

\* 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	Acr es	Age	avg. D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
1	R 6	J 1	5	71	7	110	48	red pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Mixed red pine, jack pine, and oak stand. Density by species varies. Final harvest and replant red pine, preparing stand for future buffer for stand 2 that is being managed for red pine poles. Slight hill on east end of stand. Mark to leave red pine and oak to meet retention guidelines, possible to leave very SE corner of stand uncut to meet retention guidelines. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Hold for ten years, then do a clearcut.)</p>														
2	R 9	O 1	41	71	12	160	55	red pine	old growth (potential or actual)	N	thinning	within 0-9 years	1	
<p>comnts Fmd : All jack pine, oak and marked red pine removed in 2000. A great deal of time was invested in marking rows for loggability in 2000. Excellent quality timber. Reduce red pine residual to 120 BA/AC. Thinning from below will not do this stand justice. Remove all damaged trees, dominate and codominate trees to reach desired BA/AC. Leave scattered oak dead and alive. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Qualifies as an FDF Stand. Natural Gas Storage Injection pipelines. Stand may have Utility Poles? Old hand planting, vague row delineation E/W. Some very nice Quality timber. Possibly take some rows out for the first cutting in this stand.)</p>														
3	R 3	R 3	51	18	4	0	54	red pine	old growth (potential or actual)	N		30-39 years	0	
<p>comnts Fmd : Clear cut and replanted to red pine in 1990. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Replanted with Red Pine - good survival seedlings now 3 feet tall. May be FDF stand - need to check. 1988 Notes: SI RP=54 MUCH BETTER THAN JP)</p>														
4	R 6	W 1	44	69	8	140	52	red pine	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : Red pine and jack pine planted in 1940. Nice mixed stand, species density varies pockets of heavy jack pine and pockets of heavy red pine. Hold 10 yrs due to other clearcuts in the area. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: A heavy White Pine understory exists along the ridge at the very north end of this stand. We should let this develop further. This situation exists over an area of about one chain wide along the ridge top. This WP is not above the weevil stage yet. 1988 notes: Some JP mortality.)</p>														
5	E 6	E 3	11	73	8	90	60	swamp hardwoods	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. Old oxbow within stand. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Very wet muck soil area over a steep bank. Some blowdown damage scattered. Looks more pure E to the West and North. Good natural filtration zone for the Muskegon River. 1988 remarks: Some potential for habitat cuts.)</p>														

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					D B	Tot. BA								
6	R 3	R 3	22	7	1	0	44	red pine	old growth (potential or actual)	N		40-49 years	0	
<p>comnts Fmd : Clearcut and replanted to red pine in 2000. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Clearcut and mark some clumps of Red Pine to leave where it will help soften the visual impact along Finley Lake Avenue. Some opportunity to leave RP exists at the north end near the township property) ( Final harvest and replanted 2000 left buffer along Finley Lake Ave. Tim Gallagher 9/1/2003)</p>														
7	R 6	W 2	29	72	9	150	48	red pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Hand planted to red pine and jack pine in 1938. Final harvest and replant red pine. Stay away from steep bank at west north west corner of stand. Stand borders the town of Leota, township hall and baseball fields at north end. Need to consider visual at north end of stand. Possible to leave pockets of red pine at north end of stand to meet retention guidelines. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Some mortality in the oak, but not much. Hold this for 10 years.)</p>														
8	J 6	J 1	42	64	8	110	42	red pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Mixed jack pine, red pine and oak stand. Planted in 1940 jack pine and oak showing signs of decline, red pine doing much better than the jack pine. Final harvest and replant red pine. Mark a mix of oak and red pine to leave to meet retention guidelines. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
9	R 6	X 0	15	52	8	220	54	red pine	old growth (potential or actual)	Y	thinning	within 0-9 years	1	
<p>comnts Fmd : Decent red pine, third row thinned in 1991, maintain as a plantation. Individually tree mark to reduce residual BA/AC to 110 BA/AC. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: NAT GAS STORAGE INJ SITE &amp; PIPELINES HERE)</p>														
10	O 6	W 1	27	79	8	80	50	oak	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Final harvest, leave all red and white pine for visual and retention. Mark to leave oak in clumps to meet retention guidelines. May need to interplant red pine to maintain full stocking. All the pine is located at the south end of stand along road. Very little white pine. Scattered pockets of jack pine, lots of dead oak both standing and down. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1997 comments:This one will hold for 10 years yet. Only a trace of mortality, nothing to be concerned about. It is mainly a polesize stand of jack pine and oak. 1988 notes:TRACES OF GYPSY MOTH)</p>														
11	W 4	W 1	28	25	6	30	46	white pine	old growth (potential or actual)	N		50-59 years	0	
<p>comnts Fmd : Partial harvest in 2000. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Oak Mortality, lots of White Pine understory (4") along with jack pine, oak &amp; pin cherry. Natural Gas Storage Pipelines along roadway. Lots of large dead oak along roadway need to be removed. North east arm of stand has a lot of dead oak and the W Pine appears to have weevil problems due to this burst of sunlight. A small amount of Jack Pine mixed in this stand. ( All but pine removed 2002 Tim Gallagher 9/1/2003))</p>														

