

* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
1	O 9	M 2	19	88	11	70	46	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
<p><u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments)</p> <p>comnts Fmd : Hold and wait for warbler management, stand scheduled for planting in 2018. This stand is mature - over mature, some mixed pine and misc. hardwoods are starting to establish themselves in the under story. The NW corner of this stand is a J6 type. If it is decided that an oak component is to be maintained, it would be prudent to remove the oak this year of entry and try to establish regeneration through root sprouts. Pine could be left, may want to mark selectively to enhance regeneration of oak (regen gaps). Stand has had some improvement cutting in the past resulting in areas of two age classes represented in the stand. This is part of the Muskrat Lake Warbler Management Area a HCVA</p>														
2	J 4	U 1	46	25	4	30	50	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Hold and wait for warbler management, stand scheduled for planting in 2018. Bigger timber is found in the western and southern part of stand. NE part of stand is more of a J1/J2 type. There are scattered aspen clones and oak stump sprouts throughout. Looks like some red pine may have been left in 1982? Old notes indicate that there are issues w/ trying to block the abandoned trail found within the stand. This is part of the Muskrat Lake Warbler Management Area a HCVA</p>														
3	R 8	O 2	62	77	13	60	49	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Hold and wait for warbler management, stand scheduled for planting in 2018. Stand thinned last YOE Sale# 720010101 (Townline 608 Red Pine). Red pine was planted in 1930. Good oak regeneration throughout stand especially where the canopy is open. Some bark beetle in stand. Hold this stand as a visual buffer for KW Management. This is part of the Muskrat Lake Warbler Management Area a HCVA</p>														
4	A 6	O 1	10	49	9	110	55	aspen (upland)	old growth (potential or actual)	Y	final harvest	within 0-9 years	2	
<p><u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments)</p> <p>comnts Fmd : Hold and wait for warbler management, surrounding stands scheduled for planting in 2018. I separated this aspen clone from stand 1. Low area found in stand-watch out for it when setting up sale. The aspen varies in size and quality but it should fully regenerate w/out a problem. If natural regeneration fails, plant failed areas to jack pine when compartment is entered for warbler management. This is part of the Muskrat Lake Warbler Management Area a HCVA.</p>														
5	R 9	O 1	64	75	12	80	49	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p><u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments)</p> <p>comnts Fmd : Hold and wait for warbler management, stand scheduled for planting in 2018. Some browse in understary. Thinned in winter 2005 by G&G Forest Products #72-040-04-01 Dancing Red Pine. (RESIDUAL BA 80). This is part of the Muskrat Lake Warbler Management Area a HCVA.</p>														
6	J 6	O 1	74	79	8	80	45	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
<p><u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments)</p> <p>comnts Fmd : Hold and wait for warbler management, stand scheduled for planting in 2018. Rolling topo. Small diameter/height and relatively old. A patchy stand, a few areas w/ good jp. Other areas more open w/ a pine barren feel. Did not find the red pine from previous survey. This is part of the Muskrat Lake Warbler Management Area a HCVA.</p>														
7	J 6	O 2	7	55	8	80	45	jack pine	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : An old fence line and corner evidence found in the stand. Decent advanced oak regen. This is part of the Muskrat Lake Warbler Management Area a HCVA.</p>														

