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PLANT LIST

Booklet # 3



Landscaping For Water Quality in Michigan Plant Lists

Welcome to the third booklet in the series Landscaping for Water Quality. The first booklet in the series, An Overview, introduced

the concepts and rationale for considering water quality when planting your landscape, and then walked you through the steps of evaluating your property and its needs.

The second booklet, *Designing Your Garden and Sample Designs*, guides you through planning and design. It offers several examples of gardens utilizing beautiful and beneficial plant species.

Before utilizing this third booklet, it is suggested that you read about the concepts in, *An Overview*, and plan your design using one or more of the ideas in the second booklet in this series, *Designing Your Garden and Sample Designs*.

What Plants do I use for MY Garden?

The specific plants you choose to use is entirely a personal choice. In this booklet we offer a variety of plants from which to choose. Be flexible when choosing your plants. You will probably design your landscape with a few specific plants in mind, but when you go to the nursery to buy them, you may have to substitute. Take this plant list booklet with you. Work with the nursery to reach a solution that will give you the effect you desire.

For the purpose of these publications, the definition of native plants is: "Plants that were found in this region prior to European settlement". Native species are well suited to the local quirks of nature and fulfill the functions desired to have a successful water quality garden. Many species of plants that are not native to Michigan also provide excellent water quality benefits. Using a mixture of these cultivars with natives is a great way to start.

As a note of caution, when using non-native cultivars, make sure they are not invasive species that could spread beyond your garden and cause environmental damage. (Example: purple loosestrife)

The specific functions to look for in a plant species is ultimately more important than whether or not the plant is native to Michigan. Those with deep root systems, ability to filter or absorb pollutants, have little or no need for fertilization or sprinkling and are nearly maintenance free are the ones to choose.

The plants in this booklet are divided into several categories. Each species will have specific characteristics listed, and in addition, short comments to help you make your decisions. This listing is in no way comprehensive. There are many other species that are suitable for water quality gardens which were not included in this list because of space restrictions. You can consult with your local native plant nursery for more suggestions, or explore the resource list suggested at the end of this booklet.

A quick note about the categories:

Plant Names

Because there is no standardization of common names of plants, look for the plant tags at the time of purchase. The tags will list the scientific name and the plant characteristics. This is helpful in both securing the exact plant you seek as well to identify good substitutions, if necessary.

Plant Height

Influences such as water availability, sun exposure and proximity to other plants can affect plant height. In addition, you can physically limit plant height through pruning. Many of the shrubs can be utilized as trees if desired.

Exposure

The symbols used are: \bigcirc = full sun, \blacksquare = partial sun, \blacksquare = shade.

Native

A star (*) in this column indicates that the species is native to Michigan.