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					B	Tot. BA								
12	A 3	A 3	21	17	3	0	62	aspen (upland)	old growth (potential or actual)	N		30-39 years	0	
<p>comnts Fmd : Very nice aspen regeneration. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1997 Comments: Very good aspen regeneration after the '90 clearcut. Aspen is already 12-16 feet tall. 1988 notes:EXPAND AROUND ASPEN CLONES INTO OAK-TYPE 1-2 CHAINS AS MAP INDICATES)</p>														
13	E 9	E 2	28	100	15	70	60	swamp hardwoods	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                  Too wet                  Too steep                  Water quality/bmps</p>														
<p>comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Very wet stand along the Muskegon River, not much understory, a few scattered W. Pine. Potential Old Growth. Willow, Black Ash and Green Ash present. The stand is seperated from the stand to the south by a steep bank that drops some 20-30 feet. Good natural filtration zone along the river. No Commercial Harvest Opportunity)</p>														
14	E 6	E 1	1	77	9	70	60	swamp hardwoods	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth stand. Access to the stand is down over a steep 20' bank)</p>														
15	E 6	E 3	4	73	8	90	60	swamp hardwoods	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth Stand that is also a filtration strip along the Muskegon River)</p>														
16	J 3	J 3	15	7	1	0	50	jack pine	old growth (potential or actual)	N		50-59 years	0	
<p>comnts Fmd : Clear-cut and replanted to jack pine in 2000. Several rows of red pine were left along Haskel Lake Road for visual. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: NATURAL GAS STORAGE INJECTION SITE &amp; PIPELINE HERE. ( Final harvest and replanted 2000 Tim Gallagher 9/1/2003))</p>														

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					B	Tot. BA								
17	R 9	W 1	22	101	10	110	47	red pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Final harvest and replant red pine. Mark to leave a mix of red pine and oak to leave to meet retention guidelines. Regen will be a mix of red pine, oak and jack pine. Mixed stand red pine, oak and jack pine. Little to no understory. Dead oak salvage in 2002. Open grown big timber, oak is on the rapid decline. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Natural Gas Storage Injection Site #342 is located in this stand along with some related pipelines. An overhead power line easement bisects this stand. The red pine in this stand is 50 years old (examined 1997) and 50 feet tall. Lots of dead oak especially west of the power line, more jack pine east of power line. Could go in and do a salvage cut on the dead oak, but overall this is a low priority cut. Looking along the overhead power line - there is a good number of trees that should be removed in order to lessen the chance of them coming down on the lines in the future and creating a fire)</p>														
18	J 3	J 3	14	17	3	0	46	jack pine	old growth (potential or actual)	N		40-49 years	0	
<p>comnts Fmd : Clear-cut in 1990 Filling in very slowly. Stand should have been planted following harvest. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Gas Storage pipelines through this stand. Lots of sweetfern, clearcut in 1990. Stand has never been well stocked and it never will be unless it is planted with something)</p>														
19	R 4	O 3	60	70	7	40	49	red pine	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : All oak and jack pine removed in 2000. Oak understory is starting to get established as a result of the partial harvest. Possible to evaluate the removal of the red pine in 10 yrs. Red pine BA is low enough to leave. At the present time the red pine is acting as a nurse crop for the oak regen. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1997 Comments: Lots of dead oak. 1988 notes:TWO GATE TRESPASSES - WEST SIDE OF STAND.(Trespases resolved KGR). INJECTION SITES #341 &amp; #255/PIPELINE. 1997 CHANGE AT COMPARTMENT REVIEW TO HARVEST STAND AS A MIX CUT OF CLEARCUT AND SELECTION. ( All but red pine removed 2000 Tim Gallagher 9/1/2003))</p>														
20	E 9	E 2	16		12	80	60	swamp hardwoods	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Possible Old Growth Stand along the Muskegon River. Stand is bisected by a pipeline that appears to cross the river)</p>														
21	E 9	E 1	40	100	16	70	60	swamp hardwoods	old growth (potential or actual)	Y		not scheduled	0	

