

* 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	J6	F 1	20	67	9	70	46	jack pine	mature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate) Road needed (resources not presently available) Land survey needed</p> <p>comnts Fmd : No access at this time across the Betsy River. Some white and red pine present. Heavy blueberry ground cover. 2000: stand 1</p>														
2	W6	F 2	10		10	80	45	white pine	old growth (potential or actual)	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate) Road needed (resources not presently available) Land survey needed Potential or designated old growth</p> <p>comnts Fmd : Access by Shell Drake dam; no logging access, though. Good component of paper birch within, but long term management should be for pine. Both paper birch and jack pine are slowly dying out of stand. Heavy fir understory. Mixed softwood includes: BF, S, JP. Ground cover noted includes: blu, brk, lily, starflower, wintergreen. Would be a nice spot for a short hiking trail (somewhat established already). SCA = potential old growth. Soils are Deer Park/Kinross complex. 2000: stand 2</p>														
3	N0	N0	70			0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand size will fluctuate due to flooding. Between stands 1, 2, finger changes to more of a low type with some RM,C, and S. 2000: stand 3,4</p>														
4	D0	D0	51			0	20	treed bog	nonstocked	N		not scheduled	0	
<p>comnts Fmd : soil is Markey/Carbondale muck. 2000: stand 5</p>														
5	R8	F 1	14	94	14	50	45	red pine	immature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Water quality/bmps</p> <p>comnts Fmd : Buffer stand left along Dry Creek after multiple timber sale harvests. 2000: (part of) stand 8,9,10</p>														
6	J5	S 2	13	69	8	60	46	jack pine	two aged	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Soil is DeerPark/Kinross. Mixture of high and low ground. Stand contains weeviled WP; galls and dead tops on JP. Misc. spp noted include: Oak, PB, WS and BF. Heavy F/S in understory (anywhere from 6 - 20' in height) is slowly changing stand composition. Alternate MO = S/F. 2000: stand 6</p> <p>Wld : leave oak, birch and some white pine</p>														
7	J6	F 1	22	69	9	70	50	jack pine	two aged	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Up to 120BA present, in places; smaller F/J intermixed - 2 age class stand. Older jack pine with dead tops; repeat budworm attacks. Limby WS within and small spruce; some oak and RM (clumps) noted. Leave oak, RM clumps, small spruce, RP,WP. Mixed softwoods include: Spruce, RP,WP. Adjacent stand meets green-up requirements. 2000: stand 7</p> <p>Wld : leave oak, maple, small spruce and red and white pine unless needed for operability</p>														
8	J3	F 1	58	24	3	20	46	jack pine	immature	N		40-49 years	0	
<p>comnts Fmd : T. sale #10-80 cut fall, 1982. Scarified 10/83 (FTP42-075) and seeded 3/84 (MI seed #1009). Regen check completed in 1987. Stand contains R7/R8 patches, oak, and mixed-age JP. Regeneration includes BF, PB, RM, and Oak. Jack pine is now 20 - 30' tall and 2 - 5" dbh. Galls noted on JP. 2000: stand 8</p>														

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9	J2	J2	86	1	30	46		jack pine	in process of regeneration	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : May wish to thin red pine (knob with ~70 BA) in next 10-20 years. Buffer strip was left along creek and is now a separate stand (5). Sale #23-90. FTP#42-404: scarification completed 5/98. Stocking survey completed 5/21/2003 - 204 trees per acre. Trench and seed completed 8/20/2004 - low success. 81.5 acres replanted 5/19/2007 w/ 2-0 JP (seedlot MI 0239) - 70,000 seedlings. Planting check in 2008 = 672 t/ac (258 nat'l, 385 planted, 29 t/ac R). Continue to monitor. 2000: stand 9</p>														