Wildflowers

PLANT	NAMES	Height (ft)	Bloom Time	Flower Color	Water Needs	Exposure	Native	Notes
Botanical	Common							
Achillea filipendula	Moonshine Yarrow	2-4	June-Sept	Yellow	Med	0		Resistant to deer; aromatic leaves; use in dried flower arrangements.
Achillea millefolium	Yarrow	1-4	June-Sept	White	Med-Dry	0	*	Can be aggressive; drought tolerant.
Acorus calamus	Sweet Flag	2-5	May-Jul	Yellow	Wet	0	*	Wildlife benefits; medicinal uses.
Actaea pachypoda	Baneberry	1-3	May-Jun	White	Med	•1	*	Flowers followed by white berries; attractive shade plant.
Alchemilla mollis	Lady's Mantle	1-2	May-Aug	Yellow	Med	0		Interesting as a groundcover; dried flower arrangement use; clump-forming.
Alisma subcordatum	Water Plantain	2-3	June-Sept	White	Wet	0		Must be kept in moist to flooded areas; waterfowl food source; fast grower.
Allium cernuum	Nodding Onion	1-2	May-Aug	Pink	Med-Dry	0	*	Best in sandy soils; clump-forming; attractive garden plant.
Amorpha canescens	Lead Plant	2-3	May-Aug	Purple	Med-Dry	0	*	Attracts butterflies; spike flowers; drought tolerant; longlived.
Anemone canadensis	Canada Anemone	1-2	May-July	White	Med-Wet	0	*	Spreads aggressively; delicate flower.
Anemonella thalictroides	Rue Anemone	0.5-1	April-June	White	Med	•(*	Long-lasting spring blooms; great addition to shade gardens; groundcover.
Aquilegia canadensis	Columbine	2-3	May-Jul	Variety	Med	001	*	Deer deterrent; attracts hummingbirds; best in partial shade gardens.
Arisaema triphyllum	Jack-in-the-Pulpit	1-2	April-June	Purple	Med-Wet	•(*	Interesting plant in shade gardens.
Asarum canadense	Wild Ginger	0.5-1	April-May	Red	Med-Wet	•(*	Medicinal uses; groundcover.
Asclepias incarnata	Marsh Milkweed	1-2	Jun-Sept	Pink	Med-Wet	0	*	Deep root; clump-forming; attract butterflies; attractive garden plant.
Asclepias syriaca	Common Milkweed	1-6	May-Aug	Pink	Med-Dry	(*	Medicinal purposes; attract butterflies; poisonous when ingested; sandy areas.
Asclipias tuberosa	Butterfly Weed	1-3	Jun-Aug	Orange	Med-Dry	0	*	Gorgeous bed plant; attracts butterflies; medicinal uses; poisonous if ingested; can be aggressive.
Aster laevis	Smooth Aster	2-4	Aug-Oct	Variety	Med-Dry	0	*	Grows well in sand; blooms late; attracts butterflies.
Aster novae-angliae	New England Aster	3-6	Aug-Oct	Purple	Med	0	*	Medicinal uses; attracts butterflies; rabbit deterrent; prefers sand.
Aster umbellatus	Tall Flat Top White Aster	3-7	Aug- Sept	White	Med-Wet	0	*	Attracts butterflies and birds; wonderful garden plant.
