

\* 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 B	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
1	M 5	M 2	6	69	8	60	46	northern hardwood	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : HCVA = Two Hearted River - Natural River Zone. Multiple stem, clumps of red maple. Low quality. Borders the East Branch of the Two Hearted River.														
2	F 5	F 2	12		8	60	40	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : HCVA = Two Hearted River - Natural River Zone.														
3	J 6	F 1	19	81	9	140	50	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : HCVA = Two Hearted River - Natural River Zone. Nice tall jack pine. Stand has substantial budworm damage, visible from stand 17 to the south. Dead tops, browning needles, etc. Level topography. Stand needs to be salvaged this entry year. Lots of areas with heavy budworm damage, some from multiple years. Prescribe for a final harvest, followed by scarification for natural jack pine regeneration. If scarification fails, plant to jack pine. Follow the guidelines of the Two Hearted Natural River Plan. Use care to avoid exposed steep banks along the river (50 ft minimum buffer?). **Per Fish comments at the pre-review - minimum of 150 ft buffer along the Two Hearted River.														
4	F 5	F 2	4		8	60	40	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Two Hearted River - Natural River Zone														
5	J 6	J 2	27	72	10	120	47	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : HCVA = Two Hearted River Natural River Zone - norther portion of the stand. Mature jack pine. Light to moderate budworm damage. Good heights, 4-5 sticks. Some mortality, red needles. Stand should be managed this entry year along with stands 3, 7, and 9. Prescribe for final harvest, followed by scarification for natural jack pine regeneration. If scarification fails, plant to jack pine. Access to the area is recommended via old abandoned road from the west through stands 6 and 17. North/south fire lane is too steep and sandy. Management objective is jack pine. Follow guidelines for Two Hearted River Plan when harvested.														
6	J 5	J 3	65	36	6	60	45	jack pine	old growth (potential or actual)	N		30-39 years	0	
comnts Fmd : HCVA = Two Hearted River Natural River Plan - eastern portion of the stand. Planted in 1970. Transitioning from a J3 to a J6. High BA, mainly submerchantable. East-west rows. Nice, healthy jack pine.														
7	J 6	J 1	30	74	10	110	47	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : HCVA = Two Hearted River - Natural River Zone. Mature jack pine with areas of heavy budworm damage. Lighter budworm damage than stand 9, but still present. Some mortality. Stand should be treated this entry year along with stands 3, 5 and 9. Prescribe for final harvest, followed by scarification for natural jack pine regeneration. If scarification fails, plant to jack pine. Management objective is jack pine. Access is recommended via old road from the west through stand 6. Two Hearted Natural River Plan - follow guidelines. Rubicon sand. ***Per fish comments at the pre-review - minimum of 150 ft buffer along the Two Hearted River.														
8	W 6	F 2	13		10	140	45	white pine	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : HCVA = Two Hearted River - Natural River Zone. Mainly white pine with some red pine and jack pine. Lower ground. Borders the East Branch of the Two Hearted River. Open areas with white pine, jack pine and a few white spruce. Two Hearted Natural River Plan.														

