

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

Stand	Cover Type-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	Q 4	Q 2	4		5	20	40	mixed swamp conifer	sparse	N		not scheduled	0	
comnts Fmd : Standing dead spruce lowland. Old info said beaver flooding. Some live spruce, tamarack, white pine and paper birch, most sapling sized. Stand is seasonally wet. Trees are suppressed.														
2	R 9	W 1	60	90	14	70	53	red pine	two aged	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Scenic values/visual values														
comnts Fmd : Stand has variability. Most of timber lies to the south and west sides of Old Headquarters Lake. Campground is across the lake to the east. Headquarters Lake Pine, sale #42-034-00-1 cut 8/01. FTP #42-534 completed July, 2002. Aspen, WP, RP, JP, oak, red maple regen present. Most JP was removed in harvest. Standing w. birch present, not harvested. Nice pine stand. Some red pine is of utility pole quality.														
3	Z 0	Z 0	11				0	water	nonstocked	N		not scheduled	0	
comnts Fmd : Headquarters Lake														
4	Z 0	Z 0	2				0	water	nonstocked	N		not scheduled	0	
comnts Fmd : Pothole stand that seasonally fills with water. Mostly dry now and more of a marsh type. Soil= Aquents/Histosols														
5	Z 0	Z 0	3				0	water	nonstocked	N		not scheduled	0	
comnts Fmd : Pothole lake where water levels seasonally fluctuate.														
6	J 5	J 2	71	38	5	40	53	jack pine	immature	N		30-39 years	0	
comnts Fmd : Stand consists of thick plantation J. Pine approx. 4-8" diameter and 20-40' tall. Jack pine is beginning to self prune itself. Scattered red and white pine trees are throughout stand in overstory.														
7	X 0	X 0	3				0	other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : County Road 407 and it's R.O.W.														
8	J 3	J 3	57	24	3	0	53	jack pine	immature	N	improvement	within 0-9 years	3	
comnts Fmd : Stand was cut in 1984; Tsale #12-80. Stand is now thick jack pine regen ranging from 10-30' tall 2-4" DBH. Some scotch pine growing amongst the jack pine, mostly on the east side of the stand, but not a significant amount. If scotch pine is desired to be removed, stand could be a candidate for a TSI with a handcrew to individually cut each tree down. Scattered WP/RP saw/pole sized trees throughout stand.														
9	R 8	A 3	4		14	60	53	red pine	two aged	N	improvement	within 0-9 years	3	planting
comnts Fmd : Overstory of RP/WP sawlog sized red and white pine. Stand has a thick understory of aspen, 1-3" DBH; 15-30' tall in the north end. The south end of stand along CR 407 is mostly scotch pine. If it is desired to remove scotch pine, may want ot intregrate this stand with an adjacent stand that is prescribed for a scotch pine chip job otherwise TSI stand to remove scotch pine.														
10	I 2	W 1	13	1	0	0	53	jack pine	immature	N	improvement	within 0-9 years	1	planting
comnts Fmd : Superior Scotch Pine, sale #30-01. Sale completed 05/10/02. FTP work still has to be done. Original note:'Superior' seed source (scotch pine) from old DAV plantation. Original plantation trees have seeded in producing younger pole and seedling sized trees. Site was scarified 7/2002. FTP42-554: hand planted 5/23/2007 with 2-0 JP (MI seedlot 0239) - 12,000 seedlings. Check regeneration in 2008. 8/2008 - OI - Stand is now a mixed bag of regen - white pine, red maple stump sprouts and scotch pine - thicker in some places than others. Some open grown areas in stand that is mostly ferns and grass. Did not see a lot of the planted jack pine, may be that the ferns were too tall to see amongst. May need another regen check and possibllly replant. Treat stand to remove scotch pine regen with some sort of TSI. Plant to native pine species RP/WP/JP. Scattered overstory of oak, RP/WP now present.														

Wld :