Astilbe arendsii	Pink Astilbe	3-5	June-July	Pink	Med-Wet	•1		Gorgeous floral spike; dark green foliage; great addition to shade beds.
Belamcanda chinensis	Blackberry Lily	1-2	Aug-Sept	Orange	Med	0		Delicate flowers followed by black berry seeds; drought tolerant.
Calla palustris	Wild Calla	0.5-2	June-July	White	Wet	0	*	Best in calm water; beautiful for water gardens.
Caltha palustris	Marsh Marigold (Cowslip)	0.5-2	March-May	Yellow	Wet	0	*	Attracts butterflies; early flower.
Campanula americana	Tall Bellflower	2-6	Jul-Oct	Blue	Med	001	*	Fabulous star shaped flowers; easily grown.
Campanula rotundifolia	Harebell	1-1.5	July-Sept	Blue	Med-Dry	0	*	Attracts butterflies; fond of sandy soil; gorgeous garden plant.
Cassia hebecarpa	Wild Senna	4-6	Jul-Aug	Yellow	Med-Wet	0	*	Attracts birds; clay-loving; brilliant color addition to any native garden.
Chelone glabra	Turtlehead	1-3	July-Oct	Variety	Med-Wet	0	*	Unique flower; prefers a compost mulch.
Claytonia virginica	Spring Beauty	0.5	March-May	Pink	Med	0	*	Clump forming ground cover; can be aggressive; early bloom.
Coreopsis tripteris	Tall Coreopsis	3-6	July-Sept	Yellow	Med-Dry	0	*	Tolerant to heat, humidity and drought; a colorful addition to a bed.
Coreopsis verticillata	Moonbeam Coreopsis	1-3	June-Sept	Yellow	Med-Dry	0		Delicate foliage; low maintenance; drought tolerant; tolerates poor soils.
Dalea purpurea	Monkeyflower	1-3	May-Sept	Purple	Med	0	*	Wildlife benefits; medicinal uses; very attractive.
Echinacea purpurea	Purple Coneflower	1-3	June-Aug	Purple	Med-Dry	0	*	Medicinal uses; popular flower garden plant; easy to grow.
Epilobium angustifolium	Fireweed	2-6	Jun-Aug	Pink	Med-Wet	0	*	Attracts butterflies; striking flower; medicinal uses; aggressive in wet areas; prefers disturbed ground.
Eryngium yuccifolium	Rattlesnake Master	2-6	June-Sept	White	Wet-Dry	0	*	Attractive plant; used in prairie restoration; beneficial to wildlife.
Eupatorium maculatum	Joe-Pye Weed	4-6	Jul-Sept	Pink	Med-Wet	0	*	Clump-forming; attracts butterflies.
Eupatorium perfoliatum	Boneset	4-6	Aug-Oct	White	Med-Wet	0	*	Tolerant of sandy and clay soils; clump-forming; late blooms.
Eupatorium purpureum	Purple Joe-Pye Weed	5-7	Aug-Sept	Pink	Med	0	*	Clump-forming; fragrant; attract butterflies; attractive addition for a garden.
Eupatorium rugosum	White Snakeroot	1-5	July-Oct	White	Dry	001	*	Beautiful cut flower; poisonous if ingested.
Filipendula rubra	Queen of the Prairie	6-8	Jul-Aug	Pink	Med-Wet	ા	*	Striking addition to the garden; use in clay soils; fragrant; used in wet areas.

