

Table I-1: Native and Recommended Non-Invasive Plants

| Type | Latin Name | Common Name | National Wetland Indicator * | Hydrologic Zone ** | Inundation Tolerance | Drought Tolerance(N=none; L=low; M=medium; H=high) | Salt Tolerance (N=none; L=low; M=medium; H=high; U=unknown) | Mature Canopy Spread | Mature height | Light Requirement | Nativity | Commercial Availability (C=container; P=plug; S=seed) | Notes |
|------|-----------------------------------|-------------------------|------------------------------|--------------------|----------------------|--|---|----------------------|---------------|-----------------------|---------------------|---|--|
| fern | <i>Adiantum pedatum</i> | maidenhair fern | FAC- | 4, 5, 6 | no | L | N | | 1-3' | part shade-full shade | Philadelphia County | C | slightly acidic soils |
| fern | <i>Dennstaedtia punctilobula</i> | hayscented fern | UPL | 4, 5, 6 | no | L | U | | 1-2' | part sun-shade | Philadelphia County | C | groundcover; grows easily in poor soils |
| fern | <i>Dryopteris marginalis</i> | marginal wood fern | FAC+ | 4, 5, 6 | no | L | U | | 1-2' | part sun-shade | Philadelphia County | C | evergreen |
| fern | <i>Onoclea sensibilis</i> | sensitive fern | FACW | (3, 4) 5 | saturated | N | U | | 1-2' | sun-shade | Philadelphia County | P,S | groundcover; needs consistent moisture |
| fern | <i>Osmunda cinnamomea</i> | cinnamon fern | FACW | 2 (3, 4) | saturated | M | N | | 2-4' | part-full shade | Philadelphia County | P,S | acidic soils |
| fern | <i>Osmunda regalis</i> | royal fern | OBL | 2 (3, 4) | saturated | L | N | | 2-4' | part-full shade | Philadelphia County | P,S | groundcover; acidic soils |
| fern | <i>Polystichum acrostichoides</i> | christmas fern | FACU- | 6 | no | M | U | | 1-3' | part shade-full shade | Philadelphia County | C | groundcover; evergreen; silvery fiddleheads |
| fern | <i>Thelypteris noveboracensis</i> | new york fern | FAC | (3, 4) 5 | saturated | M | N | | 1-2.5' | part shade-shade | Pennsylvania | C | groundcover; delicate fronds spread rapidly in moist areas |
| forb | <i>Achillea millefolium</i> | yarrow | | 5,6 | | | H | 2-3' | 3' | Full Sun | US | | |
| forb | <i>Acorus americanus</i> | sweet flag | OBL | 3, 4 | sat, 0-6" | L | M | | 4' | full sun | Pennsylvania | P,S | occurs in shallow water of ponds |
| forb | <i>Agastache rupestris</i> | threadleaf giant hyssop | FACU | 5,6 | | M | L | 1' | 1-2' | Full Sun | US | | |
| forb | <i>Allium cernuum</i> | nodding onion | FACU | 5,6 | | H | H | 1' | 1-2' | Full Sun-Part Shade | US | | |
| forb | <i>Anaphalis margaritacea</i> | pearly everlasting | | 5, 6 | no | M | N | | 1-3' | full sun-part shade | Philadelphia County | S | attractive white, globular flowers |
| forb | <i>Anemone canadensis</i> | meadow anemone | | 2,3,4,5 | | | H | 2-3' | 1-2' | Full Sun-Part Shade | US | | |
| forb | <i>Aquilegia canadensis</i> | columbine | FAC | (4, 5) 6 | no | M | N | | 2' | part sun-shade | Philadelphia County | P,S | flowers with scarlet sepals and yellow petal blades; very adaptable |
| forb | <i>Asarum canadense</i> | wild ginger | FACU- | 4, 5, 6 | seasonal | L | N | | 1' | part-full shade | Philadelphia County | P,S | groundcover; semi-evergreen; spreads rapidly; small purple/brown flowers |
| forb | <i>Asclepias incarnata</i> | swamp milkweed | OBL | 2 (3, 4) | sat, 0-6" | N | N | | 2-6' | full sun-part shade | Philadelphia County | P,S | pink-rose purple flowers in several umbels |
| forb | <i>Asclepias syriaca</i> | common milkweed | FACU- | 5, 6 | no | M | N | | 2-6' | full sun | Philadelphia County | P,S | fragrant brownish-pink flowers in umbels |
| forb | <i>Asclepias tuberosa</i> | butterfly-weed | | 5, 6 | no | H | N | | 2-3' | full sun | Philadelphia County | P,S | bright orange flowers in umbels |
| forb | <i>Baptisia australis</i> | blue false indigo | | 4, 5, 6 | seasonal | H | N | | 3-6' | full sun | Pennsylvania | P,S | showy blue flowers; shrub-like; nitrogen fixer; adaptable |
| forb | <i>Baptisia tinctoria</i> | wild indigo | | 5, 6 | no | H | N | | 2-3' | full sun-part shade | Philadelphia County | P,S | sandy, acidic soils; yellow pea-like flowers; dark blue-green leaves |
| forb | <i>Bidens aristosa</i> | tickseed sunflower | FACW- | 4, 5, 6 | seasonal | L | N | | 1-3' | full sun | US | S | daisy-like yellow flower |
| forb | <i>Bidens cernua</i> | bur marigold | OBL | 3, 4, 5 | saturated | L | N | | 1-3' | full sun | Philadelphia County | S | many flowers crowded together into a head |
| forb | <i>Bidens frondosa</i> | beggars-ticks | FACW | 5, 6 | no | L | N | | 1-4' | full sun | Philadelphia County | S | orange flowers; adaptable |
| forb | <i>Boltonia asteroides</i> | white doll's daisy | FACW | 2,3,4,5 | Seasonal | H | L | 2-4' | 2-6' | Full Sun | US | | |
| forb | <i>Caltha palustris</i> | marsh marigold | OBL | 2, 3, 4 | sat, 0-6" | N | N | | 1-2' | full sun-part shade | Philadelphia County | P,S | ideal for wetland gardens; clump-forming |
| forb | <i>Chamaecrista fasciculata</i> | partridge-pea | FACU | 4, 5, 6 | no | M | L | | to 3' | full sun | Philadelphia County | S | showy yellow flowers; found on stream banks |
| forb | <i>Chelone glabra</i> | white turtlehead | OBL | 3, 4, 6 | seasonal | L | N | | 2-3' | full sun-part shade | Philadelphia County | P,S | snapdragon-type white flowers |