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Stand	Cover Type-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								
11	R 9	I 2	7	91	14	70	53	red pine	two aged	Y	improvement	within 0-9 years	3	planting
<p>comnts Fmd : Superior Scotch Pine, sale #30-01. Sale completed on 05/10/02. Ftp work still needs to be done. Original note: Stand has some nice sized sawlogs ranging from 12-18". Scotch pine planted in understory in the fall of 76 is small and suppressed in places - still alive though. 8/2008- OI Notes: Overstory of RP/WP sawlog sized. Understory of planted scotch pine, thick in places. If it is desired to remove scotch pine, most would have to be chipped due to it's mostly submerchantable size. May have to plant native pine species JP/WP/RP to help native pine along post treatment.</p> <p>Wld : leave any oak</p>														
12	I 4	J 3	30	32	5	30	53	jack pine	immature	N	final harvest	within 0-9 years	2	planting
<p>comnts Fmd : Stand is sapling/pole sized scotch pine with a sap/pole jack pine mix. Scattered oak and sawlog sized RP/WP. If is is desired to eliminate scotch pine, prescribe for treatment now. It would have to be a chip job, a lot of sub merchantable size class. Cut all of scotch pine and jack pine, it is too tightly planted to not cut all of it. If treated leave RP/WP and oak.</p> <p>Wld : leave red and white pine and oak</p>														
13	M 19	M 1	3	89	12	70	53	jack pine	mature	Y	final harvest	within 0-9 years	2	planting
<p>comnts Fmd : Superior Scotch Pine, sale #30-01. Sale completed on 05/10/02. If it is desired to remove the rest of the remaining scotch pine, schedule for treatment now. This scotch pine was left as a visual buffer around the ORV parking lot. Plant stand back to native pine species, RP/JP/WP.</p> <p>Wld : leave any oak and non-scotch pine if possible</p>														
14	X 0	X 0	1			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : ORV Staging Area in summer, Snowmobile Trail parking lot in winter.</p>														
15	R 6	W 1	25	59	10	90	53	red pine	mature	N	shelterwood-prep	within 0-9 years	2	
<p>comnts Fmd : Stand was planted in 1949 but is a mixed bag of jack, red, & white pine of various sizes and ages. Also contains oak, birch, and aspen. Regen varies as well. If treated, remove all jack pine and some red pine. May have to mark a few white pine to remove as well for maneuverability. Leave all aspen, oak and p.birch. Remove any scotch pine that may be present.</p> <p>Wld : leave a component of white pine, any oak that exists and pockets of understory spruce where possible</p>														
16	J 5	J 2	29	91	10	60	53	jack pine	two aged	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Stand is a mix of old jack pine that is now ~9-12"DBH that is somewhat limby and in some places overtopping a younger class of planted jack pine (planted in the early 70's). That jack pine is just coming into merchantable size class. Most of this younger jack pine is 3-6"DBH with many being submerchantable. Could treat stand and start over with a new even-aged class of jack pine.</p> <p>Wld : leave oak and birch and some red and white pine if it exists</p>														
17	O 6	W 1	3	83	9	80	45	oak	mature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)</p> <p>comnts Fmd : Stand of oak that falls on a knob. Some jack pine is stand but it is beginning to die out. Leave stand as a retention stand.</p>														
18	J 5	J 2	10	36	5	40	53	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Nice stand of plantation jack pine. Minor component of WP/RP in overstory. JP is now 3-7"DBH and ~20-45' tall.</p>														
19	I 4	J 3	3	32	5	30	53	jack pine	immature	N	final harvest	within 0-9 years	2	planting
<p>comnts Fmd : Stand is sapling/pole sized scotch pine with a sap/pole jack pine mix. Scattered oak and sawlog sized RP/WP. If is is desired to eliminate scotch pine, prescribe for treatment now. It would have to be a chip job, a lot of sub merchantable size class. Cut all of scotch pine and jack pine, it is too tightly planted to not cut all of it. If treated leave RP/WP and oak.</p> <p>Wld : leave oak and red and white pine</p>														

Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							

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20	J5	J2	235	36	5	40	53	jack pine	immature	N		30-39 years	0	
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comnts Fmd : Nice stand of plantation jack pine. Minor component of WP/RP in overstory. JP is now 3-7"DBH and ~20-45' tall.

21	J4	G0	1	36	8	30	53	jack pine	immature	N		30-39 years	0	
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comnts Fmd : Open grown, wolfy jack pine growing on a knob. Ground cover is mostly grass with some blueberry bushes and ferns.

22	J5	J2	156	38	5	40	53	jack pine	immature	N		30-39 years	0	
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comnts Fmd : Stand is similar to surrounding plantation JP. This stand was planted in 1970. Occassional WP/RP in stand overstory.

23	J4	J2	30	32	5	30	53	jack pine	immature	N		30-39 years	0	
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comnts Fmd : Stand has a few scattered sawlog sized red and white pine in overstory.

24	14	12	30	31	5	30	53	jack pine	immature	N	final harvest	within 0-9 years	3	planting
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comnts Fmd : Stand has sawlog sized red and white pine scattered throughout overstory. Stand was planted in 1977. Some scotch pine just coming into merchantable size class, a lot of sub merchantable though. Stand would need to be chipped if treated. Boundaries of stand were tough to define in OI because the plantations were mixed together when planted. Acreage and boundary lines may change slightly if treated to match whats exactly on the ground.

Wld : leave oak and red and white pine if possible.

25	R7	J3	4		16	20	53	jack pine	two aged	N		50-59 years	0	
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comnts Fmd : Stand was burned by a wildfire in 1999. Overstory of sawlog sized red pine and burned red pine snags. Understory of J.pine 3-5' tall and thick in some places. Jack pine will soon take over the site.

26	19	M1	3	89	12	70	53	jack pine	mature	Y	final harvest	within 0-9 years	2	planting
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comnts Fmd : Superior Scotch Pine, sale #30-01. Sale completed on 05/10/02. If it is desired to remove the rest of the remaining scotch pine, schedule for treatment now. This scotch pine was left as a visual buffer around the ORV parking lot. Plant stand back to native pine species, RP/JP/WP.