Wildflowers - continued

PLANT N	NAMES	Height (ft)	Bloom Time	Flower Color	Water Needs	Exposure	Native	Notes
Botanical	Common							
Fragaria vesca	Wild Strawberry	0.5	April-June	White	Med-Dry	0	*	Ground cover; beneficial to wildlife; edible fruit.
Geranium himalayanse	Johnson's Blue Geranium	1-2	May-June	Blue	Med	0		Easily grown; also called Cranesbill; clump-forming.
Geranium maculatum	Wild Geranium	1-2	April-May	Pink	Med	001	*	Clump-forming; great addition to shade beds.
Helenium autumnale	Sneezeweed	2-5	July-Oct	Yellow	Med-Wet	0	*	Avoid fertilizer; bright yellow addition to gardens.
Helianthus giganteus	Tall Sunflower	3-12	July-Oct	Yellow	Med-Wet	(*	Tall, bright addition to a partial shade garden; adds color.
Heliopsis helianthoides	False Sunflower	2-5	June-Sept	Yellow	Med-Dry	0	*	Easily grown; native to the Eastern U.S.; grows well in clay.
Hemerocallis "Happy Returns"	Happy Returns Daylily	0.5-2	May-Aug	Yellow	Med	0		Heat tolerant; long flower season; gorgeous addition to any bed.
Hepatica americana	Round-Lobed Hepatica	0.5-1	April-May	White	Med	•1	*	Delicate star shaped flower; great groundcover in shade beds.
Hosta fortunei	Golden-Edged Hosta	1-2	June-Aug	Purple	Med	•1		Beautiful foliage; great addition to shade gardens; mass for groundcover.
Hosta plantaginea	August Lily Hosta	2	Aug	White	Med	•1		Shiny foliage; fragrant flowers; great planted close together as groundcover.
Hydrophyllum virginianum	Virginia Waterleaf	1-3	May-Aug	White	Med-Wet	•1	*	Medicinal properties.
Iris versicolor	Blue Flag (Wild Iris)	2-3	May-July	Blue	Med-Wet	0	*	Gorgeous perennial; attracts butterflies; does well in shallow water.
Liatris aspera	Rough Blazing Star	2-5	Aug-Sept	Purple	Med-Dry	0	*	Drought tolerant; attracts butterflies; blooms late in season.
Liatris spicata	Dense Blazing Star	1-3	July-Sept	Purple	Med	(*	Drought tolerant; used in cut flower arrangements; feathery plume attracts butterflies.
Lobelia cardinalis	Cardinal Flower	2-6	July-Oct	Red	Med-Wet	C	*	Gorgeous bright red stalk attracts humming birds and butterflies; prefers part shade.
Lobelia siphilitica	Great Blue Lobelia	1-4	July-Sept	Blue	Med-Wet	0	*	Easily grown; attracts hummingbirds; grows well in a variety of soils.
Lupinus perennis	Lupine	1-2	May-June	Variety	Med-Dry	C (*	Attracts rare Karner Blue butterfly; attractive flower and foliage.
Mimulus ringens	Monkeyflower	1-3	June-Sept	Purple	Med-Wet	0	*	Great for wet areas; interesting flower shape.
Mitchella repens	Partridgeberry	<1	April-July	Pink	Med-Dry	•	*	Produces red fruit; medicinal uses; food source for wildlife; groundcover.
Monarda fistulosa	Wild Bergamot, Bee Balm	2-4	June-Sept	Purple	Med-Dry	0	*	Aromatic; attractive to butterflies and hummingbirds; medicinal uses; can be aggressive.
Monarda punctata	Horsemint	1-3	Jul-Sep	Yellow	Med-Dry	0	*	Attractive to hummingbirds; likes sandy soil.
Nymphaea tuberosa	White Water Lily	1-5	Jul-Aug	White	Wet	0	*	Beautiful aquatic plant; tuber; floating leaves and flower; beneficial to wildlife.
Oenothera biennis	Common Evening Primrose	2-5	June-Oct	Yellow	Med	0	*	Medicinal uses; used in dried flower arrangements; attracts hummingbirds; food source for wildlife; can be aggressive.
Peltandra virginica	Arrow Arum	1-2	May-July	Yellow	Wet	061	*	Salt tolerant; variable pH tolerant; can grow in water; used in buffer zones; beneficial to wildlife.
Penstemon digitalis	Foxglove Beard Tongue	3-4	May-June	White	Med-Dry	○●1	*	Ornamental; beautiful flower and foliage; attractive to butterflies and hummingbirds.
Penstemon hirsutus	Hairy Beard Tongue	1-3	June-July	Purple	Med-Dry	0	*	Versatile plant; low grower; early summer bloomer.
Phlox divaricata	Woodland Phlox	1-3	April-June	Purple	Med	001	*	Can be aggressive; gorgeous flower.
Podophyllum peltatum	May Apple	1-2	April-May	White	Med	•1	*	Medicinal uses; dormant in summer; early bloomer; produces a yellow fruit.
Polygonatum biflorum	True Solomon Seal	1-3	May-June	White	Med-Wet	•1	*	Bell-shaped flowers; black berries in fall; beneficial to wildlife.
Pontederia cordata	Pickerelweed	2-4	May-Oct	Blue	Wet	ા	*	Provide wave buffering along shorelines; wildlife benefits; grows in water.
Potentilla simplex	Common Cinquefoil	0.5-1.5	April-June	Yellow	Dry	O	*	Groundcover; dainty flower; attracts butterflies; early blommer.
Ratibida pinnata	Yellow Coneflower	3-5	Jul-Sep	Yellow	Med-Dry	0	*	Wildlife benefits; strong competitor; long lived; attracts butterflies; prefers sandy or clay soils.
Rudbeckia hirta	Black-Eyed Susan	1-3	Jun-Sep	Yellow	Med-Dry	ા	*	Erosion control plant; wildlife benefits; biennial; does well in sandy soils.
Rudbeckia laciniata	Cut-Leaved Coneflower	3-10	Aug-Sept	Yellow	Med-Wet	0	*	Easily grown; great for wet areas; grows well in a variety of soils.