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|------|--|---------------------------|------------------------------|--------------------|----------------------|--|---|----------------------|---------------|---------------------|---------------------|---|---|
| forb | <i>Chrysogonum virginianum</i> | green and gold | | 6 | no | N | N | | 1' | part shade | Pennsylvania | P,S | groundcover; golden daisy-like flowers continue until frost; spreads easily |
| forb | <i>Cimicifuga racemosa</i> | black snakeroot | | 4, 5, 6 | seasonal | L | N | | 3-8' | full sun-part shade | Pennsylvania | C | woodland edge plant; white, wand-like blooms |
| forb | <i>Coreopsis grandiflora/ lanceolata/ verticillata</i> | tickseed | N/A | 5,6 | | H | H | 1-3' | 1-3' | Full Sun | US | | |
| forb | <i>Dicentra eximia</i> | wild bleeding heart | | 5, 6 | no | L | N | | 1.5' | part shade-shade | Pennsylvania | C | mound of finely-cut foliage; delicate pink hearts |
| forb | <i>Dodecatheon media</i> | shooting star | FACU | 5, 6 | no | L | N | | 1-2' | part shade | Philadelphia County | C | nodding white, pink, or lilac flowers in a terminal umbel |
| forb | <i>Echinacea purpurea</i> | eastern purple coneflower | N/A | 2,3,4,5 | Seasonal | L | L | 1-2' | 2-5' | Full Sun-Part Shade | US | | |
| forb | <i>Eupatorium coelestinum</i> | mist flower | FAC | 4, 5, 6 | seasonal | M | N | | 2' | full sun-part shade | Pennsylvania | P,S | groundcover; blue flowers on neat foliage; spreads easily |
| forb | <i>Eupatorium fistulosum</i> | joe-pye-weed | FACW | (3, 4) 5 | seasonal | L | N | | to 10' | sun-shade | Philadelphia County | S | many white flowers in large, branching clusters |
| forb | <i>Eupatorium hyssopifolium</i> | hyssopleaf thoroughwort | | 5, 6 | no | M | M | | 1-4' | full sun-part shade | Philadelphia County | P,S | white flowers in flat-topped terminal clusters |
| forb | <i>Eupatorium maculatum</i> | spotted joe-pye-weed | FACW | (3, 4) 5 | seasonal | L | N | | to 5' | full sun-part shade | Pennsylvania | P,S | light purple flowers; attracts butterflies |
| forb | <i>Eupatorium perfoliatum</i> | boneset | FACW+ | (2, 3) 4 | seasonal | L | U | | 2-5' | full sun-part shade | Philadelphia County | P,S | clusters of grayish-white flowers |
| forb | <i>Eupatorium purpureum</i> | joe-pye-weed | FAC | 3 (4, 5) | seasonal | L | U | | 6-8' | full sun-part shade | Philadelphia County | P,S | vanilla-scented flowers |
| forb | <i>Eupatorium rugosum</i> | white snakeroot | | 5, 6 | no | M | M | | 1-5' | sun-shade | Philadelphia County | P,S | white flowers in large clusters |
| forb | <i>Eurybia divaricata</i> | white wood aster | | 4 (5,6) | no | M | L | | 1-3' | part-full shade | Philadelphia County | P,S | white rays, center yellow and reddish-purple |
| forb | <i>Filipendula rubra</i> | queen of the prairie | FACW | 4, 5, 6 | seasonal | N | U | | 4-6' | full sun-part shade | Pennsylvania | S | prefers well-drained moist soils; foamy clusters of blooms |
| forb | <i>Gaillardia aristata, x grandiflora</i> | blanketflower | N/A | 5,6 | | M | H | 1' | 1-3' | Full Sun | US | | |
| forb | <i>Geranium maculatum</i> | wild geranium | FACU | 4,5,6 | | H | H | 1-2' | 1-2' | Full Sun-Part Shade | US | | |
| forb | <i>Helium autumnale</i> | sneezeweed | FACW+ | 3, 4, 5 | seasonal | L | N | | 3-5' | full sun-part shade | Philadelphia County | P,S | showy yellow daisy-like flowers; moist meadows; stream banks |
| forb | <i>Helianthus angustifolius</i> | swamp sunflower | FACW | 3, 4, 5 | seasonal | M | N | | 6-8' | full sun | Pennsylvania | S | yellow flowers with maroon centers |
| forb | <i>Helianthus giganteus</i> | swamp sunflower | FACW | 3, 4, 5 | seasonal | L | N | | 5-10' | full sun-part shade | Philadelphia County | S | yellow flowers on red-purple stems |
| forb | <i>Helopsis helianthoides</i> | ox-eye | | 3, 4, 5, 6 | seasonal | M | U | | 2-5' | full sun-part shade | Philadelphia County | P,S | pale yellow cone-shaped rays with yellow disks |
| forb | <i>Heuchera americana</i> | alumroot | | 5, 6 | no | M | U | | 1-1.5' | full sun-part shade | Philadelphia County | P,S | groundcover; white airy flowers |
| forb | <i>Hibiscus moscheutos</i> | swamp mallow | OBL | 2, 3 | sat, 0-12" | N | M | | 3-7' | full sun-part shade | Philadelphia County | P,S | large pink, purplish, or white flowers with a dark center |
| forb | <i>Houstonia caerulea</i> | bluets | FACU | 5, 6 | no | M | U | | 2-8" | full sun-part shade | Philadelphia County | S | delicate pale blue flowers with yellow centers |
| forb | <i>Iris versicolor</i> | blue-flag iris | OBL | 2 (3, 4) | sat, 0-6" | N | L | | 1-3' | full sun | Philadelphia County | P,S | blue-violet flowers |
| forb | <i>Liatris spicata</i> | spiked gay-feather | FAC+ | 4, 5 | seasonal | L | L | | 4-5' | full sun | Philadelphia County | P,S | easy to grow; tall spikes of lavender blooms |
| forb | <i>Lilium superbum</i> | turk's cap-lily | FACW+ | 4, 5 | seasonal | N | U | | 3-8' | full sun | Philadelphia County | S | nodding flowers, orange or orange-red with spots |
| forb | <i>Lobelia cardinalis</i> | cardinal flower | FACW+ | 3, 4 | saturated | M | N | | 2-5' | part-full shade | Philadelphia County | P,S | brilliant scarlet red flowers |
| forb | <i>Lobelia siphilitica</i> | great-blue lobelia | FACW+ | 3, 4 | saturated | N | U | | 1-3' | full sun-part shade | Philadelphia County | P,S | blue-white flowers |
| forb | <i>Maianthemum racemosum</i> | false-solomon's seal | | 5, 6 | no | L | U | | 1-3' | shade | Philadelphia County | C | creamy-white flowers in branched, pyramidal clusters |
| forb | <i>Mertensia virginica</i> | virginia bluebells | FACW | 5, 6 | no | L | N | | 1-2' | full-part shade | Philadelphia County | C | woodland flower; entire plant dies back by mid-summer |
| forb | <i>Mimulus ringens</i> | allegheeny monkey-flower | OBL | 3, 4 | saturated | N | U | | 1-3' | full sun-part shade | Philadelphia County | P | blue-violet flowers |

