APPENDIX C: RIPARIAN BUFFER SEED MIX

The use of a diverse seed mix that incorporates annual species as well as grasses, forbes, shrubs, and trees are very beneficial to the success of restoration work done in riparian corridors. Certain annual species are excellent for erosion control and provide nurse crop benefits. A diverse seed mix of grasses, forbes, shrubs, and trees have been found, through empirical experience, to minimize erosion rill development, minimize invasive species control problems, and provide diverse vegetation and habitat values in variable rainfall, soil moisture, and topographic conditions. Contained in this appendix is one recommended seed mix for full sun conditions in a piedmont riparian buffer. Appendix C

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			SEED RATE		
SCIENTIFIC NAME	NAME	STATUS	(POUNDS PER ACRE)	WILDLIFE VALUE	
				PRIMARY SPECIES	FUNCTION
GRASSES					
Andropogon gerardii	Big Bluestem	FAC	3	Finches, junco, sparrows, deer, bobwhite, small mammals.	FD
Andropogon scoparius	Little Bluestem	FACU-	1	Finches, junco, sparrows, deer, bobwhite.	FD
Dichanthelium clandestinum	Deertongue	FAC+	1	Sparrows, blackbirds.	FD
Elymus riparius	Riverbank Wild Rye	FACW	10	Sparrows, finches, small mammals.	FD
Elymus virginicus	Virginia Wild Rye	FACW-	10	Sparrows, finches, small mammals.	FD
Lolium multiflorum	Annual Ryegrass	NI	40	Sparrows, finches, small mammals.	EC, FD
Panicum virgatum	Switchgrass	FAC	15	Dove, bobwhite, wild turkey, mice, blackbirds, sparrows, deer, rabbit.	FD
Setaria italica	Foxtail Millet	UPL	40	Sparrows, finches, small mammals.	FD
Sorghastrum nutans	Indian Grass	FACU	3	Sparrows, finches, small mammals.	FD
FORBS					
Anemone virginiana	Thimbleweed	NI	0.2	Pollinators, butterflies, other insects.	FD
Asclepias incarnata	Swamp Milk- weed	OBL	0.5	Pollinators, butterflies, other insects.	FD
Asclepias syriaca	Common Milk- weed	NI	0.5	Pollinators, butterflies, other insects.	FD
Aster laevis	Smooth Aster	NI	0.2	Pollinators, butterflies, other insects.	FD
Aster prenanthoides	Zig-Zag Aster	FAC	0.1	Pollinators, butterflies, other insects.	
Conoclinium coelestinum	Mist Flower	FAC	0.1	Butterflies, pollinators, finches, spar- rows.	FD
Chamaecrista fasciculata	Partridge Pea	NI	0.5	Pollinators, butterflies, other insects.	FD
Chelone glabra	White Turtlehead	OBL	0.1	Pollinators, butterflies, other insects.	FD
Cimicifuga racemosa	Black Cohosh	NI	0.1	Pollinators, butterflies, other insects.	FD
Coreopsis tripteris	Tall Tickseed	FAC	0.2	Pollinators, butterflies, other insects, songbirds.	FD
Eupatoriadelphus fistulosus	Joe Pye Weed	FACW	0.1	Pollinators, butterflies, other insects.	FD
Eupatorium perfoliatum	Boneset	FACW+	0.1	Pollinators, butterflies, other insects.	FD