Wildflowers - continued

PLANT	Γ NAMES	Height (ft)	Bloom Time	Flower Color	Water Needs	Exposure	Native	Notes
Botanical	Common							
Rudbeckia triloba	Three-Lobed Coneflower	2-5	July-Oct	Yellow	Med	0	*	Attracts butterflies; great for cut flower arrangements; long blooming season.
Sagittaria latifolia	Arrowhead	1-4	July-Sept	White	Wet	0	*	Aquatic plant; edible; wildlife food source; great for water gardens.
Sanguinaria canadensis	Bloodroot	0.5-1	March-April	White	Med	•1	*	Red juice from roots; early flower; medicinal uses.
Saururus cernuus	Lizard's Tail	1-2	June-Sept	White	Wet	001	*	Great for water gardens; fragrant; aggressive in optimum conditions.
Sedum "Autumn Joy"	Autumn Joy Sedum	1-2	September	Pink	Med-Dry	0		Also called Stonecrop; succulent; drought tolerant; not tolerant of clay.
Sedum "Vera Jameson"	Purple Leaf Sedum	1	Aug-Sept	Pink	Med-Dry	0		Ornamental foliage; succulent; drought resistant; clump-forming.
Silphium integrifolium	Rosinweed	3-6	Jul-Sep	Yellow	Med	0	*	Threatened species in Michigan; wildlife food source; attract butterflies.
Silphium laciniatum	Compass Plant	3-10	June-Sept	Yellow	Med-Dry	0	*	Threatened species in Michigan; tremendous taproot; grows well in clay.
Silphium perfoliatum	Cup Plant	4-8	Jul-Sep	Yellow	Med-Wet	0	*	Attracts hummingbirds and butterflies; beneficial to birds.
Sisyrinchium angustifolium	Blue-Eyed Grass	0.5-2	May-July	Blue	Med	0	*	Clump-forming; grass-like foliage.
Sium suave	Water Parsnip	2-6	July-Sept	White	Wet	0	*	Aquatic plant; showy in bloom.
Stachys lanata	Lamb's Ear	0.5-2	June-July	Purple	Med-Dry	○●1		Furry leaves; drought resistant; can be aggressive; attracts hummingbirds.
Stylophorum diphyllum	Celandine Poppy	1-2	May-June	Yellow	Med-Wet	•1	*	Requires consistantly moist soil; blooms repeatedly.
Thalictrum dasycarpum	Purple Meadow Rue	3-6	Jun-Jul	White	Med-Wet	0	*	Attractive foliage and flowers; early summer bloom; may need staking.
Thalictrum dioicum	Early Meadow Rue	1-2	April-June	White	Med	001	*	Early spring blooms; attractive foliage.
Tiarella cordifolia	Foamflower	1-2	May-June	White	Med	•1	*	Spike of flowers; attractive foliage turning red in autumn.
Tradescantia ohiensis	Spiderwort	2-4	June-July	Blue	Med-Dry	0	*	Aggressive; wildlife cover.
Trillium grandiflorum	White Trillium	1-2	May-June	White	Med-Dry	•1	*	Long lived; medicinal uses; white flower turns pink with age.
Verbena hastata	Blue Vervain	3-6	Jul-Sep	Blue	Med-Wet	0	*	Attracts butterflies; wonderful for cut flower arrangements; can be aggressive.
Verbena stricta	Hoary Vervain	2-4	July-Sept	Blue	Med-Dry	0	*	Attracts butterflies; great for cut flower arrangements; drought resistant.
Vernonia missurica	Missouri Ironweed	3-10	Aug-Oct	Purple	Med	ા	*	Easily grown; attracts butterflies; late summer blooms.
Veronicastrum virginicum	Culver's Root	2-6	June-Sept	Pink	Med	001	*	Versatile plant; great for cut flower arrangements.
Zizia aurea	Golden Alexanders	1-3	Apr-Jun	Yellow	Med-Wet	ા	*	Can be aggressive; interesting addition to gardens.

Vines

PLANT	NAMES	Height (ft)	Bloom Time	Flower Color	Water Needs	Exposure	Native	Notes
Botanical	Common							
Amphicarpa bracteata	Hog Peanut	2-8	Aug-Sept	Pink	Med	•(*	Pea-like flowers; delicate twining vine.
Celastrus scandens	American Bittersweet	1-20	May-June	Yellow	Med-Dry	0	*	Needs support; attractive fruit; poisonous fruit; aids in erosion control; wildlife food source; aggressive.
Clematis virginiana	Virgins' Bower	10-20	July-Sept	White	Med	\circ	*	Aggressive; fragrant; needs support.
Menispermum canadense	Moonseed	8-10	May-July	White	Med-Wet	0	*	Medicinal uses; poisonous if ingested; form black berries.
Parthenocissus quinquefolia	Virginia Creeper	1-60	May-June	Green	Med-Dry	0 •1	*	Useful in erosion control and watershed protection; beneficial to wildlife; ornamental vine; salt tolerant.