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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								
9	J 6	J 2	14	64	10	110	55	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : HCVA = Two Hearted River - Natural River Zone. Mature jack pine. Heavy budworm damage, both current and from previous years. Mortality and dead tops. Many trees with "red needles". Good diameters, tall trees. Stand is in bad shape. Stand recommended for harvest along with stands 3, 5, and 7. Prescribe for final harvest, followed by scarification for natural jack pine regeneration. If scarification fails, plant to jack pine. Management objective of jack pine. Scattered oak within the stand. Leave oak and any red pine as residual when harvested. North and south ends of the stand follow the east and west running ridges. Access for harvest should be via the old abandoned road from the west through stands 5 and 6. Follow guidelines of the Two Hearted Natural River Plan when stand is managed. Care should be taken with respect to the high, steep banks of the river with exposed soil to prevent adding to the problem. ***Per Fish Div Comments at the pre-review - minimum of 150 ft buffer along the Two Hearted River.</p>														
10	L 0	L 0	6			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. Lowland brush along the East Branch of the Two Hearted River. Two Hearted Natural River Plan.</p>														
11	J 6	M 1	20	78	10	100	45	jack pine	old growth (potential or actual)	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p>														
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone - east portion of the stand. North end of the stand has shorter heights and smaller diameters than stand 9. Slightly larger diameters in the southern portion of the stand. Scattered red pine and white pine. Budworm damage is present but not as severe as stands 7 and 9. Due to the amount of jack pine prescribed for harvest in the compartment, try to hold this stand for 10 years for diversity purposes. If the stand experiences additional damage from future jack pine budworm outbreaks, salvage the stand out of year of entry. Stand falls within the Two Hearted Natural River zone. Follow the plan guidelines with any management activities. Rubicon sand.</p>														
12	J 3	J 3	14	4		0	45	jack pine	old growth (potential or actual)	N		60-69 years	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. Stand was harvested as sale #003-99-01 "East Branch Pine". Cutting completed 7/11/01. FTP #42-494 for scarification of the site completed 10/2001. Regen check in May 2005 - 637 trees/acre. Young jack pine 8-16 inches tall. Scattered, pockets of J2. Red Headed Pine Sawfly found in young jack pine throughout the compartment but not in this stand in 2006.</p>														
13	L 0	L 0	13			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. Lowland brush along the East Branch of the Two Hearted River. Two Hearted Natural River Plan.</p>														
14	J 3	J 3	76	15		0	50	jack pine	immature	N		40-49 years	0	
<p>comnts Fmd : Stand was harvested in 1989-1990. Sale #005-88-01. Scarified on FTP #42-253, completed 11/1990. Jack pine regeneration is now 8-12 ft tall, up to 15 ft tall in spots. Some open areas. Nice regeneration. Small openings. Red Headed Pine Sawfly (light damage) found in the stand in 2006. Rubicon sand.</p>														
15	J 5	J 3	11	36	6	60	45	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Planted in 1970. Transitioning from a J3 to a J6. High BA, mainly submerchantable. East-west rows. Nice, healthy jack pine.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	B	Tot. BA							
16	J 6	J 1	48	78	10	110	45	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Mature jack pine with substantial jack pine budworm damage, especially on the north end. Open areas. 4-5 stick trees. Some mortality. Blowdown in the northern portions of the stand. Thicker (higher BA) pockets. Stand should be treated this entry year along with stand 73 as one sale. Prescribe for final harvest, followed by scarification for natural jack pine regeneration. If scarification fails, plant to jack pine. Management objective of jack pine. Leave any oak and up to 10 BA of red pine as residual. Private corners along west side of the stand need to be confirmed by DNR surveyors. Rubicon sand.</p>														
17	J 3	J 2	72	3		0	45	jack pine	old growth (potential or actual)	N		60-69 years	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone - northern poriton of the stand. Stand harvested as sale #013-98-01. Cutting completed 8/17/01. FTP #42-434 (site scarification) completed 8/15/2002. Regeneration check in May 2005 - 289 trees/acre. Follow up with another regen check in 2007. Young jack pine, ranging from 8 inches to 1 1/2 ft tall. Substantial red headed pine sawfly damage within the stand - summer 2006. Widespread throughout the area. Very heavy in this stand. Rubicon sand.</p>														
18	W 6	L 0	29		11	90	50	white pine	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. White pine stand providing the corridor for the Two Hearted River. Stand comprises the slope and the lowground along the river. Mainly white pine and some associated species with a lowland understory. Components of white birch, oak, spruce and balsam. Stand lies within the Two Hearted Natural River Zone.</p>														
19	F 5	F 2	8		8	60	40	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : HCVA = Two Hearted River - Natural River Zone</p>														
20	J 5	J 3	116	36	5	60	50	jack pine	old growth (potential or actual)	N		20-29 years	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone - northern portion of the stand. Stand was strip cut somewhere in the early 1960's. The 1964 photos show very recent north/south cut strips. Stand was cut again in 1970. The remaining strips were harvested. Transitioning from a J3 to a J6. Many trees just below merchantable dbh. Semi open areas throughout the stand in a north south "row" appearance. Planted in 1970. Scattered young white pine. Rubicon sand.</p>														
21	J 6	J 2	13	72	9	130	49	jack pine	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p>														
<p>comnts Fmd : Nice tall jack pine. Some blowdown and mortality within the eastern portion of the stand. No budworm damage. Healthy full crowns. Scattered red pine and white pine. Lots of white pine in the understory. Stand is mature, but hold the stand for 10 years for age and size class diversity. Private land adjacent to the east was also just harvested. If the stand experiences a severe budworm outbreak, then salvage the stand out of the year of entry. Rubicon sand.</p>														
22	W 9	W 1	23		14	160	45	white pine	unevenaged	N		20-29 years	0	
<p>comnts Fmd : Large diameter white pine with red pine. Good jack pine component in spots. Open understory, much more open appearance than the adjacent jack pine stands. Pockets of W6. Lots of 18-24 inch white pine. Check stand in 10-20 years for possibly shelterwood harvest. Rubicon sand.</p>														
23	J 6	W 1	10	58	9	150	52	jack pine	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p>														
<p>comnts Fmd : Jack pine with areas of high white pine component. Jack pine is mature. Most of white pine is limby, pulp quality. Light mortality, some evidence of recent budworm damage. Pockets of higher mortality. Pockets of thicker white pine. Possible to hold for 10 years for age and size class diversity of the jack pine in the area. When harvested, remove all but 10 BA of white and red pine to promote better jack pine regeneration. Old notes (1994?) state that the stand was cut over in the early 1960's.</p>														