10	J3	X0	107	24	3	10	46	jack pine	immature	N		40-49 years	0	
<p>comnts Fmd : T. sale #006-80A - cut Fall, 1983. FTP42-083: scarified in two different years (7/84 and 6/85). S. 40 acres of stand scarified in 1985. Jack pine is now 18 - 20' in height and 3 - 4" dbh. 2000: stand 10</p>														
11	Q6	F1	118	103	7	80	35	mixed swamp conifer	old growth (potential or actual)	Y		20-29 years	0	
<p><u>Treatment Limiting Factors:</u> Road needed (resources not presently available) Too steep Potential or designated old growth Land survey needed</p> <p>comnts Fmd : Steep escarpment along west edge - difficult to access stand. Future access across private possibly. Mistletoe is present in stand. Ground cover noted includes: bunchberry, bluebead lily, lab tea and blueberry. Transitions into smaller timber to the north; wetter grounds. SCA = potential old growth. 2000: stand 11</p>														
12	J3	J2	42	1		0	46	jack pine	in process of regeneration	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : Dry Creek Pine #09-00 (Units 1 and 2); sale was cut 12/2001 - 01/2002. FTP #42-518 completed on 9/2002. Regeneration survey 5/2006 = 82 t/ac. Trenching completed 10/24/2006. Planted 5/21/2007 with 2-0 JP (MI seedlot 0239); 63,000 seedlings total. Regeneration checked in 2008 = 706 t/ac (93nat'l, 613 planted J). Continue to monitor. 2000: stand 12</p>														
13	J6	R1	93	68	9	100	46	jack pine	two aged	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : 1998 comment: Leave red and white pine, when cut, or thin as necessary. Stand varies in age;some flagging branches and tips on JP. 2008 comment: Larger diameter JP is dead, more flagging on JP - should be harvested, but green-up adjacency could be an issue (stands 12,14). May be possible to ring out RP pockets with retention JP within, while harvesting remaining jack pine, though. Rolling terrain makes several of these pockets clearly identifiable. MO2 = R 2000: stand 13</p> <p>Wld : leave oak and some spruce if present, also leave a component of white pine if it exists.</p>														
14	J2	J2	35	1		0	46	jack pine	in process of regeneration	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : Dry Creek Pine #09-00 (Units 3 and 4); FTP #42-518. Scarification was completed in adjacent sale units 9/2002, but never finished within this stand. Stand was then trenched and seeded 8/20/2004. Regeneration survey completed 5/2006 = 82 t/ac. Planted 5/21/2007 with 2-0 JP (MI seedlot 0239) - 63,000 seedlings total. Regeneration check in 2008 = 512 t/ac (106 nat'l, 406 planted J). Continue to monitor. 2000: stand 14</p>														
15	J3	J2	38	1	0	10	45	jack pine	in process of regeneration	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : Escarpment Jack Pine, sale #42-010-00-1. Sale closed on 08/15/02. FTP 42-519: scarification never completed. Regeneration survey done 5/2006 = 211 t/ac. Trenching completed 10/20/2006 and stand will be hand planted in spring, 2007. Planted 5/18/2007 with 2-0 JP (MI seedlot 0239) - 31,000 seedlings. Regeneration check in 2008 = 755 t/ac (80 nat'l, 675 planted J). Continue to monitor. 2000: stand 15</p>														

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					B	Tot. BA								
16	J6	F 2	42	69	9	70	50	jack pine	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Mixture of high (bracken fern) and low (leatherleaf/lab tea) ground within - stand composition changes with ground type; smaller JP (6-7" dbh, 3-4 stick ht) w/ rises of larger J, W,R, and Oak. Old RR grade within contains primarily R,W,Oak. Fir/spruce understory. Stand should be held for another few years until adjacent stand (17) meets green-up requirements, then set-up for harvest. 2000: stand 16														