Treatment Limiting Factors:

- Too wet
- Too steep
- Water quality/bmps

comnts Fmd : In the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth stand right along the Muskegon River. The area is very wet and difficult to access. Serves as a natural filtration strip for the river corridor)

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					D B	Tot. BA								
22	E 6	E 1	3	77	9	70	60	swamp hardwoods	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth stand. Access to the stand is down over a steep 20' bank)</p>														
23	O 6	W 3	31	77	9	70	57	oak	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Heavy understory of White Pine (12' tall). Some pin oak regeneration in the form of seedlings. Serious problem at the end of the road on the Muskegon River. A huge washout of sand into the Muskegon (400-500 cubic yards). Lots of camping activity occurs here. Opportunity exists to divert the water runoff into a filtration strip of bottomland hardwoods before it reaches the river)</p>														
24	O 5	J 3	21	88	9	60	46	oak	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Final harvest 4" spec to stimulate and release understory, leave all white pine. J3 / J2, W1, O1 understory. Oak salvage cut here in 2003. Mark to leave oak to meet retention guidelines. May need to interplant red pine to maintain full stocking. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Not a good site, some WP saplings and a trace of JP, otherwise not much of a stand. I would leave it go another 10 years, then assess it again. 1988 notes: Previous cut was remove all except oak)</p>														
25	W 9	E 1	5	122	18	120	60	white pine	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                  Too wet                  Too steep                  Water quality/bmps</p>														
<p>comnts Fmd : Big majestic white pine. Down over a steep bank in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Lots of nice White Pine logsize trees with pockets of pure E, Q or Cedar. Good Stand to leave alone)</p>														
26	E 6	E 3	15	77	9	70	60	swamp hardwoods	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth Stand. A bayou is located in this stand. Very steep bank (20-30') along the edges where the transition is from upland to this stand. Flooded areas and small bodies of water scattered, lots of beaver activity too. No Aspen was observed. 1988 notes: Varies from E4 to E9. Pockets of Q-type. Some areas of flooded timber on the Muskegon river. In view of some homes on the opposite High Bank)</p>														

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					D	Tot. BA								
27	R 6	W 3	10	47	7	110	48	red pine	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Upland narrow strip of timber between a steep bank of the Muskegon River and a large area of managed timber. Leave as natural buffer. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Some Red Pine Poles and Saplings mixed in. A fair amount of White Pine understory)</p>														
28	R 9	O 1	19	73	12	110	49	red pine	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : All jack pine, oak and marked red pine were removed in 2000. A lot of time was invested in making rows in this stand. The stand is at the desirable BA for a red pine sawtimber stand. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Old RP/JP hand planting of 1937 vintage. Looks like we should cut the jack pine now and leave the red pine. Some oak but not much. South of the power line and towards the west/central area of the stand suffered a forest fire in the past, old plow furrows still visible. The BA is lower in this area and the characteristics of the stand are somewhat different. 1988 notes: Stand somewhat thinner on the west half. Overhead power line bisects the stand)</p>														
29	J 3	J 3	46	17	2	0	46	jack pine	old growth (potential or actual)	N		40-49 years	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 comments: Stand was replanted in '90 by machine with jack pine seedlings. Several rows of Red Pine (8-10) were planted along the south edge of the stand to accomodate the future visual management opportunities due to the adjacent subdivision. 1988 notes: Stand is adjacent to a Subdivision - mostly seasonal. An overhead power line bisects the stand at the SE corner)</p>														
30	R 6	X 0	35	68	8	180	42	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Some areas are heavy to RP others heavy to JP. Natural Gas Storage Injection Site #415 is located at the edge of this stand. Consider clearcutting in 10 years)</p>														
31	J 6	J 1	5	57	7	70	45	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Natural Gas Storage Injection Site #946 is located at the North end of this stand. Injection Site at the South end is #706)</p>														