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					BH	Tot. BA								
24	J 6	W 1	63	58	9	150	52	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Jack pine with areas of high white pine component. Jack pine is mature. Most of white pine is limby, pulp quality. Light mortality, some evidence of recent budworm damage. Pockets of higher mortality. Pockets of thicker white pine. Treat the stand this entry year. Prescribe a final harvest, followed by scarification for natural jack pine regeneration. If scarification fails, then plant to jack pine. When harvested, remove all but 10 BA of white and red pine to promote better jack pine regeneration. Very north end (north 1/3) of the stand falls within the Two Hearted River Natural River Zone (440 ft to 1/4 mile zone). Manage this portion of the stand according to the guidelines in the plan. Old notes (1994?) state that the stand was cut over in the early 1960's.</p>														
25	W 6	F 2	61		11	150	50	white pine	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. White pine stand with red pine and jack pine. Also components of white birch, oak, spruce and balsam. Portions of the stand are a mixed stand of red pine, white pine and jack pine. Pockets of W9. Understory is a mix of WP, RP, balsam, spruce, W birch and some red maple. High basal area with variable size classes.</p>														
26	M 3	F 2	12	27		0	50	northern hardwood	old growth (potential or actual)	N		60-69 years	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone - northern portion of the stand. M3 - mix of white birch, red maple, white pine, balsam, sugar maple. Scattered residual overstory of red maple, white pine, oak, and a few hemlock. More white birch near Co Rd 410. Old notes ***Stand had the balsam fire salvaged in the 1970's.***</p>														
27	M 5	M 3	13		9	50	48	northern hardwood	old growth (potential or actual)	N		30-39 years	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone</p>														
28	M 6	M 3	18		10	110	48	northern hardwood	old growth (potential or actual)	N		30-39 years	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. Northern hardwoods with advanced understory. Pockets of hemlock. Areas with large diameter yellow birch and red maple. Low quality overstory with thick understory. Manage for the understory, better quality than the overstory. Check in 20-30 years. North end of the stand is within the Tow Hearted Natural River Zone. Rubicon sand.</p>														
29	M 6	M 3	9		11	120	48	northern hardwood	old growth (potential or actual)	Y		not scheduled	0	
<p>Treatment Limiting Factors:                      Quiet area/natural area/wilderness                      Scenic values/visual values                      Influence zones</p>														
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. "overmature" hardwoods stand. Lots of large diameter hard maple, red maple, and yellow birch. Stand varies from an M6 to an M9. Well established 35 ft tall understory of mainly maple. Lots of "old growth" characteristics (large dbh, old stumps, big wolfy tops, large rotting logs, etc). Large old rotten white pine and hemlock stumps and logs. The majority of the stand falls within the Two Hearted Natual River Zone. Unique stand. No reason to manage due to the unique characteristics and the promity to the natural river corridor. Wallace sand.</p>														
30	X 0	X 0	6			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : County Road 410 and 414 right of ways. Gravel portion and cleared Right-of-way.</p>														

