# Draft Key to Habitats of Columbia County (still incomplete and in need of revisions)

(Oct. 30, 2015)

1. Habitats that have wet soils all year or typically have wet soils for at least 1-3 consecutive weeks du	
	(Wetland Habitats) 2
1. Habitats on soils that are drier	(Upland Habitats) 4
2. Tidal wetland habitats with some direct hydrological connection to the Hudson River, and with regul tides	-
2.Non-tidal wetland habitats that are not directly connected to the Hudson River, or if directly con influence	nnected, then upstream from regular tidal
<ul> <li>3. Wetland habitats that are dominated by trees (either with ≥ 30% tree canopy closure throughout th <i>pool</i> or <i>seep</i> with an open canopy above)</li></ul>	
4. Upland habitats that have significant portions without topsoil	5
4. Upland habitats with at least a thin layer of topsoil	6
5. Naturally occurring bedrock outcrops	
5.Bedrock or gravel beds exposed by mining activity	Gravel Pits and Quarries
6.Upland habitats that have ≥ 30% tree canopy closure	
6. Upland habitats that have < 30% tree canopy closure	Key to OPEN UPLANDS (Page IV)

### Page II: Key to WOODED UPLANDS

1.Canopy is dominated by evergreen trees, deciduous trees might also be present2
1. Canopy is dominated by deciduous trees, although evergreen trees might be present in small numbers

3. Canopy is dominated by White Pine, but White Birch, Black Cherry, Sugar and Red Maple, Red Oak, and even Beech can also be present in	
appreciable numbers; the understory/shrub layer is diverse, mostly composed of tree regeneration, but Striped Maple and Musclewood are	
also often present	it
3. Canopy is not dominated by White Pine, although White Pine may be present as scattered individual trees	4

Scots Pine, Red Pine, etc, planted in monoculture or a mixed stand......

5. Canopy is dominated by oaks and/or Sugar Maple	6
5.Canopy is not dominated by oaks and/or Sugar Maple	10

6. Canopy is dominated by one or a combination of oak species, such as Red Oak, Chestnut Oak, White Oak, Black Oak, etc	7
6. Canopy is dominated by Sugar Maple, often accompanied by Red Oak	8

7. Red Maple can be co-dominant with the oaks; individual Shagbark and/or Pignut Hickory trees are often present, and Beech, Black Cherry, White Pine, Black and White Birch can also occur in small numbers; Sugar Maple, as well as Yellow Birch and Basswood are rare or absent; the understory is predominantly of native species, such as Hophornbeam, Witchhazel, Striped Maple, and Serviceberry ; Lowbush Blueberry tends to be present, often together with taller heath species......

Oak-Hickory Forest

7.Sugar Maple is present and can be co-dominant with the oaks, together with Red Maple and Black Birch; White Birch, White Pine, Pignut Hickory, and Beech often also occur in small numbers; the understory is predominantly of native species, with Maple-leaved Viburnum and

### Page III: continuation of Key to WOODED UPLANDS

8. Sugar Maple (and often Red Oak) share the canopy with a diverse set of species, including at least a small number of either Basswood, Beech, or Yellow Birch; often present are also Red Maple, Black Birch, White Ash, White Oak, and even Hemlock; however, Chestnut Oak tends to be absent; the understory is dominated by young Sugar Maple trees, sometimes accompanied by Musclewood; Striped Maple, Hophornbeam, and Witchhazel can be present but tend to be sparse; spring ephemerals can be abundant and diverse.....

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10.Canopy has a significant amount of any of the following species: American or Slippery Elm, White or Green Ash, Black Cherry, Trembling
 Aspen, and/or Grey or White Birch, but little or no Black Locust.
 Mixed Young Forest
 10.Canopy has a significant amount of Black Locust, sometimes mixed with Cottonwood, Sycamore, Tree-of-Heaven, as well as other species....11

11.Canopy is basically dominated by Black LocustBlack Locust Forest	
11.Canopy is dominated by Cottonwood or Sycamore, but Black Locust is usually also present	

# Page IV: Key to OPEN UPLANDS

1. Linear corridor maintained free of trees by cutting and/or herbicide application in order to provide continuous access to power lines or buried pipelines
1.Other open uplands
2.Herbaceous plants dominant, individual shrubs or trees might be present, but make up for less than 20% of the cover
3.Frequently mowed lawn
3. Meadow of active or past agricultural use
4. Closely mowed lawn of cemeteryCemetery
4. Lawn not located in a cemetery (e.g., yard, park, ball field, golf course)Not yet included in Field Guide
5.Land of past agricultural use, but currently not managed for agricultural production; kept open by mowing at the most once a year6 5.Land actively farmed either for hay, pasture or both7
6. Topsoil thin, sometimes even small rocky outcrops present; vegetation sparse, typically with at least some tussocks of the native warm-season grass Little Bluestem
6. Topsoil not obviously thin, rocky outcrops usually not present; vegetation typically a mix of native and non-native plants, including European cold-season grasses and clovers, as well as native Goldenrods and Asters
7. Topsoil thin, sometimes even small rocky outcrops present; vegetation sparse, typically with at least some tussocks of the native warm-season grass Little BluestemDry Meadow (in part)
7. Topsoil not obviously thin, vegetation mostly composed of non-native cold-season grasses, clovers and other European meadow plants well adapted to frequent grazing and/or mowing
8. Shrub layer not dominated by blueberry species and/or other members of the heath familySuccessional Shrubland 8. Shrub layer dominated by blueberry species and/or other members of the heath family9
9. Shrub layer dominated by low-growing blueberry species, no higher than hip height, maintained by active management through periodic cutting or burning
9. Shrub layer consists of a mix of Scrub Oak and a variety of heath species; stunted Pitch Pine, Red and White Oak, as well as Grey and White Birch are sometimes also present

## Page V: Key to WOODED WETLANDS

<ol> <li>Larger expanse of wetland habitat with, on average, at least 30% canopy cover by trees taller than 20 feet</li></ol>	
growing in it) or a small stream surrounded by upland forest	
2.Wetland is located in the floodplain of a stream and gets flooded on average at least once a year; Silver Maple is one of the most common trees	
2.Wetland is located in a basin with little or no flowing water on the surface; Red Maple is usually one of the most common trees Swamp Forest	
3. Linear wetland in form of a small intermittent or permanent stream and its banks	
3. Not a linear wetland	
4. Distinct pool which holds water only part of the year, usually late winter through spring, completely dries up by mid summer, and, even when it	

# Page V: Key to OPEN WETLANDS

1.Shrubs (woody plants < 20 feet high) make up at least 20% of canopy cov	erShrub Swamp
1. Herbaceous plants dominant; woody plants make up less than 20% canop	by cover, although individual shrubs or trees might be present2
2.Peat soil	KEY NOT YET DEVELOPED FURTHER
2. Mineral soil	
3.Soil saturated year round, covered with water almost year-round	
3. Soil saturated part of the year, covered with water only seasonally (e.g., i	
	Wet Meadow