

APPENDIX C. MANAGEMENT INDICATOR HABITATS

This appendix provides more detailed description of Management Indicator Habitats (MIH).

Table APP-C1 describes MIHs in terms of forest types.

| APP-C1. Management Indicator Habitats: forest types. | | |
|---|--|--|
| # | Management Indicator Habitat | Description and Forest types (Code in Forest Service Data Base) |
| 1 | Upland forest | All upland forest types: jack pine (01), red pine (02), white pine (03), balsam fir-aspen-birch (11), spruce-fir (16), black spruce-jack pine (17), northern hardwoods, including oak and maple (50s, 80s), aspen (91), paper birch (92), bigtooth aspen (93), balsam poplar (94), 95 (aspen-spruce-fir) |
| 2 | Upland deciduous forest | All upland deciduous and deciduous-dominated mixed forest types: (50s, 80s, 91, 92, 93, 94, 95) |
| 3 | Northern hardwood and oak forest | All northern hardwood and oak forest types: (50s, 80s) |
| 4 | Aspen-birch and mixed aspen-conifer forest | All aspen, birch, and aspen-dominated aspen-birch-conifer mixed forest types: (91, 92, 93, 94, 95) |
| 5 | Upland conifer forest | All upland conifer and conifer-dominated mixed forest types: (01, 02, 03, 11,16, 17) |
| 6 | Upland spruce-fir forest | All spruce-fir and spruce-fir-dominated mixed forest types: (11,16, 17) |
| 7 | Red and white pine forest | Both red and white pine forest types: (02, 03) |
| 8 | Jack pine forest | Jack pine forest type: (01) |
| 9 | Lowland black spruce-tamarack forest | All lowland conifer and lowland mixed conifer types dominated by black spruce or tamarack: (12, 15, 18) |
| 10 | Upland mature riparian forest | All upland mature or old forest types in Riparian areas; inner zone 0-100 feet and outer zone 100-200 feet: (01, 02, 03, 11,16, 17, 50s, 80s, 91, 92, 93, 94, 95) |
| 11 | Management-induced Edge Density Upland forest & Lowland forest | Edge density (miles/sq mile) of young upland (management indicator habitat 1) or lowland forest (management indicator habitat 9). This indicator does not include or measure inherent edge such as edges between forested lands and lakes, streams, non-forested lands. |
| 12 | Upland Interior forest habitat | Acres of forest interior in all mature and older upland forest patches of any size (see management indicator habitat 1 for forest types in upland forest). All forest patches were buffered inwardly with 100 meter buffer. |
| 13 | Large patches of upland mature/old forest | Large (>300 acres) upland mature/old forest patches acres. (See management indicator habitat 1 for forest types in upland forest). |
| 14 | Aquatic habitats | These represent the wide variety of lakes, rivers, streams, pond, marshes or pools (permanent, intermittent, or seasonal) that provide habitat to wildlife. |

Management indicator habitats are based on groupings of forest types in different age groupings. The age groupings are surrogates for ecological successional or vegetative growth stages. Because of the ecology of the different forest types, age grouping depends on forest type and was selected to best typify vegetative growth stages.

Table APP-C1 shows how each forest type is grouped.

| Table APP-C2. Management Indicator Habitats: Age groupings for forest types. | | | | | |
|---|----------------------------------|--------------------------|------------------------|---------------------------|----------------------------------|
| Forest Types and (codes) | Young (Seedling-open) | Sapling/ pole | Mature/ Old | Old/Old Growth | Old Growth Multi-aged |
| Jack pine (01) | 0-9 | 10-39 | 40-59 | 60-79 | 80+ |
| Red pine (02) | 0-9 | 10-49 | 50-119 | 120-149 | 150+ |
| White pine (03) | 0-9 | 10-49 | 50-119 | 120-149 | 150+ |
| Lowland black spruce-tamarack dominated conifers (12, 15, 18) | 0-19 | 20-59 | 60-119 | 120-149 | 150+ |
| White cedar (14, 19) | 0-19 | 20-59 | 60-119 | 120-149 | 150+ |
| Spruce/fir (11, 16, 17) | 0-9 | 10-49 | 50-89 | 90-149 | 150+ |
| Upland northern hardwoods (50s & 80s Sup) | 0-9 | 10-59 | 60-119 | 120-149 | 150+ |
| Upland northern hardwoods (80s Chip) | 0-9 | 10-59 | 60-119 | 120-149 | 150+ |
| Oak (50s Chip) | 0-9 | 10-59 | 60-99 | 100-149 | 150+ |
| Lowland northern hardwoods (70s) | 0-19 | 20-59 | 60-119 | 120-149 | 150+ |
| Aspen-birch and aspen-birch-conifer (91,92,93,94, 95) | 0-9 | 10-49 | 50-79 | 80+ | 80+ |