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					B	Tot. BA	Site Indx							
32	R 9	O 2	7	72	10	120	55	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. All jack pine and marked red pine removed in 2000. Stand is at desired BA for red pine sawlogs. Excellent quality timber. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Planted in 1937. Some N/S rows can be distinguished. It is a small stand and would be nice to keep it in a condition other than clearcut. Perhaps we can remove a few rows when we treat some of the adjacent stands. Cut every fourth row)</p>														
33	R 6	J 1	19	72	8	180	40	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. Mixed red pine, jack pine and oak stand. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: This stand was cut in 1961 - apparently all the Red Pine was left at that time. This stand can wait another 20 years before we need to do any further treatments. Some small DBH Jack Pine is coming along too. ADJACENT TO NATURAL GAS PIPELINE)</p>														
34	J 3	J 3	10	5	1	0	55	jack pine	old growth (potential or actual)	N		50-59 years	0	
<p>comnts Fmd : Clear-cut and replanted to jack pine in 2000. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Natural Gas Storage Injection Site #414 is located in the center of this stand. Stand is healthy now and we could cut it now or wait for 10 years. The timber in this stand is not large diameter stuff)</p>														
35	J 6	O 1	29	55	6	110	49	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. Almost pure jack pine. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Natural Gas Storage Injection Sites #706 is located at the NorthEast side of this stand. Injection site #416 is located at the South end of this stand. This timber is relatively young yet and should hold for 10-20 years.)</p>														
36	R 6	O 1	42	72	8	150	47	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. Old 1937 hand planting. Rows are indistinguishable, jack pine is on rapid decline. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Gas Well (Mammoth State Summerfield A-1 the owner is Eldon Binkwell 517 539 2021) with pipelines leading North along the surface of the ground and some storage tanks. A Natural Gas Storage Injection Site #244 is located in the center of the stand with related pipelines and service roads. Some areas appear to be more Jack Pine than Red Pine especially near the well site and the injection site. Part of this stand could be clearcut in 10-20 years with heavier Red Pine areas left to grow. There was a partial cut here in 1963 that may account for this appearance.)</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								
37	J 3	J 3	23	7	1	0	50	jack pine	old growth (potential or actual)	N		50-59 years	0	
<p>comnts Fmd : Final harvest in 2000 followed by trenching and hand planting to jack pine. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Natural Gas Storage Injection Site #243 is located along the West edge of this stand. A old well pad site is located in the north central part of the stand and it was not restored well. Numerous roads/pipelines cross this stand and BMP must be applied to the Cranberry Creek corridor along the West edge of the stand. Cutting should be done in a fashion to clearcut areas that need clearcutting and leave pockets of Red Pine where feasible to do so.)</p>														
38	J 6	J 1	10	73	8	100	49	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Quite a variety of timber species, size classes and densities. Old 1937 planting could have had a lot of competition that caused the present appearance. There is a lot of White Pine coming in especially near the Creek Corridor.)</p>														
39	O 9	O 2	12	101	10	90	47	oak	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Final harvest and manage for oak regeneration. Leave all scattered red pine, white pine and marked scattered oak wolf trees to retain to meet retention guidelines. Oak appears to be on the decline. May need to interplant red pine to maintain full stocking. A mix of natural and interplanted regeneration is acceptable. Only a trace of white pine within stand. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
40	J 6	J 1	45	65	7	100	46	jack pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
41	R 6	W 2	25	72	8	110	52	red pine	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : Very visable stand. The stand is between Cranberry Creek, the Muskegon River Floodplain and KW managemant block 117. Stand is currently within KW block 117. Stand should be removed from KW block 117 as it lies between the two water-ways mentioned above and is bisected by Otter Drive. The stand should become a managed buffer between the future KW cut and the Cranberry Creek and the Muskegon River Floodplain. In addition the very south leg of the the stand is down over steep bank. (Had local meeting at unit to discuss this proposal; Dick Shellenbarger is to field check stand) The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</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	Tot. BA								
42	R 6	J 1	6	72	8	150	50	red pine	old growth (potential or actual)	N		10-19 years	0	
<p>comnts Fmd : Part of larger stand in compartment 10. Manage with adjacent compartment. Stand was inventoried in compartment 10 as stand 555. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Check Stand for possible thinning with adjacent Compartment 10, Stand 155, 2003 YOY. 1988 Notes: TRESPASS OF SHEDS &amp; VARIOUS ITEMS ONTO THIS STAND. MOBILE HOME 10' FROM PROPERTY LINE - SEASONAL USE. Trespass resolved in 1990.)</p>														
43	O 6	J 2	38	77	8	70	46	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. Poor quality northern pin oak with younger jack pine mixed in. Jack pine is moving from the understory to poles. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Oak/Jack Pine stand. The Jack Pine is in the understory. Hold for at least 10 years.)</p>														
44	C 6	X 0	11	104	6	90	28	cedar	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Down over a steep in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Narrow strip of good quality Cedar. WILDLIFE THERMAL COVER. This is a Potential Old Growth stand with a steep bank leading down from the upland to this site. Signs of heavy deer use during winter.)</p>														
45	R 9	W 1	16	72	10	150	47	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. Stand 48 was split. This new stand is the north 1/2 of stand 48. Both are within KW management block 117, I am proposing to withdraw stand 48 from the KW block. This stand would stay within the block. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
46	E 6	E 2	29	87	8	80	61	swamp hardwoods	old growth (potential or actual)	Y		not scheduled	0	