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					B	Tot. BA	Site Indx							
31	M 6	M 3	24	11	120	48	northern hardwood	old growth (potential or actual)	Y		not scheduled	0		
<p><u>Treatment Limiting Factors:</u>                      Quiet area/natural area/wilderness                      Scenic values/visual values                      Influence zones</p> <p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. "overmature" hardwoods stand. Lots of large diameter hard maple, red maple, and yellow birch. Stand varies from an M6 to an M9. Well established 35 ft tall understory of mainly maple. Lots of "old growth" characteristics (large dbh, old stumps, big wolfy tops, large rotting logs, etc). Large old rotten white pine and hemlock stumps and logs. The majority of the stand falls within the Two Hearted Natual River Zone. Unique stand. No reason to manage due to the unique characteristics and the promity to the natural river corridor. Wallace sand.</p>														
32	L 0	L 0	16				lowland brush	old growth (potential or actual)	N		not scheduled	0		
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. Lowland brush with scattered trees along the Two Hearted River. Within the Two Hearted Natural River Zone</p>														
33	L 0	L 0	10				lowland brush	old growth (potential or actual)	N		not scheduled	0		
<p>comnts Fmd : HCVA + Two Hearted River Natural River Zone. Lowland brush with scattered trees along the Two Hearted River. Within the Two Hearted Natural River Zone</p>														
34	Q 6	F 2	7	76	9	70	28	mixed swamp conifer	immature	N		not scheduled	0	
35	M 6	M 3	13	11	120	48	northern hardwood	old growth (potential or actual)	Y		not scheduled	0		
<p><u>Treatment Limiting Factors:</u>                      Quiet area/natural area/wilderness                      Scenic values/visual values                      Influence zones</p> <p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. "overmature" hardwoods stand. Lots of large diameter hard maple, red maple, and yellow birch. Stand varies from an M6 to an M9. Well established 35 ft tall understory of mainly maple. Lots of "old growth" characteristics (large dbh, old stumps, big wolfy tops, large rotting logs, etc). Large old rotten white pine and hemlock stumps and logs. The majority of the stand falls within the Two Hearted Natual River Zone. Unique stand. No reason to manage due to the unique characteristics and the promity to the natural river corridor. Wallace sand.</p>														
36	M 6	M 3	47	10	140	48	northern hardwood	unevenaged	Y	thinning	within 0-9 years	1		
<p>comnts Fmd : Upland hardwoods stand. Lots of variability in the size classes throughout the stand. Pockets of M6 pole size timber and also areas of large diameter, overmature maple and yellow birch. Lower quality in the large diameter trees. Clumps of hemlock. Areas with a lower BA (90-100). Prescribe the stand for a thinning to release the good quality pole size timber along with the M3 that is established in the understory. Mark to a residual of 80-85 sq ft. Management objective of northern hardwoods. Favor good quality pole size and small sawlog trees as the residual crop trees. Remove some but not all of the large overmature maple. Leave some large yellow birch, all white pine and some spruce for wildlife considerations. Access will be from High Banks Trail and not Co Rd 410. Rubicon sand.</p>														
38	W 6	F 2	73	11	110	45	white pine	immature	N		20-29 years	0		
<p>comnts Fmd : Multiple aged white pine stand. Pockets of W9. Most of the white pine is limby. Understory of F2 (spruce and balsam). Variability in the BA throughout the stand. Scattered large diameter white pine (&gt;24 inches) throughout the stand. Some white pine with dead tops. West portion has more aspen and oak mixed in. Lots of structural diversity within the stand. Rubicon sand.</p>														

