

## Appendix N -MIH

Tables below display objectives and data for past, current, and projected acres and percents for each of four age groupings of upland Landscape Ecosystems' (LE) management indicator habitats (MIHs). The age groupings are: (1) Young/Seedling/Open; (2) Sapling/Pole; (3) Mature (4) Old Forest/Old Growth/Multi-aged. (Category 4 combines age grouping for Old Forest together with Old Growth/Multi-aged. Data for each of these two age groupings separately is available upon request). Lowland Conifer MIHs are not included in this appendix but also are available upon request.

The changing conditions (acres and percent) of MIHs have resulted from a combination of natural succession (aging) of the MIH, management actions such as timber harvest or prescribed burning that create young/seedling forest, and/or new MIH classification that is a result of vegetation inventory updates and refined GIS mapping of LEs. The Forest Plan objectives were developed considering the changes that would result from succession or management actions. The Plan also anticipated changes due to changed LE mapping or inventory. To date, the effect of changes from mapping or inventory on Forest Plan objectives has not been analyzed in depth and so no need for change in objectives has been identified. It will be important to continue to track on MIH conditions and validate that objectives remain appropriate.

Changes in (1) Young/Seedling MIHs have generally directly resulted from vegetation management activities, especially clearcut and shelterwood timber harvest. For Young/Seedling MIHs it may be helpful to note that all acres shown as being in this stage of MIHs at the time of the Forest Plan decision ("*FEIS Existing Condition 2004*") will all age out of this Young/Seedling age grouping by the end of Decade 1 into the Sapling/Pole stage. At the end of the Decade 1 all Young/Seedling MIHs will result from vegetation management activities done starting in FY2005 and accomplished by 2014. Thus, for young/seedling MIHs whose objectives are to increase from 2004 conditions, Forest Plan implementation may be trending toward objectives for increasing Young/Seedling MIHs, even though 2005 percents now show less amount in Young/Seedling MIHs than 2004.

For MIH age groupings (2) Sapling/Pole and (3) Mature, conditions are a generally a result of natural succession of forest with no management activities, though there has been some thinning in mature red and white pine MIHs. For MIH grouping (4) Old Forest/Old Growth/Multi-aged, conditions are also mainly a result of natural succession of forest, although activities such as timber harvest and prescribed fire have been conducted in some acres. These activities maintain the MIH age group while changing within stand composition and structure.

## MIH Data Tables

**Legend and Data Source.** Sources for all following data in tables are:

- 1.) *FEIS Existing Condition 2004*: Condition of MIHs at the time of the ROD, July 2004. From CDS/GIS forest stand data in DualPlan (Forest Plan FEIS revision vegetation model) based Natural Resources Research Institute (NRRI) Landscape Ecosystem Map layer. (Explanation for differences between NRRI map and Implementation map is in Vegetation Section 1.B. of this Monitoring and Evaluation Report.)
- 2.) *FP Objectives – Change from Existing Condition 2004*: Forest Plan), Table 4 for each Upland LE (p. 2-61 to 2-75 and Table LLC-3 for Lowland Conifer LE (p 2-77).
- 3.) *Forest-wide Existing Condition in 2005*: CDS/GIS forest stand data frozen on Sept 30, 2005 to reflect actual condition of vegetation at end of Fiscal Year 2005 based on Landscape Ecosystem Implementation Map. (Explanation for differences between NRRI map used in 2004 and Implementation map is in *Section Vegetation 1.B.*)
- 4.) *Forest-wide Condition in 2005 plus NEPA Decisions (DN) for vegetation mgt*: CDS/GIS forest stand data frozen on Sept 30, 2005 PLUS the expected condition of vegetation after implementation of vegetation management projects with NEPA Decisions as of end of FY05. Decisions include those made for Dunka EA, Virginia EIS, Holmes/Chipmunk EIS, Kadunce 2 EA, Tomahawk EA, and other decisions made prior to Forest Plan ROD, but not yet implemented.
- 5.) *% and Acres (in 1000s) of total MIH* = Percent displayed is percent of each young MIH of the total acres in the Landscape Ecosystem. Total acres for FP 2004 data was derived from DualPlan (Forest Plan FEIS revision vegetation model) based Natural Resources Research Institute (NRRI) Landscape Ecosystem Map. Total acres for 2005 data based on Landscape Ecosystem Implementation Map. (Explanation for differences between NRRI map used in 2004 and Implementation map is in Section Vegetation 1.B.)