Treatment Limiting Factors:

- Too steep
- Too wet

comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: This area is difficult access and is very wet in places. The timber type varies and it is a good place to allow Wildlife Division to manipulate the habitat or declare this site as a Potential Old Growth stand. 1988 Notes: CLEARCUT AS HABITAT CUTS OVER NEXT 10 YRS.)

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Stand	Cover Type-Size 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	Tot. BA								
47	E 6	E 1	16	88	8	80	56	swamp hardwoods	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Too wet                      Too steep</p> <p>comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. Very wet mucky soils. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth Stand that also serves as a filtration zone along the Muskegon River. The Stand is very wet and a drainage flow occurs near the bottom of the steep bank.)</p>														
48	R 9	W 1	31	72	10	160	47	red pine	old growth (potential or actual)	N	thinning	within 0-9 years	1	
<p>comnts Fmd : Stand is currently within KW block 117. Stand should be removed from KW block 117. Stand changes as you move south towards the Muskegon River. The elevation drops as you move south, both gradually and in steps. More hardwood species mixed in as you move south (oak, aspen and birch). Remove all jack pine and mark to remove red pine to reduce red pine BA down to 90. Do not remove all the mixed hard woods. Rows are indistingwishable, old 1938 hand planting. Rows will need to be laid out in order to make the stand operable. (Held local meeting at unit to discuss this proposal; Dick Shellenbarger is to field check stand) The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
49	E 6	F 3	1	88	8	70	60	swamp hardwoods	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Too wet</p> <p>comnts Fmd : In the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Typical Muskegon River Bottomlands hardwood stand. Potential Old Growth Stand that also serves as a natural filtration zone along the Muskegon River. Mostly Red Maple and Green Ash with some scattered W. Pine and a little cedar along the edges of the stand. The site is very wet with some pocket of muck soils.)</p>														
50	E 6	F 3	6	88	8	70	60	swamp hardwoods	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Too wet</p> <p>comnts Fmd : Muskegon River Floodplain stand. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Possible Old Growth Stand that also serves as a natural filtration zone for the Muskegon River. This stand has very wet soils. There is a heavy Balsam Fir understory and lots of deer, rabbit and grouse sign. Probably inaccessible for commercial logging purposes - or at least the site is too fragile in places to allow heavy equipment to operate on it.)</p>														
51	O 6	W 2	5	76	8	70	52	oak	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Narrow stand between Muskegon River and private land. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: This site was formly a "Public Fishing Site" and some of the old boundary signs are still up indicating this. Some salvage of the dead oak in the stand could be done, however it is not a high priority cut. The bank along the Muskegon River is extremely high (35-45 feet) so the implementation of BMP's is critical to the river corridor. Some consideration should be given to just planting White Pine along this Zone of concern instead of any cutting consideration at all. 1988 Notes: ASPEN IN CLONES ALONG RIVER BANK NOT SCATTERED THRU STAND EVENLY. ON MUSKEGON RIVER. HOMES/CABINS WITHIN VIEW.)</p>														