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| forb | <i>Monarda didyma</i> | bee-balm | FAC+ | (4, 5) 6 | no | N | U | | 2-5' | full sun | Philadelphia County | C | red flowers, scented leaves |
| forb | <i>Monarda fistulosa</i> | wild bergamot | UPL | 5, 6 | no | N | L | | 2-4' | full sun-part shade | Philadelphia County | P,S | pink to lavender flowers, scented leaves |
| forb | <i>Monarda punctata</i> | horsemint | UPL | 6 | no | M | U | | 2-3' | full sun | Pennsylvania | P,C | pink, showy bracts and yellow flowers with purple spots |
| forb | <i>Oenothera fruticosa</i> | sundrops | FAC | 5, 6 | no | L | H | | 1-2' | full sun | Philadelphia County | P,S | bright yellow flowers in spike or racemes |
| forb | <i>Peltandra virginica</i> | arrow-arum | OBL | (1, 2) 3 | sat, 0-1' | N | L | | 1-2' | full sun | Philadelphia County | P,S | emergent aquatic; resembles an arrowhead |
| forb | <i>Penstemon digitalis</i> | white beardtongue | FAC | 5, 6 | no | H | M | | 2-4' | full sun-part shade | Philadelphia County | P,S | white with purple tinged tubular flowers |
| forb | <i>Phlox maculata</i> | wild sweet-william | FACW | 4, 5 | seasonal | M | N | | 1-3' | full sun | Philadelphia County | P,S | deep pink to rose-purple flower clusters |
| forb | <i>Phlox paniculata</i> | summer phlox | FACU | 4, 5, 6 | no | M | U | | 2-6' | full sun-part shade | Philadelphia County | P | magenta pink flower clusters |
| forb | <i>Phlox subulata</i> | moss phlox | | 6 | no | M | N | | 3-5" | full sun-part shade | Pennsylvania | C | groundcover; evergreen; forms mats; good for hillsides and rocky areas |
| forb | <i>Physostegia virginiana</i> | obedient plant | FAC+ | 4, 5 | seasonal | L | U | | 1-5' | full sun-part shade | Philadelphia County | P,S | tall graceful plant with pink tubular flowers; very tolerant |
| forb | <i>Polygonatum biflorum</i> | solomon's seal | FACU | 5, 6 | no | L | U | | 1-3' | full-part shade | Philadelphia County | C | greenish bell-shaped flowers hang from leaf axils in pairs |
| forb | <i>Polygonum pensylvanicum</i> | pennsylvania smartweed | FACW | 2 (3, 4) | sat, 0-6" | M | L | | to 6' | full sun | Pennsylvania | S | attractive pink flowers; great species for disturbed sites and stream banks |
| forb | <i>Pontederia cordata</i> | pickereel-weed | OBL | (2, 3) 4 | saturated | N | L | | 1-3' | full sun | Philadelphia County | P, C | heart-shaped leaves with purple flowers in a spike |
| forb | <i>Pycnanthemum virginianum</i> | virginia mountainmint | FAC | 2,3,4,5 | Seasonal | M | L | 2' | 2-3' | Full Sun | US | | |
| forb | <i>Ruellia humilis</i> | fringeleaf wild petunia | FACU | 5,6 | | H | L | 1-2' | 1-2' | Full Sun-Part Shade | US | | |
| forb | <i>Rudbeckia fulgida</i> | early coneflower | FAC | 5, 6 | no | M | U | | 1.5' | full sun-part shade | Pennsylvania | P,S | yellow flowers with black eyes |
| forb | <i>Rudbeckia hirta</i> | black-eyed susan | FACU- | 4, 5, 6 | no | M | N | | 1-3' | full sun-part shade | Pennsylvania | P,S | flowers from seed in the first year |
| forb | <i>Rudbeckia laciniata</i> | tall coneflower | FACW | 4, 5 | seasonal | H | N | | 5-10' | full sun-part shade | Pennsylvania | P,S | yellow flowers with drooping rays and green eyes; moist thickets; swamps |
| forb | <i>Rudbeckia triloba</i> | three-lobed coneflower | FACU | 5, 6 | no | M | U | | 1-3' | full sun-part shade | Pennsylvania | P,S | yellow flowers with large, black eyes; moist to dry soils |
| forb | <i>Sagittaria latifolia</i> | arrowhead | OBL | 1, 2, 3 | sat, 0-2' | N | N | | 1-4' | full sun | Philadelphia County | P,S | emergent aquatic, tubers are edible |
| forb | <i>Saururus cernuus</i> | lizard's tail | OBL | 2, 3, 4 | sat, 0-1' | N | U | | 2-4' | sun-part shade | Philadelphia County | P,S | emergent aquatic, fragrant white flowers |
| forb | <i>Sedum ternatum</i> | wild stone crop | | 6 | no | M | U | | 3-8" | Full sun-part shade | Philadelphia County | P,S | groundcover, like rocky banks |
| forb | <i>Sedum x</i> | stone crop | N/A | 4,5,6 | Seasonal | H | H | 1-2' | 1-2' | Full Sun | US | | pink bloom color |
| forb | <i>Senecio aureus</i> | golden ragwort | FACW | 4, 5 | seasonal | L | N | | 1-3' | sun-shade | Philadelphia County | P,S | groundcover; flowers in terminal clusters with many golden rays |
| forb | <i>Solidago bicolor</i> | silver-rod | | 5, 6 | no | M | U | | 1-3' | part sun | Philadelphia County | S | only native white goldenrod |
| forb | <i>Solidago nemoralis</i> | gray goldenrod | | 6 | no | M | N | | 1-3' | full sun-part shade | Philadelphia County | S | dry, sterile soils; yellow flower clusters |
| forb | <i>Solidago odora</i> | sweet goldenrod | | 6 | no | M | U | | 2-4' | full sun-part shade | Philadelphia County | S | leaves smell and taste like licorice |
| forb | <i>Solidago rugosa</i> | wrinkle-leaf goldenrod | FAC | 3, 4, 5 | no | M | N | | 3-7' | sun-part shade | Philadelphia County | P,S | yellow flowers |
| forb | <i>Solidago sempervirens</i> | sea-side goldenrod | FACW | 3, 4, 5 | seasonal | H | M | | 3-5' | full sun | Philadelphia County | P,S | showy yellow flowers |
| forb | <i>Symphotrichum cordifolius</i> | blue wood aster | | 5, 6 | no | M | L | | 1.5-4' | part-full shade | Philadelphia County | P,S | blue-violet to rose disk and ray flowers |
| forb | <i>Symphotrichum novae-angliae</i> | new england aster | FAC | (3, 4) 5 | seasonal | M | L | | 2-8' | full sun-part shade | Philadelphia County | P,S | rays bright pink or purple |
| forb | <i>Symphotrichum novi-belgii</i> | new york aster | FACW+ | (3, 4) 5 | seasonal | L | N | | 1-4' | full sun | Philadelphia County | P,S | violet to blue rays with yellow disks |

