

Suggested Plants, Planting Depths, and Wildlife Benefits

Zone 1. Deep Water (permanent water 1 to 8 feet deep) Herbaceous

<i>Elodea canadensis</i>	Waterweed	<i>Habitat</i> - small aquatic life; <i>Food</i> - beaver, redhead
<i>Ceratophyllum</i> spp.	Coontail	<i>Food (plants/seeds)</i> - ducks, coot, geese, grebes, swans, marshbirds, shorebirds, gamebirds, muskrat
<i>Lemna</i> spp.	Duckweed	<i>Food (plants)</i> - ducks, coot, sora rail, pheasant, geese, beaver, muskrat, other small mammals
<i>Nymphaea odorata</i>	White Water Lily	<i>Food (stems, roots, seeds)</i> - redhead and canvasback; <i>Food (plants)</i> - beaver, muskrat, porcupine, deer
<i>Vallisneria americana</i>	Wild Celery	<i>Food (leaves/fruits)</i> - ducks, swans, muskrat; <i>Shade, Shelter, Supports insects, Food</i> - fish, aquatic invertebrates

Zone 2. Shallow Water (permanent water 12 to 18 inches deep) Herbaceous

<i>Nuphar lutea</i>	Spatterdock	<i>Food (seeds)</i> - ring-necked pheasant, wood, and black ducks; <i>Food (plants)</i> - beaver, porcupine, whitetail deer, muskrat; <i>Shade, Shelter, Leaves (harbor insects)</i> - fish
<i>Nymphaea odorata</i>	White Water Lily	<i>Food (stems, roots, seeds)</i> - redhead and canvasback ducks; <i>Food (plants)</i> - beaver, porcupine, whitetail deer, muskrat
<i>Polygonum amphibium</i>	Water Smartweed	<i>Food (fruit/nutlets)</i> - ducks and shorebirds; <i>Food and Cover</i> - fish

Zone 3. Shallow Water (permanent water 6 to 12 inches deep) Herbaceous

<i>Glyceria canadensis</i>	Rattlesnake Grass	<i>Food</i> - waterfowl, muskrat; <i>Browsing</i> - whitetail deer
<i>Peltandra virginica</i>	Arrow Arum	<i>Food (seeds)</i> - wood duck, rails, marsh and shorebirds
<i>Sparganium americanum</i>	Bur-reed	<i>Food (seeds)</i> - ducks, whistling swan, muskrat, beaver; <i>Food (plants)</i> - muskrat, Canada goose
<i>Sparganium eurycarpum</i>	Bur-reed	<i>Food (seeds)</i> - ducks, whistling swan, ring-necked pheasant, beaver; <i>Food (plants)</i> - muskrat, Canada goose, whitetail deer; <i>Cover</i> - marshbirds, waterfowl
<i>Zizania aquatica</i>	Wild Rice	<i>Food (seeds, plant parts, rootstocks)</i> - ducks, red-winged blackbird, rails, bobolink, muskrat

Zone 4. Shallow Water (permanent water 0 to 6 inches deep) Herbaceous

<i>Acorus calamus</i>	Sweet Flag	<i>Food (rhizomes) and Cover</i> - many species of waterfowl, muskrat
<i>Alisma plantago-aquatica</i>	Water Plantain	<i>Food (nutlets)</i> - waterfowl, pheasant
<i>Dulichium arundinaceum</i>	Three Way Sedge	<i>Food</i> - muskrat
<i>Iris versicolor</i>	Blueflag Iris	<i>Food</i> - muskrat, marsh birds
<i>Juncus effusus</i>	Soft Rush	<i>Food</i> - upland gamebirds, marsh birds, songbirds, water fowl, muskrat (sparingly); <i>Spawning grounds</i> - rock bass, bluegills; <i>Cover</i> - waterfowl
<i>Juncus tenuis</i>	Slender Rush	<i>Food</i> - upland gamebirds, marsh birds, songbirds, waterfowl, muskrat (sparingly); <i>Spawning grounds</i> - rock bass, bluegills