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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								
52	E 6	E 1	4	86	9	90	60	swamp hardwoods	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Too wet                      Too steep</p> <p>comnts Fmd : Down over a steep bank in the Muskegon River Floodplain. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth Stand that also serves as a filtration zone along the river. 1988 Notes: NO ACCESS - STEEP 45 FOOT EMBANKMENT PROHIBITS ACCESS. VERY WET. ON MUSKEGON RIVER.)</p>														
53	O 5	J 1	18	85	7	60	46	red pine	old growth (potential or actual)	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Oak is on rapid decline. Final harvest and interplant red pine to maintain full stocking. Mark pockets of oak to leave to meet retention guidelines. Density varies. Overall this is a poor open site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Oak and young Jack Pine. Will hold at least 10 more years.)</p>														
55	C 6	E 1	3	99	7	120	37	cedar	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Small pocket of C6 between upland w/high bank and small lowland brush type. Lots of deer sign. Some hardwood on the fringes of this stand. Potential Old Growth Stand, provides wildlife thermal cover.)</p>														
56	R 9	X 0	1	113	14	110	62	red pine	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Blocked by other physical obstacle</p> <p>comnts Fmd : Unique stand of Red Pine. No access due to Muskegon River, oxbow's and bayou's. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth site. High/dry ground with majestic trees. Some scattered Oak and Aspen. Very difficult access due to small bayou and adjacent wet stands.)</p>														
57	E 5	E 2	9	95	6	60	60	swamp hardwoods	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u>                      Too wet</p> <p>comnts Fmd : Muskegon River Floodplain stand. Very wet stand, sheet flow. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Very wet site that has a variety of tree species and densities. Potential Old Growth site that ties in with other adjacent stands with old growth potential.)</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								
58	R 6	X 0	8	52	5	170	43	jack pine	old growth (potential or actual)	N	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Due to a recent update in the Leota Kirtland Warbler plan final harvest and replant jack pine for KW habitat. Follow retention guidelines as they pertain to KW harvests. Stand is within KW block 117. Defer treatment to the 2015 plan-of-work, target plant year is 2019. Small diameter / short trees. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: PLANTED IN 1958.)</p>														
59	A 3	W 1	5	18	3	0	62	aspen (upland)	old growth (potential or actual)	N		30-39 years	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
60	J 3	J 3	59	17	3	0	45	jack pine	old growth (potential or actual)	N		40-49 years	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Stand was replanted to Jack Pine in 1990. This stand is immediately adjacent to a major pipeline corridor. Kirtland's Warbler survey in spring of 1997 indicated that birds are using this stand.)</p>														
61	J 3	J 3	28	7	1	0	40	jack pine	old growth (potential or actual)	N		50-59 years	0	
<p>comnts Fmd : Final harvest in 2000, trenched and hand planted to jack pine. A nice buffer was left uncut along the Cranberry Creek. The hand planted jack pine seem to be slow growing at best. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Apply good judgement along the Cranberry Creek Corridor regarding BMP's. Natural Gas Storage Injection Site #727 is located along the edge of the stand near the Cranberry Creek Corridor. Leave the timber uncut South of the Injection Site until the stand widens out further South. Replant using Kirtland's Warbler planting techniques.)</p>														
62	R 3	R 3	62	17	3	0	46	red pine	old growth (potential or actual)	N		30-39 years	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Red Pine was planted with machines in 1990. A fair amount of natural Jack Pine regeneration is coming in too. Natural Gas Storage Injection site and pipelines adjacent to this stand.)</p>														
64	V 0	V 0	4		0	0		bog or muskeg	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
65	Z 0	Z 0	1		0	0		water	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Oxbow of Muskegon River. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</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								
67	L 0	L 0	33		0	0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Cranberry Creek floodplain / corridor stand. Includes flooded areas, steep banks and buffers left along the creek from adjacent timber harvest's. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: This stand serves as a natural filtration strip for the Cranberry Creek, which is a designated trout stream. Some areas of the stand find that the creek flows very close to the edge of the elevated banks of the upland areas and those places will need additional buffering to prevent sedimentation problems.)</p>														
71	J 3	J 3	4	7	1	0	40	jack pine	old growth (potential or actual)	N		50-59 years	0	
<p>comnts Fmd : Final harvest in 2000, trenched and hand planted to jack pine. A nice buffer was left uncut along the Cranberry Creek . The hand planted jack pine seem to be slow growing at best. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Apply good judgement along the Cranberry Creek Corridor regarding BMP's. Natural Gas Storage Injection Site #727 is located along the edge of the stand near the Cranberry Creek Corridor. Leave the timber uncut South of the Injection Site until the stand widens out further South. Replant using Kirtland's Warbler planting techniques.)</p>														
74	A 3	A 3	3	17	3	0	65	aspen (upland)	old growth (potential or actual)	N		30-39 years	0	
<p>comnts Fmd : Habitat cut 1989. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Steep slope was habitat cut to improve food and cover. No Mechanized equipment allowed to operate on the slopes. Natural Gas Storage Injection Site #443 is located in this stand with a service road and pipeline leading to it.)</p>														
75	E 6	E 3	28	67	9	70	60	swamp hardwoods	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Down over a steep in the Muskegon River Floodplain.The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth Area. Good wildlife area. Lots of variety with no clear timber type. 1988 notes: Habitat Cut to improve the Aspen. Cut over a 10 yr. period.)</p>														
76	L 0	L 0	1		0	0	35	lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Muskegon River bottomlands. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
77	A 3	A 3	3	17	3	0	60	aspen (upland)	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Habitat cut in 1990. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														