<b>Jack Pine-Black Spruce Landscape Ecosystem (JPB)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>JPB MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup>.</b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease (m) = maintain</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup>.</b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN).<sup>4</sup></b>	
	MIH = 267,600 ac		<b>Decade Objective</b>			MIH = 267,600 ac		MIH = 284,500 ac		MIH = 284,500 ac	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
<b>1. Upland Forest</b>											
<b>Young/Seedling/Open</b>	29.2	10.9%	+	+	+	36.2	13.5%	20.6	7.2%	28.8	10.1%
<b>Sapling/Pole</b>	94.9	35.5%	n/a	n/a	n/a	102.6	38.4%	104.7	36.8%	103.3	36.3%
<b>Mature</b>	75.8	28.3%	-	-	-	62.8	23.5%	82.2	28.9%	79.0	27.8%
<b>Old/Old Forest</b>	48.4	18.1%	-	-	+	55.2	20.6%	56.4	19.8%	53.3	18.7%
<b>Old Growth/Multiaged</b>	19.3	7.2%				10.8	4.0%	20.7	7.3%	20.1	7.0%
<b>2. Upland Deciduous Forest</b>											
<b>Young/Seedling/Open</b>	12.3	4.6%	+	+	+	13.5	5.0%	10.3	3.6%	13.1	4.6%
<b>Sapling/Pole</b>	44.7	16.7%	n/a	n/a	n/a	49.3	18.4%	51.5	18.1%	50.6	17.8%
<b>Mature</b>	41.8	15.6%	-	-	-	24.9	9.3%	38.9	13.7%	38.5	13.5%
<b>Old/Old Growth/Multiaged</b>	37.3	14.0%	-	-	-	35.2	13.1%	43.1	15.1%	40.4	14.2%
<b>3. Northern Hardwood Forest</b>											
<b>Young/Seedling/Open</b>	0.1	0.0%	-	-	-	.0	0.0%	0.1	0.0%	0.2	0.1%
<b>Sapling/Pole</b>	0.5	0.2%	n/a	n/a	n/a	0.5	0.2%	0.5	0.2%	0.5	0.2%
<b>Mature</b>	1.4	0.5%	+	m	-	1.5	0.6%	1.5	0.5%	1.5	0.5%
<b>Old/ Old Growth/Multiaged</b>	0	0.0%	m	+	+	.0	0.0%	.0	0.0%	0.0	0.0%
<b>4. Aspen-Birch Forest</b>											
<b>Young/Seedling/Open</b>	12.2	4.6%	+	+	+	13.5	5.0%	10.2	3.6%	13.0	4.6%
<b>Sapling/Pole</b>	44.2	16.5%	n/a	n/a	n/a	48.8	18.2%	51.0	17.9%	50.1	17.6%
<b>Mature</b>	40.3	15.1%	-	-	-	23.4	8.7%	37.3	13.1%	36.9	13.0%
<b>Old/Old Growth/Multiaged</b>	37.3	14.0%	-	-	-	35.2	13.1%	43.1	15.1%	40.4	14.2%