<i>Peltandra virginica</i>	Arrow Arum	Food - wood duck, rails, other marsh birds, shorebirds
<i>Pontederia cordata</i>	Pickernel Weed	Food - waterfowl, Canada goose, muskrat; Cover - fish
<i>Rumex verticillatus</i>	Water Dock	Food (seeds) - ruffed grouse, red-winged blackbird, hoary redpoll, grasshopper, song, swamp, tree, and white-crowned sparrows; Food (leaves, plants) - whitetail deer, cottontail
<i>Sagittaria latifolia</i>	Common Arrowhead	Food (seeds, tubers, plants) - ducks, swans, rails, muskrat, beaver
<i>Saururus cernuus</i>	Lizard's Tail	Food - wood duck
<i>Scirpus fluviatilis</i>	River Bulrush	Cover and Food (seeds or rhizomes) - ducks, geese, swans, shorebirds, rails, muskrat, fish; Nesting - bluegills, largemouth bass
<i>Scirpus validus</i>	Soft Stem Bulrush	Cover and Food (seeds or rhizomes) - ducks, geese, swans, shorebirds, rails, muskrat, fish; Nesting - bluegills, largemouth bass
		Shrubs
<i>Cephalanthus occidentalis</i>	Buttonbush	Food (nutlets) - ducks; Food (twigs, foliage) - whitetail deer; Food (nectar) - ruby-throated hummingbird; Nesting - Virginia rail, red-winged blackbird; Attracts - muskrat, beaver
<i>Salix discolor</i>	Pussy Willow	Food (fruit, buds, flowers) - beaver, whitetail deer, squirrels, snowshoe hare, cottontail, porcupine, muskrat, ducks, wild turkey, ruffed grouse, bobwhite, ring-necked pheasant; Cover and
<i>Typha angustifolia</i>	Nesting - songbirds Narrow-leaved Cattail*	Food (seeds, rootstock) - snow goose, treals, muskrat, beaver; Cover and Nesting - canvasback, gadwall, wood duck, marsh wren, red-winged blackbird, young fish; Spawning grounds - sunfish

Zone 5. Saturated Soil (irregularly, seasonally, or regularly inundated or saturated)

Herbaceous

<i>Calamagrostis canadensis</i>	Blue Joint Grass	Food, Cover, Nesting; Grazing - mammals; Food (sprouts) - whitetail deer
<i>Caltha palustris</i>	Marsh Marigold*	Food (seeds) - upland game birds
<i>Carex lacustris</i>	Lake Sedge	Food - rails, various sparrows, ruffed grouse, snipe, seed eating songbirds, snow bunting, larkspurs, redpoll, black duck
<i>Carex stipata</i>	Awl-fruited Sedge	Food - rails, various sparrows, ruffed grouse, snipe, seed eating songbirds, snow bunting, larkspurs, redpoll, black duck
<i>Carex stricta</i>	Tussock Sedge*	Food - rails, various sparrows, ruffed grouse, snipe, seed eating songbirds, snow bunting, larkspurs, redpoll, black duck
<i>Carex vulpinoidea</i>	Fox Sedge	Food - rails, various sparrows, ruffed grouse, snipe, seed eating songbirds, snow bunting, larkspurs, redpoll, black duck
<i>Glyceria grandis</i>	Reed Meadow Grass	Food - waterfowl, muskrat; Browsing - whitetail deer
<i>Glyceria striata</i>	Fowl Mannagrass	Food - waterfowl, muskrat; Browsing - whitetail deer
<i>Juncus effusus</i>	Soft Rush	Food (seeds) - ducks, whistling swan, muskrat, beaver; Food (fruit, leaves) - ring-necked pheasant
<i>Juncus tenuis</i>	Slender Rush	Food - upland gamebirds, marshbirds, songbirds; Food (bases, roots) - muskrat; Spawning grounds - rock bass, bluegills
<i>Leersia oryzoides</i>	Rice Cutgrass	Food (seeds) - ducks, swamp and tree sparrow, sora rail; Food (habitat for invertebrates) - waterfowl, rails, herons; Habitat - fish, reptiles, amphibians
<i>Onoclea sensibilis</i>	Sensitive Fern	Food (leaves) - upland gamebirds, snowshoe hare, whitetail deer

Panicum virgatum Switchgrass
Scirpus cyperinus Wool Grass
Scirpus fluviatilis River Bulrush
Scirpus validus Soft Stem Bulrush
Symplocarpus foetidus Skunk Cabbage*

Shrubs

Alnus rugosa Speckled Alder*
Cornus amomum Silky Dogwood*
Cornus sericea duck, American woodcock, song sparrow; *Nesting and Cover* - gray catbird, American cottontail, snowhoe hair, woodchuck, raccoon; *Nesting and Cover* - American goldfinch
Ilex verticillata Common Winterberry
Lindera benzoin Spicebush
Sambucus canadensis Elderberry
Viburnum recognitum Arrowwood

Trees

Acer negundo Box-elder
Acer rubrum Red Maple
Acer saccharinum Silver Maple
Fraxinus pennsylvanica Green Ash*
Nyssa sylvatica Black gum
Populus deltoides Eastern Cottonwood*
whitetail deer