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					D B H	Tot. BA								
39	J 6	W 2	2	65	9	100	55	jack pine	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u>                      Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Small pocket of jack pine surrounded by white pine stand. Small diameters, healthy. F3/W2 understory 15-20 ft tall. Limbier trees near stand edge. Transitions to a W6 with a jack pine component along all sides. Hold stand for 10-20 years for diversity in jack pine in the area. Possibly hold for 20 years until surrounding stand 38 is managed. Rubicon sand.</p>														
40	W 9	F 2	21	105	18	140	45	white pine	two aged	Y		20-29 years	0	
<p><u>Treatment Limiting Factors:</u>                      Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Beautiful, tall white pine with red pine. Large diameters. Very tall, very large diameters. Stand was thinned in the past (od stumps). Open canopy. High BA is due to large diameters. Some dieback in a few of the white pine. Rubicon sand.</p>														
41	D 0	D 0	5			0		treed bog	nonstocked	N		not scheduled	0	
43	Q 6	Q 2	7	54	8	140	30	mixed swamp conifer	immature	N		30-39 years	0	
<p>comnts Fmd : Small diameter cedar and black spruce with slightly larger white pine. White birch, red maple and hemlock along stand edges. Tawas Spot Finch complex.</p>														
44	W 9	F 2	21		14	130	50	white pine	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. Large diameter white pine with red pine. Component of white birch, red maple and oak. Understory of spruce, red maple and balsam. Multiple age stand. Within the Two Hearted Natural River zone.</p>														
45	L 0	L 0	5			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : HCVA = Two Hearted Natural River Zone</p>														
46	W 9	F 3	15	92	16	110	50	white pine	old growth (potential or actual)	N		20-29 years	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. Really mixed stand. Large diameter, tall white pine and a few large red pine. White birch, red maple, oak, beech, spruce and balsam. Lots of mortality in the white birch. Nice oak throughout. Dominant stand is the large diameter white pine. Fairly thick, lots of species and structural diversity. Scattered hemlock. Rubicon sand.</p>														
47	J 6	W 1	6	76	10	130	53	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. Mature, tall jack pine. Showing some mortality. Some red pine and white pine mixed in. Some blowdown. Stand should be treated this entry year along with stands 53 and 54 as one sale. Prescribe stand for a final harvest, followed by scarification for natural jack pine regeneration. If scarification fails, plant to jack pine. Management objective of jack pine. Maintain 10 BA of white pine for residual, remove all other species. Follow Two Hearted River plan guidelines when harvested.</p>														
48	R 8	W 2	6	90	16	50	45	red pine	old growth (potential or actual)	Y		30-39 years	0	
<p><u>Treatment Limiting Factors:</u>                      Quiet area/natural area/wilderness                      Delayed treatment for age/size class diversity</p> <p>comnts Fmd : HCVA = Two Hearted River Natural River Zone. Red and white pine - averaging 16 inch dbh. Good regeneration of a mix of species (jack pine, red pine, white pine, red maple and spruce). Stand was harvested in the past, prior to 1964 (shows on 64 photos). Rubicon sand.</p>														