<b>Jack Pine-Black Spruce Landscape Ecosystem (JPB)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>JPB MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup></b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease (m) = maintain</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup></b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN)<sup>4</sup></b>	
	MIH = 267,600 ac		<b>Decade Objective</b>			MIH = 267,600 ac		MIH = 284,500 ac		MIH = 284,500 ac	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
<b>5. Upland conifer Forest</b>											
<b>Young/Seedling/Open</b>	16.9	6.3%	+	+	-	22.7	8.5%	10.3	3.6%	15.7	5.5%
<b>Sapling/Pole</b>	50.3	18.8%	n/a	n/a	n/a	53.4	20.0%	53.2	18.7%	52.7	18.5%
<b>Mature</b>	34.0	12.7%	+	+	+	37.9	14.2%	43.3	15.2%	40.6	14.3%
<b>Old/Old Growth/Multiaged</b>	30.4	11.4%	+	+	+	30.9	11.5%	34.0	12.0%	32.9	11.6%
<b>6. Spruce-fir Forest</b>											
<b>Young/Seedling/Open</b>	5.7	2.1%	-	-	-	.0	0.0%	2.3	0.8%	4.0	1.4%
<b>Sapling/Pole</b>	8.8	3.3%	n/a	n/a	n/a	14.5	5.4%	10.1	3.5%	10.0	3.5%
<b>Mature</b>	12.4	4.6%	-	-	+	9.8	3.7%	16.6	5.9%	15.0	5.3%
<b>Old/ Old GrowthMultiaged</b>	6.7	2.5%	+	+	+	14.4	5.4%	8.6	3.0%	8.4	3.0%
<b>7. Red &amp; White Pine Forest</b>											
<b>Young/Seedling/Open</b>	4.3	1.6%	-	-	+	0.3	0.1%	3.9	1.4%	4.7	1.7%
<b>Sapling/Pole</b>	15.3	5.7%	n/a	n/a	n/a	15.4	5.8%	16.0	5.6%	15.8	5.6%
<b>Mature</b>	12.0	4.5%	+	+	-	14.4	5.4%	15.5	5.4%	15.4	5.4%
<b>Old/ Old Growth/Multiaged</b>	1.5	0.6%	+	+	+	3.0	1.1%	1.9	0.7%	1.7	0.6%
<b>8. Jack Pine Forest</b>											
<b>Young/Seedling/Open</b>	6.8	2.5%	+	+	+	22.5	8.4%	4.0	1.4%	7.0	2.5%
<b>Sapling/Pole</b>	26.1	9.8%	n/a	n/a	n/a	23.5	8.8%	27.1	9.5%	26.9	9.4%
<b>Mature</b>	9.6	3.6%	+	+	+	13.6	5.1%	11.1	3.9%	10.2	3.6%
<b>Old/Old Growth/Multiaged</b>	18.8	7.0%	-	-	-	13.4	5.0%	23.6	8.3%	22.9	8.0%

<b>Dry-Mesic Red &amp; White Pine Landscape Ecosystem (DRW)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>DRW MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup></b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease (m) = maintain</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup></b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN).<sup>4</sup></b>	
	MIH = 183,500 ac		<b>Decade Objective</b>			MIH = 183,500 ac		MIH = 188,900 ac		MIH = 188,900 ac	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
<b>1. Upland Forest</b>											
<b>Young/Seedling/Open</b>	21.4	11.7%	-	-	-	18.4	10.0%	14.4	7.6%	19.3	10.2%
<b>Sapling/Pole</b>	58.6	31.9%	n/a	n/a	n/a	78.1	42.6%	66.2	35.1%	65.0	34.4%
<b>Mature</b>	52.1	28.4%	-	-	-	31.8	17.3%	51.6	27.3%	51.8	27.4%
<b>Old/Old Growth/Multiaged</b>	51.4	28.0%	+	+	+	55.3	30.1%	56.7	30.0%	53.0	28.0%
<b>2. Upland Deciduous Forest</b>											
<b>Young/Seedling/Open</b>	12.0	6.5%	-	+	+	9.0	4.9%	8.7	4.6%	11.0	5.8%
<b>Sapling/Pole</b>	37.2	20.3%	n/a	n/a	n/a	47.3	25.8%	43.2	22.9%	42.3	22.4%
<b>Mature</b>	28.8	15.7%	-	-	-	12.4	6.8%	25.2	13.3%	25.5	13.5%
<b>Old/Old Growth/Multiaged</b>	37.8	20.6%	-	-	-	37.1	20.2%	41.2	21.8%	38.4	20.3%
<b>3. Northern Hardwood Forest</b>											
<b>Young/Seedling/Open</b>	0.1	0.0%	+	+	+	0.2	0.1%	.0	0.0%	.0	0.0%
<b>Sapling/Pole</b>	0.2	0.1%	n/a	n/a	n/a	0.2	0.1%	0.3	0.2%	0.2	0.1%
<b>Mature</b>	1.7	0.9%	-	-	-	1.6	0.9%	2.0	1.1%	2.0	1.1%
<b>Old/Old Growth/Multiaged</b>	.0	0.0%	m	m	+	.0	0.0%	.0	0.0%	.0	0.0%
<b>4. Aspen-Birch Forest</b>											
<b>Young/Seedling/Open</b>	11.9	6.5%	-	+	+	8.8	4.8%	8.7	4.6%	11.0	5.8%
<b>Sapling/Pole</b>	37.0	20.1%	n/a	n/a	n/a	47.1	25.7%	42.9	22.7%	42.0	22.2%
<b>Mature</b>	27.1	14.8%	-	-	-	10.9	5.9%	23.2	12.3%	23.5	12.4%