Wld :

27	J5	J2	78	36	7	50	53	jack pine	two aged	N		10-19 years	0	
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comnts Fmd : Stand was planted with jack pine in 1972 that is now coming into pole sized class. The southern half of stand has a pocket of sawlog sized RP and pole sized WP/RP that was underplanted as well. There is also a scattering of old (~70 years old) jack pine in places that was underplanted as well with jack pine. Old JP is hanging in there, possibly treat in 10 years when the planted JP is more merchantable. 98=31,30.

28	R8	A3	20		14	70	53	red pine	two aged	N		10-19 years	0	
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comnts Fmd : Stand was treated in 2001; T.Sale 026-00. Mostly a RP/WP sawlog/pole overstory with a thick aspen regen understory. Aspen is ~10-20' tall and 1"DBH. R.maple, WP/RP regen as well.

29	12	W1	5	1	0	0	53	jack pine	immature	N	improvement	within 0-9 years	1	planting
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comnts Fmd : Superior Scotch Pine, sale #30-01. Sale completed 05/10/02. FTP work still has to be done. Original note:'Superior' seed source (scotch pine) from old DAV plantation. Original plantation trees have seeded in producing younger pole and seedling sized trees. Site was scarified 7/2002. Superior Scotch Pine, sale #30-01. Sale completed on 05/10/02. FTP 42-554: hand planting completed 5/23/2007 with 2-0 JP (MI seedlot 0239) - 6,000 seedlings. Check regeneration in 2008. Check regeneration in 2008. 8/2008 - OI - Stand is now a mixed bag of regen - white pine, red maple stump sprouts and scotch pine - thicker in some places than others. Did not see a lot of the planted jack pine, may be that the ferns were too tall to see amongst. May need another regen check and possibly replant. Plant to native pine species RP/WP/JP. Some open grown areas in stand that is mostly ferns and grass. Treat stand to remove scotch pine regen with some sort of TSI. Scattered overstory of oak, RP/WP now present.

Wld : If planted to red pine, try to mimic natural conditions by eliminating rows. A mix of red, white, and jack pine would be preferable to increase species diversity.