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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
78	M 6	M 3	6	67	9	70	60	northern hardwood	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Stand is located down over a steep bank. The floodplain is in steps and this stand is in the middle. Its in between the true upland and the true bottomlands. Stand is workable. Aspen is all but gone. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: Potential Old Growth Area. Good wildlife area. Lots of variety with no clear timber type. 1988 notes: Habitat Cut to improve the Aspen. Cut over a 10 yr. period.)</p>														
79	L 0	L 0	7		0	0	35	lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: This stand serves as a natural filtration strip for the Cranberry Creek, which is a designated trout stream. Some areas of the stand find that the creek flows very close to the edge of the elevated banks of the upland areas and those places will need additional buffering to prevent sedimentation problems.)</p>														
96	N 0	N 0	7		0	0		marsh	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
97	Z 0	Z 0	1		0	0		water	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
99	Z 0	Z 0	2		0	0		water	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
103	R 3	R 3	11	7	1	0	45	red pine	old growth (potential or actual)	N		40-49 years	0	
<p>comnts Fmd : Clearcut and replanted to red pine in 2000. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation. (1999 Comments: This was a visual buffer strip that was left when the adjacent (Stand 3) timber was cut. Some places it is 5 chains wide - narrower in other places. Could hold 10 years if desired. ( Final harvest and replanted 2002 Tim Gallagher 9/1/2003))</p>														
106	R 3	R 3	32	17	3	0	52	red pine	old growth (potential or actual)	N		30-39 years	0	
<p>comnts Fmd : Clearcut and replanted to red pine in 1990. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Age	avg. D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
400	G 0	G 0	7	0	0	45	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Great Lakes Gas Pipeline. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
401	G 0	G 0	2	0	0	45	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Restored oil well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
402	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
403	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
404	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
405	G 0	G 0	2	0	0	48	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Old storage tanks. "Bone yard" The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
406	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
407	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													

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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	Tot. BA								
408	G 0	G 0	1		0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
409	G 0	G 0	1		0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
410	G 0	G 0	1		0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
411	G 0	G 0	2				42	grass	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Starting to fill in with jack pine. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
412	G 0	G 0	1		0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
413	G 0	G 0	1		0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
414	G 0	G 0	1		0	0	42	grass	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</p>														
415	G 0	G 0	2		0	0	42	grass	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.</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	Tot. BA							
416	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
417	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
418	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
419	G 0	G 0	2	0	0	46	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Forest fire weather station is located here. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
420	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
421	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
422	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													
423	G 0	G 0	1	0	0	52	grass	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : Consumers Energy gas well site. The entire compartment is in the "Leota Kirtland Warbler Management Area" (LKWMA). The entire LKWMA has special resource management direction as a "Dedicated Species Recovery Area" and has been dedicated as a "High Conservation Value Area" (HCVA). The entire compartment has been coded as stand condition eight to reflect the HCVA designation.													

Total Acres..... 1482