

Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71176 Entry Year 2017 Acreage: 1,597 County Ogemaw Management Area: Kirtland's Warbler

Revision Date: 2015-08-05

Stand Examiner: Dale Ekdom

Legal Description:

T24N R01E Sections 21-23

Identified Planning Goals:

The Kirtland's Warbler management area (MA) consists of fifteen units of land that are managed for the federally endangered Kirtland's warbler. Kirtland's warbler management is guided by two documents: Kirtland's Warbler Breeding Range Conservation Plan and Operational Plan for Kirtland's Warbler Habitat Management on Michigan State Forests. Of the 148,017 acres of state forest land that make up the Kirtland's Warbler management area, approximately 90,000 acres, most of the jack pine in the management area, have been identified as essential habitat where management is done in accordance with the Kirtland's Warbler Conservation Plan and Operational Plan. Management on the portion that is not classified as essential habitat will emphasize balancing the age classes of aspen and red pine and regenerating the aging oak resource. Management activities may be constrained or modified based on management recommendations described in the Conservation Strategy Expected trends within this 10-year planning period are introduced pests and diseases and assuring jack pine regeneration on Kirtland's warbler sites.

Soil and topography:

Terrain is flat to very gently rolling. Soils are Grayling and Graycalm sands.

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

This compartment is a solid block of state ownership and is surrounded by state land except on the southeast side in section 26 which is private property with both permanent residences and seasonal cabins.

Unique Natural Features:

None known or detected during fieldwork.

Archeological, Historical, and Cultural Features:

None known or detected during fieldwork.

Special Management Designations or Considerations:

This compartment contains portions of 4 Kirtland's Warbler cutting blocks.

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Maintain jack pine type in age classes as determined by the Kirtland's Warbler Recovery Plan to benefit Kirtlands warbler as well as other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Mississippian Marshall Sandstone and Coldwater Shale. The Marshall has been used as a building stone in the past. The nearest gravel pit is located two and one-half miles to the southwest and potential appears to be limited. One part of the Rose City Field is located in Section 21. The field has produced over 9.3 million bbls of oil and 9.9 Bcf of gas from the Devonian Richfield Member. The main field also produces from the Prairie du Chien and has produced over 31 Bcf gas and 200,000 bbls of oil. Nearly all of Section 21 is currently leased and those leases are held by production. There is also one leased parcel in Section 23.

Vehicle Access:

Vehicle access to the exterior of the compartment is good via seasonal county roads on the section lines. Vehicle access into the interior of each section is fair to good via forest roads and oil well roads.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

There are no developed recreational facilities in the compartment but it is heavily used for dispersed recreational activities such as hunting.

Fire Protection:

This compartment is almost entirely jack pine and is within the Zone III dispatch area for wildfire response. There is a well developed wildland-urban interface to the SE of the compartment in Section 26. There are also 11 wells with related surface and underground pipes in section 21.