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|------------|--------------------------------|-------------------------|------------------------------|--------------------|----------------------|--|---|----------------------|---------------|---------------------|---------------------|---|--|
| forb | <i>Tiarrella cordifolia</i> | foamflower | FAC- | 5, 6 | no | L | U | | 1' | part sun-full shade | Pennsylvania | P,S | groundcover; spreads rapidly; leaves are evergreen; flowers are small and white |
| forb | <i>Tradescantia virginiana</i> | spiderwort | FACU | 5, 6 | no | M | N | | 1-3' | full sun-part shade | Philadelphia County | P,S | long blooming; deep blue-purple or white flower; dry to moist soils |
| forb | <i>Vallisneria americana</i> | wild celery | OBL | 1 | sat, 1' min. | N | N | | 1' | full sun-part shade | Pennsylvania | C | tolerant of murky water and high nutrient loads |
| forb | <i>Verbena hastata</i> | blue vervain | FACW+ | 3, 4 | saturated | N | U | | 2-6' | full sun | Philadelphia County | P,S | violet blue flowers in erect spikes |
| forb | <i>Veronia novaborensis</i> | new york ironweed | FACW+ | 3, 4 | saturated | M | N | | 5-6' | full sun | Philadelphia County | P,S | 30-50 small rose-purple flowers on a head |
| forb | <i>Zizia aurea</i> | golden zizia | FAC | 5, 6 | no | L | H | | 2-3' | full sun-part shade | Philadelphia County | C | umbels of yellow flowers; all leaves are compound |
| grass | <i>Andropogon gerardii</i> | big bluestem | FACW+ | (4, 5) 6 | no | H | L | | 3-6' | full sun | Philadelphia County | P,S | warm-season grass |
| grass | <i>Andropogon virginicus</i> | broom sedge | FACU | 5, 6 | no | H | N | | 3-8' | full sun-part shade | Philadelphia County | P,S | warm-season grass |
| grass | <i>Chasmanthium latifolium</i> | river oats | FACU | 4, 5 | seasonal | M | N | | 2-3' | full sun-part shade | Pennsylvania | P,S | groundcover; resembles bamboo; dangling "oats" |
| grass | <i>Danthonia spicata</i> | poverty grass | | 6 | no | L | U | | 1-3' | full sun | Pennsylvania | P,S | usually found in poor, dry soils; very tolerant; cool-season |
| grass | <i>Distichlis spicata</i> | seashore saltgrass | FACW+ | 5, 6 | no | M | H | | 1' | full sun | Philadelphia County | P,S | especially useful in saline wetlands; dense roots act as a pollutant filter |
| grass | <i>Eleocharis palustris</i> | creeping spike-rush | OBL | 2, 3, 4 | sat, 0-6" | L | L | | 1-2' | full sun | Pennsylvania | P,S | forms dense tufts; roots fix nitrogen; important food and cover for waterfowl |
| grass | <i>Elymus canadensis</i> | canada rye | FACU+ | 4, 5, 6 | seasonal | M | M | | 3-6' | full sun-part shade | Philadelphia County | S | cool season, clump-forming grass with wheat-like spikes that remain until winter |
| grass | <i>Elymus virginicus</i> | virginia wild rye | FACW- | 4, 5 | seasonal | M | N | | 2-3' | part shade-shade | Philadelphia County | P,C | spreads easily; good for erosion control; very tolerant |
| grass | <i>Eragrostis spectabilis</i> | purple lovegrass | UPL | 5, 6 | no | H | N | | 1-2.5' | full sun | Philadelphia County | P,S | groundcover; delicate purple flowers seem to float above the plant |
| grass | <i>Glyceria grandis</i> | american mannagrass | OBL | 2, 3, 4 | seasonal | N | U | | to 5' | full sun | Philadelphia County | S | decorative cool-season bunchgrass; purple seed heads |
| grass | <i>Glyceria striata</i> | fowl mannagrass | OBL | (2, 3) 4 | seasonal | L | N | | 2-4' | full sun-part shade | Philadelphia County | P,S | clump forming |
| grass | <i>Hordeum jubatum</i> | foxtail barley | FAC | 5, 6 | no | M | M | | 1-3' | full sun | Philadelphia County | S | soft and airy appearance; compaction resistant; often found on roadsides |
| grass | <i>Leersia oryzoides</i> | rice cutgrass | OBL | (2, 3) 4 | sat, 0-6" | L | N | | 2-5' | full sun | Philadelphia County | P,S | single flower clusters slightly drooping |
| grass | <i>Panicum dichotomiflorum</i> | smooth panic-grass | FACW- | 4, 5, 6 | seasonal | N | M | | 5-7' | full sun-part shade | Philadelphia County | S | green or purple inflorescence |
| grass | <i>Panicum virgatum</i> | switch-grass | FAC | (4, 5) 6 | seasonal | M | M | | 3-6' | full sun-part shade | Philadelphia County | P,S | groundcover; bluish-green foliage; purple panicle of flowers |
| grass | <i>Schizachyrium scoparium</i> | little bluestem | FACU | 6 | no | H | N | | 2-3' | full sun | Philadelphia County | P,S | warm-season grass, tolerates poor, dry soils |
| grass | <i>Sorghastrum nutans</i> | indian grass | UPL | 5, 6 | no | M | M | | 5-7' | full sun | Philadelphia County | P,S | warm-season grass |
| grass | <i>Sporobolus heterolepis</i> | prairie dropseed | UPL | 4,5,6 | Seasonal | L | L | 2-3' | 2-4' | Full Sun | US | | |
| grass | <i>Tridens flavus</i> | purpletop | FACU | 6 | no | H | N | | 2-5' | full sun | Philadelphia County | P,S | groundcover; purple drooping branches |
| grass | <i>Typha angustifolia</i> | narrow-leaved cattail | OBL | 1 (2, 3) | sat, 0-1' | L | M | | to 6' | full sun | Pennsylvania | P,S | provides food and cover for geese, ducks, and spawning fish |
| grass | <i>Typha latifolia</i> | broad-leaved cattail | OBL | 1, 2, 3 | sat, 0-1' | N | L | | to 10' | full sun-part shade | Pennsylvania | P,S | provides food and cover for geese, ducks, and spawning fish |
| grass | <i>Zizania aquatica</i> | wild rice | OBL | 2, 3, 4 | saturated | N | L | | to 9' | full sun | Philadelphia County | S | yellow-red edible grains; found in tidal and non-tidal marshes; requires still water |
| grass-like | <i>Alisma subcordatum</i> | southern water-plantain | OBL | 2 | sat, 0-1' | N | N | | to 4' | full sun | Philadelphia County | S | emergent aquatic, slow moving water |
| grass-like | <i>Carex crinita</i> | fringed sedge | OBL | 2 (3, 4) | saturated | L | N | | to 4' | full sun-part shade | Philadelphia County | P,C | groundcover; emergent aquatic, distinctive sedge |
| grass-like | <i>Carex lurida</i> | lurid sedge | OBL | 2, 3, 4 | saturated | L | N | | to 3' | full sun-part shade | Philadelphia County | P, C | seed heads resemble small sweetgum fruits; remains attractive in warm temps |
| grass-like | <i>Carex pensylvanica</i> | pennsylvania sedge | | 5, 6 | seasonal | M | N | | 3-15" | part-full shade | Philadelphia County | P,C | slow-spreading |