<b>Dry-Mesic Red &amp; White Pine Landscape Ecosystem (DRW)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>DRW MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup></b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease (m) = maintain</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup></b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN)<sup>4</sup></b>	
	MIH = 183,500 ac		<b>Decade Objective</b>			MIH = 183,500 ac		MIH = 188,900 ac		MIH = 188,900 ac	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
<b>Old/Old Growth/Multiaged</b>	37.8	20.6%	-	-	-	37.1	20.2%	41.2	21.8%	38.4	20.3%
<b>5. Upland conifer Forest</b>											
<b>Young/Seedling/Open</b>	9.5	5.2%	-	-	-	9.4	5.1%	5.6	3.0%	8.3	4.4%
<b>Sapling/Pole</b>	21.4	11.7%	n/a	n/a	n/a	30.8	16.8%	23.0	12.2%	22.7	12.0%
<b>Mature</b>	23.2	12.7%	-	-	+	19.3	10.5%	26.4	14.0%	26.3	13.9%
<b>Old/Old Growth/Multiaged</b>	13.7	7.5%	+	+	+	18.1	9.9%	15.5	8.2%	14.5	7.7%
<b>6. Spruce-fir Forest</b>											
<b>Young/Seedling/Open</b>	3.1	1.7%	-	-	-	0.1	0.0%	0.6	0.3%	1.1	0.6%
<b>Sapling/Pole</b>	3.7	2.0%	n/a	n/a	n/a	9.3	5.1%	4.5	2.4%	4.4	2.3%
<b>Mature</b>	6.1	3.3%	-	-	+	3.7	2.0%	7.5	4.0%	7.6	4.0%
<b>Old/Old Growth/Multiaged</b>	1.7	0.9%	+	+	+	7.3	4.0%	2.4	1.2%	2.2	1.1%
<b>7. Red &amp; White Pine Forest</b>											
<b>Young/Seedling/Open</b>	5.3	2.9%	-	-	-	3.3	1.8%	4.4	2.4%	5.9	3.1%
<b>Sapling/Pole</b>	12.1	6.6%	n/a	n/a	n/a	16.2	8.8%	12.6	6.7%	12.3	6.5%
<b>Mature</b>	16.2	8.8%	-	-	+	13.7	7.5%	17.8	9.4%	17.7	9.4%
<b>Old/Old Growth/Multiaged</b>	3.3	1.8%	+	+	+	6.5	3.5%	4.4	2.4%	4.0	2.1%
<b>8. Jack Pine Forest</b>											
<b>Young/Seedling/Open</b>	1.1	0.6%	+	+	+	6.0	3.3%	0.5	0.3%	1.3	0.7%
<b>Sapling/Pole</b>	5.6	3.1%	n/a	n/a	n/a	5.3	2.9%	5.9	3.1%	6.0	3.2%
<b>Mature</b>	1.0	0.5%	+	+	+	1.9	1.0%	1.2	0.6%	1.0	0.6%
<b>Old/Old Growth/Multiaged</b>	8.7	4.7%	-	-	-	4.3	2.3%	8.7	4.6%	8.4	4.4%

