

Inventory Cover Types, Tree Size, and Density

A – Aspen	0 – Unstocked
B – Paper Birch	1 – Seedlings/Saplings – Poorly Stocked
C – Cedar	2 – Seedlings/Saplings – Moderately Stocked
E – Lowland Hardwoods	3 – Seedlings/Saplings – Well Stocked
D – Treed Bog	
F – White Spruce/Fir	4 – Poletimber – Poorly Stocked
G – Grass	5 – Poletimber – Moderately Stocked
H – Hemlock	6 – Poletimber – Well Stocked
I – Local Use (various non-commercial or exotic)	
J – Jack Pine	7 – Sawtimber – Poorly Stocked
K - Rock	8 – Sawtimber – Moderately Stocked
L – Lowland Brush	9 – Sawtimber – Well Stocked
M – Northern Hardwoods	
N - Marsh	
O – Oak	
P – Lowland Poplar (Bam)	
Q – Mixed Lowland Conifers	
R – Red Pine	
S – Black Spruce	
T – Tamarack	
U – Upland Brush	
V – Bog or Muskeg	
W – White Pine	
X – Non-Stocked	
Y – Sand Dunes	
Z – Water	
LM - Lowland Mixed	
MC – Upland Mixed Conifers	
MD – Mixed Deciduous	
UM – Upland Mixed	

Example *(with IFMAP numeric code from below)*

M4111-6: A well-stocked pole-sized stand of Sugar Maple/Hard Mast Association (northern hardwoods).

IFMAP Classification List

1 Urban
<p>11 Low Intensity Urban</p>
<p>12 High Intensity Urban</p> <p>121 Airport</p> <p>122 Roads/Parking Lot</p> <p>123 Other High Intensity Urban</p>
2 Agricultural
<p>21 Herbaceous Agriculture</p> <p>211 Cropland</p> <p style="padding-left: 20px;">2111 Non-vegetated Farmland</p> <p style="padding-left: 20px;">2112 Row Crop</p> <p style="padding-left: 20px;">2113 Forage Crop</p> <p style="padding-left: 20px;">2114 Other Cropland</p> <p>212 Non-tilled Herbaceous Agriculture</p>
<p>22 Non Herbaceous Agriculture</p> <p>221 Christmas tree plantation</p> <p>222 Orchard/Vineyard/Nursery</p>
3 Upland Openland
<p>310 Herbaceous Openland</p> <p style="padding-left: 20px;">3101 Poverty Grass, Cladonia</p> <p style="padding-left: 20px;">3102 Grass</p> <p style="padding-left: 40px;">31021 Cool Season Grass</p> <p style="padding-left: 40px;">31022 Warm Season Grass</p> <p style="padding-left: 20px;">3103 Rubus, Fern</p> <p style="padding-left: 20px;">3104 Degraded</p> <p style="padding-left: 20px;">3105 Mixed Upland Herbaceous</p>
<p>320 Upland Shrub</p> <p style="padding-left: 20px;">3201 Sweet Fern</p> <p style="padding-left: 20px;">3202 Autumn Olive/Honeysuckle</p> <p style="padding-left: 20px;">3203 Upland Blueberry</p> <p style="padding-left: 20px;">3204 Mast Producing Shrub</p> <p style="padding-left: 20px;">3205 Mixed Upland Shrub</p>
<p>330 Low Density Trees</p> <p style="padding-left: 20px;">3301 Low Density Deciduous Trees</p> <p style="padding-left: 20px;">3302 Low Density Conifer Trees</p> <p style="padding-left: 20px;">3303 Mixed Low Density Trees</p> <p>350 Parks/Golf Courses</p>

4 Upland Forest

41 Upland Deciduous Forest

411 Northern Hardwood

- 4110 Sugar Maple Association
- 4111 Sugar Maple, Hard Mast Association
- 4112 Maple Association
- 4113 Red Maple, Conifer
- 4114 Beech, Hemlock
- 4115 Yellow Birch, Hemlock
- 4116 Mixed Northern Hardwood – Aspen
- 4117 Mixed Northern Hardwood - Pine
- 4119 Mixed Northern Hardwoods