| Type | Latin Name | Common Name | National Wetland Indicator * | Hydrologic Zone ** | Irradiation Tolerance | Drought Tolerance(N=none; L=low; M=medium; H=high) | Salt Tolerance (N=none; L=low; M=medium; H=high; U=unknown) | Mature Canopy Spread | Mature height | Light Requirement | Nativity | Commercial Availability (C=container; P=plug; S=seed) | Notes |
|------------|--|---------------------------|------------------------------|--------------------|-----------------------|--|---|----------------------|---------------|----------------------|---------------------|---|---|
| grass-like | <i>Carex scoparia</i> | broom sedge | FACW | 3 (4) 5 | sat, 0-6" | N | L | | 1-3' | full sun | Philadelphia County | P,S | green flowers in clusters at the top of the stem |
| grass-like | <i>Carex stricta</i> | tussock sedge | OBL | 1 (2, 3) 4 | sat, 0-6" | L | N | | to 3' | full sun | Philadelphia County | P,C | emergent aquatic |
| grass-like | <i>Carex vulpinoidea</i> | fox sedge | OBL | 1, 2 (3) 4 | sat, 0-6" | L | N | | to 3' | full sun-part shade | Philadelphia County | P,C | seed heads resemble a fox's tail |
| grass-like | <i>Juncus effusus</i> | soft rush | FACW+ | (2, 3) 4 | sat, 0-1' | M | L | | 2-3' | full sun | Philadelphia County | P,C | clump forming |
| grass-like | <i>Juncus gerardii</i> | black-grass | FACW+ | 3, 4 | sat, 0-6" | N | H | | 1-2' | full sun-part shade | Philadelphia County | P,C | purplish to burgundy flower clusters |
| grass-like | <i>Pontederia cordata</i> | pickerel-weed | OBL | 1, 2, 3 | sat, 0-1' | N | L | | 1-3' | full sun | Philadelphia County | S | emergent aquatic, heart-shaped leaves, purple flowers |
| grass-like | <i>Schoenoplectus (Scirpus) pungens</i> | three-square | FACW+ | 2, 3, 4 | sat, 0-6" | N | H | | 1-3' | full sun | Philadelphia County | P,S | good bank stabilizer; erosion control; spreads easily |
| grass-like | <i>Scirpus cyperinus</i> | wool-grass | FACW+ | 2 (3, 4) | saturated | L | N | | to 6' | full sun | Philadelphia County | P,C | forms dense tussocks; large inflorescence |
| grass-like | <i>Scirpus polyphyllus</i> | bulrush | OBL | 2, 3, 4 | saturated | N | U | | to 4' | shade | Philadelphia County | S | numerous leaves along stem, flowers at the top of the stem |
| grass-like | <i>Sparganium americanum</i> | bur-reed | OBL | (2, 3) 4 | sat, 0-6" | N | N | | 1-3' | full sun | Philadelphia County | P,C | emergent aquatic |
| grass-like | <i>Sparganium eurycarpum</i> | giant bur-reed | OBL | 1 (2, 3) | sat, 0-12" | N | N | | 2-4' | full sun | Philadelphia County | P,C | emergent aquatic |
| shrub | <i>Alnus serrulata</i> | smooth alder | OBL | (1, 2) 3 | sat, 0-3" | L | N | 6-10' | 6-10' | full sun | Philadelphia County | C | stabilizes stream banks, roots fix nitrogen |
| shrub | <i>Amelanchier canadensis</i> | serviceberry | FAC | 4, 5, 6 | seasonal | L | H | 15-20' | 6-20' | full sun-part shade | Philadelphia County | C | compaction sensitive |
| shrub | <i>Aronia arbutifolia</i> | red chokeberry | FACW | 3 (4, 5) | seasonal | L | M | 3-4' | 6-10' | full sun-part shade | Philadelphia County | C | compaction resistant, bank stabilizer, white flowers |
| shrub | <i>Aronia melanocarpa</i> | black chokeberry | FAC | 3 (4, 5) | seasonal | M | M | 3-6' | 5-10' | full sun-part shade | Philadelphia County | C | compaction tolerant, white flowers |
| shrub | <i>Baccharis halimifolia</i> | groundsel-tree | FACW | 4, 5, 6 | seasonal | L | M | 6-12' | 6-12' | full sun | Philadelphia County | C | compaction resistant |
| shrub | <i>Cephalanthus occidentalis</i> | buttonbush | OBL | 1 (2, 3) | sat, 0-3' | M | M | 4-8' | 3-6' | full sun | Philadelphia County | C | compaction tolerant, interesting flowers |
| shrub | <i>Chionanthus virginicus</i> | fringetree | FAC+ | 4, 5 | seasonal | M | N | 12-20' | 12-25' | sun-shade | Philadelphia County | C | white, pendulous, fragrant flowers; gold fall color; very adaptable; acidic soils |
| shrub | <i>Clethra alnifolia</i> | sweet pepperbush | FAC+ | 3, 4, 5 | seasonal | L | M | 4-6' | 3-8' | full sun-shade | Philadelphia County | C | compaction tolerant, acidic soils |
| shrub | <i>Comptonia peregrina</i> | sweet-fern | | 6 | no | H | N | 4-8' | 2-5' | full sun-part shade | Pennsylvania | C | very adaptable; aromatic leaves; nitrogen fixer |
| shrub | <i>Cornus anomum</i> | silky dogwood | FACW | (3, 4) 5 | seasonal | L | N | 8' | 6-10' | full sun-part shade | Philadelphia County | C | compaction tolerant, bank stabilizer, white flowers |
| shrub | <i>Cornus racemosa</i> | gray dogwood | FAC- | 3 (4, 5) | seasonal | M | N | 10-15' | 10-15' | full sun-shade | Philadelphia County | C | compaction tolerant, very adaptable, white flowers |
| shrub | <i>Cornus sericea</i> | red-osier dogwood | FACW+ | (3, 4) 5 | seasonal | L | N | 8-12' | 7-9' | full sun | Philadelphia County | C | compaction tolerant, stream bank stabilizer, red bark |
| shrub | <i>Corylus americana</i> | hazelnut | FACU- | 4 (5, 6) | no | M | N | 8-13' | 8-10' | full sun-light shade | Philadelphia County | C | compaction tolerant, edible nuts |
| shrub | <i>Dasiphora fruticosa</i> | bush cinquefoil | N/A | 4,5,6 | Seasonal | H | H | 3-5' | 2-4' | Full Sun-Part Shade | US | | |
| shrub | <i>Diervilla lonicera</i> | northern bush honeysuckle | N/A | Outer | | H | L | 1-4' | 1-4' | Full Sun-Part Shade | US | | |
| shrub | <i>Euonymus americanus</i> | hearts-a-burstin' | FAC | 4, 5, 6 | seasonal | N | N | 4-6' | 4-6' | full sun-part shade | Philadelphia County | C | small brown flowers; fuchsia hearts; green stems add winter interest |
| shrub | <i>Hamamelis virginiana</i> | witch-hazel | FAC- | 4 (5, 6) | no | L | N | 15-20' | 20-30' | full sun-shade | Philadelphia County | C | ornamental, unusual yellow flowers |
| shrub | <i>Hydrangea arborescens</i> | wild hydrangea | FACU | 3, 4, 5 | no | N | U | 3-5' | 3-5' | part-full shade | Philadelphia County | P,S | creamy white flowers; dry to moist soil |
| shrub | <i>Hypericum densiflorum, prolificum</i> | st.john's wort | FACW | 2,3,4,5 | Seasonal | L | High | 1-5' | 1-6' | Full Sun-Part Shade | US | | |
| shrub | <i>Ilex verticillata</i> | winterberry | FACW+ | (3, 4) 5 | seasonal | L | N | 3-12' | 6-12' | full sun-part shade | Philadelphia County | C | compaction resistant, red berries persist through winter |
| shrub | <i>Itea virginica</i> | virginia sweet spire | OBL | 3, 4, 5 | seasonal | L | N | 3-5' | 3-9' | sun-shade | Pennsylvania | C | fragrant white tassels; good fall color |