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8	J3	J2	27	25	3	0	48	jack pine	old growth (potential or actual)	N		20-29 years	0	
comnts Fmd : Planted 1983. The jack pine is 15-20' tall. Not as dense as some of the other planted areas. Old SI used. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
9	R9	O1	12	75	9	120	51	red pine	old growth (potential or actual)	N		10-19 years	0	
comnts Fmd : A patchy stand - but does have some nice areas of red pine (poor areas too). A very nice component of standing and down woody debris. Understory is poor quality oak. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
10	J4	J2	26	32	4	20	45	jack pine	old growth (potential or actual)	N		30-39 years	0	
comnts Fmd : Rolling topo. Scattered oak throughout. A pine barren type stand. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
11	J6	O1	127	44	5	70	46	jack pine	old growth (potential or actual)	N		10-19 years	0	
comnts Fmd : Very little regen in under story, mostly poor quality oak. There are a couple aspen pockets along with a minor oak component. North end of stand has a J8/R7 pocket adjacent to the campground. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
12	J5	J1	33	20	4	40	46	jack pine	old growth (potential or actual)	N		20-29 years	0	
comnts Fmd : Open areas w/ jack and poor quality oak Some red pine seeding in. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
13	O8	J2	29	88	10	40	45	oak	old growth (potential or actual)	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u> Recreational site Other special wildlife habitat consideration (desc. In comments)														
comnts Fmd : Oak in decline. Jack pine was under planted in 1996. Previous sale was in 1992. Some pockets of aspen in understory. Looks like majority of successful planting was done along Muskrat Lake Rd. This is part of the Muskrat Lake Warbler Management Area a HCVA. This stand borders the snowmobile trail and is near the campground and lake.														
14	A5	U1	10	45	6	50	47	aspen (upland)	old growth (potential or actual)	N		20-29 years	0	
comnts Fmd : Stand is near campground and lake. Snowmobile trail runs through it. Poor quality aspen, several nice cavity tree opportunities. Conifer is starting to pop up in understory. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
15	15	10	14	78	9	60	48	local use	old growth (potential or actual)	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Recreational site														
comnts Fmd : Muskrat Lake Campground. Remove high risk trees as needed. STATE FOREST CAMPGROUND--(SCA)														
16	J3	U1	88	23	3	0	48	jack pine	old growth (potential or actual)	N		20-29 years	0	
comnts Fmd : Planted to the warbler weave 1985. Some jack pine reaching 15 - 20' tall. Poorer areas are about 10' tall. A couple over story red pine. Clumps of stump sprout oak, scrub cherry and aspen. This is part of the Muskrat Lake Warbler Management Area a HCVA.														

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					D	Tot. BA								
17	R9	R1	108	78	9	100	50	red pine	old growth (potential or actual)	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity Other special wildlife habitat consideration (desc. In comments)</p> <p>comnts Fmd : Budworm damage in this area. The northern most and southern most ends of this stand are R9's the middle is a J6. Since this is warbler management I did not separate out types. I left stand the same as previous survey. Browse evident. This is part of the Muskrat Lake Warbler Management Area a HCVA.</p>														
18	O7	O1	78	77	11	30	46	oak	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : Cut in 1999 due to JP budworm attack. Cut in 2001 contract #72-027-99-01 Muskrat Jack. The residual oak is poor quality. Aspen regen responding in open areas. Old SI used. Muskrat Lk Warbler Management Area (HCVA)</p>														
19	O6	M2	35	99	10	100	43	oak	old growth (potential or actual)	Y	final harvest	within 0-9 years	2	
<p>comnts Fmd : A nice mixed stand. Would like to try and maintain the diversity. Final harvest w/ reserves. Leave 10% of the stand in islands for retention. Also mark some scattered red pine to leave throughout the sale area. The management objective for this stand is oak but any mixture of species currently present at medium to full stocking is acceptable. If natural regeneration in not adequate, the open areas should be planted to jack pine. This is part of the Muskrat Lake Warbler Management Area a HCVA.</p>														
20	J5	O2	35	28	7	50	50	jack pine	old growth (potential or actual)	N		20-29 years	0	
<p>comnts Fmd : This stand is all over the board. Several small sales have taken place in this stand over the last 30 - 40 years. There are pockets of several age and species classes. There are areas of moderately stocked jack pine, a pocket of sawlog size aspen, a pocket of A3, and the north end of the stand turns into a R7/R8. White pine is starting to seed in the under story This is part of the Muskrat Lake Warbler Management Area a HCVA.</p>														
21	O8	M2	10	88	12	50	50	oak	old growth (potential or actual)	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments)</p> <p>comnts Fmd : Thinned 2002 contract #72--050-01-01 Townline Road Oak. Residual varies from 40 - 80 BA. Under story is primarily red maple and clones of aspen, some stump sprout oak too. Smaller diameter red pine throughout. This is part of the Muskrat Lake Warbler Management Area a HCVA.</p>														
22	R9	M2	88	77	14	110	50	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Per warbler plan - final harvest w/ reseves. Pockets of very nice red pine. Hdwds are coming up in the understory but are getting browsed hard. Looooks like small portions of the stand have had small removal type cuttings in the past. This is part of the Muskrat Lake Warbler Management Area a HCVA.</p>														
23	Q6	Q3	38	94	6	70	39	mixed swamp conifer	immature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Deer yards</p> <p>comnts Fmd : Pockets of sawlog cedar, and areas with super canopy white and red pine. Very wet. Some areas of Q3 with very old but small spruce. Some E and P - types present through out. Some tamarack.</p>														
24	N0	N0	57		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Head waters of wright creek. Beavers have a fairly nice size flooding. The rest of the area is a marsh meadow</p>														