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					B	Tot. BA								
30	W 8	W 1	7	16	40	45	white pine	two aged	N		30-39 years	0		
comnts Fmd : Stand has some nice sawlog sized red and white pine approx. 100 years old. Stand also has some pole sized white pine approx. 75 years old. Stand was treated in 2001; Cabin White Pine, sale #42-032-01-2. White pine reduction present as well as some jack pine on the edges.														
31	J 4	J 2	69	32	5	30	53	jack pine	immature	N		30-39 years	0	
comnts Fmd : Jack pine strip planting with some natural regen. Diameters range from 2-7" DBH. Older strips have 2-3 stick JP and the younger strips are not yet merchantable. Evaluate in 10 years to determine what to do with older strips.														
32	J 5	J 2	91	36	5	40	53	jack pine	immature	N		30-39 years	0	
comnts Fmd : Nice stand of plantation jack pine. Minor component of WP/RP in overstory. JP is now 3-7"DBH and ~20-45' tall.														
33	W 8	W 1	35	99	14	60	45	white pine	two aged	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : Stand was treated in 2001; Tsale# 032-01. Some new white pine regen as a result of treatment. Some red pine sawlog sized trees present in stand. There is evidence of red pine underplanting in some portions of stand. Red pine is suppressed.														
34	J 5	J 1	6	47	7	40	53	jack pine	immature	N		20-29 years	0	
comnts Fmd : The jack pine is regenerating naturally but is open grown and limby. The red pine that was planted is not doing well. Harvest with adjacent stand. 35=31,30														
35	J 6	J 2	21	47	8	70	53	jack pine	two aged	N		10-19 years	0	
comnts Fmd : Stand is mixed pine. Jack pine is mixed with older RP/WP. Regen varies with JP/RP/WP and is thick in places. Some regen/understory is planted, some is natural.														
36	J 5	J 1	60	47	7	50	53	jack pine	immature	N		20-29 years	0	
comnts Fmd : Planted RP and JP. Jack pine is limby and beginning to self prune. RP is suppressed. Open grown areas in stand. Some scattered old jack pine in stand as well as a few RP/WP sawlog sized trees.														
37	R 9	A 1	18	68	14	100	53	red pine	mature	N		not scheduled	0	
comnts Fmd : Headquarters Lake Camground fall in this stand. Nice stand of RP, sawlog sized. Aspen throughout. Occassional W.birch, oak and jack pine.														
38	J 4	J 2	45	31	5	30	53	jack pine	immature	N		30-39 years	0	
comnts Fmd : Scattered RP and WP in overstory, sawlog and pole sized.														
39	I 4	J 3	30	31	5	40	53	jack pine	immature	N	final harvest	within 0-9 years	3	planting
comnts Fmd : Stand is a mixed plantation of scotch and jack pine. If it is desired to eliminate scotch pine, prescribe for treatment now. It would have to be a chip job, a lot of sub merchantable size class. Cut all of scotch pine and jack pine, it is too tightly planted to not cut all of it. If treated leave RP/WP and oak. Wld : leave oak and red and white pine														
40	J 3	J 3	11	29	3	0	53	jack pine	immature	N		30-39 years	0	
comnts Fmd : Jack pine will be coming into pole size class in the next decade. Stand was treated in 1979.														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acres	Age	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
41	R9	W1	129		15	80	53	red pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Area was thinned in late 70's, early 80's. Red pine stand now that is mostly sawlog sized 12-20" DBH. Not much for utility poles. Nice WP/RP regen throughout. R. maple regen throughout as well. P.birch is a minor component of stand although it is dying out. Jack pine is also a minor component to stand. Stand is variable with BA's, some areas thicker than others. Open grown areas are thicker with regen.</p>														
42	X0	X0	1		0	0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Parking lot for users of the Headquarters Lake campground.</p>														
43	J6	J1	5	58	9	70	53	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : If treated, leave any oak, paper birch and white pine. Mark some red pine for operabilty if needed. 35=30,31 Wld : leave any oak birch and white pine</p>														
44	R7	J2	61	17	15	30	53	jack pine	two aged	N		20-29 years	0	
<p>comnts Fmd : Stand was cut and scarified in 1991. Overstory of RP/WP, sawlogs mostly RP. Regen is predominately JP with some areas heavier to WP. P.birch in stand although it is dying out.</p>														
45	R9	W1	4	93	12	110	53	red pine	mature	Y	shelterwood-prep	within 0-9 years	3	
<p>comnts Fmd : Nice pocket of thicker mature red pine with a white pine mix. Some utility pole quality in here. Wld :</p>														
46	J6	R1	4	58	9	70	53	jack pine	mature	Y	final harvest	within 0-9 years	3	natural regeneration
<p>comnts Fmd : Harvest Jack pine. Leave any red pine and white pine if treated. Wld : leave red and white pine and oak</p>														
47	X0	X0	9			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : County Road 410 and it's R.O.W.</p>														
48	X0	X0	14			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : County Road 416 and it's R.O.W.</p>														
49	J6	J1	56	77	9	90	53	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Stand is a mixed plantation of JP and RP from 1931. There was some underplantings of red pine in 1962 that also took place. Some of that red pine is suppressed. Aspen present in portions of the stand. If treated, some red may need to be marked for operability where the Rpine BA's are higher. Could leave aspen if desired, it is getting old and some is dying out. Wld : less diverse than other stands, leave a few large aspen but can cut the rest, leave some maple and some white pine</p>														
50	J4	J2	6	26	5	20	53	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Scattered RP in overstory. Jpine is growing nicely, still a bit limby though. Stand is just coming into pole size.</p>														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	Tot. BA								
51	R 8	J 1	49	7	14	40	53	jack pine	two aged	N		20-29 years	0	
<p>comnts Fmd : Stand was treated in 2001, Holland Lake Jack Pine, sale #42-025-00-1. There is now an overstory of red pine with some white pine. Overstory is mostly sawlog sized. Aspen regen came in moderate to thick in some places, mostly in the south end of stand. Jack pine is just coming in as well, just took longer to get going. It is just breaking fern height. RP residual varies from 20-60 BA. May want treat overstory in future to release the J.pine regen. Evaluate next decade.</p>														
52	R 9	W 2	17	98	15	100	53	red pine	mature	Y	shelterwood-prep	within 0-9 years	3	
<p>comnts Fmd : Most of area was thinned of jack pine, aspen and some red and white pine in 1991; tsale 036-91. It is now a fairly even mix of red and white pine. Regen of white pine throughout. Some of RP overstory is utility pole quality. Birch and oak in stand on the north end. Shelterwood stand to encourage the regen. Leave the birch and oak as residual.</p> <p>Wld : leave oak and some birch and some of the spruce understory</p>														
53	R 9	W 1	31		14	80	53	red pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Stand was treated in 2001; Quota Pine, sale #42-033-00-1. Regen of WP and RP present. P.birch is a minor component of stand.</p>														
54	X 0	X 0	4			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : County Road 378 and it's R.O.W.</p>														
55	J 3	J 3	7	17	2	0	53	jack pine	immature	N		40-49 years	0	
<p>comnts Fmd : Area was cut & scarified in 1991, tsale#017-91. Overstory of RP sawlogs scattered throughout. JP regen is thick and 1-3"DBH, 10-15' tall.</p>														
56	J 5	J 2	22	27	5	40	53	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Stand has some varying ages of jack pine, with areas that were both planted and scarified for regen. The strips alternate between J5/J2 and J4/J3. Younger strips may have seeded in naturally, they are thick and no evidence of rows. Older strips were planted.</p>														
57	J 5	W 2	3		11	60	45	white pine	two aged	N		20-29 years	0	
<p>comnts Fmd : Overstory of very old jack pine mixed with some pole sized RP and WP. Regen of WP is mostly thick throughout just coming into pole size. J.pine is dying out and white pine is replacing it. P.birch and red maple present throughout. Stand size is small. Recommend letting it convert naturally.</p>														
58	W 9	M 1	32		12	80	50	white pine	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Stand was treated in 2001; Quota Pine, sale #42-033-00-1. Stand is mostly white pine with a mix of red pine, paper birch and some oak. Some old white pine in here. Diameters range from 6-20".</p>														
59	W 9	M 1	16	92	16	100	50	white pine	immature	N		10-19 years	0	
<p>comnts Fmd : Some of area was thinned in the early 80's. Sawlog white pine stand. R.maple and white pine understory. R.pine scattered in stand but white pine dominates. Some old white pine in here.</p>														
60	R 8	W 2	84		10	60	53	red pine	unevenaged	N		20-29 years	0	
<p>comnts Fmd : Stand is variable throughout. Stand is mostly red and white pine with a small amount of J.pine. Abundant white pine regen in many places overtopped by sawlog WP and RP that is older. BA's in overstory range from 20-120. Regen is filling in the areas that were once more open.</p>														
61	R 4	G 0	10		10	30	45	red pine	unevenaged	N		30-39 years	0	
<p>comnts Fmd : Stand has some old WP stumps from the distant past. Frost pockets and rolling topography. Stand is open grown and filling in with a mix of pine RP/WP/JP. Sizes vary. Most trees are wolfy from growing in an open grown setting.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg.		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B H	Tot. BA								
62	J6	W 2	4	48	8	80	50	jack pine	immature	N		10-19 years	0	
comnts Fmd : Stand is a mix of pine, jack pine for the most part. White pine regen throughout.														
63	Z0	Z 0	6			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Holland Lake F42-622 : fish planting (brook trout) completed 10/2005														
64	R6	W 1	29		11	90	53	red pine	unevenaged	N		not scheduled	0	
comnts Fmd : Holland Lake campground occurs is stand. Stand is variable with densities and age classes. Stand has some older large diametered RP/Wp with a lot of regen that has naturally seeded in through the years to WP and RP. Jack pine scattered throughout, some areas are minimal and some areas its more significant. Poor quality aspen throughout.														
65	R7	W 1	4		14	30	45	red pine	sparse	N		not scheduled	0	
comnts Fmd : Stand was the location of the old DNR "West Tower" fire tower site. Cement foundations for the tower is still here. Old road leading to the tower. Stand area is still relatively open but over time has begun to fill in with trees. Aspen present. 35=31,32,30.														
66	R4	G 0	6		10	30	45	red pine	unevenaged	N		30-39 years	0	
comnts Fmd : Stand has some old WP stumps from the distant past. Frost pockets and rolling topography. Stand is open grown and filling in with a mix of pine RP/WP/JP. Sizes vary. Most trees are wolfy from growing in an open grown setting.														
67	R7	J 2	82	7	14	20	53	jack pine	two aged	N		50-59 years	0	
comnts Fmd : Regen is just coming in ~1-3' tall. Jack pine is just breaking fern height but is difficult to see amongst the ferns. Some RP coming in as well. Stand was harvested in 2001; Wandering Plow Jack Pine, sale #42-021-00-1. Overstory of RP was left as residual, mostly sawlog sized.														
68	J3	J 3	32	17	2	0	53	jack pine	immature	N		40-49 years	0	
comnts Fmd : Area was cut and scarified in 1991, T.sale# 006-90. Scattered RP that is saw/pole sized in overstory. Oak in overstory as well.														
69	W9	W 2	13		16	80	50	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : Stand was treated in the past. The center of the stand was cut harder than the edges, there are some bushy white pine saplings/poles that are taking this area over and seeding in. The edges of stand have some nice sawlog sized WP. Some older JP scattered in stand, mostly on the outer edges. JP is beginning to die out.														
70	J6	W 1	116	76	10	90	53	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
comnts Fmd : Plantation JP/RP stand. Cut JP, may have to mark some RP whter it is thicker for operability as well as opening it up enough to encourage regeneration. Wld : leave oak and some maple and white pine														
71	R8	J 2	61	6	14	40	53	jack pine	two aged	N		10-19 years	0	
comnts Fmd : Stand was harvested in 2001. 375 Jack Pine, sale #42-016-00-1. FTP #42-525. Scarification completed 8/01. Survey was done 05/03/2003; stocking is 179 tpa. Residual BA = 35. Plant? 8/2008 - OI Notes: Overstory of sawlog/pole sized RP. Some WP, p.birch and oak scattered as well. J.Pine regen is just breaking fern height, ~1-3' tall, difficult to see amongst the ferns. Evaluate Red pine overstory in next inventory, may want to remove some BA to release JP reproduction.														
72	R8	J 2	57	8	14	40	53	jack pine	two aged	N		10-19 years	0	
comnts Fmd : Stand was treated in 1994 T.sale#024-90. Machine planted with 2-0 JP in May, 2000 (FTP #42-348: 64 acres) Regeneration survey done 10/22/01 on planting; stand is fully stocked with 805 trees/ac (435 trees/ac planted jp + 370 trees/ac "volunteer" trees, which includes JP,WP). Average tree seedling height = 1.06 feet. 8/2008 OI Notes: Overstory of RP overtopping naturally regenerated and planted jack pine. Jack pine regen is thick in some places and more sparse in others. Most regen is 3-10' tall. Overstory of red pine may hinder the growth of the jack pine regen. May want to evaluated next inventory cycle to remove some r.pine overstory BA.														