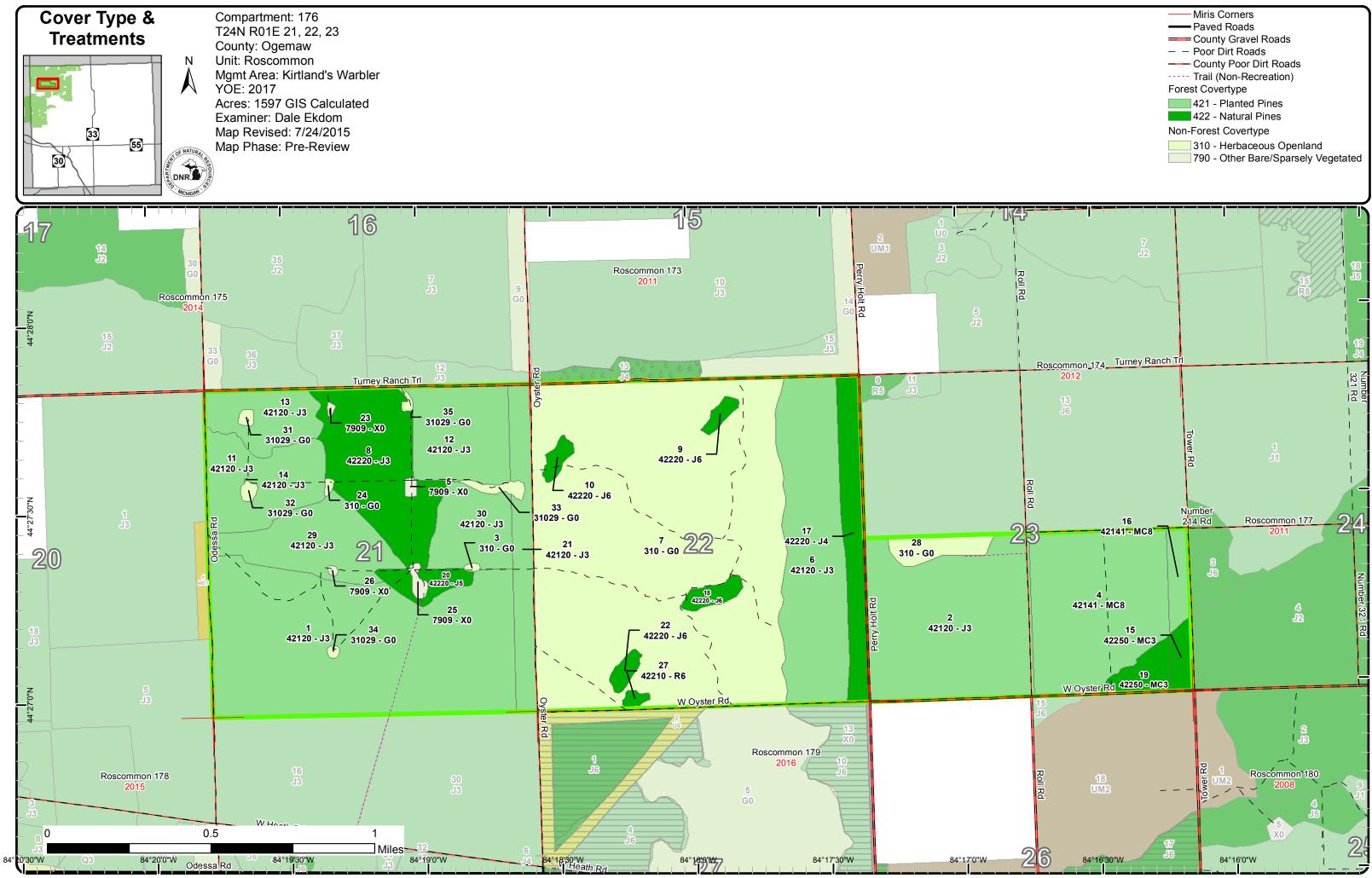
Additional Compartment Information:

No treatments are proposed for this year-of-entry in the compartment per the KWRP.