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					B H	Tot. BA								
49	W 9	F 2	15	93	12	130	50	white pine	old growth (potential or actual)	N		10-19 years	0	
comnts Fmd : HCVA = Two Hearted River Natural River Zone. Mixed pine stand of mainly white pine and red pine. Many areas are more of a red pine stand (pockets). North part of the stand is within the Two Hearted River Natural River Zone. Rubicon sand.														
50	L 0	L 0	11			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : HCVA = Two Hearted Natural River Zone														
51	Q 5	Q 1	10	82	9	70	28	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Quiet area/natural area/wilderness Too wet Too steep														
comnts Fmd : HCVA = Two Hearted River Natural River Zone. Lowland conifer stand.														
52	R 9	F 2	12	101	14	150	50	red pine	old growth (potential or actual)	Y		30-39 years	0	
<u>Treatment Limiting Factors:</u> Influence zones Quiet area/natural area/wilderness														
comnts Fmd : HCVA = Two Hearted River Natural River Zone. Mixed stand. Typed as white birch stand last entry year. More of a red and white pine stand with a white birch and oak component. Rubicon sand.														
53	R 9	W 2	42	92	16	160	50	red pine	immature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
comnts Fmd : Nice, good quality red pine with a good white pine component. Healthy red pine. Some mortality in the white pine. Some top dieback in the white pine. Open areas with advanced W2 understory 10-20 ft tall. Scattered red pine regeneration. Lots of oak seedlings 1-2 ft tall. Treat the stand this entry year along with stands 47 and 54 (one sale). Prescribe a shelterwood harvest for the stand, residual BA of 50-60 sq ft. Mark for the best tree in place regardless of species. Try to release smaller, better quality red and white pine. Remove all miscellaneous species. Leave oak as residual. Follow the sale with a prescribed burn to promote better red pine regeneration. Management objective of red pine. Alternative management objective of red pine mixed with white pine and some oak.														
54	J 6	W 2	44	74	10	140	53	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Mature, tall jack pine with red pine, white pine and some oak and aspen. Scattered white birch. Understory of M2/R2/W2 is variable. No real budworm problems in the stand at the time of inventory. Light damage. Some mortality. Treat stand this entry year with stands 47 and 53 (one sale). Prescribe a final harvest, followed by scarification for natural jack pine regeneration. If scarification fails, plant to jack pine. Management objective is jack pine. Cut all trees except for oak and 10 BA of red pine/white pine for residual (diversity). Rubicon sand. Two illegal blinds and illegal ORV trail from private property to the north.														
55	R 9	W 2	42	92	14	140	50	red pine	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : Large diameter red pine stand. Mainly red pine and white pine. Oak throughout. Understory of white pine. Pockets of aspen. Variable heights, variable diameters, multiple ages. Pockets of R6. Pockets of nice oak. Leave for 10 years for diversity due to the amount of recent harvests in the adjacent area. Rubicon sand.														
56	J 6	J 3	10	36	6	70	53	jack pine	immature	N		20-29 years	0	
comnts Fmd : Transitioning from a J3 to a J6. Planted in 1970. Scattered red and white pine.														

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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								
57	J 3	J 3	163	4		0	50	jack pine	immature	N		60-69 years	0	
comnts Fmd : Stand harvested as sale #008-98-01. Cutting completed 2000. Scarified on FTP #42-433, completed 8/2001. Regen check in May 2005 - 756 trees/acre - mixed regen of jack pine, red pine, white pine, red maple and oak. Jack pine 1-2 ft tall, patchy. Red maple stump sprouts 6-7 ft tall. Some red pine residual. NW corner - residual oak.														
58	J 6	J 3	30	36	6	70	53	jack pine	immature	N		20-29 years	0	
comnts Fmd : Transitioning from a J3 to a J6. Planted in 1970. Scattered red and white pine.														
59	J 6	J 3	9	44	8	80	45	jack pine	immature	N		20-29 years	0	
comnts Fmd : Young jack pine stand. Planted in 1962. Scattered large diameter red pine and white pine throughout. Rubicon sand.														
60	R 9	W 2	3	81	12	120	50	red pine	immature	Y		30-39 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : Mixed pine stand. Mainly red pine with white pine, jack pine and some scattered aspen and maple. Occasional oak. Lots of size class diversity and species diversity. Rubicon sand.														
61	X 0	X 0	2			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : County Road 410 and 414 right of ways. Gravel portion and cleared Right-of-way.														
62	W 6	W 1	30		10	120	45	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : All age white pine stand with red pine and jack pine. Scattered red maple, white birch and oak. Portion of the stand north of snowmobile trail is more of a W5 with smaller diameters. Rubicon sand.														
63	W 6	W 1	6		10	120	45	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : All age white pine stand with red pine and jack pine. Scattered red maple, white birch and oak. Portion of the stand north of snowmobile trail is more of a W5 with smaller diameters. Rubicon sand.														
64	Z 0	Z 0	7			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Small pond, almost dried up (2006). One of "Connor Lakes".														
65	W 9	F 2	10		14	130	45	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : Large diameter white pine and red pine over smaller red maple, balsam, spruce and mixed pine (J,R,W).														
66	J 6	W 1	4	77	9	110	50	jack pine	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : Mature jack pine, fairly healthy. No budworm problems. White pine and red pine throughout. Scattered merchantable red maple. Hold for 10 years for diversity in the area due to the amount of jack pine prescribed. If stand experiences an outbreak of jack pine budworm (severe) then salvage the stand out of year of entry.														
67	V 0	V 0	1			0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd :														
68	L 0	L 0	9			0		lowland brush	nonstocked	N		not scheduled	0	

