 10/01/2018 **Proposed Start Date:** 12050056-Cut 15.9 4134 - Aspen, Poletimber 42 81-110 Harvest Clearcut with 4134 - Aspen, Even-Aged Approved Spruce/Fir Well Retention Spruce/Fir Proposal **Habitat Cut: No Site Condition:** Prescription Cut all aspen and mixed hardwood, except oak, two inches or greater DBH. Cut all spruce, balsam, tamarack and jack pine with one or more pulpwood sticks. No cedar, hemlock, red or white pine will be cut. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable Mix of aspen, spruce and balsam.

Regen:

Other Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed:

891.3

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 50 Year of Entry: 2019

Availa	ability for	Managemer	ıt						
Total	Acres	Acres Avail	Acres	D	omina	nt Site	Con	dition	s
Acres	Available	With Condition	Not Available		5F	1C	2G	3J	5E
959	919	0	41	Aspen		41			
159	159	0	0	Cedar					
27	27	0	0	Herbaceous Openland					
20	20	0	0	Low-Density Trees					
15	9	0	6	Lowland Aspen/Balsam Poplar		6			
116	0	0	116	Lowland Conifers		80		36	
38	6	0	31	Lowland Deciduous			31		
47	47	0	0	Lowland Shrub					
70	0	0	70	Lowland Spruce/Fir		42	8	16	5
697	697	0	0	Northern Hardwood					
4	4	0	0	Red Pine					
18	4	0	14	Tamarack		14			
44	44	0	0	Upland Shrub					
58	17	28	13	Upland Spruce/Fir	28	13			
2,272	1,953	28	291	Total Forested Acres	28	195	39	52	5
	86%	1%	13%	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			
1	Unavailable	1C: Other dept or div proc/practices	14	Unspecified	Unspecified	Unspecified	Unspecified			
Comments: Wildlife Division would like to hold stand for 10 years. FRD would like to harvest stand when stand 2 is cut.										
2	Unavailable	1C: Other dept or div proc/practices	65	Unspecified	Unspecified	Unspecified	Unspecified			
Comments: 300 foot buffer on Ford River per Fish Division request.										
		•								

# Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 50 Year of Entry: 2019

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Several small creek	ks winding through stand.					
4	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Seed source for su	rrounding stand.					
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Intermittent stream	running through stand.					
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Intermittent stream	running through stand.					
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Series of seeps and	d ponds in stand.					
8	Unavailable	1C: Other dept or div proc/practices	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retained per Wildli	fe Division request for deer cove	er and	travel corridor.			

# **Report 4 – Site Conditions**

**Crystal Falls Mgt. Unit** 

**Scott Sebero : Examiner** 

Compartment: 50 Year of Entry: 2019

9	Unavailable	1C: Other dept or div proc/practices	29	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Wildlife Division red	quest to retain for deer cover ar	nd trave	l corridor. Buffer for Sturgeor	ı River.		
10	Unavailable	1C: Other dept or div proc/practices	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Wildlife Division red	quest for deer cover and travel	corridor				
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Buffer for Sturgeon	River.					
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Buffer for Sturgeon	River.					
13	Unavailable	1C: Other dept or div proc/practices	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Fish Division asked	I for 300 foot buffer on the Ford	l River.				
14	Unavailable	1C: Other dept or div proc/practices	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Fish asked for a 30	0 foot buffer on Sturgeon Rive					

# **Report 4 – Site Conditions**

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 50 Year of Entry: 2019

15	Unavailable	1C: Other dept or div proc/practices	27	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Fish Division asked	l for a 300 foot buffer along For	rd River				
16	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Fish Division asked	l for 300 foot buffer along Sturg	geon Riv	er.			
17	Available	5F: Evaluated for Forest Health Considerations	28	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Hold for 10 years, ι	unless impacted by budworm.					
18	Unavailable	1C: Other dept or div proc/practices	6	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Wildlife Division wa	nts to reserve stand for bear h	abitat.				
19	Unavailable	1C: Other dept or div proc/practices	12	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Wildlife Division wa	nts to save stand for bear habi	tat.				

11/30/2017 1:28:33 PM - Page 4 of 4 SWARTZN3

Mgt. Unit

Compartment: #Type! Year of Entry:



## Report 5 - 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				

Crystal Falls Mgt. Unit Compartment: 50
Year of Entry 2019



# Report 6 – 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.

Conservation Area	n Type	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 oxygen of stocked trout populations and those of other coldwater fish spear to year. Coldwater streams in Michigan typically provide contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	pecies (e.g., slimy sculpin) to persist from these conditions due to substantial
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their eas aesthetics, habitat, bank stability, timber production, and to	f the unique conditions adjacent to lakes, gh diversity of plants and wildlife. Riparian effects on water quality and quantity, as well