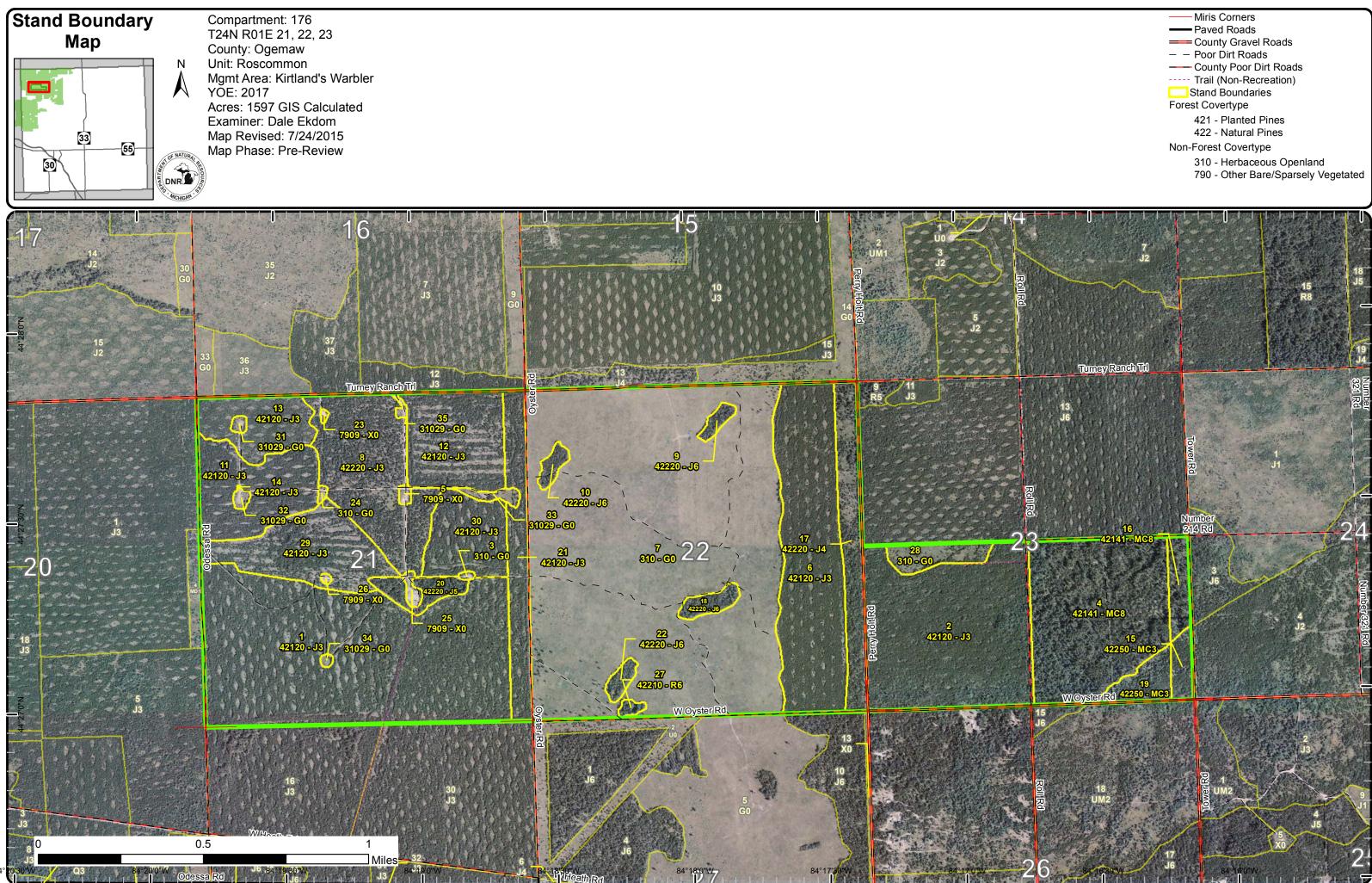
The following reports from the Inventory are attached:

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

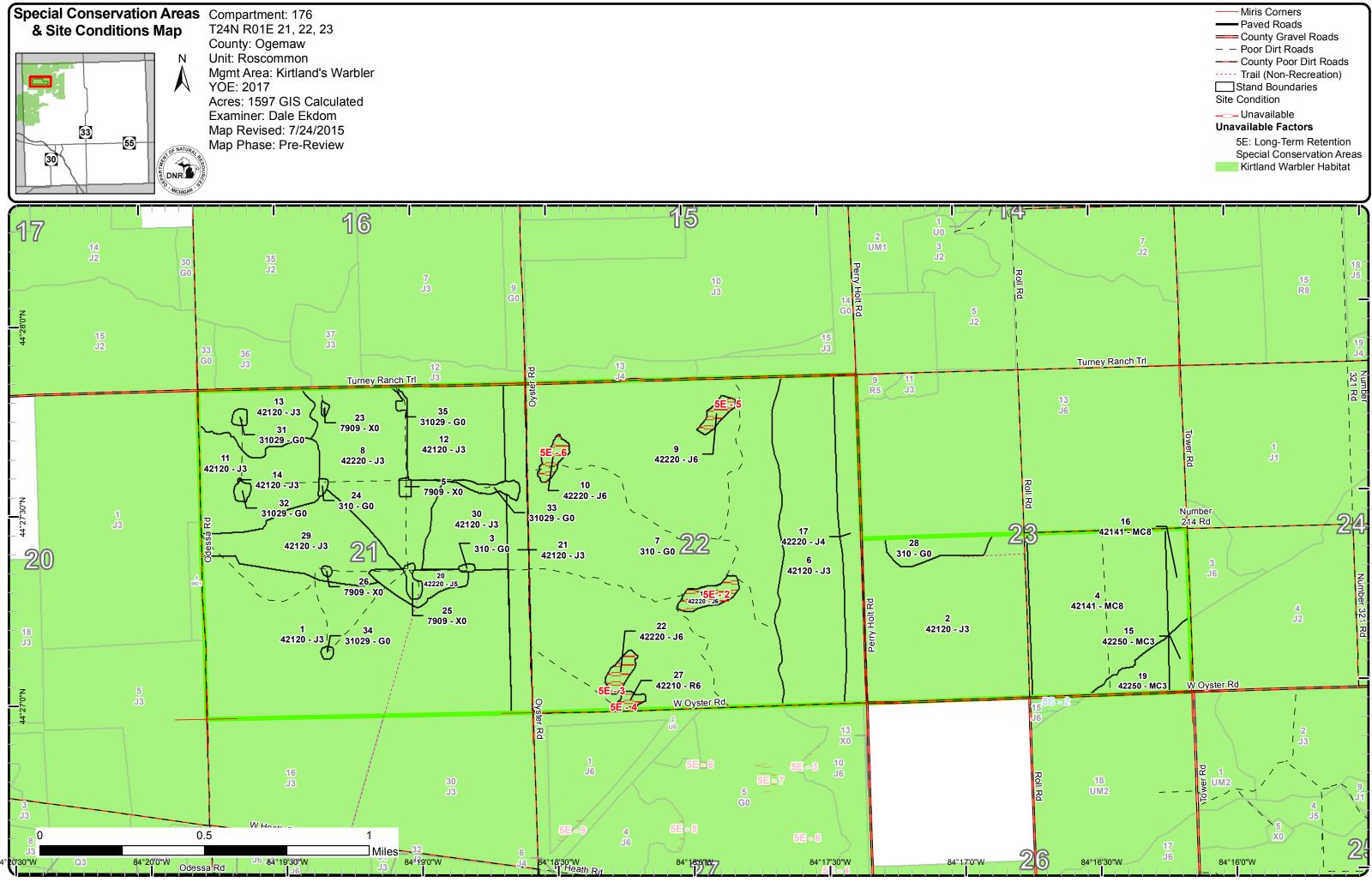
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system











Report 1 – Total Acres by Cover Type and Age Class

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment 176 Year of Entry 2017



Age Class

	40°	AND CONTRACTOR	03	61.00 43	67 (2) 67 (2)	3	01 10 10 10 10 10 10 10 10 10 10 10 10 1	8	5 ⁶⁰ .5	\$ ^{\$} \$	89 89 89 89	83 (G	120°	2. 	67 47 473	67.73 1.73	OF LAND	PX Jun	And No.
Bare/Sparsely Vegetated	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Herbaceous Openland	488	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	488
Jack Pine	0	0	0	341	574	0	30	0	0	0	0	0	0	0	0	0	0	0	945
Natural Mixed Pines	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	132
Red Pine	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Total	493	0	0	364	574	0	30	2	0	0	0	0	0	0	0	0	0	132	1595



MICHIGAN	Roscommon Mgt. Unit		Compartment		
	Year of Entry: 2017	Acres of Harvest	Total Compartment Acres:		
		Commercial Harvest - 0			
		Harvests with Site Condition - 0			
		Next Step Harvest - 0			
		Habitat Cut - 0			