Wld : winter cut if harvested or stay out of low, wet areas. Do not operate in them. Leave oak and some white and red pine														
17	J3	J 3	56	4		10	50	jack pine	immature	N		60-69 years	0	
comnts Fmd : "Widewaters II Jack Pine" sale # 011-00. Sale was cut Fall, 2001 - Jan., 2002. FTP #42-520 completed 9/2002. Regeneration survey completed 5/06 = 697 t/ac. JP ~ 2 foot tall. Old haul road through stand was hand planted with 2-0 JP on 5/21/2007. Residual R,W and a few PB, Oak also. Some RM sprouts. 2000: stand 17														
18	O6	M 1	8		10	80	46	oak	unevenaged	N		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Oak/Pine mix. Hold stand for adjacent green-up requirement (stand 17) and size-class diversity. Not much here to harvest. 2000: stand 18														
19	J6	R 1	99	71	9	100	50	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Leave most red pine, white pine, oak, and paper birch for aesthetics/diversity - good pockets along E. Tower/Betsy River Road, which can be left as scattered retention areas. Rolling terrain; S. facing slope of stands 18, 21,22 delineates portion of stand boundary. Ground cover noted: brk, blu, trailing arbutus. Fair amount of windthrow along stand edges; both JP dead and dead tops. Need to harvest this entry. 2000: stand 19														
Wld : leave red and white pine unless needed for operability, leave oak and birch and a component of understory spruce and maple														
20	J3	R 1	70	7	0	0	50	jack pine	immature	N		60-69 years	0	
comnts Fmd : S. boundary of stand is snowmobile trail route. "Betsy River Jack Pine" sale # 22-90, harvested summer,1996. Scarified in 1998 (FTP42-396). Stocking survey completed 5/18/2003 - 395 trees per acre. Plant spring 2004 w/seedlot mi0206 - follow-up on success of regeneration within 5 years. Check in May, 2005 = 830 t/ac. Secondary regeneration count completed 5/22/07 = 861 t/ac. Planted JP = 510 t/ac with JP volunteers = 255 (also 32 t/ac R,W,RM each). Seedlings are now ~ 1.5 - 3.5 feet in height. 2000: stand 20														
21	R9	M 1	14		12	80	46	red pine	unevenaged	N		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Stand of RP, PB, and some JP, Oak. Wait to thin with adjacent stands - good wildlife area for now. 2000: stand 21														
22	J6	F 1	13	71	9	80	46	jack pine	two aged	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Mixed pine w/ A,B,O. Hold for adjacent stand (17) green-up requirements; jack pine should be harvested, but this stand makes a good wildlife corridor with two adjacent stands (18,21) for now. Mixed spp = WP,Oak. 2000: stand 22														
23	J3	M 1	11	23	3	10	46	jack pine	immature	N		40-49 years	0	
comnts Fmd : T. sale #004-80 (Unit 1); cut in 1983 and scarified 7/1984. Residual RP,WP within. Jack pine is ~ 15 - 20' tall now. Mix of aspen, PB, S, Oak also present. Soil is Deer Park/Kinross complex. 2000: stand 23														
24	N0	N 0	3			0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Fire site in 1998 (Chippewa #18); dozer plow line ran through center of stand (now under water with seasonal moisture) and along north and east sides. Soils are Kinross/Wainola Complex. 2000: stand 24														
25	J5	S 2	86	40	6	50	35	jack pine	immature	N		20-29 years	0	
comnts Fmd : Mixed species - most JP, Spruce were harvested in 1966/67 (T. sale #15-66A - FTP#16:scarification), though not completely. Soil is Kinross/Wainola. Along NE edge of Stand 24, fire occurred in 1998 (Chippewa #18). Small diameter PB clumps within and residual WP. Ground cover of leatherleaf, lab tea and blueberry, lichen noted. 2000: stand 25														

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26	J3	L1	111	33	4	0	40	jack pine	immature	N		30-39 years	0	