412 Oak

- 4120 Oak, Hickory
- 4121 Oak, Aspen
- 4122 Oak, Pine
- 4123 Red Oak
- 4124 Red with White Oak
- 4125 Black, Northern Pin Oak
- 4126 White, Black, Northern Pin Oak
- 4129 Mixed Oak

413 Aspen

- 4130 Aspen
- 4131 Aspen, Oak
- 4132 Aspen, Jack Pine
- 4133 Aspen, Mixed Pine
- 4134 Aspen, Spruce/Fir
- 4135 Aspen, Cedar
- 4136 Aspen, Mixed Conifer
- 4137 Aspen, Birch
- 4139 Aspen, Mixed Deciduous

414 Other Upland Deciduous

- 4140 Paper Birch

419 Mixed Upland Deciduous

- 4190 Mixed Upland Deciduous with Cedar
- 4191 Mixed Upland Deciduous with Conifer
- 4192 Mixed Southern Upland Deciduous
- 4193 Birch, Aspen
- 4199 Other Mixed Upland Deciduous

42 Upland Coniferous Forest

421 Planted Pines

4210 Planted White Pine types

42100 Planted White Pine

42101 Planted White Pine, Mixed Deciduous

4211 Planted Red Pine types

42110 Planted Red Pine

42111 Planted Red Pine, Mixed Deciduous

4212 Planted Jack Pine

42120 Planted Jack Pine

42121 Planted Jack Pine, Mixed Deciduous

4213 Planted Scotch Pine types

42130 Planted Scotch Pine

4214 Planted Mixed Pine types

42140 Planted Mixed Pine

42141 Planted Mixed Pine, Mixed Deciduous

422 Natural Pines

4220 Natural White Pine types

42200 Natural White Pine

42201 Natural White Pine, Mixed Deciduous

4221 Natural Red Pine Types

42210 Natural Red Pine

42211 Natural Red Pine, Mixed Deciduous

4222 Natural Jack Pine types

42220 Natural Jack Pine

42221 Natural Jack Pine, Mixed Deciduous

4226 Natural Mixed Pine Types

42290 Natural Mixed Pine

42250 Natural Pine, Oak

42260 Natural Mixed Pine, Mixed Deciduous

423 Other (Non-Pine) Upland Conifers

Planted Upland Conifers

42300 Planted Larch

42301 Planted Larch, Mixed Deciduous

42310 Planted Spruce

42311 Planted Spruce, Mixed Deciduous

Non-planted Upland Conifers

42320 Upland Spruce

42330 Upland Fir

42340 Upland Spruce/Fir

42350 Upland Hemlock

42360 Upland Cedar

42370 Upland Cedar, Aspen

42380 Non-Pine Upland Conifer, Mxd Deciduous

42390 Mixed Non-Pine Upland Conifers

429 Mixed Upland Conifers

43 Upland Mixed Forest

4310 Pine, Oak Mix

4311 Pine, Aspen Mix

4312 Hemlock, Mixed Deciduous

4319 Mixed Upland Forest

5 Water

50 Water

6 Wetlands

61 Lowland Forest

611 Lowland Deciduous Forest

6110 Cottonwood

6111 Lowland Balsam Poplar

6112 Lowland Aspen

6113 Lowland Maple

6114 Lowland Oak

6115 Lowland Ash

6116 Lowland Birch

6117 Lowland Deciduous, Mixed Coniferous

6118 Lowland Deciduous with Cedar

6119 Mixed Lowland Deciduous Forest

612 Lowland Coniferous Forest

6120 Lowland Cedar

6121 Tamarack

6122 Black Spruce

6123 Lowland Fir

6124 Lowland Spruce-Fir

6125 Lowland Black Spruce, Jack Pine

6126 Lowland Jack Pine

6127 Lowland Pine

6128 Lowland Coniferous, Mixed Deciduous

- 6129 Mixed Coniferous Lowland Forest
- 613 Lowland Mixed Forest
 - 6130 Fir, Aspen, Maple
 - 6131 Hemlock, White Pine, Maple, Birch
 - 6132 Mixed Lowland Forest with Cedar
 - 6139 Mixed Lowland Forest