s t	Crystal Falls	Mgt. Unit		Report 7	- Forested	Stands Compartment: 50 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	30.2	80	51-80	
2	42340 - Upland Spruce/Fir	Poletimber Medium	28.1	42	51-80	Spruce budworm present.
3	4130 - Aspen	Sapling Well	35.6	3	Immature	OPIC - FMD: Start to break up stand next entry.
4	4110 - Sugar Maple Association	Sawtimber Well	455.1	85	111-140	OPIC - FMD: OI Stand Year Origin was 1932
5	4130 - Aspen	Poletimber Well	127.6	42	81-110	
6	6120 - Lowland Cedar	Sawtimber Well	34.9	90	111-140	
8	4134 - Aspen, Spruce/Fir	Sapling Well	36.9	14	Immature	
9	4134 - Aspen, Spruce/Fir	Poletimber Well	48.5	45	81-110	cut. some budworm present. some older aspen and fir mixed in throughout stand.
10	6124 - Lowland Spruce- Fir	Sawtimber Well	64.6	90	51-80	Pockets of black spruce and balsam scattered throughout the stand. Much of stand is balm and ash with a scattered few spruce or balsam.
11	4137 - Aspen, Birch	Sawtimber Well	4.3	90	81-110	Aspen breaking up. Converting to hardwood. Most of stand on steep hill.
12	4110 - Sugar Maple Association	Poletimber Well	216.6	85	111-140	
13	4134 - Aspen, Spruce/Fir	Sapling Well	178.2	24	Immature	Many seeps and drains in stand. These drains are populated with balm.
14	6120 - Lowland Cedar	Sawtimber Well	47.4	90	111-140	OPIC - FMD: OI Stand Year Origin was 1927
15	4139 - Aspen, Mixed Deciduous	Sapling Well	21.2	14	Immature	
16	4134 - Aspen, Spruce/Fir	Sawtimber Well	35.3	85	81-110	
17	4130 - Aspen	Sapling Well	109.8	6	Immature	Ford River Aspen sale # 12-072-10-01
19	4134 - Aspen, Spruce/Fir	Sawtimber Well	15.3	85	81-110	cut

S	Crystal Falls	s Mgt. Unit		Report 7	<ul><li>Forested</li></ul>	Stands Compartment: 50 Year of Entry: 2019
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4134 - Aspen, Spruce/Fir	Sapling Well	46.5	27	Immature	
21	6120 - Lowland Cedar	Poletimber Well	9.7	80	111-140	
22	6121 - Tamarack	Sawtimber Well	13.6	80	81-110	
24	6115 - Lowland Ash	Poletimber Medium	6.3	50	1-50	Very wet.
25	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	18.4	90	51-80	
26	4110 - Sugar Maple Association	Sawtimber Well	25.1	85	81-110	OPIC - FMD: OI Stand Year Origin was 1932
27	4130 - Aspen	Poletimber Well	12.2	42	81-110	
28	4134 - Aspen, Spruce/Fir	Sawtimber Well	36.4	90	81-110	Aspen has fallen out of some of the stand. Areas of blowdown. Some younger aspen and balsam mixed in along east side of stand.
29	4134 - Aspen, Spruce/Fir	Sawtimber Well	34.4	90	111-140	Heavy budworm damage. Stand starting to break up.
31	6120 - Lowland Cedar	Sawtimber Well	21.7	90	81-110	
32	6122 - Black Spruce	Sawtimber Well	12.2	90	51-80	Stand starting to break up. pockets of blow down.
33	42340 - Upland Spruce/Fir	Sawtimber Well	10.4	60	81-110	Stand impacted by budworm.
34	6122 - Black Spruce	Poletimber Well	4.8	90	81-110	Stand looks to be in good shape.
35	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	12.9	90	51-80	
36	42340 - Upland Spruce/Fir	Sawtimber Well	6.3	90	81-110	
37	6122 - Black Spruce	Poletimber Poor	15.8	85	1-50	Borders the Sturgeon River.
38	6111 - Lowland Balsam Poplar	Sawtimber Well	9.2	90	81-110	
39	4130 - Aspen	Poletimber Well	62.6	42	81-110	

S t	Crystal Falls	Mgt. Unit		Report 7	– Forested Stands	Compartment: 50 Year of Entry: 2019	DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN
40	4130 - Aspen	Poletimber Well	33.6	42	81-110		
41	4130 - Aspen	Poletimber Well	40.9	42	81-110		
42	6124 - Lowland Spruce- Fir	Sawtimber Well	15.6	90	81-110	cut.	
43	6120 - Lowland Cedar	Sawtimber Well	24.0	85	111-140		
46	6122 - Black Spruce	Poletimber Well	29.4	85	81-110		
48	6122 - Black Spruce	Sawtimber Well	7.8	90	81-110	Several small creeks wind through stand.	
49	42210 - Natural Red Pine	Sawtimber Well	3.6	90	141-170	Should be thinned.	
50	4130 - Aspen	Poletimber Well	27.1	42	51-80		
51	6111 - Lowland Balsam Poplar	Sawtimber Well	6.2	90	81-110		
52	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	6.0	90	81-110		
53	42340 - Upland Spruce/Fir	Sawtimber Well	12.7	85	81-110		
54	6120 - Lowland Cedar	Sawtimber Well	21.6	85	111-140		
55	6121 - Tamarack	Poletimber Well	4.1	60	111-140		
56	4134 - Aspen, Spruce/Fir	Poletimber Well	15.9	42	81-110	cut.	
117	4130 - Aspen	Poletimber Well	37.2	42	81-110		

Compartment: 50 Year of Entry: 2019



Stand	Cover Type	Acres	Managed Site	General Comments:
7	622 - Lowland Shrub	11.7	No	OPIC - FMD: SCA- Ford river corridor.
18	6229 - Mixed lowland shrub	5.7	No	OPIC - FMD: Start to break up stand next entry.
23	3102 - Grass	26.8	No	Russian Olive planted in NW portion. Openings growing in with tree seedlings.
30	320 - Upland Shrub	25.2		
44	622 - Lowland Shrub	10.4	No	OPIC - FMD: OI Stand Year Origin was
45	622 - Lowland Shrub	17.7	No	OPIC - FMD: OI Stand Year Origin was
47	622 - Lowland Shrub	1.7	No	
401	3205 - Mixed Upland Shrub	9.9	No	OPIC - FMD: OI Stand Year Origin was
404	3205 - Mixed Upland Shrub	9.4	No	OPIC - FMD: OI Stand Year Origin was
407	3302 - Low Density Conifer Trees	19.8	No	OPIC - FMD: Filling in with cherry and spruce seedlings.