comnts Fmd : Soil is both Kinross/Dawson and Kinross/Wainola complex. Sale #002-73A (no cutting after 1975); never completely cut. Marsh type mixed throughout - leatherleaf, lab tea ground cover; spruce/jack pine. Slightly higher ground with lichen/moss/blueberry and predominately jack pine regeneration. 2000: stand 26														
27	J5	S1	5	71	8	60	40	jack pine	low quality	Y	final harvest	within 0-9 years	3	direct seeding
<u>Treatment Limiting Factors:</u> Inferior quality Water quality/bmps														
comnts Fmd : Slight ridge of timber mixed with marshes; will be difficult to log without the right conditions. Jack pine is of low quality - old, somewhat deformed, and most likely contains red rot. Leatherleaf, brush and lab tea ground cover. Will have to regenerate stand by direct seed, most likely; too wet to scarify across, although there are some sand ridges, in places. Kinross/Dawson soils. 2000: stand 27														
Wld : stay out of low wet areas unless winter sale														
28	N0	N0	1			0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Soils are Kinross/Wainola complex. 2000: stand 28														
29	J6	S1	30	71	9	80	45	jack pine	mature	Y	final harvest	within 0-9 years	3	direct seeding
<u>Treatment Limiting Factors:</u> Road needed (resources not presently available) Water quality/bmps Inferior quality														
comnts Fmd : Ridges intermixed with marshes. Stand was included as part of t. sale #002-73A, but never harvested - difficult access. Extensive wet ground to cross throughout. Very small amount of PB noted. Heavy blueberry ground cover. Soils are mix of both Kinross/Wainola and Kinross/Dawson. 2000: stand 29														
Wld : leave the birch. Do not operate in the low, wet areas unless winter timing														
30	N0	N0	8			0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Soils are Kinross/Wainola complex. 2000: stand 30														
31	N0	N0	4			0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Some small JP within; leatherleaf/lab tea. Soils are Deer Park - Kinross Complex. 2000: stand 31														
32	J3	A2	14	23	3	10	46	jack pine	immature	N		40-49 years	0	
comnts Fmd : Part of T. sale #004-80 (unit 1, 2), which was cut in 1983 and scarified 7/1984. Residual W,R,Oak within. Jack pine is ~ 25' tall now. Soils are Deer Park/Kinross complex. 2000: stand 32														
33	R9	M1	77	98	13	110	46	red pine	immature	Y	shelterwood-seed	within 0-9 years	3	
comnts Fmd : Part of T. sale in 1980's (harvested with stands 23,32,34). Mixed spp include: PB, A, S, J. Soils are Deer Park/Kinross (wet). Some sub-merchantable PB,A, and oak. No RP or WP was thinned previously. Thin primarily RP now, and only WP where needed to improve stand. Encourage nat'l seeding for regeneration. MO2 = W and A,B,J component. 2000: stand 33														
Wld : leave submerchantable oak and some aspen and birch. Buffer stand 31 and do not operate in the stand.														
34	J3	F1	28	23	3	0	50	jack pine	immature	N		50-59 years	0	
comnts Fmd : T. sale #004-80 - cut in 1983; scarified 7/1984 (42-080). Residual RP within (14-16" dbh). Jack pine regeneration is now ~24' tall; other regen present include S/F, PB, RM, A. Soils are Deer Park/Kinross. 2000: stand 34														

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					B	Tot. BA								
35	J2	M 1	15	4		30	50	jack pine	two aged	N		50-59 years	0	
comnts Fmd : Township Line Jack Pine sale # 012-00; sale was cut in July, 2002. FTP #42-521 completed on 9/2002. Regeneration survey completed 5/2006 = 271 t/ac. Continue to monitor regen; may need to thin residual RP in another 10-20 years. Secondary regeneration survey completed 5/22/08 = 1,027 t/ac (571J, 114W, 114BF, 228RM) Jack pine now ~ 2 - 3 ' hts. 2000: stand 35														