62 Nonforested Wetlands

- 621 Floating Aquatic
- 622 Lowland Shrub
 - 6220 Alder/Willow
 - 6221 Fen
 - 6222 Shrub-Carr
 - 6223 Inundated Shrub Swamp
 - 6224 Treed Bog
 - 6225 Bog
 - 6229 Mixed Lowland Shrub
- 623 Emergent Wetland
 - 6230 Cattail
 - 6231 Phragmites
 - 6232 Wet Prairie
 - 6233 Wet Meadow
 - 6239 Mixed Emergent Wetland
- 629 Mixed Non-forest Wetland

7 Bare/Sparsely Vegetated

- 710 Sand, Soil
- 720 Exposed Rock
- 730 Mud Flats
- 790 Other Bare/Sparsely Vegetated

IFMAP Classification Rules

<p>IF GREATER THAN 10% of the land area is covered with man-made structures including parking lots and paved or gravel roads THEN</p> <p>Urban (1)</p> <p>IF URBAN and GREATER THAN >25% of the land area is solid impervious cover from man-made materials THEN</p> <p>High Intensity Urban (12)</p> <p>IF High Intensity Urban within airport grounds including runways THEN</p> <p>Airport (121)</p> <p>IF High Intensity Urban, NOT Airport, but IS road or parking lot THEN</p> <p>Road/Parking Lot (122)</p> <p>ELSE (is High Intensity Urban but not above)</p> <p>Other High Intensity Urban (123)</p> <p>ELSE (i.e. URBAN and LESS THAN 25% is solid impervious cover)</p> <p>Low Intensity Urban (11)</p>
<p>ELSE IF land area has > 75% open water THEN</p> <p>Water (5)</p> <p>Water (50)</p>
<p>ELSE IF the vegetation is intensively managed for vegetation production excluding forestry THEN</p> <p>Agriculture (2)</p> <p>IF AGRICULTURE and LESS THAN 25% of the vegetation is woody THEN</p> <p>Herbaceous Agriculture (21)</p> <p>IF Herbaceous Agriculture is tilled for crop production THEN</p> <p>Cropland (211)</p> <p>IF Cropland and LESS THAN 25% of land area is vegetated THEN</p> <p>Non-vegetated Farmland (2111)</p> <p>IF Cropland and GREATER THAN 25% vegetated, and vegetation is annual crops planted in rows (e.g. corn, soybeans, etc) THEN</p> <p>Row Crops (2112)</p> <p>IF Cropland, not above, and vegetation is used for fodder production, alfalfa and hay, THEN</p> <p>Forage Crops (2113)</p> <p>ELSE Other Cropland (2114)</p> <p>ELSE IF Herbaceous Agriculture and vegetation is not tilled (includes pasture) THEN</p> <p>Non-tilled Herbaceous Agriculture (212)</p> <p>ELSE (Agriculture and GREATER THAN 25% of the vegetation is woody) THEN</p> <p>Non Herbaceous Agriculture (22)</p> <p>IF woody trees are grown for Christmas tree production THEN</p> <p>Christmas trees (221)</p> <p>ELSE Orchards/Vineyards/Nursery (222)</p>
<p>ELSE IF the ground area is LESS THAN 25% vegetated THEN</p> <p>Bare / Sparsely Vegetated (7)</p> <p>IF formed from sand or bare soil THEN</p> <p>Sand, Soil (710)</p> <p>ELSE IF formed from solid rock THEN</p> <p>Exposed Rock (720)</p> <p>ELSE IF periodically flooded THEN</p> <p>Mud Flats (730)</p> <p>ELSE Other Bare/Sparsely Vegetated (790)</p>
<p>ELSE IF LESS THAN 25% of the ground is covered by tree canopy AND there is no evidence of flooding during the past 5 years AND NOT supporting lowland indicator plants THEN</p> <p>Upland Openland (3)</p> <p>IF maintained for recreational purposes THEN</p> <p>Parks and Golf Courses (350)</p> <p>ELSE IF GREATER THAN 15% of the ground is covered by tree canopy then</p> <p>Low-Density Trees (330)</p> <p>IF AT LEAST 60% tree canopy is in Deciduous species THEN</p> <p>Low Density Deciduous Trees (3301)</p> <p>ELSE IF AT LEAST 60% tree canopy is in Coniferous species then</p> <p>Low Density Coniferous Trees (3302)</p> <p>ELSE IF low density trees but not above THEN</p>

Mixed Low Density Trees (3303)

ELSE IF the combination of woody shrubs/trees total GREATER THAN 25% of the canopy THEN