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Stand	Cover Type-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								
73	R7	J3	11	14	14	30	53	jack pine	two aged	N		50-59 years	0	
<p>comnts Fmd : Area was cut in 1994. Part of FTP#42-348; area was machine planted in May, 2000 with 2-0 JP; regeneration count done on 10/22/01 shows stand to be fully stocked now with 805 trees/ac (includes 435 trees/ac planted jp + 370 "volunteer" trees/ac, which are jp, wp). Average seedling height = 1.06 feet. 8/2008 OI Notes: Overstory of RP poles/sawlog sized overtopping JP regen that is now 5-20' tall. Some of the jack pine understory was planted amongst natural regen.</p>														
74	X0	X0	2			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : County Road 439 and it's R.O.W.</p>														
76	W7	W1	18		12	30	45	white pine	unevenaged	N		not scheduled	0	
<p>comnts Fmd : Open grown mixed pine, mostly white pine and red pine. Most trees are wolfy from being in an open grown setting. Some poor quality aspen as well. Trees regenerating throughout, opening is gradually filling in. 35=32,30,31.</p>														
77	R8	J1	14	7	14	40	53	jack pine	two aged	N		20-29 years	0	
<p>comnts Fmd : Stand was treated in 2001, Holland Lake Jack Pine, sale #42-025-00-1. There is now an overstory of red pine with some white pine. Overstory is mostly sawlog sized. Aspen regen came in moderate to thick in some places. Jack pine is just coming in as well, just took longer to get going. It is just breaking fern height. RP residual varies from 20-60 BA. May want treat overstory in future to release the J.pine regen. Evaluate next decade.</p>														
78	W9	M3	67		15	80	55	white pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Stand was treated in 1981, Tsale#6-81A. Stand is variable in density, BA's range from 40-130. Some very thick understory in most places, mostly paper birch, red maple, b.fir with some WP, hemlock and beech. Pine in the overstory is tall and straight.</p>														
79	R9	W1	62	93	16	100	55	red pine	two aged	Y	shelterwood-prep	within 0-9 years	2	
<p>comnts Fmd : Most of stand was treated in 1981; Tsale#6-81A. The stand has some large sawlog sized red pine and white pine. Many trees are tall and relatively straight, some utility pole quality. Some variability in BA's as well as some variability in regen. Paper birch, red maple, beech, and aspen also a component of stand, more on the south end. Some planted jack pine in the north end of stand along the Pratt Lake Road. Mark red and white pine, cut all jack pine. Leave P.birch, aspen, red maple and beech.</p> <p>Wld : leave hemlock and some birch, aspen, maple and beech. Leave a few white pine at the south end for potential nest trees and some of the spruce /fir understory</p>														
80	W5	W2	22		11	60	45	white pine	unevenaged	N		20-29 years	0	
<p>comnts Fmd : Stand is a mixed bag of mostly pine species, WP/RP/JP. Area has been logged in the past and is now filling in with trees. Larger/older RP/WP scattered throughout stand with regen throughout, pockets of jack pine as well. Varying degrees of regen in understory, WP/RP/JP, aspen, red maple - thick in some areas. Some small relatively open areas in the center of the stand that are also filling in. Aspen in portions of stand.</p>														
81	R9	W2	37		16	100	53	red pine	two aged	N	shelterwood-prep	within 0-9 years	3	
<p>comnts Fmd : Stand is a variable with trees species. Large diametered RP/WP scattered throughout. Also some large aspen throughout stand. Pockets of scattered jack pine. Stand density is variable with areas of higher BA's and other areas lower BA's with thicker regen, mostly white pine with some red pine, red maple, aspen, jack pine and balsam fir. Red maple and paper birch present throughout, some beech and hemlock in south end. 99=10,03. 35=31,30 If treated, may have to mark a few white pine, paper birch and red maple to operate.</p> <p>Wld : thiin around the hemlock to encourage where you can.</p>														
82	W8	W3	19		16	60	55	white pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Area was treated in the past. Stand is now a mixed bag. Some areas have heavy white pine regen mixed with b.fir, red maple, and aspen. Overstory of larger pine throughout. Hemlock and beech present. Evaluate next inventory cycle for treatment.</p>														

Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	Tot. BA								
83	W9	M3	30		18	70	55	white pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Stand was treated in late 70's early 80's through various timber sales at that time. Stand has some large diametered white pine that is tall and straight overtopping a thick understory of r.maple, b.fir, and beech saplings, some beginning to reach pole sized (3-5" DBH). There are few scattered red pine in the overstory as well, tall and straight. There is a scattering of red maple, beech and p.birch in overstory as well. Evaluate stand in next inventory for possible treatment. 99=03,07</p>														
84	Z0	Z0	2				0	water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Water hole where water levels seasonally fluctuate. Nearly dried up now and marsh like.</p>														
85	Z0	Z0	3				0	water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Kilp Lake. Water levels seasonally fluctuate. Edges of lake are choked with lily pads and vegetaion in the water, the center of the lake is the only place with some open water.</p>														
86	R8	A2	57	7	14	50	53	jack pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Stand treated in 2001; Kilp Lake Jack Pine, sale #42-020-00-1. Now mostly an overstory of saw/pole RP and WP with aspen and jack pine regen. Jack pine regen is just breaking fern height, about 1-2' tall. Variable density in regeneration. Some WP and RP regen as well as red maple stump sprouts. Many spots that had mineral soil scratched up, red pine germinated, now 6" to 1' tall. May want to harvest some of the residual overstory on red pine once regen is better established. Evaluate next inventory cycle.</p>														
87	R9	W2	47		16	100	53	red pine	two aged	N	shelterwood-prep	within 0-9 years	3	
<p>comnts Fmd : Stand is variable. RP/WP stand for the most part, mostly sawlog sized. Also a mix of RP/WP poles and saps. Aspen in stand as well. A minor component of Jack pine, red maple and p.birch as well. If treated, harvest aspen and jack pine. Wld : leave hemlock and encourage where you can. Try to leave understory trees where you can.</p>														
88	R8	A2	28	7	14	50	53	jack pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Stand treated in 2001; Kilp Lake Jack Pine, sale #42-020-00-1. Now mostly an overstory of saw/pole RP and WP with aspen and jack pine regen. Jack pine regen is just breaking fern height, about 1-2' tall. Variable density in regeneration. Some WP and RP regen as well as red maple stump sprouts. Many spots that had mineral soil scratched up, red pine germinated, now 6" to 1' tall. May want to harvest some of the residual overstory on red pine once regen is better established. Evaluate next inventory cycle.</p>														
89	M6	M3	32		11	90	62	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Stand was treated in the late 70's early 80's. Stand is a mixed bag of tree species. Large diametered/tall WP overtopping poor quality hardwood, most red maple and dying/dead beech (beech bark disease). Balsam fir and hemlock throughout, poles and saps. P.birch and aspen present as well as an occassional RP. Soil=Paquin</p>														
90	M8	M3	37		14	60	64	northern hardwood	unevenaged	N		20-29 years	0	
<p>comnts Fmd : Stand has doghair thick hardwood regen resulting from a harvest in early 80's. Beech in stand has BBD and is dying or dead already. Most hardwood is poor quality. Some large diametered and tall WP scattered in the overstory. Hemlock present. Residual basal area for harvest is patchy and variable. Soil=Paquin</p>														
91	M6	M3	14		11	110	62	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Stand is a mixed bag of tree species. Large diametered/tall WP overtopping poor quality hardwood, most red maple and dying/dead beech (beech bark disease). Balsam fir and hemlock throughout, poles and saps. P.birch and aspen present as well as an occassional red pine. Soil=Paquin</p>														
92	W9	W2	26		18	100	50	white pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Stand is a mixed bag of tree species. It is in a transtion between pine and harwood type. Large diametered WP, not great quality, limby and poor form. There are some red pine, jack pine, old aspen, dead/dying beech (BBD), red maple and balsam fir. Regen is mostly white pine with b.fir, beech and red maple.</p>														