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					B	Tot. BA								
25	U4	U0	6		4	10	45	upland brush	old growth (potential or actual)	N		30-39 years	0	
comnts Fmd : Cherry, aspen, and jack pine. Thick sweetfern in open areas. KW Management area HCVA														
26	J3	O1	654	2	0	0	45	jack pine	old growth (potential or actual)	N		50-59 years	0	
comnts Fmd : Harvested 2002. Planted to 2-0 jack pine under FTP W72-494 in 2006. Failed areas present Some stump sprout oak. A 4 acre u-type was left unplanted within the stand boundary. Strips of uncut timber present within the stand. Warblers have been identified in stand. An illegal trail road has been created in stand to access a pvt parcel (needs to be closed). This is part of the Muskrat Lake Warbler Management Area a HCVA.														
27	J4	U1	35	6	4	10	48	jack pine	old growth (potential or actual)	N		20-29 years	0	
comnts Fmd : Failed portion of plantation from stand 16? Never planted? Deep snow, could not find evidence of planting. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
28	R9	O1	92	77	13	120	53	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	
<u>Treatment Limiting Factors:</u> Other special wildlife habitat consideration (desc. In comments)														
comnts Fmd : Hold and wait for warbler management, stand scheduled for planting in 2018. Variable stand. Some areas of real good quality red pine. Rolling topo. Some areas of excellent advanced oak regen. Used to be the same stand w/ 3, it has not been treated.														
29	L2	L0	1		0	0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Low area within an aspen stand. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
30	A6	M3	15	39	7	80	55	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : Old SI used. Extensive beaver activity. The stand has areas of pure aspen, a couple acres of M3 with some merchantable sticks. The aspen is mixed with pine on the edges of the stand. A nice mix of early successional species. Would consider harvesting along with next YOEs warbler cuts. Treat adjacent Q-type along the edge when this stand is harvested.														
31	W9	W2	10	94	12	70	56	white pine	mature	N		not scheduled	0	
comnts Fmd : Large white and red pine along road. Stand is very wet once you get away from the road. Stand looks to have large white pine with an e or p type under story. (old comments) Consider removing stand from any treatments - manage for "large trees" along road and PVT property. Easement granted to private owner for driveway 4 chains east of the northwest corner of the southwest 1/4 of the said northeast 1/4. Easement number L-9229														
32	W6	W2	6	60	7	70	45	white pine	sparse	N		20-29 years	0	
comnts Fmd : Jack, maple, and oak 4" and up removed in 1991. Some stump sprout oak but very little. Open areas of W4 and some locations of W3. The bigger pine in stand is around 100yrs old. Red pine influence in the east portion of stand.														
33	W6	W1	30	85	9	80	65	white pine	two aged	N		20-29 years	0	
comnts Fmd : Big red pine along the road - but the stand turns more or less into a W6. There are pockets of A3/A4. Perhaps an old removal perscription or diameter limit cut? Old SI used. Areas a of weevil and porky damage. Adjacent pvt property is grooming the trail rds to use as ski trails.														
34	Q6	Q2	17	83	6	70	52	mixed swamp conifer	mature	N		not scheduled	0	
comnts Fmd : Areas w/ heavy fir understory. Some scattered spruce regen. Wolfy red and white pine. Aspen and red maple mixed in. Looks like some cedar may be found on east edge of stand.														

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35	A6	O2	3	25	6	70	50	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Clone of Aspen within Jack pine stand. Oak under story being browsed.														
36	J4	J3	39	25	4	30	50	jack pine	immature	N		30-39 years	0	
comnts Fmd : J PINE PLANTED FALL OF 1983. Dense J3 developing into merchantable size. Oak stump spouts are common.														
37	J4	J3	14	25	4	20	50	jack pine	immature	N		30-39 years	0	
comnts Fmd : PLANTED TO J FALL OF 83. Scattered overstory species. Open in areas. Stand is a J3 in transition to a J6.														
38	Q5	F3	20	87	6	40	52	mixed swamp conifer	high risk	N		not scheduled	0	
comnts Fmd : Mix of Spruce and Fir														
39	J6	U1	14	50	7	80	47	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	2	
comnts Fmd : Mature jack pine w/ pockets of smaller trees. Two age classes present 70ish and 40ish. Aspen clones found in stand. Final harvest w/out reserves. Try to achieve natural regen- this may be an excellent stand to manage as a barron area. Management objective is jack pine. Minimal stocking is acceptable. If stand does not properly regenerate, plant to jack pine. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
40	J3	J3	109	13	0	0	47	jack pine	old growth (potential or actual)	N		40-49 years	0	
comnts Fmd : 65 ACRES OF RED PINE AND 47 ACRES OF JACK PINE PLANTED IN 1995. Red pine must be in the south end? I did not find the red pine walking in the north. Jack pine around 10' tall in most areas. Some damage to shoots. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
41	R9	O1	72	77	12	70	47	red pine	old growth (potential or actual)	N		10-19 years	0	
comnts Fmd : Cut 2002 contract #72-027-99-01 Muskrat Jack. Historical issues w/ budworm in stand. Typical oak regen found throughout -(not recruiting to next canopy layer). Excellent jack pine regen at the old landing areas. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
42	U2	U1	21	6	0	0	48	upland brush	old growth (potential or actual)	N		10-19 years	0	
comnts Fmd : FUELBREAK- this portion of sale was not planted. Scattered stump sprout oak- 5' tall, some jack and cherry also. HCVA KW Management Area														
43	A3	O1	1	25	3	0	51	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Heavy browse, some cankers.														
44	J6	U1	89	58	9	100	45	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting

Treatment Limiting Factors:

Other special wildlife habitat consideration (desc. In comments)

comnts Fmd : Hold and wait for warbler management, stand scheduled for planting in 2018. Some blow down. Hodge podge of a stand This is part of the Muskrat Lake Warbler Management Area a HCVA.

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					B	Tot. BA								
45	L 0	L 0	1		0	0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Low area within a jack pine stand. Covered with huckle/blue berry														
46	J 5	G 0	145	44	5	60	40	jack pine	old growth (potential or actual)	N		20-29 years	0	
comnts Fmd : Stand in transition to a J6. Some over topping red pine. Little to no understory-but some oak present. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
47	N 0	N 0	3			0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : wet														
48	J 4	G 0	10	44	5	30	45	jack pine	old growth (potential or actual)	N		20-29 years	0	
comnts Fmd : In transition to a J6. Majority of timber is currently un-merchantable. Some over topping red and jack pine scattered through out. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
49	J 3	R 3	9	12	1	0	45	jack pine	old growth (potential or actual)	N		30-39 years	0	
comnts Fmd : Portion of stand 13 that was underplanted with little to no residual oak or other over story. Jack and red pine 5 -10' tall. Stand is along Muskrat Lake Road and near the campground. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
52	J 3	O 1	2	25	4	0	40	jack pine	immature	N		30-39 years	0	
comnts Fmd : Smaller size class, not as dense. Some merchantable timber. Scattered larger RP. Oak stump sprouts.														
53	R 9	U 1	13	77	13	80	48	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
comnts Fmd : Per warbler plan- Final harvest w/ reserves. South part of stand has jack pine mixed with red pine, north part has aspen pockets. Looks like a possible previous prescription was cut everything but red pine? Some white pine found in stand also. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
54	J 6	O 1	20	58	8	80	50	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
comnts Fmd : Per warbler plan- Final harvest w/ reserves. Older jack pine starting to die- several dead trees through out stand. Sirex wasp trap trees located in stand. Trap trees were treated w/ a herbicide. Stand is wet west of road. Spruce, white pine, and red pine present. This is part of the Muskrat Lake Warbler Management Area a HCVA.														
55	Q 6	Q 1	4	83	7	70	52	mixed swamp conifer	mature	N		not scheduled	0	
comnts Fmd : Old SI used. Large white pine along northern edge. In the drier portions of the stand tend to have more fir and cherry. A fair amount of down woody debris.														
56	J 6	O 1	149	75	9	100	45	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
comnts Fmd : Rolling to hilly topo. Stand varies in quality. Areas of decline. Some oak and red pine starting to establish in the under story. This is part of the Muskrat Lake Warbler Management Area a HCVA.														

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					D B H	Tot. BA	Site Indx							
333	R 8	O 2	43	77	13	60	49	red pine	old growth (potential or actual)	N		10-19 years	0	
comnts Fmd : Stand thinned last YOE Sale# 720010101 (Townline 608 Red Pine). Red pine was planted in 1930. Good oak regeneration throughout stand especially where the canopy is open. Some bark beetle in stand. This is part of the Muskrat Lake Warbler Management Area a HCVA. This is the same stand as 3 but has been divided for aesthetic concerns.														
400	G 0	G 0	2				0	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Abandoned wellsite covered in spotted knapp weed and sweetfern. HCVA - Warbler Management Area														
Total Acres.....			2746											