Upland Shrub (320)

IF AT LEAST 25% of the ground is covered by sweet fern THEN

Sweet Fern (3210)

ELSE IF AT LEAST 50% of the ground is covered by autumn olive/honeysuckle THEN

Autumn Olive/Honeysuckle (3202)

ELSE IF AT LEAST 50% of the ground is covered by blueberry THEN

Upland Blueberry (3203)

ELSE IF AT LEAST 25% of the ground is covered by mast producing shrubs (cherry spp., juneberry, hazel, dogwood, hawthorn, wild plum) THEN

Mast Producing Shrub (3204)

ELSE

Mixed Upland Shrub (3205)

ELSE IF LESS THAN OR EQUAL TO 25% of the canopy is in woody shrubs or trees THEN

Herbaceous Openland (310)

IF the ground cover is AT LEAST 60% poverty grass, sweet fern, blueberry, and/or cladonia THEN

Poverty Grass, Cladonia (3101)

ELSE IF AT LEAST 60% of the herbaceous cover is grass THEN

Grass (3102)

IF AT LEAST 60% of the herbaceous cover is cool season grass/legume (orchard grass, fescue, timothy, clover, vetch) THEN

Cool Season Grass (31021)

ELSE

Warm Season Grass (31022)

ELSE IF AT LEAST 60% of the herbaceous cover is bracken fern, strawberry, or raspberry/blackberry then

Rubus-Fern (3103)

ELSE IF AT LEAST 60% of the ground cover is exposed gravel or sand, spotted knapweed, St John's-wort, or other invasive exotics THEN

Degraded (3104)

ELSE

Mixed Upland Herbaceous (3105)

ELSE IF LESS THAN 25% of the ground is covered by tree canopy AND either there IS evidence of flooding during the past 5 years OR supporting lowland indicator plants THEN

Non-forested Wetlands (62)

IF AT LEAST 60% of the non-water ground cover is floating aquatic vegetation THEN

Floating Aquatic (621)

ELSE IF AT LEAST 60% of the non-water ground cover is shrub THEN

Lowland Shrub (622)

IF AT LEAST 60% of the cover is Alder (*alnus*) or Willow (*salix*) THEN

Alder/Willow (6220)

ELSE IF AT LEAST 60% is Shrubby cinquefoil (*Potentilla fruticosa*), Dogwood (*Cornus*), Willow (*Salix*), Sedge (*Carex*) and/or Sphagnum/Peat moss (*Sphagnum*) then

Fen (6221)

ELSE IF AT LEAST 30% is Dogwood (*Cornus*) and/or Michigan Holly (*Ilex verticillata*) THEN

Shrub-Carr (6222)

ELSE IF AT LEAST 30% Button bush (*Cepalanthus*), Water Plantain (*Alisma*), Smartweed (*Polygonum*), Cattail (*Typha*) THEN

Inundated Shrub Swamp (6223)

ELSE IF AT LEAST 30% is evergreen shrubs, Sphagnum/Peat moss (*Sphagnum*) THEN bog

IF AT LEAST 10% of the cover is trees THEN

Treed Bog (6224)

ELSE

Bog (6225)

ELSE

Mixed Lowland Shrub (6229)

ELSE IF AT LEAST 60% of the non-water ground cover is non-woody vegetation THEN

Emergent Wetland (623)

IF AT LEAST 60% of the cover is cattail (*typha spp*) THEN

Cattail (6230)

ELSE IF AT LEAST 60% *Phragmites* THEN

Phragmites (6231)

ELSE IF AT LEAST 30% native warm season grasses including Big bluestem, Little bluestem, Broom sedge (*Andropogon spp.*), Indian grass (*Sorghastrum nutans*) THEN

Wet Prairie (6232)

ELSE IF AT LEAST 60% is sedges and grasses including Sedge (*Carex*), Bulrush (*Scirpus*), Reed grass (*Calamagrostis*), Reed canary grass (*Phalaris arundinaceae*), native warm season grasses (see above) THEN

Wet Meadow (6233)

ELSE **Mixed Emergent Wetland (6239)**

ELSE **Mixed Non-Forest Wetland (629)**

ELSE IF AT LEAST 25% of the ground is covered by tree crowns - FOREST

IF NO evidence of flooding during the past 5 years AND not supporting lowland indicator plants THEN