Food (seeds, young foliage) - reals, wigeon, black duck, snow goose; *Food (seeds)* - snipe, bobwhite, wild turkey, various songbirds; *Food (plants)* - muskrat, cottontail, whitetail deer
Cover and Food (seeds or rhizomes) - ducks, geese, trumpeter swan, shorebirds, rails, snipe, muskrat, fish; *Nesting* - bluegills, largemouth bass
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Food (fruit, leaves) - ring-necked pheasant

Food (seeds or buds) - songbirds; *Food (seeds) and Cover* - ducks, wild turkey, ring-necked pheasant, songbirds; *Nesting and/or Cover* - songbirds, American woodcock, beaver
Food (fruit, twigs, leaves) - wild turkey, ruffed grouse, bobwhite, ring-necked pheasant, songbirds, whitetail deer, beaver, cottontail, woodchuck, raccoon, squirrels; *Cover and Food* - wood goldfinch
Food - songbirds, ring-necked pheasant, whitetail deer, wild turkey, beaver, ruffed grouse, bobwhite, cottontail, snowhoe hair, woodchuck, raccoon; *Nesting and Cover* - American goldfinch
Food (berries) - songbirds, black duck, bobwhite, cottontail, raccoon, squirrels, ruffed grouse, ring-necked pheasant, whitetail deer; *Food, Cover, Nesting* - veery, red-winged blackbird
Food - songbirds, bobwhite, cottontail, raccoon, squirrels, ruffed grouse, ring-necked pheasant, wild turkey; *Browsing* - whitetail deer
Food (fruit) and/or Cover (Some Nesting) - many songbirds; *Food (twigs, leaves)* - whitetail deer
Food (fruit) - songbirds, small mammals; *Food (fruit) and Cover and/or Nesting* - ruffed grouse, brown thrasher, gray catbird

Food (seeds) - ring-necked pheasant, songbirds, waterbirds, squirrels, mice; *Cover and Nesting* - songbirds; *Food (young twigs, leaves)* - whitetail deer
Food (seeds, sap, or buds) - bobwhite, songbirds, waterbirds, squirrels, chipmunk; *Cover and Nesting* - songbirds; *Food (twigs, foliage)* - whitetail deer
Food (seeds or buds) - bobwhite, songbirds; *Cover and nesting* - songbirds; *Food (twigs, foliage)* - whitetail deer
Food (seeds) - wood duck, bobwhite, songbirds; *Cover and nesting* - songbirds; *Food (sap)* - yellow-bellied sapsucker; *Cover and Nesting* - songbirds; *Browsing* - whitetail deer
Food (fruit) - wood duck, songbirds, fox, bear; *Hollow Trunks* - raccoon, owls; *Food (twigs, foliage)* - whitetail deer, beaver
Food (buds, catkins) - ruffed grouse, songbirds, upland gamebirds, waterfowl; *Food (sap)* - yellow-bellied sapsucker; *Food (bark, foliage)* - aquatic and terrestrial furbearers, small mammals,

<i>Quercus bicolor</i>	Swamp White Oak	<i>Food (acorns, buds)</i> - waterfowl, marsh birds, shorebirds, upland gamebirds, songbirds, raccoon, squirrel, chipmunk, white-footed mouse; <i>Food (twigs, foliage, acorns)</i> - whitetail deer
<i>Quercus rubra</i>	Northern Red Oak	
<i>Salix nigra</i>	Black Willow*	<i>Food (fruit, buds, flowers)</i> - beaver, whitetail deer, squirrel, snowshoe hare, cottontail, porcupine, muskrat, ducks, wild turkey, ruffed grouse, bobwhite, ring-necked pheasant, songbirds;
<i>Thuja occidentalis</i>	<i>Cover and Nesting</i> - songbirds Northern White Cedar*	<i>Food (buds)</i> - red squirrel; <i>Food (browse)</i> - snowshoe hare, cottontail, whitetail deer; <i>Food (seeds)</i> - pine siskin; <i>Cover</i> - many species
<i>Ulmus americana</i>	American Elm	<i>Food (seeds and/or buds or sap)</i> - wood duck, wild turkey, ruffed grouse, bobwhite, ring-necked pheasant, songbirds; <i>Cover and/or Nesting</i> - songbirds; <i>Food (browse)</i> - whitetail deer, beaver

* - Plants that occur in the existing wetlands to the east and west of the quarry operation and could be transplanted into or become established in the reclamation area via the transport of reproductive parts by wildlife and/or wind.

SOURCE: Barb Reuter, Biologist, The Environmental Collaborative (2002)