| Type | Latin Name | Common Name | National Wetland Indicator * | Hydrologic Zone ** | Inundation Tolerance | Drought Tolerance(N=none; L=low; M=medium; H=high) | Salt Tolerance (N=none; L=low; M=medium; H=high; U=unknown) | Mature Canopy Spread | Mature height | Light Requirement | Nativity | Commercial Availability (C=container; P=plug; S=seed) | Notes |
|-------|---|-----------------------|------------------------------|--------------------|----------------------|--|---|----------------------|---------------|---------------------|---------------------|---|---|
| shrub | <i>Juniperus communis</i> | juniper | | 6 | no | H | N | 7-13' | 5-10' | full sun | Philadelphia County | C | mounded shrub; deep taproot; high wildlife value; evergreen |
| shrub | <i>Leucothoe racemosa</i> | swamp sweetbells | FACW | 3, 4, 5 | seasonal | L | L | 3-8' | 3-8' | part-full shade | Pennsylvania | C | white drooping flowers; evergreen leaves; moist soil |
| shrub | <i>Lindera benzoin</i> | spicebush | FACW- | 3, 4, 5 | seasonal | L | M | 6-12' | 6-12' | full sun-shade | Philadelphia County | C | compaction tolerant, drought sensitive |
| shrub | <i>Lonicera sempervirens</i> | trumpet honeysuckle | FACU | 6 | no | L | N | 3-6' | 10-20' | full sun-part shade | Philadelphia County | P,S | vine with bright orange trumpet-shaped flowers; flood intolerant |
| shrub | <i>Myrica pensylvanica</i> | bayberry | FAC | (3, 4) 5 | seasonal | H | M | 5-9' | 9' | full sun | Philadelphia County | C | compaction resistant, roots fix nitrogen, winter fruits |
| shrub | <i>Parthenocissus quinquefolia</i> | virginia creeper | FACU | 4, 5, 6 | seasonal | H | M | 5-10' | 30-50' | full sun-part shade | Philadelphia County | C | very adaptable vine; compaction resistant; beautiful red fall color |
| shrub | <i>Physocarpus opulifolius</i> | ninebark | FACW | 3, 4, 5 | seasonal | H | N | 4-6' | 5-10' | full sun | Philadelphia County | C | compaction resistant |
| shrub | <i>Rhododendron maximum</i> | rosebay | FAC | 3, 4, 5 | seasonal | H | N | 4-25' | 4-25' | full sun-part shade | Philadelphia County | C | acidic soil, compaction sensitive |
| shrub | <i>Rhododendron periclymenoides</i> | pinxterbloom azalea | FAC | 4, 5, 6 | seasonal | M | N | 4-7' | 4-6' | full sun-part shade | Philadelphia County | C | pink flowers open before leaves are out; moist, acid, well-drained soil |
| shrub | <i>Rhododendron viscosum</i> | swamp azalea | FACW+ | (3, 4) 5 | saturated | M | N | 6-12' | 5-8' | full sun-part shade | Philadelphia County | C | compaction resistant, showy pink and white flowers |
| shrub | <i>Rhus aromatica</i> | fragrant sumac | | 5, 6 | no | M | U | 6-10' | 2-4' | full sun-part shade | Pennsylvania | C | spicy smelling leaves; good fall color |
| shrub | <i>Rhus copallina</i> | winged sumac | | 6 | no | H | M | 10-20' | 7-15' | full sun | Philadelphia County | C | compaction sensitive; flood intolerant |
| shrub | <i>Rhus glabra</i> | smooth sumac | | 4 (5, 6) | no | M | N | 9-15' | 9-15' | full sun | Philadelphia County | C | grows well in poor soils; flood and compaction intolerant |
| shrub | <i>Rhus typhina</i> | staghorn sumac | | 6 | no | H | M | 15-25' | 15-25' | full sun | Philadelphia County | C | flood intol., compaction sensitive |
| shrub | <i>Rosa carolina</i> | pasture rose | UPL | 5, 6 | no | H | M | 5-10' | 4-6' | full sun | Philadelphia County | C | compaction tolerant; flood intolerant |
| shrub | <i>Rosa palustris</i> | swamp rose | OBL | 2 (3, 4) | saturated | L | N | 4-6' | 6' | full sun | Philadelphia County | C | easy to establish |
| shrub | <i>Rosa virginiana</i> | wild rose | FAC | 3 (4, 5) | seasonal | L | N | 3-5' | 4-6' | full sun | Philadelphia County | C | very pretty; low maint; tolerant of poor soils |
| shrub | <i>Rubus allegheniensis</i> | common blackberry | FACU- | 4, 5, 6 | no | H | N | 6-12' | 3-6' | full sun-part shade | Philadelphia County | C | compaction tolerant; edible fruit |
| shrub | <i>Rubus occidentalis</i> | blackcap raspberry | | 6 | no | M | N | 5-11' | 3-4' | full sun-part shade | Pennsylvania | C | tasty fruits; purple & white stems provide winter interest; forms thickets |
| shrub | <i>Salix discolor</i> | pussy-willow | FACW | 3, 4, 5 | seasonal | L | N | 10-12' | 10-15' | full sun | Philadelphia County | C | compaction resistant, roots easily from cuttings |
| shrub | <i>Salix exigua</i> | sandbar willow | OBL | 3, 4, 5 | seasonal | M | L | 10-15' | 10' | full sun | Philadelphia County | C | found on sandy, gravelly bars or shores |
| shrub | <i>Salix sericea</i> | silky willow | OBL | 3, 4, 5 | seasonal | L | N | 10-15' | 10' | full sun-part shade | Philadelphia County | C | found in swamps, bogs, and on stream banks |
| shrub | <i>Sambucus canadensis</i> | american elder | FACW | (3, 4) 5, 6 | seasonal | M | M | 5-12' | 5-12' | full sun-shade | Philadelphia County | C | compaction resistant |
| shrub | <i>Spiraea alba var. latifolia, latifolia</i> | white meadowsweet | FAC+ | 2,3,4,5,6 | Seasonal | H | L | 3-4' | 3-5' | Full Sun | US | | |
| shrub | <i>Spiraea tomentosa</i> | steplebush | FACW- | 4, 5, 6 | seasonal | M | N | 3-6' | 3-6' | full sun | Philadelphia County | C | compaction resistant |
| shrub | <i>Vaccinium angustifolium</i> | low-bush blueberry | FACU- | 4, 5, 6 | seasonal | H | N | 2' | 1-3' | full sun-part shade | Philadelphia County | C | compaction sensitive; very sweet berries; very flood tolerant; needs acidic soil |
| shrub | <i>Vaccinium corymbosum</i> | highbush blueberry | FACW- | 3, 4, 5, 6 | seasonal | L | H | 8-12' | 6-12' | full sun-part shade | Philadelphia County | C | compaction resistant, acidic soils |
| shrub | <i>Vaccinium pallidum</i> | early low blueberry | FACU- | 4, 5, 6 | seasonal | H | U | 2-3' | 1-3' | full sun-part shade | Philadelphia County | C | white flowers; sweet edible fruit; wildlife value; compaction sensitive, very flood tol |
| shrub | <i>Vaccinium stamineum</i> | deerberry | FACU | 6 | no | H | N | 5-10' | 5-10' | full sun-part shade | Pennsylvania | C | white flowers; edible fruit; high wildlife value; dry to moist soil |
| shrub | <i>Viburnum acerifolium</i> | maple-leaved viburnum | UPL | 5, 6 | no | H | N | 2-4' | 4-6' | full sun-part shade | Philadelphia County | C | creamy white flowers; blue berries; dry to moist soil; wildlife value |
| shrub | <i>Viburnum dentatum</i> | southern arrow-wood | FAC | 3 (4, 5) | seasonal | M | M | 6-12' | 6-12' | full sun-part shade | Philadelphia County | C | compaction tolerant; heat resistant |
| shrub | <i>Viburnum lentago</i> | nannyberry | FAC | 4, 5, 6 | no | H | N | 6-12' | 15-18' | full sun-part shade | Philadelphia County | C | white flowers; sweet black berries; very adaptable; high wildlife value |