Upland Forest (4)

IF AT LEAST 60% of the tree canopy is deciduous THEN

Upland Deciduous Forest (41)

IF AT LEAST 60% is Maple + Beech + Basswood + White Ash + Cherry + Yellow Birch THEN

Northern Hardwood (411)

IF AT LEAST 80% is Sugar Maple + Basswood + White Ash + Cherry THEN

Sugar Maple Association (4110)

ELSE IF AT LEAST 60% is (Sugar Maple + Basswood) AND AT LEAST 10% is (Beech + Oak) THEN

Sugar Maple, Hard Mast Association (4111)

ELSE IF AT LEAST 80% is Maple spp + Beech + Cherry THEN

Maple Association (4112)

ELSE IF AT LEAST 60% is Beech + Hemlock THEN

Beech, Hemlock (4114)

ELSE IF AT LEAST 20% is Yellow Birch + Hemlock THEN

Yellow Birch, Hemlock (4115)

ELSE IF AT LEAST 50% is Red Maple AND AT LEAST 20% is Conifer THEN

Red Maple, Conifer (4113)

ELSE IF AT LEAST 20% is Pine THEN

Mixed Northern Hardwood-Pine (4117)

ELSE IF AT LEAST 20% Aspen spp. THEN

Mixed Northern Hardwood-Aspen (4116)

ELSE **Mixed Northern Hardwoods (4119)**

ELSE IF AT LEAST 60% Oak THEN

Oak Type (412)

IF AT LEAST 15% Hickory THEN

Oak, Hickory (4120)

ELSE IF AT LEAST 30% Pine THEN

Oak, Pine (4122)

ELSE IF AT LEAST 30% Aspen spp. THEN

Oak, Aspen (4121)

ELSE IF AT LEAST 40% Red Oak THEN Red Oak types

IF AT LEAST 20% White Oak THEN

Red with White Oak (4124)

ELSE

Red Oak (4123)

ELSE IF AT LEAST 40% Northern Pin Oak + White Oak + Black Oak THEN Other Oaks

IF AT LEAST 20% White Oak THEN

White, Black, Northern Pin Oak (4126)

ELSE

Black, Northern Pin Oak (4125)

ELSE **Mixed Oak (4129)**

ELSE IF AT LEAST 40% Aspen Species THEN

Aspen Type (413)

IF AT LEAST 20% Conifer THEN Aspen, Conifer

IF AT LEAST 20% Cedar THEN

Aspen, Cedar (4135)

ELSE IF AT LEAST 20% Spruce or Fir THEN

Aspen, Spruce/Fir (4134)

ELSE IF AT LEAST 20% Pine THEN Aspen, Pine
IF Jack Pine IS GREATER THAN OR EQUAL TO
White Pine + Red Pine THEN
Aspen, Jack Pine (4132)
ELSE
Aspen, Mixed Pine (4133)

ELSE
Aspen, Mixed Conifer (4136)
ELSE IF AT LEAST 20% Oak THEN
Aspen, Mixed Oak (4131)
ELSE IF AT LEAST 60% Aspen THEN
Aspen (4130)
ELSE IF AT LEAST 20% Birch spp. THEN
Aspen, Birch (4137)
ELSE **Aspen, Mixed Deciduous (4139)**

ELSE IF AT LEAST 60% any other single species (like paper birch) THEN
Other Upland Deciduous (4140)
ELSE **Mixed Upland Deciduous (419)**
ELSE IF AT LEAST 20% Northern White Cedar THEN
Mixed Upland Deciduous with Cedar (4190)
ELSE IF AT LEAST 20% Coniferous THEN
Mixed Upland Deciduous with Conifer (4191)
ELSE IF primarily southern michigan species THEN
Mixed Southern Upland Deciduous (4192)
ELSE IF AT LEAST 60% aspen spp. and paper birch THEN
Birch, Aspen (4193)
ELSE **Other Mixed Upland Deciduous (4199)**