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Stand	Cover Type-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								
93	R 9	W 2	78		16	110	53	red pine	two aged	N	shelterwood-prep	within 0-9 years	3	
<p>comnts Fmd : All aged pine stand; very large red and white pine over a younger pole/seedling/sapling sized understory. Scattering of jack pine and aspen. Aspen, p.birch and red maple mixed throughout. Multiple aged stand, variable density throughout.. If treated, mark RP/WP, cut all aspen and JP. Leave any p.birch, r.maple and oak.</p> <p>Wld : leave birch, oak and maple and a few large diameter aspen if present. Leave a few large white pine trees in the South end.</p>														
94	R 7	J 2	37	7	14	20	53	jack pine	two aged	N		50-59 years	0	
<p>comnts Fmd : Stand treated in 2001; Holland Lake Jack Pine, sale #42-025-00-1. RP/WP was left as residual and is scattered in the overstory. Jack pine is starting to regenerate and is 1-3' tall with some WP regen as well.</p>														
95	R 9	W 1	67	89	14	70	53	red pine	immature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)</p> <p>comnts Fmd : Stand was treated in 2001, Three Stand Pine, sale #42-026-00-1. Nice stand of RP/WP. Basal area is variable across stand, 50-100 BA. Some nice utility pole quality stems remain. WP regen getting started as well as r.maple, spruce seedlings/saplings.</p>														
96	J 4	J 2	18	24	5	20	53	jack pine	immature	N		40-49 years	0	
<p>comnts Fmd : Stand was harvested in 1984; Tsale 011-80. Stand regenerated nicely to jack pine that is mostly sapling sized beginning to go to pole size. Scattered RP/WP sawlogs/poles in overstory.</p>														
97	J 3	J 3	62	15	3	0	53	jack pine	immature	N		40-49 years	0	
<p>comnts Fmd : Stand was cut & scarified in 1993. Jack pine regen is now 10-20 feet tall and 2-4"DBH. Aspen regen as well in places. WP regen scattered about as well.</p>														
98	R 9	W 1	27	88	14	70	53	red pine	mature	Y	shelterwood-prep	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Stand is a mix of old RP/WP and JP. Variability in stand, jack pine is thicker, almost pure, in some places and minimal in others. RP/WP is sawlog sized and has some utility pole quality. Scarify stand after harvest in the areas that were heavier to jack pine.</p> <p>Wld : stand is less diverse so leave understory spruce pockets where you can and leave some maple.</p>														
99	J 4	J 2	22	36	5	20	53	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Planted JP. Now 3-6"DBH, 25-40' tall. Some old jack pine trees scattered in portions of stand. Some older RP as well.</p>														
100	R 7	G 0	63	2	14	30	53	jack pine	two aged	N		50-59 years	0	
<p>comnts Fmd : Stand harvested as Veteran's Day Jack Pine (007-04-01). Sale completed 06/08/05. Scarification completed (FTP42-541) 10/25/2006. Some residual red pine left after harvest - blowdown within stand now. Needs regeneration check in 2009.</p>														
101	R 9	W 1	37	90	14	70	53	red pine	immature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)</p> <p>comnts Fmd : Stand was treated in 2001, Three stand pine, sale #42-026-00-1. Residual timber in stand has some nice quality RP. BA's range from 50-100. P.birch present.</p>														
102	R 6	W 1	64		10	100	53	red pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Stand is of mixed ages and size classes. Older sized red pine with under planted red pine and jack pine that is now 5-8"DBH and 2-3 sticks tall. Most planted red pine is still suppressed. Some mature jack pine throughout as well. Birch, aspen and oak present. The younger planted trees may be ready for harvest in the next inventory cycle. The older timber is ready for treatment now.</p>														