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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								
69	R 6	W 2	13	64	10	130	45	red pine	immature	N		10-19 years	0	
<p>comnts Fmd : Mixed pine stand. Jack pine within the stand are healthy. Red pine and white pine are immature. Multiple ages throughout the stand. Treat the stand in 10-20 years, manage for red pine.</p>														
70	X 0	X 0	9			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : County Road 410 and 414 right of ways. Gravel portion and cleared Right-of-way.</p>														
71	J 3	J 3	48	14		0	50	jack pine	immature	N		50-59 years	0	
<p>comnts Fmd : Stand was cut as sale #018-88-01. Sale completed 9/12/1991. Scarified on FTP, completed 05/1992. Jack pine is an average of 10 ft tall, ranging up to 15 ft in areas. Very thick. Rubicon sand.</p>														
72	J 6	J 2	41	65	8	120	45	jack pine	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity Influence zones</p>														
<p>comnts Fmd : Smaller diameters in the jack pine than the stand to the east (stand 73). More of a red pine component than stand 73 and a more obvious understory, giving the stand a "thick" appearance. Shorter heights in the jack pine. Stand is healthy. Hold the stand for 10 years for visual reasons along the Co Rd and also for diversity in the jack pine within the compartment and overall area. Rubicon sand.</p>														
73	J 6	J 2	69	72	9	110	48	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Nice, tall jack pine. Some light budworm damage throughout. More budworm damage in northern portion of the stand. Thick stand, high BA. Slight mortality. Treat the stand this entry year along with stand 16 (one sale). Prescribe the stand for final harvest, followed by scarification for natural jack pine regeneration. If scarification fails, plant to jack pine. Management objective of jack pine. Leave red pine as residual when harvested, very scattered.</p>														
74	J 3	J 3	70	12		0	50	jack pine	old growth (potential or actual)	N		50-59 years	0	
<p>comnts Fmd : HCVA = Two Hearted River Natural River Zone - very northeastern corner of the stand. Stand cut as sale #044-93-01 "September Salvage Sale". Sale completed in 8/1994. Cut as a budworm damage salvage sale. Scarified on FTP #42-235, completed 11/1990. Jack pine is 5-8 ft tall, averaging 6 ft. Some up to 10-12 ft tall. Rubicon sand.</p>														
75	J 6	J 1	25	65	9	90	46	jack pine	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity Influence zones</p>														
<p>comnts Fmd : Mature jack pine, averaging 3 sticks with some 4 stick trees. Lower quality than surrounding stands. Stand is more open grown in the western half of the stand. Some budworm damage, but lighter than adjacent stands. Try to hold the stand for 10 years for visual concerns along the Co Rd 410 and also for diversity in the jack pine within the area. If budworm damage worsens, then salvage the stand out of the year of entry.</p>														
76	J 6	J 2	62	65	9	90	46	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 3-5 stick jack pine, some 5 stick trees. Eastern side of the stand is semi-open. Pockets of budworm in western half of the stand. Heavier budworm damage and mortality in the eastern half of the stand. Heavy damage and mortality along Co Rd 414. Scattered red pine and oak. Stand needs to be managed this entry year. Losing a lot of jack pine to mortality from the budworm damage. Final harvest the entire stand. Leave red pine and white pine and oak (if any). Shouldn't interfere with regeneration (less than 10 BA). Follow the harvest with scarification to promote natural jack pine regeneration. If scarification fails, plant the site to jack pine. Management objective is jack pine. Rubicon sand. ***Pre-review discussion - Snag retention - evaluate the number of snags (standing dead) when timber sale prep work is completed and the appropriate measures to take for retention versus visual impacts of high number of snags along high use road.</p>														
77	J 3	J 3	26	14		0	45	jack pine	immature	N		50-59 years	0	