ELSE IF AT LEAST 60% of the tree canopy is coniferous THEN
Upland Coniferous Forest (42)
IF AT LEAST 60% of the tree canopy is Pine THEN Pines
IF Plantation THEN
Planted Pine (421)
IF AT LEAST 60% is White Pine THEN
Planted White Pine
IF AT LEAST 20% Deciduous THEN
Planted White Pine, Mixed Deciduous (42101)
ELSE **Planted White Pine (42100)**
ELSE IF AT LEAST 60% Red Pine THEN
Planted Red Pine
IF AT LEAST 20% Deciduous THEN
Planted Red Pine, Mixed Deciduous (42111)
ELSE **Planted Red Pine (42110)**
ELSE IF AT LEAST 60% Jack Pine THEN
Planted Jack Pine
IF AT LEAST 20% Deciduous THEN
Planted Jack Pine, Mixed Deciduous (42121)
ELSE **Planted Jack Pine (42120)**
ELSE IF AT LEAST 60% Scotch Pine THEN
Planted Scotch Pine (42130)
IF AT LEAST 20% Deciduous THEN
Planted Mixed Pine, Mixed Deciduous (42141)
ELSE **Planted Mixed Pine (42140)**

ELSE non-planted THEN
Natural Pine (422)
IF AT LEAST 30% Oak THEN
Pine-Oak (42250)
ELSE IF AT LEAST 60% White Pine THEN
Natural White Pine
IF AT LEAST 30% Deciduous THEN
Natural White Pine, Mixed Deciduous (42201)
ELSE **Natural White Pine (42200)**
ELSE IF AT LEAST 60% Red Pine THEN
Natural Red Pine

IF AT LEAST 30% Deciduous THEN
Natural Red Pine, Mixed Deciduous (42211)
 ELSE **Natural Red Pine (42210)**
 ELSE IF AT LEAST 60% Jack Pine THEN
Natural Jack Pine
 IF AT LEAST 30% Deciduous THEN
Natural Jack Pine, Mixed Deciduous (42221)
 ELSE **Natural Jack Pine (42220)**
 IF AT LEAST 30% Deciduous THEN
Natural Mixed Pine, Mixed Deciduous (42260)
 ELSE **Natural Mixed Pine (42290)**

ELSE IF AT LEAST 60% Non-Pine (Other) Upland Conifers THEN
Non-Pine (Other) Upland Conifers (423)
 IF Plantation THEN
 IF AT LEAST 60% Larch THEN
Planted Larch
 IF AT LEAST 20% Deciduous THEN
Planted Larch, Mixed Deciduous (42301)
 ELSE **Planted Larch (42300)**
 ELSE IF AT LEAST 60% Spruce THEN
Planted Spruce
 IF AT LEAST 20% Deciduous THEN
Planted Spruce Mixed Deciduous (42311)
 ELSE **Planted Spruce (42310)**

ELSE non-planted THEN
 IF AT LEAST 50% Hemlock THEN
Upland Hemlock (42350)
 ELSE IF AT LEAST 60% Spruce THEN
Upland Spruce (42320)
 ELSE IF AT LEAST 60% Fir THEN
Upland Fir (42330)
 ELSE IF AT LEAST 60% Spruce + Fir THEN
Upland Spruce/Fir (42340)
 ELSE IF AT LEAST 60% Cedar THEN UPLAND CEDAR
 IF AT LEAST 20% Aspen spp. THEN
Upland Cedar, Aspen (42370)
 ELSE **Upland Cedar (42360)**
 ELSE IF AT LEAST 30% Deciduous THEN
Non-Pine Upland Conifer, Mxd Deciduous (42380)
 ELSE **Mixed Non-Pine Upland Conifers (42390)**

ELSE **Mixed Upland Conifers (429)**

ELSE **Upland Mixed Forest (43)**

ELSE If AT LEASE 70% Pine and Oak species THEN
Pine, Oak Mix (4310)
 ELSE If AT LEASE 70% Pine and Aspen species THEN
Pine, Aspen Mix (4311)
 ELSE If AT LEASE 40% Hemlock THEN
Hemlock, Mixed Deciduous (4312)
 ELSE **Mixed Upland Forest (4319)**

ELSE IF evidence of flooding during the past 5 years OR supporting lowland indicator plants THEN

Lowland Forest (61)

IF AT LEAST 60% of the tree canopy is deciduous THEN
Lowland Deciduous Forest (611)
 IF AT LEAST 20% Cedar THEN
Lowland Deciduous with Cedar (6118)
 ELSE IF AT LEAST 20% Coniferous THEN
Lowland Deciduous, Mixed Coniferous (6117)
 ELSE IF AT LEAST 60% Maple spp. THEN
Lowland Maple (6113)