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|-------|--------------------------------|----------------------|------------------------------|--------------------|----------------------|--|---|----------------------|---------------|---------------------|---------------------|---|--|
| shrub | <i>Viburnum nudum</i> | possum haw | OBL | 3, 4, 5 | seasonal | L | N | 12-20' | 12-20' | full sun-part shade | Philadelphia County | C | white flowers; glossy leaves; high wildlife value; compaction resistant |
| shrub | <i>Viburnum prunifolium</i> | black haw | FACU | 4, 5, 6 | no | M | N | 6-12' | 15-20' | full sun-part shade | Philadelphia County | C | white flowers; black berries; very adaptable; high wildlife value |
| shrub | <i>Viburnum trilobum</i> | american cranberry | FACW | 3, 4, 5 | seasonal | M | N | 8-12' | 8-12' | full sun-part shade | Philadelphia County | C | white flowers; edible red berries; moist to boggy soil; high wildlife value |
| tree | <i>Acer rubrum</i> | red maple | FACW | 3 (4, 5) | seasonal | L | N | 30-50' | 40-60' | sun-shade | Philadelphia County | C | tolerant of many soils, tolerates acidic soil, rapid growth; suitable street tree |
| tree | <i>Acer saccharinum</i> | silver maple | FACW | 3 (4, 5) | seasonal | L | N | 35-70' | 50-70' | full sun-part shade | Philadelphia County | C | very tolerant of poor soils |
| tree | <i>Acer saccharum</i> | sugar maple | FACU | 4, 5, 6 | no | M | N | 30-60' | 60-75' | full sun-part shade | Philadelphia County | C | intolerant of crowding, pollution, and drought |
| tree | <i>Amelanchier laevis</i> | smooth serviceberry | | 4, 5, 6 | seasonal | M | M | 15-40' | 25' | full sun-part shade | Philadelphia County | C | compaction sensitive |
| tree | <i>Asimina triloba</i> | paw paw | FACU+ | 4, 5, 6 | no | L | N | 15-30' | 15-20' | full sun-part shade | Philadelphia County | C | unusual maroon flower; very large leaves; moist soil; compaction sensitive |
| tree | <i>Betula lenta</i> | sweet birch | FACU | 4, 5, 6 | seasonal | M | N | 40-60' | 40-55' | full sun-part shade | Philadelphia County | C | sensitive to soil compaction |
| tree | <i>Betula nigra</i> | river birch | FACW | (3, 4) 5 | seasonal | L | N | 40-60' | 40-70' | full sun | Philadelphia County | C | good bank stabilizer; acidic soils |
| tree | <i>Betula populifolia</i> | gray birch | FAC | (4, 5) 6 | seasonal | M | N | 10-20' | 20-40' | full sun | Philadelphia County | C | poor soils, short lived tree, early successional species |
| tree | <i>Carpinus caroliniana</i> | hornbeam | FAC | 3 (4, 5) 6 | seasonal | L | N | 20-35' | 50-75' | heavy shade | Philadelphia County | C | compaction sensitive |
| tree | <i>Carya cordiformis</i> | bitternut hickory | FACU+ | 5, 6 | seasonal | H | N | 50-75' | 50-75' | full sun-part shade | Philadelphia County | C | dry, moist, or wet soil; high wildlife value; good fall color; compaction tolerant |
| tree | <i>Carya glabra</i> | pignut hickory | FACU- | 4 (5, 6) | no | H | N | 35-50' | 50-60' | full sun-part shade | Philadelphia County | C | compaction sensitive, warm south-facing slopes |
| tree | <i>Carya ovata</i> | shagbark hickory | FACU | 4 (5, 6) | no | M | N | 50-70' | 75-100' | full sun-part shade | Philadelphia County | C | compaction tolerant, distinctive peeling bark |
| tree | <i>Celtis occidentalis</i> | hackberry | FACU | 4, 5, 6 | no | H | M | 40-60' | 40-60' | full sun-part shade | Philadelphia County | C | fruit persists into winter; deep-rooting; good street tree |
| tree | <i>Cercis canadensis</i> | eastern redbud | FACU- | 4, 5, 6 | no | H | N | 25-35' | 20-30' | full sun-part shade | Philadelphia County | C | not good in acidic soils; nitrogen fixer |
| tree | <i>Chamaecyparis thyoides</i> | atlantic white cedar | OBL | (1, 2) 3, 4 | saturated | N | N | 20' | 50' | part sun-shade | Pennsylvania | C | usually found in areas with fluctuating water tables |
| tree | <i>Cornus florida</i> | flowering dogwood | FACU- | 4, 5, 6 | no | M | N | 15-30' | 30-50' | sun-shade | Philadelphia County | C | understory tree; nice ornamental |
| tree | <i>Crataegus crus-galli</i> | cockspur hawthorn | FACU | 5, 6 | seasonal | H | M | 20-25' | 20-30' | full sun-part shade | Philadelphia County | C | keeps berries all winter; tolerant of many soils |
| tree | <i>Crataegus pruinosa</i> | frosted hawthorn | | 4, 5 | seasonal | M | U | 20-24' | 24' | full sun-part shade | Pennsylvania | C | white flowers; adaptable; high wildlife value |
| tree | <i>Fagus grandifolia</i> | american beech | FACU | 4 (5, 6) | no | H | N | 40-80' | 50-70' | sun-shade | Philadelphia County | C | compaction intolerant; intolerant of poorly-drained soils |
| tree | <i>Fraxinus americana</i> | white ash | FACU | 4 (5, 6) | no | L | N | 60-80' | 50-80' | full sun-part shade | Philadelphia County | C | well-drained soils; compaction tolerant |
| tree | <i>Fraxinus pennsylvanica</i> | green ash | FACW | 3, 4, 5 | seasonal | M | L | 35-50' | 50-60' | full sun | Philadelphia County | C | good bank stabilizer, compaction resistant; good street tree, but may develop surface roots with age |
| tree | <i>Gleditsia triacanthos</i> | honeylocust | | 3, 4, 5 | seasonal | H | L | 50-75' | 50-75' | full sun | Philadelphia County | C | gold fall color; very adaptable; compaction tolerant; taproot; good street tree |
| tree | <i>Ilex opaca</i> | american holly | FACU | 4, 5, 6 | no | M | L | 10-20' | 40-50' | full sun-part shade | Philadelphia County | C | acidic well drained soils; intolerant of wind |
| tree | <i>Juglans nigra</i> | black walnut | FACU | 5, 6 | seasonal | L | N | 75-100' | 50-75' | full sun | Philadelphia County | C | flood and compaction tolerant; yellow-green flowers give way to edible nuts |
| tree | <i>Juniperus virginiana</i> | eastern red cedar | FACU | 4, 5, 6 | no | H | M | 8-25' | 50-75' | full sun | Philadelphia County | C | flood and shade intolerant; very tolerant of many soils; beautiful reddish bark |
| tree | <i>Liquidambar styraciflua</i> | sweetgum | FAC | 3, 4, 5 | seasonal | L | M | 20-30' | 60-75' | full sun | Philadelphia County | C | heat and flood tolerant; outstanding fall color; good street tree |
| tree | <i>Liriodendron tulipifera</i> | tulip tree | FACU | 4, 5, 6 | no | M | L | 30-50' | 70-100' | full sun-part shade | Philadelphia County | C | heat and compaction sensitive; rapid growth |
| tree | <i>Magnolia virginiana</i> | sweetbay magnolia | FACW+ | 3, 4, 5 | seasonal | N | M | 10-20' | 10-20' | sun-shade | Philadelphia County | C | sandy-peaty acidic soil; attractive, fragrant flowers |
| tree | <i>Nyssa sylvatica</i> | sourgum | FAC | 2 (3, 4) 5 | seasonal | L | M | 20-30' | 30-50' | full sun | Philadelphia County | C | compaction tolerant; heat resistant |