S t			Mgt. Unit		Re	port 4	Treatmei	Compar Year of	OF NATURAL PHONE		
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
		#Type!									
Prese Spec Next Treat	<u>Step</u> tments: ptable		Site Condition:								
<u>Othe</u> Com	<u>r</u> ment:										
Prop	osed Start Date	:									
A	Total Treatme creage Propos		0.0								

Report 5 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Dominant Site Conditions

	5E
Bare/Sparsely Vegetated	
Herbaceous Openland	1
Jack Pine	19
Natural Mixed Pines	
Planted Mixed Pines	
Red Pine	2
Total Forested Acres	21
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.

Site No		Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

		mmon Mgt. Unit :kdom : Examiner		Report 5 – Site Con	ditions	Compartment: 176 Year of Entry: 2017		
6	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified	
	Comments:							



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



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.

Conservatior Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative U.S. Fish and Wildlife service for the recovery of threat 365, Endangered Species Protection, of the Natural Re PA 451, and the Federal Endangered Species Act of 19 species plans in various stages of review. As of now o Plover Habitat.	ened and endangered species, as governed by Part esources and Environmental Protection Act, 1994 973. This is an active program, with proposed

S t	Roscommor	n Mgt. Unit		Report 8	- Forested	Stands Compartment: 176 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42120 - Planted Jack Pine	Sapling Well	248.1	36	Unspecified	OPIC - FMD: KW BLOCK 1 - 2027 YOE - PLANTED J3
2	42120 - Planted Jack Pine	Sapling Well	146.3	27	Immature	Planted to jack pine in opposing weave pattern in June 1987, stand has scattered red pine poles and oak sawlogs also
4	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Medium	119.7	87	51-80	Stand ranges fro ma few spots of R9 which could be thinned, numerous spots of R9 which do not need to be thinned, and a J3O2 cohort which is just converting to pole size. There are multiple ages of red pine and at least 2 ages/sizes of jack pine - possibly due to past fire history in this stand. The southwest corner and west edge of the stand are heavy to oak poles and saplings. Stand appears to be a natural stand but planting records form 1927 were found. Recommend holding stand another 10 years until jack pine and oak in the understory is more merchantable and the surrounding stands grow up more, stand is surrounded by KW blocks but does not appear to be in any of them currently
6	42120 - Planted Jack Pine	Sapling Well	119.2	22	Immature	J3 PLANTED 1993 in Opposing Weave pattern
8	42220 - Natural Jack Pine	Sapling Well	82.4	36	Unspecified	Appears to be natural J3 from roller-chopping in 1979 but may have had some supplemental planting done, growing very slowly
9	42220 - Natural Jack Pine	Poletimber Well	3.7	53	Unspecified	J6 island left as retention when surrounding jack pine was cut in 2009, stand has a scatttereing of RP and oak sawlogs also
10	42220 - Natural Jack Pine	Poletimber Well	4.4	53	Unspecified	J6 island left as retention when surrounding jack pine stands were cut in 2009,
11	42120 - Planted Jack Pine	Sapling Well	54.1	36	Unspecified	OPIC - FMD: KW BLOCK 5 - 2017 YOE - PLANTED J3
12	42120 - Planted Jack Pine	Sapling Well	55.5	36	Unspecified	Planted to JP for KW but in strips not opposing weave pattern so there are areas with good J3 stocking and other areas which are more open
13	42120 - Planted Jack Pine	Sapling Well	33.8	20	Immature	J3 PLANTED WITH KW STANDS IN ADJACENT COMPARTMENT TO THE WEST
14	42120 - Planted Jack Pine	Sapling Well	0.0	36	Unspecified	OPIC - FMD: KW BLOCK 5 - 2017 YOE - PLANTED J3
15	42250 - Pine, Oak	Sapling Well	8.9	27	Immature	FUEL BREAK, BURNED IN JUNE 1988 PERRY HOLT FIRE, natural regeneration
16	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Medium	12.6	87	51-80	MULTIPLE AGES OF RED PINE IN OVERSTORY WITH A JACK PINE UNDERSTORY POSSIBLY DUE TO PAST FIRES, This stand is a planned fuel-break in some future YOE, jack pine and oak in the canopy is almost pole-size, recommend holding 10 years until jack pine and oak is more merchantable, stand was thinned in 1998/1999