ELSE IF AT LEAST 60% Oak spp. THEN
Lowland Oak (6114)
ELSE IF AT LEAST 60% Ash spp THEN
Lowland Ash (6115)
ELSE IF AT LEAST 60% Cottonwood THEN
Cottonwood (6110)
ELSE IF AT LEAST 60% Birch spp. THEN
Lowland Birch (6116)
ELSE IF AT LEAST 40% Aspen + Balsam Poplar THEN
Lowland Aspen/Balsam Poplar
IF Aspen spp % IS GREATER THAN Balsam Poplar % THEN
Lowland Aspen (6112)
ELSE **Lowland Balsam Poplar (6111)**
ELSE **Mixed Lowland Deciduous Forest (6119)**

ELSE IF AT LEAST 60% of the tree canopy is coniferous THEN
Lowland Coniferous Forest (612)
IF AT LEAST 50% Cedar THEN
Lowland Cedar (6120)
ELSE IF AT LEAST 50% Tamarack THEN
Tamarack (6121)
ELSE IF AT LEAST 50% Black Spruce THEN
Black Spruce (6122)
ELSE IF AT LEAST 50% Fir THEN
Lowland Fir (6123)
ELSE IF AT LEAST 50% Spruce + Fir THEN
Lowland Spruce/Fir (6124)
ELSE IF AT LEAST 50% Jack Pine THEN
Lowland Jack Pine (6126)
ELSE IF AT LEAST 50% Black Spruce + Jack Pine THEN
Lowland Black Spruce, Jack Pine (6125)
ELSE IF AT LEAST 50% Pine THEN
Lowland Pine (6127)
ELSE IF AT LEAST 20% Deciduous THEN
Lowland Coniferous, Mixed Deciduous (6128)
ELSE **Mixed Coniferous Lowland Forest (6129)**

ELSE **Lowland Mixed Forest (613)**
IF AT LEAST 20% Cedar THEN
Mixed Lowland Forest with Cedar (6132)
ELSE IF AT LEAST 60% Fir + Aspen +Balsam Poplar + Maple THEN
Fir, Aspen, Maple (6130)
ELSE IF A LEAST 60% Hemlock + White Pine + Maple + Birch THEN
Hemlock, White Pine, Maple, Birch (6131)
ELSE **Mixed Lowland Forest (6139)**