Grasses, Sedges, Rushes

PLAN	T NAMES	Height (ft)	Water Needs	Exposure	Native	Notes
Botanical	Common					
Andropogon gerardii	Big Blue Stem	3-8	Med-Dry	0	*	Erosion control use; preferred by livestock; beneficial to birds.
Carex comosa	Bristly Sedge	2-5	Med-Wet	0	*	Waterfowl food source; long-lived.
Carex grayi	Gray's Sedge	2-3	Med-Wet	0	*	Ornamental grass; interesting flower form; easily grown.
Carex hystericina	Porcupine Sedge	1-2	Wet	0	*	Long-lived; clump-forming; tufted.
Carex lacustris	Lake Sedge	2-5	Wet	0	*	Can grow in shallow standing water; adds color to waters edge.
Carex stricta	Tussock Sedge	1-3	Wet	0	*	Forms bluish-green tussocks; attracts butterflies; aquatic grass.
Elymus canadensis	Canada Wild Rye	2-5	Med-Dry	(*	Cool season, clump-forming ornamental grass; wheat/rye like spikes that remain well into winter; excellent ground cover for dry, sunny slopes.
Elymus hystrix patula	Bottle Brush Grass	2-3	Med-Dry	0	*	Ornamental grass; bristly flower heads resemble a bottle brush.
Elymus riparius	Riverbank Wild Rye	1-4	Med-Wet	001	*	Slightly nodding, long, wide, wheat like spikes; beneficial to butterflies.
Elymus virginicus	Virginia Wild Rye	3-5	Med-Wet	001	*	Mixes well with Bottle Brush grass and tall woodland flowers; excellent for wooded openings and forest edges.
Equisetum fluviatile	Water Horsetail	1-3	Wet	0	*	Fast spreading; bank stabilizer; have hollow, jointed stems.
Juncus effusus	Corkscrew rush	1-2	Wet	0	*	Easily grown in wet soils, including standing water; corkscrew stems can be cut and used in floral arrangements.
Juncus tenuis	Roadside Rush	1-2	Med	ા	*	Tolerates droughts; tolerates compacted soil; may be used as a groundcover.
Juncus torreyi	Torrey's Rush	1-3	Med-Wet	0	*	Tolerates droughts; has interesting "seed balls" at tips of stems.
Panicum virgatum	Switch Grass	3-6	Med-Wet	0	*	Clump-forming ornamental grass; erosion control; establishes readily from seed.
Schizachyrium scoparium	Little Blue Stem	2-4	Med-Dry	0	*	Ornamental grass; distinctive "blue" coloration at the base of the stems; attractive reddish brown fall color.
Scirpus atrovirens	Bulrush	3-5	Wet	0	*	Soil stabilizer; tolerates floods or drought for short periods; can be invasive.
Sorghastrum nutans	Indian Grass	3-4	Med-Dry	0	*	Showy; clump-forming; often used in wind erosion control; tolerates a moderate amount of salt; may become invasive if not maintained.

Ferns

PLANT	NAMES	Height (ft)	Bloom Time	Flower Color	Water Needs	Exposure	Native	Notes
Botanical	Common				_			
Adiantum pedatum	Maidenhair Fern	1-2			Med-Wet	•1	*	Clump-forming; ornamental fern; good for shade borders.
Athyrium filix-femina	Lady Fern	1-3			Med	•1	*	Attractive in shade beds.
Dryopsteris celsa	Log Fern	3-4			Med-Wet	•1	*	Dark green fronds with contrasting dark stripes; attractive foliage for shade gardens.
Dryopteris goldiana	Goldie Fern	3-5			Med	•1	*	Large fern; attractive in shady garden borders.
Matteuccia struthiopteris	Ostrich Fern	3-5			Med-Wet	•1	*	Excellent landscape fern; large in size.
Onoclea sensibilis	Sensitive Fern	3-4			Med-Wet	•(*	Aggressive in optimum conditions; bright green color; drought and frost sensitive.
Osmunda cinnamomea	Cinnamon Fern	2-3			Med-Wet	•1	*	Excellent for wet areas; yellow in autumn.
Osmunda claytoniana	Interrupted Fern	3-4			Med-Wet	•1	*	Easily grown; use in shaded borders and along stream edge.
Osumunda regalis	Royal Fern	2-4			Med-Wet	•1	*	Clump-forming; yellow in autumn; excellent in wet areas.
Polystrichum acrostichoides	Christmas Fern	1-2			Med-Dry	•1	*	Grows in fountain-like clumps; utilized for erosion control.
Thelypteris noveboracensis	New York Fern	1-2			Med	•1	*	Aggressive.