<b>Mesic Red &amp; White Pine Landscape Ecosystem (MRW)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>MRW MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup>.</b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease (m) = maintain</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup>.</b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN).<sup>4</sup></b>	
	MIH = 127,800 ac		<b>Decade Objective</b>			MIH = 127,800 ac		MIH = 133,700 ac		MIH = 133,700 ac	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
<b>1. Upland Forest</b>											
<b>Young/Seedling/Open</b>	22.2	17.3%	-	-	-	13.0	10.1%	12.2	9.1%	15.7	11.7%
<b>Sapling/Pole</b>	36.4	28.5%	n/a	n/a	n/a	56.1	43.9%	42.5	31.8%	40.5	30.3%
<b>Mature</b>	42.1	32.9%	-	-	-	25.0	19.6%	45.5	34.0%	45.9	34.4%
<b>Old/Old Growth/Multiaged</b>	27.3	21.3%	+	+	+	33.9	26.5%	33.5	25.1%	31.6	24.7%
<b>2. Upland Deciduous Forest</b>											
<b>Young/Seedling/Open</b>	11.6	9.0%	-	-	-	8.2	6.4%	8.4	6.3%	10.9	8.2%
<b>Sapling/Pole</b>	23.3	18.3%	n/a	n/a	n/a	33.7	26.4%	28.9	21.6%	26.8	20.0%
<b>Mature</b>	30.7	24.0%	-	-	-	27.9	20.9%	28.6	21.4%	15.0	11.7%
<b>Old/Old Growth/Multiaged</b>	23.0	18.0%	+	+	-	25.7	20.1%	27.5	20.6%	26.0	19.4%
<b>3. Northern Hardwood Forest</b>											
<b>Young/Seedling/Open</b>	.0	0.0%	m	m	m	0.1	0.0%	.0	0.0%	0.1	0.1%
<b>Sapling/Pole</b>	0.1	0.1%	n/a	n/a	n/a	0.2	0.1%	.3	0.2%	0.3	0.2%
<b>Mature</b>	1.9	1.5%	-	-	-	1.8	1.4%	2.2	1.7%	2.2	1.7%
<b>Old/Old Growth/Multiaged</b>	1.0	0.8%	+	+	+	1.1	0.9%	1.0	0.8%	1.0	0.8%
<b>4. Aspen-Birch Forest</b>											
<b>Young/Seedling/Open</b>	11.5	9.0%	-	-	-	8.1	6.3%	8.3	6.2%	10.8	8.1%
<b>Sapling/Pole</b>	23.2	18.2%	n/a	n/a	n/a	33.6	26.3%	28.6	21.4%	26.5	19.8%
<b>Mature</b>	28.7	22.5%	-	-	-	13.1	10.3%	25.6	19.2%	26.3	19.7%
<b>Old/Old Growth/Multiaged</b>	21.9	17.2%	+	+	-	24.6	19.2%	26.5	19.8%	25.0	18.7%

<b>Mesic Red &amp; White Pine Landscape Ecosystem (MRW)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>MRW MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup></b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease (m) = maintain</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup></b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN)<sup>4</sup></b>	
	MIH = 127,800 ac		<b>Decade Objective</b>			MIH = 127,800 ac		MIH = 133,700 ac		MIH = 133,700 ac	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
<b>5. Upland conifer Forest</b>											
<b>Young/Seedling/Open</b>	10.6	8.3%	-	-	-	4.8	3.8%	3.8	2.9%	4.8	3.6%
<b>Sapling/Pole</b>	13.1	10.3%	n/a	n/a	n/a	22.3	17.5%	13.6	10.2%	13.8	10.3%
<b>Mature</b>	11.4	8.9%	-	-	+	10.0	7.8%	17.6	13.2%	17.4	13.0%
<b>Old/Old Growth/Multiaged</b>	4.3	3.4%	+	+	+	8.3	6.5%	6.0	4.5%	5.6	4.2%
<b>6. Spruce-fir Forest</b>											
<b>Young/Seedling/Open</b>	7.5	5.9%	-	-	-	.0	0.0%	0.6	0.4%	0.8	0.6%
<b>Sapling/Pole</b>	5.4	4.2%	n/a	n/a	n/a	13.1	10.3%	6.5	4.8%	6.4	4.8%
<b>Mature</b>	6.2	4.8%	-	-	+	4.4	3.4%	11.3	8.4%	11.5	8.6%
<b>Old/Old Growth/Multiaged</b>	1.3	1.0%	+	+	+	5.7	4.4%	2.8	2.1%	2.5	1.8%
<b>7. Red &amp; White Pine Forest</b>											
<b>Young/Seedling/Open</b>	2.1	1.7%	-	-	-	2.4	1.9%	2.4	1.8%	3.1	2.3%
<b>Sapling/Pole</b>	5.3	4.1%	n/a	n/a	n/a	6.4	5.0%	4.9	3.7%	4.8	3.6%
<b>Mature</b>	4.3	3.4%	+	+	+	4.5	3.5%	5.1	3.8%	4.9	3.7%
<b>Old/Old Growth/Multiaged</b>	0.8	0.6%	+	+	+	1.5	1.2%	0.9	0.7%	0.9	0.7%
<b>8. Jack Pine Forest</b>											
<b>Young/Seedling/Open</b>	1.0	0.8%	m	m	-	2.4	1.9%	0.8	0.6%	0.9	0.7%
<b>Sapling/Pole</b>	2.4	1.9%	n/a	n/a	n/a	2.8	2.2%	2.3	1.7%	2.5	1.8%
<b>Mature</b>	0.9	0.7%	-	+	+	1.1	0.9%	1.2	0.9%	0.9	0.7%
<b>Old/Old Growth/Multiaged</b>	2.2	1.7%	-	-	-	1.1	0.8%	2.3	1.7%	2.2	1.6%



