

Appendix D: Minnesota GAP Level 4 Land Cover Class Descriptions

http://jmaps.dnr.state.mn.us/gis/ancillary/type_description6.htm

Non-Forest Classes

<i>Code</i>	<i>Type</i>	<i>Description</i>
1	Mixed Developed	Industrial, commercial and/or residential land use, >50% impervious surface. Generally nonurban.
2	High Intensity Urban	Chiefly industrial and commercial land use, >50% impervious surface.
3	Low Intensity Urban	Chiefly commercial and residential land use, < 50% impervious surface.
4	Transportation	Roads of all classes.
5	Barren	Sparsely vegetated (<33% vegetation, <10% tree crown cover) exposures of soil, sand or rock.
6	Cropland	Land under cultivation.
7	Grassland	Non-cultivated herbaceous upland vegetation dominated by grasses and forbs.
8	Prairie	Non-cultivated herbaceous upland vegetation dominated by native grasses and forbs.
9	Upland Shrub	Uplands with < 10% tree crown cover and >33% cover of low-growing deciduous woody plants. Includes much upland deciduous forest regeneration.
10	Lowland Deciduous Shrub	Lowlands with < 10% tree crown cover and >33% cover of low-growing deciduous woody plants such as alders and willows.
11	Lowland Evergreen Shrub	Lowlands with < 10% tree crown cover and >33% cover of low-growing nondeciduous woody plants such as leatherleaf and labrador-tea.
12	Water	Lakes, streams and open-water wetlands.
13	Floating Aquatic	Water bodies whose surface is covered by floating vegetation.
14	Sedge Meadow	Wetlands with <10% tree crown cover, dominated by emergent herbaceous vegetation such as fine-leaf sedges.
15	Broadleaf Sedge/Cattail	Wetlands with <10% crown cover, dominated by emergent herbaceous vegetation such as broadleaf sedges and/or cattails.

Upland Conifer Forest Classes (upland sites, > 10% tree cover, >33% of canopy conifer, <33% deciduous)

<i>Code</i>	<i>Type</i>	<i>Description</i>
16	Jack Pine	Jack pine predominates over other conifers.
17	Red/ White Pine	Mix of red and white pine predominates over other conifers.
18	Red Pine	Red pine predominates over other conifers.
19	White Pine mix	Type of special interest: white pine predominates over other conifers, but deciduous component may exceed 33%.
20	Balsam Fir mix	Type of special interest: balsam fir predominates over other conifers, but deciduous component may exceed 33%.
21	White Spruce	White spruce predominates over other conifers.
22	Upland Black Spruce	Black spruce (more usually a lowland species) predominates over other conifers; jack pine may also be present at significant levels.
23	Upland Northern white-cedar	Northern white-cedar predominates over other conifers.
24	Redcedar	Eastern redcedar predominates over other conifers.
25	Upland Conifer	Upland conifer type with no single conifer species predominant.

Lowland Conifer Forest Classes (lowland sites, > 10% tree cover, >33% of canopy conifer, <33% deciduous)

<i>Code</i>	<i>Type</i>	<i>Description</i>
26	Lowland Black Spruce	Black spruce predominates over other conifers.
27	Stagnant Black Spruce	Black spruce predominates over other conifers; site characterized by stunted trees, lowland shrubs, sedges and sphagnum mosses.
28	Tamarack	Tamarack predominates over other conifers.
29	Stagnant Tamarack	Tamarack predominates over other conifers; site characterized by stunted trees, lowland shrubs, sedges and sphagnum mosses.
30	Lowland Northern white-cedar	Northern white-cedar predominates over other conifers.
31	Stagnant Northern white-cedar	Northern white-cedar predominates over other conifers; site characterized by stunted trees, lowland shrubs, sedges and sphagnum mosses.
32	Stagnant Conifer	No single lowland conifer species predominant: site

		characterized by stunted trees, lowland shrubs, sedges and sphagnum mosses.
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Upland Deciduous Forest Classes (upland sites, > 10% tree cover, >33% of canopy deciduous, <33% conifer)

<i>Code</i>	<i>Type</i>	<i>Description</i>
33	Aspen/ White Birch	Aspen, paper birch or balsam poplar predominate among deciduous trees.
34	White/ Red Oak	A mixture of oak species predominates among deciduous trees.
35	Bur/ White Oak	Bur and white oak predominate among deciduous trees.
36	Red Oak	Red oak predominates among deciduous trees.
37	Northern Pin Oak	Northern pin oak predominates among deciduous trees.
38	Maple/ Basswood	Maples and/or basswood predominate among deciduous trees.
39	Upland Deciduous	No single upland deciduous species predominant.

Lowland Deciduous Forest Classes (lowland sites, > 10% tree cover, >33% of canopy deciduous, <33% conifer)

<i>Code</i>	<i>Type</i>	<i>Description</i>
40	Black Ash	Black ash predominates among deciduous trees.
41	Silver Maple	Silver maple predominates among deciduous trees.
42	Cottonwood	Cottonwood predominates among deciduous trees.
43	Lowland Deciduous	No single lowland deciduous species predominant.

Mixed Forest Classes (> 10% tree cover, >33% of canopy deciduous, >33% conifer)

<i>Code</i>	<i>Type</i>	<i>Description</i>
44	Upland Conifer- Deciduous mix	Mixed upland conifers (pines, white spruce, balsam fir) predominate in conifer component. On upland sites.
45	Jack Pine- Deciduous mix	Jack pine predominates in conifer component.
46	Red/White Pine- Deciduous mix	Red and/or white pine predominate in conifer component.
47	Spruce/Fir- Deciduous mix	Upland spruce or balsam fir predominate in conifer component.
48	Redcedar- Deciduous mix	Eastern redcedar predominates in conifer component.
49	Lowland Conifer- Deciduous mix	Lowland conifers (black spruce, tamarack, white-cedar) predominate in conifer component. On lowland sites.