S t	Roscommo	n Mgt. Unit		Report 8	- Forested	Stands Compartment: 176 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	42220 - Natural Jack Pine	Poletimber Poor	42.1	22	Immature	Fuelbreak, mix of jack pine saplings and poles with a few oak saplings and poles, scattered oak SL's also, south end is better stocked than the north end, cut and burn ion some future YOE to maintain as a fuelbreak
18	42220 - Natural Jack Pine	Poletimber Well	7.0	53	Unspecified	J6 island which was left as retention when the surround jack pine stands wee cut
19	42250 - Pine, Oak	Sapling Well	13.9	27	Immature	BURNED IN JUNE 1988 PERRY HOLT FIRE, natural regeneration
20	42220 - Natural Jack Pine	Poletimber Medium	11.3	54	51-80	J6 leftover from the late 1970's regeneration efforts in this section, now 50+ years 9old but nothing to cut with this stand to make a biger KW block, some natural jack pine regeneration coming into areas which had been more open in previous YOE's, heavy old-field activity in the surrounding stands, recommend holding and cutting when surrounding stands are treated in 10-20 years for KW habitat.
21	42120 - Planted Jack Pine	Sapling Well	39.7	36	1-50	FUELBREAK, PLANTED J3, growing very slowly, planted in opposing weave in the south half and in strips in the north half
22	42220 - Natural Jack Pine	Poletimber Well	4.4	54	Unspecified	J6 island which was left for retention when surrounding jack pine stands were cut in 2009
27	42210 - Natural Red Pine	Poletimber Well	2.0	63	Unspecified	R6 island that was left as retention when surrounding jack pine stands were cut in 2009
29	42120 - Planted Jack Pine	Sapling Well	57.6	36	Unspecified	Planted to jack pine for KW but planted in strips not opposing weave pattern resulting in areas heavy to J3 other areas which are more open
30	42120 - Planted Jack Pine	Sapling Well	36.9	36	Unspecified	PLANTED J3

Compartment: 176 Year of Entry: 2017



Stand	Cover Type	Acres	Managed Site	General Comments:
3	310 - Herbaceous Openland	0.7	No	OIL WELL SITE
5	7909 - Nonstocked (OI)	1.2	No	OIL WELL SITE
7	310 - Herbaceous Openland	465.0		PLANTED TO Jack Pine for KW IN 2011
23	7909 - Nonstocked (OI)	0.5	No	OIL WELL SITE
24	310 - Herbaceous Openland	0.8	No	OIL WELL SITE
25	7909 - Nonstocked (OI)	2.4	No	OIL WELL AND TANK BATTERY SITE, LOTS OF OIL FIELD JUNK IN AND AROUND STAND
26	7909 - Nonstocked (OI)	0.5	No	OIL WELL SITE
28	310 - Herbaceous Openland	13.6	No	non-maintained grassy opening with scattered jack pine saplings and poles, stand was left un-planted when St#2 was planted or is possibly the after-math of an old fire
31	31029 - Grass (OI)	1.3	No	GRASS COVERED OIL WELL SITE
32	31029 - Grass (OI)	1.6	No	GRASS COVERED OIL WELL SITE
33	31029 - Grass (OI)	3.7	No	Grassy opening which also contains and oil well, far east part of the stand will be a fuelbreak at some future YOE.
34	31029 - Grass (OI)	0.8	No	GRASS COVERED OIL WELL SITE, BONEYARD
35	31029 - Grass (OI)	1.0	No	GRASS COVERED OIL WELL SITE