<b>Mesic Birch/Aspen/Spruce-Fir Landscape Ecosystem (MBA)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>MBA MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup></b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup></b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN).<sup>4</sup></b>	
	MIH = 281,300 ac		<b>Decade Objective</b>			MIH = 281,300 ac		MIH = 291,700 ac		MIH = 291,700 ac	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
<b>1. Upland Forest</b>											
<b>Young/Seedling/Open</b>	41.7	14.8%	-	-	-	28.3	10.1%	16.6	5.7%	22.2	7.6%
<b>Sapling/Pole</b>	90.0	32.0%	n/a	n/a	n/a	124.8	44.4%	103.9	35.6%	100.0	34.3%
<b>Mature</b>	93.4	33.2%	-	-	-	56.0	19.9%	102.3	35.1%	104.4	35.8%
<b>Old/Old Growth/Multiaged</b>	54.4	19.3%	+	+	+	72.8	25.9%	68.9	23.6%	65.2	22.3%
<b>2. Upland Deciduous Forest</b>											
<b>Young/Seedling/Open</b>	20.2	7.2%	+	+	-	22.1	7.9%	11.0	3.8%	15.3	5.2%
<b>Sapling/Pole</b>	44.4	15.8%	n/a	n/a	n/a	59.6	21.2%	56.1	19.2%	52.5	18.0%
<b>Mature</b>	69.6	24.7%	-	-	-	35.9	12.8%	64.3	22.1%	66.5	22.8%
<b>Old/Old Growth/Multiaged</b>	46.9	16.7%	+	+	-	57.5	20.4%	54.3	18.6%	51.0	17.5%
<b>3. Northern Hardwood Forest</b>											
<b>Young/Seedling/Open</b>	0.2	0.1%	+	+	+	0.5	0.2%	0.3	0.1%	0.3	0.1%
<b>Sapling/Pole</b>	1.0	0.3%	n/a	n/a	n/a	1.1	0.4%	1.2	0.4%	1.2	0.4%
<b>Mature</b>	9.5	3.4%	-	-	-	7.4	2.6%	9.0	3.1%	9.2	3.1%
<b>Old/Old Growth/Multiaged</b>	2.0	0.7%	+	+	+	3.6	1.3%	2.5	0.8%	2.2	0.8%
<b>4. Aspen-Birch Forest</b>											
<b>Young/Seedling/Open</b>	20.0	7.1%	+	+	-	21.6	7.7%	10.7	3.7%	15.0	5.1%
<b>Sapling/Pole</b>	43.4	15.4%	n/a	n/a	n/a	58.4	20.8%	54.9	18.8%	51.4	17.6%
<b>Mature</b>	60.1	21.4%	-	-	-	28.5	10.1%	55.3	19.0%	57.3	19.6%
<b>Old/Old Growth/Multiaged</b>	44.9	15.9%	+	+	-	53.9	19.2%	51.9	17.8%	48.7	16.7%