Shrubs

PLANT	NAMES	Height (ft)	GROWTH RATE	Flower color	Water Needs	Exposure	Native	Notes
Botanical	Common			00.0.				
Alnus rugosa	Speckled Alder	15-25	Med	Brown	Med	0	*	Soil stabilizer; acid to neutral conditions; fixes nitrogen.
Amelanchier arborea	Serviceberry	25	Med		Med-Dry	0	*	Excellent landscape plant with dark green foliage.
Ceanothus americanus	New Jersey Tea	3-4	Slow	White	Dry	0	*	Taprooted, do not try to transplant; drought tolerant.
Celtis occidentalis	Hackberry	25	Med		Med-Dry	0	*	Easily transplanted; can grow in dry soils; withstands grime of cities.
Cephalanthus occidentalis	Buttonbush	5-12	Med	White	Med-Wet	0	*	Used for wetland restoration; exceptional wildlife benefits; best in wet conditions.
Cercis canadensis	Redbud	16	Slow	Purple	Dry	001	*	Flowers bloom in early spring; will grow taller in shade conditions.
Cornus amomum	Silky Dogwood	7	Med	White	Wet	0	*	Used for field windbreaks and wildlife borders; used for streambank protection; bright red stems fall, winter and spring.
Cornus foemina	Gray Dogwood	6-15	Med	White	Med-Wet	0	*	Utilized by several birds; not typically stocked in nurseries.
Cornus stolonifera	Red-Osier Dogwood	6-9	Med	White	Wet	0	*	Streambank protection; habitat improvement; slope stabilization; plant in masses.
Corylus americana	Hazelnut	3-13	Med	Brown	Med-Dry	0	*	Beneficial to a variety of wildlife; medicinal uses; ornamental shrub.
Hydrangea arborescens	Annabelle Hydrangea	3-6	Fast	White	Med	0		Best in partial shade; clump-forming; deciduous shrub; medicinal uses.
Juniperus horizontalis	Creeping Juniper	1-2	Med-Fast		Med	0	*	Adaptable; withstands hot, dry situations; produces dark blue berries; ornamental evergreen shrub.
Lindera benzoin	Spicebush	3-16	Slow	Yellow	Med-Wet	0	*	Beneficial to wildlife; in partial shade leaves turn bright yellow in autumn.
Physocarpus opulifolius	Eastern Ninebark	3-10	Slow	White	Med	0	*	Ornamental shrub; beneficial to wildlife; used for erosion control on banks.
Prunus virginiana	Chokecherry	20-30	Fast	White	Med	0	*	Can grow in acidic to alkaline soils; ornamental small tree or shrub.
Ptelea trifoliata	Hop Tree	20	Slow		Wet	0	*	Shade tolerant; seeds and foliage have an unpleasant odor.
Ribes americanum	Wild Black Currant	3-5	Med	Yellow	Med-Wet	0	*	Can be invasive; wildlife food source; ornamental shrub.
Rosa carolina	Carolina Rose	3-6	Med	Pink	Wet-Dry	0	*	Better resistance to disease than most hybrid roses.
Rosa palustris	Swamp Rose	3-7	Med	Pink	Med-Wet	0	*	Attractive throughout the year; food source for wildlife.
Salix exigua	Narrowleaf Willow	3-20	Fast	Yellow	Wet	0	*	Used for erosion control and restoration practices; beneficial to wildlife; can be invasive.
Salix interior	Sandbar Willow	6-20	Med-Fast	Brown	Med-Wet	0	*	Short-lived; forms colonies; does well in flooded areas.
Sambucus canadensis	American Elderberry	6-26	Fast	White	Med-Wet	0	*	Edible fruit; medicinal uses; beneficial to wildlife; blue berry.
Sambucus racemosa	Red-Berried Elder	8-20	Fast	White	Med-Wet	0	*	Red berries; raw fruits are toxic.
Spiraea alba	Meadowsweet	2-5	Med	White	Wet	0	*	Fragrant; good in low spots or boggy areas.
Spiraea bumalda	Anthony Waterer Spirea	2-3	Fast	White	Med	0		Showy autumn foliage; ornamental value; showy flowers.
Staphylea trifolia	American Bladdernut	10-15	Fast	White	Med-Dry	•(*	Easily grown; seed capsules used in dried flower arrangements.
Vaccinium macrocarpon	Large Cranberry	2-6	Slow	Pink	Med-Wet	0	*	Grow in acidic soils; leaves become purple in winter.
Viburnum acerifolium	Maple-Leaf Viburnum	2-6	Slow	White	Wet-Dry	001	*	Reddish-purple fall color; black fruit; develops large colonies; beneficial to wildlife; acidic soil tolerant.
Viburnum dentatum	Arrow Wood	3-10	Med	White	Med	(*	Medicinal uses; bird food source.
Viburnum lentago	Nannyberry	14-16	Slow	White	Med	001	*	Good seasonal displays; food source for wildlife.
Viburnum prunifolium	Black Haw	12-15	Slow	White	Med-Dry	0	*	Attracts birds; adaptable.
Viburnum opulus	Highbush Cranberry	6-10	Med	White	Med-Wet	0	*	Beneficial to wildlife; good windbreak; red fruit; ornamental shrub.