<p>comnts Fmd : Stand cut as sale #009-88-01. Sale completed 6/23/1989. Site scarified on FTP #42-235. Completed 11/1990. Regeneration check in Sept 1995 = 47%, 968 trees/ac. Good jack pine regeneration 10 ft tall average. Fairly thick.</p>														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	A c r e s	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA								
78	J 6	J 1	34	64	9	90	44	jack pine	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Mature jack pine, open grown in areas. Primarily 3-4 stick, limby jack pine. Scattered oak, clumps of red pine in the southern half of the stand (old stand 19). Pockets of mortality. Slight to moderate budworm damage. Try to hold the stand for 10 years for visual concerns along the Co Rds due to the amount of harvesting prescribed along with helping to increase the age class diversity of the jack pine resource in the area. If budworm damage worsens in the stand, salvage the stand out of year of entry. Rubicon sand.														
79	J 3	J 3	47	4		0	45	jack pine	old growth (potential or actual)	N		60-69 years	0	
comnts Fmd : HCVA = Two Hearted River Natural River Zone - very northeastern portion of the stand. Stand cut as sale #003-99-01. Sale was completed on 8/17/2001. Stand was scarified on FTP #42-494, completed 10/6/2001. Regen survey in May 2005 - 959 trees/acre. Jack pine regeneration currently 1-2 ft tall. Good regeneration throughout. Scattered residual red maple, white pine and oak. Summer of 2006 - red headed pine sawfly damage through the stand. Fairly heavy defoliation. Snowmobile trail and ORV trail run through the stand.														
80	W 9	W 1	17		12	100	50	white pine	old growth (potential or actual)	N		30-39 years	0	
comnts Fmd : HCVA = Two Hearted River Natural River Zone. Stand cut as sale #003-99-01. Completed 8/17/2001. Large diameter white pine stand with some red pine. Understory of W2 throughout most of the stand with more A3 near Co Rd 414. Rubicon sand.														
81	J 3	J 3	23	4		0	50	jack pine	old growth (potential or actual)	N		60-69 years	0	
comnts Fmd : HCVA = Two Hearted River Natural River Zone. Stand cut as sale #003-99-01. Completed 7/11/01. Stand was scarified on FTP #42-494, completed 10/2001. Regen check in May 2005 - 651 trees/acre. Young jack pine 8-16 inches tall, some taller. Fairly good regeneration throughout. Rubicon sand.														
82	W 6	F 2	22		11	120	50	white pine	old growth (potential or actual)	N		50-59 years	0	
comnts Fmd : HCVA = Two Hearted River Natural River Zone. Multiple aged white pine stand. Mainly white pine with red pine, spruce, balsam, and some red maple. Areas are more of a W9 (pockets). More jack pine and red pine along the western edge of the stand with smaller diameter white pine. Lots of wildlife activity and trails through the stand (corridor). Rubicon sand.														
83	L 0	L 0	6			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : HCVA = Two Hearted River Natural River Zone. Lowland brush along the East Branch of the Two Hearted River. Two Hearted Natural River Plan.														
86	J 6	J 2	23	72	9	110	48	jack pine	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
Scenic values/visual values														
comnts Fmd : Nice, tall jack pine. Some light budworm damage throughout. More budworm damage in northern portion of the stand. Thick stand, high BA. Slight mortality. This is the southern portion of stand 73 that will be held for 10 years for visual concerns along Co Rd 410 and also for diversity purposes in the jack pine resource in the area. This stand will be cut in 10 years (next entry year) along with the adjacent mature jack pine stands. If the stand experiences a bad budworm outbreak, salvage the stand out of year of entry.														
484	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : small grass opening at the intersection of Co Rds 410 and 414.														

**NEWBERRY FOREST MGT UNIT**

**Stand Level Information**

**Compartment: 30**

**Entry Year: 2008**

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S t a n d	Cover Type- Size Dnsty	Under Story- Stkng Level	A c r e s	Age	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B H	Tot. BA	Site Indx							
485	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	

comnts Fmd : small grass opening at the intersection of Co Rds 410 and 414.

**Total Acres..... 2106**