<b>Mesic Birch/Aspen/Spruce-Fir Landscape Ecosystem (MBA)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>MBA MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup></b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup></b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN)<sup>4</sup></b>	
	MIH = 281,300 ac		<b>Decade Objective</b>			MIH = 281,300 ac		MIH = 291,700 ac		MIH = 291,700 ac	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
<b>5. Upland conifer Forest</b>											
<b>Young/Seedling/Open</b>	21.5	7.7%	-	-	-	6.2	2.2%	5.6	1.9%	6.9	2.3%
<b>Sapling/Pole</b>	45.6	16.2%	n/a	n/a	n/a	65.2	23.2%	47.9	16.4%	47.4	16.3%
<b>Mature</b>	23.8	8.5%	-	+	+	20.1	7.1%	38.0	13.0%	37.9	13.0%
<b>Old/Old Growth/Multiaged</b>	9.9	3.5%	+	+	+	15.4	5.5%	14.6	5.0%	14.2	4.9%
<b>6. Spruce-fir Forest</b>											
<b>Young/Seedling/Open</b>	18.2	6.5%	-	-	-	0.5	0.2%	1.2	0.4%	1.8	0.6%
<b>Sapling/Pole</b>	28.5	10.1%	n/a	n/a	n/a	47.2	16.8%	29.6	10.2%	29.2	10.0%
<b>Mature</b>	18.4	6.5%	-	-	+	13.2	4.7%	32.0	11.0%	32.1	11.0%
<b>Old/Old Growth/Multiaged</b>	6.4	2.3%	+	+	+	12.5	4.5%	10.6	3.6%	10.2	3.5%
<b>7. Red &amp; White Pine Forest</b>											
<b>Young/Seedling/Open</b>	2.8	1.0%	-	-	+	2.6	0.9%	4.0	1.4%	4.7	1.6%
<b>Sapling/Pole</b>	12.5	4.4%	n/a	n/a	n/a	13.3	4.7%	13.0	4.5%	12.9	4.4%
<b>Mature</b>	4.3	1.5%	+	+	+	5.9	2.1%	4.8	1.6%	4.6	1.6%
<b>Old/Old Growth/Multiaged</b>	0.4	0.2%	+	+	+	0.9	0.3%	0.6	0.2%	0.6	0.2%
<b>8. Jack Pine Forest</b>											
<b>Young/Seedling/Open</b>	0.5	0.2%	+	+	+	3.1	1.1%	0.4	0.1%	0.4	0.1%
<b>Sapling/Pole</b>	4.6	1.6%	n/a	n/a	n/a	4.8	1.7%	5.3	1.8%	5.3	1.8%
<b>Mature</b>	1.2	0.4%	-	+	+	1.0	0.3%	1.2	0.4%	1.1	0.4%
<b>Old/Old Growth/Multiaged</b>	3.1	1.1%	-	-	-	2.0	0.7%	3.5	1.2%	3.5	1.2%

<b>Sugar Maple Landscape Ecosystem (SMA)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>SMA MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup></b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease (m) = maintain</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup></b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN).<sup>4</sup></b>	
	MIH = 51,000 ac		<b>Decade Objective</b>			MIH = 51,000 ac		MIH = 52,300 ac		MIH = 52,300 ac	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
<b>1. Upland Forest</b>											
<b>Young/Seedling/Open</b>	3.9	7.7%	-	-	-	2.1	4.1%	1.7	3.3%	1.7	3.3%
<b>Sapling/Pole</b>	14.1	27.7%	n/a	n/a	n/a	17.2	33.8%	14.4	27.5%	14.4	27.5%
<b>Mature</b>	23.9	46.8%	-	-	-	16.4	32.2%	24.0	45.8%	24.6	47.0%
<b>Old/Old Growth/Multiaged</b>	9.1	17.9%	+	+	+	15.3	30.1%	12.2	23.4%	11.6	22.2%
<b>2. Upland Deciduous Forest</b>											
<b>Young/Seedling/Open</b>	2.0	3.9%	-	-	-	1.5	2.9%	1.0	1.9%	1.0	2.0%
<b>Sapling/Pole</b>	8.4	16.4%	n/a	n/a	n/a	10.0	19.7%	8.7	16.6%	8.7	16.6%
<b>Mature</b>	22.0	43.2%	-	-	-	14.6	28.7%	21.4	40.9%	22.0	42.1%
<b>Old/Old Growth/Multiaged</b>	8.4	16.5%	+	+	+	13.9	27.3%	11.0	21.0%	10.3	19.8%
<b>3. Northern Hardwood Forest</b>											
<b>Young/Seedling/Open</b>	0.1	0.2%	-	-	-	.0	0.0%	.0	0.1%	.0	0.1%
<b>Sapling/Pole</b>	0.7	1.3%	n/a	n/a	n/a	.7	1.4%	0.5	1.0%	0.5	1.0%
<b>Mature</b>	14.9	29.3%	-	-	-	12.7	24.9%	15.9	30.3%	16.0	30.6%
<b>Old/Old Growth/Multiaged</b>	2.7	5.2%	+	+	+	5.2	10.3%	3.3	6.2%	3.1	6.0%
<b>4. Aspen-Birch Forest</b>											
<b>Young/Seedling/Open</b>	1.9	3.7%	-	-	-	1.5	2.9%	1.0	1.9%	1.0	1.9%
<b>Sapling/Pole</b>	7.7	15.1%	n/a	n/a	n/a	9.3	18.3%	8.1	15.6%	8.1	15.6%
<b>Mature</b>	7.1	13.9%	-	-	-	1.9	3.7%	5.5	10.6%	6.0	11.5%
<b>Old/Old Growth/Multiaged</b>	5.8	11.3%	+	+	-	8.7	17.1%	7.7	14.7%	7.2	13.8%