36	J3	B 1	33	22	3	20	50	jack pine	immature	N		40-49 years	0	
comnts Fmd : Snowmobile trail route. T. sale #005-80 - cut summer,1984. Scarified 7/1985 (42-082) - visual regen check was done 10/89, with regeneration "obvious". Jack pine ~ 16' hts; residual RP and occasional PB saplings. 2000: stand 36														
37	J3	M 1	50	13	1	0	50	jack pine	immature	N		60-69 years	0	
comnts Fmd : "Blueberry Hill JP" sale # 001-91 - cut summer, 1994. FTP42-358: scarification completed 11/94. Regeneration check done in 1998 - 50% stocking (1,344jp/ac based on 1/1000 plot sample); scheduled for planting 5/00 (44k JP). Jack pine now 8' tall; some oak, aspen clones, PB sprouts and RM present. 2000: stand 37														
38	R9	W 1	4	80	11	100	50	red pine	immature	Y	shelterwood-seed	within 0-9 years	3	
comnts Fmd : Small stand; some PB clumps within, which can be left. Lower quality red pine. 2000: stand 38 Wld : leave any oak and some birch clumps														
39	R9	W 1	11	80	12	110	50	red pine	immature	Y	shelterwood-seed	within 0-9 years	3	
comnts Fmd : 2000: stand 39 Wld : leave some non-red pine trees near the trail														
40	J3	R 1	33	22	3	20	50	jack pine	immature	N		40-49 years	0	
comnts Fmd : Snowmobile trail route. T. sale #005-80 - cut summer, 1984. Scarified 7/1985 (FTP42-082). Visual regeneration check done 10/89 - regen "obvious". Jack pine is ~15 - 20' tall, with small RP seedlings noted (1 - 2' ht); also PB clumps and residual RP present. 2000: stand 40														
41	J6	F 1	51	89	9	110	46	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Mixed ages within stand - N. end older with blowdown, S. end younger. Oak, PB within, which can be left. Cut all jack pine, aspen and thin red pine, if needed. 2000: stand 41 Wld : leav oak and some birch														
42	J3	J 2	61	5		20	46	jack pine	in process of regeneration	N		within 0-9 years	0	other - specify in remarks
comnts Fmd : Sale #31-91 "Correction Line Jack Pine" cut summer, 1996; FTP 42-397: scarification completed 6/98. Stocking survey complete 5/15/2003 - 99 trees per acre. Machine planting completed 5/25/2005, filling in and around natural regeneration (about 500 t/ac). 2-0 JP MI seedlot #0207, 16k planted. Planting regen survey completed 5/2006 - areas with low survival. ~10 acres trenched 10/18/2006 to be replanted spring, 2007. 19 acres replanted 5/18/2007 w/ 2-0 JP (seed lot MI 0239) - 7,500 seedlings. Recheck 1st planting 5/22/2008 = 690 t/ac (280nat1, 410 planted). Natural regeneration of R,J now 1 - 2' hts; 6" planted hts. Check 3rd yr of planting again in 2010. 2000: stand 42														
43	R6	W 1	13		10	100	50	red pine	unevenaged	N		20-29 years	0	
comnts Fmd : Stand was thinned with sale #31-91. 2000: stand 43														
44	J6	R 1	17	89	9	90	46	jack pine	two aged	Y	final harvest	within 0-9 years	2	natural regeneration
comnts Fmd : Thin red and white pine where needed; dead jack pine and some flagging on branches also. Leave Oak and PB when cut. Old RR grade within. 2000: stand 44 Wld : leave oak and birch in the stand														

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45	J3	W 1	29	4		10	50	jack pine	immature	N		60-69 years	0	
comnts Fmd : Township Line Jack Pine sale # 012-00; sale was cut in July,2002. FTP #42-521 completed 9/2002. Regeneration survey completed 5/2006 = 271 t/ac. Reount 5/22/2008 = 1,027 t/ac (770J, 86W, 171RM). Jack pine ~ 2 - 3' hts. Residual R,W,PB; plenty of heavy woody debris on ground and snags. 2000: stand 45														
46	J4	J 3	3	26	4	10	46	jack pine	immature	N		30-39 years	0	
comnts Fmd : Stand contains occasional aspen, PB, RP and WP. Old grade runs through the stand. Average height = 25 ' Was harvested with stand in C.62. 2000: stand 46														
Total Acres.....			1777											