IFMAP Classification List

6 Urban	4 Upland Forest, con't.	
11 Low Intensity Urban 12 High Intensity Urban 121 Airport 122 Roads/Parking Lot 123 Other High Intensity Urban	42 Upland Coniferous Forest, con't 422 Natural Pines 4220 Natural White Pine types 42200 Natural White Pine 42201 Natural White Pine, Mixed Deciduous 4221 Natural Red Pine Types 42210 Natural Red Pine 42211 Natural Red Pine, Mixed Deciduous 4222 Natural Jack Pine types 42220 Natural Jack Pine 42221 Natural Jack Pine, Mixed Deciduous 4226 Natural Mixed Pine Types 42290 Natural Mixed Pine 42250 Natural Pine, Oak 42260 Natural Mixed Pine, Mixed Deciduous <hr/> 423 Other (Non-Pine) Upland Conifers Planted Upland Conifers 42300 Planted Larch, Mixed Deciduous 42301 Planted Larch 42310 Planted Spruce 42311 Planted Spruce, Mixed Deciduous Non-planted Upland Conifers 42320 Upland Spruce 42330 Upland Fir 42340 Upland Spruce/Fir 42350 Upland Hemlock 42360 Upland Cedar 42370 Upland Cedar, Aspen 42380 Non-Pine Upland Conifer, Mxd Deciduous 42390 Mixed Non-Pine Upland Conifers <hr/> 429 Mixed Upland Conifers	
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21 Herbaceous Agriculture 211 Cropland 2111 Non-vegetated Farmland 2112 Row Crop 2113 Forage Crop 2114 Other Cropland <hr/> 212 Non-tilled Herbaceous Agriculture <hr/> 22 Non Herbaceous Agriculture 221 Christmas tree plantation 222 Orchard/Vineyard/Nursery		
3 Upland Openland	43 Upland Mixed Forest 4310 Pine, Oak Mix 4311 Pine, Aspen Mix 4312 Hemlock, Mixed Deciduous 4319 Mixed Upland Forest	
310 Herbaceous Openland 3101 Poverty Grass, Cladonia 3102 Grass 31021 Cool Season Grass 31022 Warm Season Grass 3103 Rubus, Fern 3104 Degraded 3105 Mixed Upland Herbaceous <hr/> 320 Upland Shrub 3201 Sweet Fern 3202 Autumn Olive/Honeysuckle 3203 Upland Blueberry 3204 Mast Producing Shrub 3205 Mixed Upland Shrub <hr/> 330 Low Density Trees 3301 Low Density Deciduous Trees 3302 Low Density Conifer Trees 3303 Mixed Low Density Trees <hr/> 350 Parks/Golf Courses		
4 Upland Forest	5 Water	
41 Upland Deciduous Forest 411 Northern Hardwood 4110 Sugar Maple Association 4111 Sugar Maple, Hard Mast Association 4112 Maple Association 4113 Red Maple, Conifer 4114 Beech, Hemlock 4115 Yellow Birch, Hemlock 4116 Mixed Northern Hardwood – Aspen 4117 Mixed Northern Hardwood - Pine 4119 Mixed Northern Hardwoods <hr/> 412 Oak 4120 Oak, Hickory 4121 Oak, Aspen 4122 Oak, Pine 4123 Red Oak 4124 Red with White Oak 4125 Black, Northern Pin Oak 4126 White, Black, Northern Pin Oak 4129 Mixed Oak <hr/> 413 Aspen 4130 Aspen 4131 Aspen, Oak 4132 Aspen, Jack Pine 4133 Aspen, Mixed Pine 4134 Aspen, Spruce/Fir 4135 Aspen, Cedar 4136 Aspen, Mixed Conifer 4137 Aspen, Birch 4139 Aspen, Mixed Deciduous <hr/> 414 Other Upland Deciduous 4140 Paper Birch <hr/> 419 Mixed Upland Deciduous 4190 Mixed Upland Deciduous with Cedar 4191 Mixed Upland Deciduous with Conifer 4192 Mixed Southern Upland Deciduous 4193 Birch, Aspen 4199 Other Mixed Upland Deciduous	50 Water	
	42 Upland Coniferous Forest 421 Planted Pines 4210 Planted White Pine types 42100 Planted White Pine 42101 Planted White Pine, Mixed Deciduous 4211 Planted Red Pine types 42110 Planted Red Pine 42111 Planted Red Pine, Mixed Deciduous 4212 Planted Jack Pine 42120 Planted Jack Pine 42121 Planted Jack Pine, Mixed Deciduous 4213 Planted Scotch Pine types 42130 Planted Scotch Pine 4214 Planted Mixed Pine types 42140 Planted Mixed Pine 42141 Planted Mixed Pine, Mixed Deciduous	6 Wetlands
		61 Lowland Forest 611 Lowland Deciduous Forest 6110 Cottonwood 6111 Lowland Balsam Poplar 6112 Lowland Aspen 6113 Lowland Maple 6114 Lowland Oak 6115 Lowland Ash 6116 Lowland Birch 6117 Lowland Deciduous, Mixed Coniferous 6118 Lowland Deciduous with Cedar 6119 Mixed Lowland Deciduous Forest <hr/> 612 Lowland Coniferous Forest 6120 Lowland Cedar 6121 Tamarack 6122 Black Spruce 6123 Lowland Fir 6124 Lowland Spruce-Fir 6125 Lowland Black Spruce, Jack Pine 6126 Lowland Jack Pine 6127 Lowland Pine 6128 Lowland Coniferous, Mixed Deciduous 6129 Mixed Coniferous Lowland Forest <hr/> 613 Lowland Mixed Forest 6130 Fir, Aspen, Maple 6131 Hemlock, White Pine, Maple, Birch 6132 Mixed Lowland Forest with Cedar 6139 Mixed Lowland Forest
	7 Bare/Sparsely Vegetated	
	710 Sand, Soil 720 Exposed Rock 730 Mud Flats 790 Other Bare/Sparsely Vegetated	