

Michigan Supplemental Enhancement Activity

Water Quality Activity – ANM05 - Extending riparian forest buffers for water quality protection and wildlife habitat

The existing riparian buffer must be a minimum width of 35 feet to be eligible for this enhancement activity. Refer to the NRCS eFOTG Riparian Forest Buffer (391) standard for establishment

Identify plants to manage with this enhancement using the Conservation Tree/Shrub Suitability Groups (CTSUG) tool located in eFOTG, Section II, Folder K. Information on a select few common riparian forest buffer species follows:

Species	Flooding Tolerance	Large Debris	Soil Drainage	Shade Value	Wildlife Value	Height (Ft.)
Balm-of-Gilead	M	M	W	M	M	70
Basswood	L	H	WD	H	H	75
Birch, Yellow	M	H	W, WD	M	M	70
Buttonbush	VH	L	W, WD	L	M	10
Cherry, Black	L	L	WD	L	H	70
Cottonwood	H	H	W, WD	M	H	90
Cranberry, Highbush	H	L	W, WD	L	H	15
Dogwood, Redosier	H	L	W, WD	L	H	12
Silky	H	L	W, WD	L	H	12
Maple, Silver	H	H	W, WD	H	M	80
Sugar	L	H	WD	H	H	80
Red	H	H	W, WD	H	M	70
Oak, Bur	H	M	A	H	H	70
Red	L	M	W, WD	H	H	80
Swamp White	M	M	W, WD	H	H	70
White	L	H	WD, D	H	H	70
Pine, White	M	H	W, WD	L	M	90
Spruce, White	M	M	W, WD	M	M	75
Black	M	L	W, WD	L	M	60
Sycamore	H	H	W, WD	M	H	90
Tuliptree	L	M	WD	M	M	90
Walnut, Black	M	M	WD	M	H	80
White Cedar	M	L	W, WD	M	L	50
Willow, Black	VH	L	W	L	L	60

KEY	
A = All	M = Medium
D = Dry	VH = Very High
H = High	W = Wet
L = Low	WD = Well Drained

Flooding Tolerance - General capacity of the plant to withstand standing water. VH = able to survive deep, prolonged flooding for more than one year; H = able to survive deep flooding for one growing season, with mortality occurring if repeated the following year; and M = able to survive flooding or saturated soil for 30 consecutive days of flooding during the growing season without mortality.

Large Debris - Potential for the plant to produce trunk and limbs larger than ten inches in diameter before senescence. H = large debris possible within the life span of the plant; and L = large debris unlikely within the life span of the plant.

Soil Drainage - Adaptability of plant to grow in varying soil moisture conditions. W = wet or fully saturated soil; WD = well drained; D = dry soil conditions; and A = all soil conditions.

Shade Value - The density or fullness of shade provided by an individual plant's crown in full leaf-out condition.

H = large crown providing full shade; M = partially open or medium sized crown that provides patchy or incomplete shade; and L = very open or small crown that provides minimal shade.

Wildlife Value - The potential for the plant to provide cover, useful cavity sites, and/or quality fruit production.

H = excellent cover, large cavity potential, and/or high quality fleshy fruit or nut production; M = moderate cover, cavity, and fruit production; and L = low cover, cavity potential, and dry, non-nut/fruit production.

Height – Potential height at physical maturity.