<b>Sugar Maple Landscape Ecosystem (SMA)</b>											
<b>MANAGEMENT DIRECTION &amp; ACHIEVEMENT OF FOREST PLAN DIRECTION</b>											
<b>SMA MIHs</b>	<b>FEIS Existing Condition 2004<sup>1</sup></b>		<b>FP Objectives: Change from 2004 Condition (+) = increase (-) = decrease (m) = maintain</b>			<b>DECADE 1<sup>2</sup>: FEIS Projected Condition</b>		<b>Forest-wide Existing Condition in 2005<sup>3</sup></b>		<b>2005 Forest-wide Condition + Vegetation Mgt NEPA Decisions (DN)<sup>4</sup></b>	
	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>1</b>	<b>2</b>	<b>10</b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>	<b>Acres<sup>5</sup> (1000s)</b>	<b>%<sup>5</sup></b>
	MIH = 51,000 ac		<b>Decade Objective</b>			MIH = 51,000 ac		MIH = 52,300 ac		MIH = 52,300 ac	
<b>5. Upland conifer Forest</b>											
Young/Seedling/Open	2.0	3.9%	-	-	-	0.6	1.2%	0.7	1.3%	0.7	1.3%
Sapling/Pole	5.7	11.2%	n/a	n/a	n/a	7.2	14.1%	5.7	10.9%	5.7	10.9%
Mature	1.8	3.6%	m	+	+	1.8	3.5%	2.6	4.9%	2.6	4.9%
Old/Old Growth/Multiaged	0.7	1.4%	+	+	+	1.4	2.8%	1.3	2.4%	1.2	2.4%
<b>6. Spruce-fir Forest</b>											
Young/Seedling/Open	1.7	3.3%	-	-	-	.0	0.1%	0.1	0.3%	0.1	0.3%
Sapling/Pole	3.5	6.8%	n/a	n/a	n/a	5.0	9.8%	3.5	6.7%	3.5	6.7%
Mature	1.6	3.1%	-	-	-	1.2	2.4%	2.3	4.4%	2.3	4.4%
Old/Old Growth/Multiaged	1.4	2.7%	+	+	+	1.4	2.7%	1.2	2.3%	1.2	2.3%
<b>7. Red &amp; White Pine Forest</b>											
Young/Seedling/Open	0.3	0.5%	+	-	-	0.6	1.1%	0.5	1.0%	0.5	1.0%
Sapling/Pole	2.1	4.2%	n/a	n/a	n/a	2.2	4.3%	2.2	4.2%	2.2	4.2%
Mature	0.3	0.5%	+	-	-	0.5	0.9%	0.3	0.5%	0.3	0.5%
Old/Old Growth/Multiaged	.0	0.1%	m	+	+	.0	0.1%	.0	0.1%	.0	0.1%
<b>8. Jack Pine Forest</b>											
Young/Seedling/Open	.0	0.0%	m	m	m	.0	0.0%	.0	0.0%	.0	0.0%
Sapling/Pole	0.1	0.2%	n/a	n/a	n/a	.0	0.0%	.0	0.0%	.0	0.0%
Mature	.0	0.0%	+	+	m	0.1	0.2%	.0	0.0%	.0	0.0%
Old/Old Growth/Multiaged	.0	0.0%	m	m	m	.0	0.0%	.0	0.0%	.0	0.0%