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Riparian Buffer Seed Mix

	RIPAR	AN BUF	FER SEI	ED MIX (cont.)	
SCIENTIFIC NAME	COMMON NAME	INDICATOR STATUS	SEED RATE (POUNDS PER ACRE)	WILDLIFE VALUE	
			,	PRIMARY SPECIES	FUNCTION
FORBS					
Heliopsis	Oxeye				
helianthoides	Sunflower	NI	0.5	Pollinators, butterflies, other insects.	FD
Penstemon digitalis	Penstemon	FAC	0.1	Pollinators, butterflies, other insects.	FD
Rubus allegheniensis	Common Black- berry	FACU-	0.1	Pollinators, butterflies, other insects.	FD
Rudbeckia hirta	Black-eyed Susan	FACU-	0.1	Butterflies and other pollinators	FD
Solidago juncea	EARLY GOLD- ENROD	NI	0.1	Pollinators, butterflies, other insects.	FD
Solidago nemoralis	Grey Goldenrod	NI	0.1	Pollinators, butterflies, other insects.	FD
Thalictrum pubescens	Tall Meadow Rue	FACW+	0.1	Pollinators, butterflies, other insects.	FD
Verbena hastata	Blue Vervain	FACW+	0.1	Pollinators, butterflies, other insects.	FD
Verbesina alternifolia	Wingstem	FAC	0.5	Butterflies and other pollinators	FD
Veronia noveboracensis	NY Ironweed	FACW+	0.1	Pollinators, butterflies, other insects.	FD
SHRUBS					
Cornus alternifolia	Alternate-Leaf Dogwood	NI	0.2	Grouse, turkey, rabbit, brown thrasher, wood thrush, cedar wax- wing, squirrel.	FD
Hamamelis virginiana	Witch Hazel	FAC-	0.2	Grouse, turkey, rabbit, beaver, squir- rel, deer.	FD
llex verticillata	Winterberry	FACW+	0.5	Bluebird, catbird, brown thrasher, robin, yellow bellied sapsucker, mockingbird.	FD, PC, RA
Lindera benzoin	Spicebush	FACW-	0.2	catbird, robin, sparrows, turkey.	FD
Rhus glabra	Smooth Sumac	NI	0.2	Robin, catbird, cardinal, turkey, rabbit, chipmunk, deer, mockingbird, phoebe.	FD, PC
Sambucus canadensis	Common Elder- berry	FACW-	0.1	Brown thrasher, catbird, woodpeck- ers, mockingbird, veery, hermit thrush.	FD, PC
Vaccinium corymbosum	High-Bush Blueberry	FACW-	0.1	Scarlet tanager, bluebird, catbird, chat, thrasher, towhee, mice, deer.	FD
Viburnum dentatum	Southern Arrow- wood	FAC	0.2	Purple finch, goldfinch, robin, junco, bluebird, hermit thrush.	FD, PC, RA

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	RIPAF	RIAN BUF	FER SE	ED MIX (cont.)	
SCIENTIFIC NAME	COMMON NAME	INDICATOR STATUS	SEED RATE (POUNDS PER ACRE)	WILDLIFE VALUE	
			ĺ ĺ	PRIMARY SPECIES	FUNCTION
TREES					
Acer negundo	Boxelder	FAC+	0.2	Finches, songbirds, squirrels, mice, warblers, deer and other browsers.	FD, PC, RA
Acer rubrum	Red Maple	FAC	0.2	Sapsucker, grosbeaks, squirrels, robins, goldfinch, warblers.	FD, PC, RA
Amelanchier arborea	Downy Serviceberry	FAC-	0.2	Catbird, Hermit thrush, scarlet tana- ger, crow, chipmunk, red squirrel.	FD
Carpinus caroliniana	Musclewood	FAC	0.1	Wood duck, grouse, quail, warblers, fox, rabbit, beaver, deer, pollinators.	FD, PC, RA
Liriodendron tulipif- era	Yellow Poplar	FACU	0.2	Purple finch, cardinal, hummingbird, squirrel, white footed mice, deer.	FD, RA
Nyssa sylvatica	Black Gum	FAC	0.2	Wood duck, wild turkey, mockingbird, robin, woodpeckers, fox, deer.	FD, PC, RA
Platanus occidentalis	Sycamore	FACW+	0.1	Woodpeckers, wood ducks, racoon, opposum.	FD
Prunus serotina	Black Cherry	FACU	0.2	Robin, cedar waxwing, ruffed grouse, mammals, woodpeckers, deer.	FD, PC, RA
Sassafras albidum	Sassafras	FACU-	0.2	Catbird, flycatcher, kingbird, mocking- bird, phoebe, brown thrasher, thrushes.	FD, PC, RA
	Total Pour Per /	nds of Seed Acre:	130.8		

Abbreviations FD = Food RA = Reproductive Areas PC = Protective Cover EC = Erosion Control

Notes:

Annual rye and foxtail millet are annual species that provide erosion control and nurse crop benefits. Both species rarely persist more than two growing seasons. 1.

Species substitutions are often required due to availability issues for the native species listed in the above table. We recommend replacement with a species that provides similar form and wildlife value. 2.

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NOTES:

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