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|------|------------------------------|---------------------|------------------------------|--------------------|----------------------|--|---|----------------------|---------------|---------------------|---------------------|---|--|
| tree | <i>Pinus rigida</i> | pitch pine | FACU | 4, 5, 6 | no | M | M | 30-50' | 40-60' | full sun | Philadelphia County | C | acidic soils; compaction sensitive; heat resistant |
| tree | <i>Pinus strobus</i> | white pine | FACU | 4, 5, 6 | no | N | N | 20-40' | 50-100' | full sun-part shade | Philadelphia County | C | heat and compaction sensitive; long-lived; tolerant of poor soils |
| tree | <i>Pinus virginiana</i> | scrub pine | | 5, 6 | no | H | N | 10-20' | 15-40' | full sun | Philadelphia County | C | tolerant of poor sterile soils; beautiful golden foliage in winter |
| tree | <i>Platanus occidentalis</i> | sycamore | FACW- | 3, 4, 5 | seasonal | L | N | 75-100' | 75-100' | full sun-part shade | Philadelphia County | C | compaction resistant |
| tree | <i>Populus deltoides</i> | cottonwood | FACU- | 3, 4, 5 | seasonal | L | L | 35-60' | 75-100' | full sun | Philadelphia County | C | compaction resistant; pioneer species |
| tree | <i>Populus grandidentata</i> | large-toothed aspen | FACU- | 4, 5, 6 | no | L | N | 20-30' | 50-70' | full sun | Philadelphia County | C | compaction sensitive; pioneer species |
| tree | <i>Populus tremuloides</i> | quaking aspen | FACU | 4, 5, 6 | seasonal | L | N | 20-30' | 35-50' | full sun | Philadelphia County | C | compaction sensitive; pioneer species |
| tree | <i>Prunus serotina</i> | black cherry | FACU | 4, 5, 6 | no | M | N | 30-60' | 50-60' | full sun | Philadelphia County | C | compaction intolerant; pioneer species |
| tree | <i>Quercus alba</i> | white oak | FACU | 4, 5, 6 | no | M | M | 50-80' | 50-80' | full sun-part shade | Philadelphia County | C | compaction very sensitive; acidic soils; long lived |
| tree | <i>Quercus bicolor</i> | swamp white oak | FACW+ | 2, 3, 4, 5 | seasonal | L | L | 50-60' | 50-60' | full sun-part shade | Philadelphia County | C | compaction resistant |
| tree | <i>Quercus cocinea</i> | scarlet oak | | 5, 6 | no | M | N | 40-50' | 50-75' | full sun | Philadelphia County | C | compaction intolerant, long lived, nice fall color |
| tree | <i>Quercus falcata</i> | southern red oak | FACU- | 6 | no | H | N | 50-60' | 70-80' | full sun-part shade | Philadelphia County | C | high winter wildlife value; found in dry to moist woods |
| tree | <i>Quercus marilandica</i> | blackjack oak | | 5, 6 | no | H | L | 15-40' | 30-40' | full sun | Philadelphia County | C | very flood intolerant; compaction sensitive |
| tree | <i>Quercus palustris</i> | pin oak | FACW | (3) 4, 5, 6 | seasonal | L | N | 40-60' | 60-70' | full sun | Philadelphia County | C | acidic well drained soils; compaction resistant; good street tree |
| tree | <i>Quercus phellos</i> | willow oak | FACU- | (3, 4) 5 | seasonal | N | N | 25-50' | 40-60' | full sun-part shade | Philadelphia County | C | acidic soils; tolerates poor drainage; compaction tolerant |
| tree | <i>Quercus rubra</i> | red oak | FACU- | 5, 6 | no | M | M | 50-75' | 60-75' | full sun | Philadelphia County | C | acidic soils; compaction and pollution tolerant |
| tree | <i>Quercus velutina</i> | black oak | | 5, 6 | no | L | N | 40-50' | 50-60' | full sun-part shade | Philadelphia County | C | compaction intolerant; acidic soils |
| tree | <i>Salix nigra</i> | black willow | FACW+ | (2, 3) 4 | seasonal | L | N | 20-35' | 35-50' | full sun | Philadelphia County | C | compaction resistant |
| tree | <i>Sassafras albidum</i> | sassafras | FACU | 6 | no | H | N | 25-40' | 30-60' | full sun-part shade | Philadelphia County | C | compaction intolerant; pioneer species; flood intolerant |
| tree | <i>Tilia americana</i> | basswood | FACU | (4, 5) 6 | no | M | N | 30-50' | 60-80' | full sun-part shade | Philadelphia County | C | compaction sensitive; fragrant pale yellow spring flowers |
| tree | <i>Ulmus americana</i> | american elm | FACW- | (3) 4, 5, 6 | seasonal | H | H | 50-75' | 60-90' | full sun | Philadelphia County | C | rare due to Dutch elm disease; new resistant stock; graceful vase form |
| tree | <i>Ulmus rubra</i> | slippery elm | FAC- | (3) 4, 5, 6 | seasonal | H | H | 50-75' | 60-90' | full sun-part shade | Philadelphia County | C | seeds are eaten by birds and small mammals; shade tolerant |

*** NATIONAL WETLAND INDICATOR (probability of occurring in a wetland):**

| | | |
|-------------|--|--------|
| <i>OBL</i> | Obligate wetland species | 99% |
| <i>FACW</i> | Facultative wetland species | 67-99% |
| <i>FAC</i> | Facultative species | 34-66% |
| <i>FACU</i> | Facultative upland species | 1-33% |
| <i>UPL</i> | Upland species | 1% |
| (+) | Indicates that the species occurs in the higher portion of the range | |
| (-) | Indicates that the species occurs in the lower portion of the range | |

Those species with no wetland indicator are virtually intolerant of flooding or prolonged soil saturation during the growing season.

**** HYDROLOGIC ZONES**

Zone 1: Open water - Permanent pool (12 inches - 6 feet)

This zone is best colonized by submergent plants, if at all. This deep water zone is not usually planted for several reasons: there are few species that can grow in this zone, and many are not commercially available; open water areas provide unique habitat; and deep water aquatic plants may clog the stormwater facility outlet structure. The benefits of planting in this zone include the absorption of nutrients in the water column; enhanced sediment deposition; improved oxidation; and the creation of additional habitat.

Zone 2: Shallow water terrace/Aquatic bench (6 inches -1 foot)

This zone offers ideal conditions for a wide variety of emergent wetland plants. These areas typically fringe the ponding area and are permanently inundated.

Zone 3: BMP Fringe - Low marsh (0-6 inches regular inundation)

This zone is typically the shoreline of a pond or wetland - its width determined by the design slope. This zone is usually inundated except during periods of drought and is the interface between the emergent wetland plantings and the upland plantings. Plants must be able to withstand periods of inundation as well as periods of drought and should have some capacity for slope stabilization.

Zone 4: BMP Fringe - High Marsh (periodic inundation, saturated soils)

This zone extends upslope from zone 3 and may be inundated after storms. It constitutes the majority of the temporary extended detention area. Plants selected should be able to withstand periodic inundation after storms as well as significant drought during the summer.

Zone 5: Floodplain terrace (infrequent inundation, temporarily saturated soils)

Zone 5 is infrequently saturated by floodwaters that quickly recede in a day or less. Plants should be able to withstand infrequent inundation as well as drought and should offer some slope stabilization.

Zone 6: Upland (never inundated)

This zone extends above the maximum design water surface elevation. Plant selection should be based on local soil and light conditions, and on the amount of available space for plantings.

REFERENCES:

The Plants of Pennsylvania: An Illustrated Manual , Ann Rhoads, Timothy Block, Anna Anisko
Fairmount Park Commission: Selected Trees & Shrubs Native to Philadelphia County (brochure)
Fairmount Park Commission: Selected Wildflowers, Ferns, Grasses, Sedges, & Rushes Native to Philadelphia County (brochure)
Website: U.S. Department of Agriculture, Natural Resources Conservation Service: PLANTS Database <http://plants.usda.gov/>
Website: The Kemper Center for Home Gardening: PlantFinder <http://www.mobot.org/gardeninghelp/plantfinder/Alpha.asp>
Website: Plants of the North: <http://www.rook.org/earl/bwca/nature/flora.html>
Website: NC State University Plant Factsheets <http://www.ces.ncsu.edu/depts/hort/consumer/factsheets/index.html>
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