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Stand	Cover Type-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								
103	J6	J1	82	68	10	90	53	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Stand is mostly old mature jack pine. Older RP/WP sawlogs as well. Areas of stand is pure to jack pine and others are mixed RP/WP/JP, north end. RP/WP in stادن may need to be marked in a few places for operability, most places heavy to jack pine though. Some aspen and birch present, can leave if desired.</p> <p>Wld : leave an aspen and birch component and some red and white pine.</p>														
104	N0	N0	1			0		marsh	nonstocked	N		not scheduled	0	
105	R7	W2	2		14	30	50	red pine	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Old opening filling in with trees, stand falls in a depression. Scattered older trees, RP/JP, spruce with WP/RP regen understory, thicker on the edges.</p>														
106	J3	J3	1	19	3	0	45	jack pine	immature	N		40-49 years	0	
<p>comnts Fmd : Low pocket/depression that filled in with jack pine. Seedling/sapling sized that will soon transition into pole sized.</p>														
107	I4	J2	24	31	5	30	53	jack pine	immature	N	final harvest	within 0-9 years	2	planting
<p>comnts Fmd : Stand is sapling/pole sized scotch pine with a sap/pole jack pine mix. Scattered oak and sawlog sized RP/WP. If is is desired to eliminate scotch pine, prescribe for treatment now. It would have to be a chip job, a lot of sub merchantable size class. Cut all of scotch pine and jack pine, it is too tightly planted to not cut all of it. If treated leave RP/WP and oak.</p> <p>Wld : leave red and white pine unless need for maneuverability and oak</p>														
108	J3	J3	5	26	3	0	53	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Area was cut in 1982. Jack pine regen is now 10-25' tall, 2-5"DBH. Just coming into pole size. Trees are limby yet.</p>														
109	R7	A3	9	26	3	20	60	aspen (upland)	two aged	N		30-39 years	0	
<p>comnts Fmd : Stand has a few scattered sawlog sized red pine, white pine in overstory, more dense in some places than others. Aspen is both trembling and bigtooth is thick in understory, 10'-25' tall. R. maple, white pine, p.birch, JP, RP regen also present.</p>														
110	J3	J3	18	15	2	20	53	jack pine	immature	N		40-49 years	0	
<p>comnts Fmd : Area was cut 1992 and scarified in 1993. T.sale#004-90. Jack pine regen is now 10-20' tall. Scattered red pine in the overstory.</p>														
111	R9	W1	64		14	90	53	red pine	two aged	N	shelterwood-prep	within 0-9 years	2	
<p>comnts Fmd : Stand is quite variable with pine species, size classes, and densities. Stand was planted in 1949 but is a mixed bag of jack, red, & white pine of various sizes and ages. Also contains oak, birch, and aspen. Regen varies as well. If treated, remove all jack pine and some red pine. May have to mark a few white pine to remove as well for manuverability. Leave all aspen, oak and p.birch. Remove any scotch pine that may be present.</p> <p>Wld : leave oak and birch and leave a white pine component</p>														
112	W9	A2	7		16	90	50	white pine	unevenaged	N		not scheduled	0	
<p>comnts Fmd : Stand is a mix of WP, p.birch, red pine, aspen and spruce/balsam. Some oak and red maple present. Aspen is dominant in understory, 10-20' tall. WP dominates the overstory, some large RP sawlog trees throughout. Follow Two Heart Natural River Plan. Steep bank immediately adjacent to river edge. 98=31,21,20 99=03,80,70.</p>														

Total Acres..... 3484