Trees

PLAN	NT NAMES	Height ft@ 20 years	GROWTH RATE	Flower color	Water Needs	Exposure	Native	Notes
Botanical	Common							
Evergreen Trees								
Abies balsamea	Balsam Fir	40-90	Slow		Med-Wet	O	*	Readily transplanted; prefers acidic soils; tolerates a wide range of soils.
Juniperus virginiana	Eastern Red Cedar	25	Slow		Dry	0	*	Used for windbreaks.
Picea glauca	White Spruce	100	Slow		Med	ા	*	Used for windbreaks; adaptable to a wide range of conditions.
Picea mariana	Black Spruce	100	Slow		Med-Wet	001	*	Interesting irregular form; tolerant of nutrient poor soils; prefers acidic soils.
Pinus resinosa	Red Pine	50-80	Fast		Med-Dry	0	*	Prefers dry, sandy, acidic soils; found in low fertility areas; cold tolerant; susceptible to salt damage; used for windbreaks.
Pinus strobus	Eastern White Pine	150	Fast		Med-Dry	0	*	Tolerates many soil types; intolerant of air pollutants; used for windbreaks.
Thuja occidentalis	Northern White Cedar	40-50	Slow		Med-Wet	0	*	Prefers neutral soil; well adapted to find water and nutrients.
Deciduous Trees								
Acer rubrum	Red Maple	35	Med-Fast	Red	Med	0	*	Gorgeous red fall color; fragrant blossoms March into April; does not tolerate heavily polluted areas.
Acer saccharinum	Silver Maple	45	Fast		Med	0	*	Easily transplanted; one of the best trees for poor soils.
Acer saccharum	Sugar Maple	100	Slow		Med	•(*	Best in slightly acidic soils; great shade providing tree; not for crowded and polluted conditions; used for maple syrup production.
Betula alleghaniensis	Yellow Birch	25	Fast		Med	0	*	Good lawn tree; providing relatively light shade; showy bark.
Betula nigra	River Birch	40	Fast	Yellow	Wet	0	*	Very attractive ornamental tree; very good for erosion control.
Betula papyrifera	Paper Birch	40	Fast	Yellow	Wet	0	*	Striking coloration with white bark and yellow fall color; good riparian buffer.
Carpinus caroliniana	American Hornbeam	18	Slow	Green	Med	0•1	*	Beautiful understory tree; difficult to transplant; tolerates periodic flooding; used in landscaping for its unique fruit and vibrant fall colors.
Carya cordiformis	Bitternut Hickory	30	Slow		Med	0	*	Transplanting is difficult; flowers April-May; used for fruit and unique bark.
Carya ovata	Shagbark Hickory	15	Fast		Med	0	*	Edible fruit; adaptable to a wide range of soils; bark has culinary use.
Cornus alternifolia	Alternate Leaf Dogwood	25	Med	Purple	Med	001	*	Beautiful ornamental; transplant as young plant; needs cool soils.
Cornus florida	Flowering Dogwood	30	Med	White	Dry	0	*	Excellent ornamental tree; striking display when in full bloom.
Fagus grandifolia	American Beech	30	Slow		Med	001	*	Prefers acidic soils; handsome shade providing tree for large open areas.
Fraxinus americana	White Ash	40	Med		Wet	0	*	Attractive shade providing tree; pH adaptable; easily transplanted.
Fraxinus pennsylvanica	Green Ash	35	Fast		Med	0	*	Widely used as shade providing tree; can be used as windbreak.
Liriodendron tulipifera	Tulip Tree	50	Fast	Yellow	Med	0	*	Great ornamental tree; grows rapidly; pyramidal shaped; insect & disease resistant; unusual flowers; yellow fall color.
Malus coronaria	Sweet Crab Apple	20	Slow	Pink	Med	0	*	Native to lower Michigan only; ornamental tree; edible fruit.
Nyssa sylvatica	Black Gum	30	Med		Med	001	*	Provides erosion control; attractive dense autumn foliage.
Platanus occidentalis	Sycamore	65	Fast		Wet	0	*	Disease resistant; tolerant of air pollution; rehabilitates strip-mined soils.
Prunus serotina	Black Cherry	40	Fast		Med	0	*	Fast growing shade providing tree; leaves may be toxic.
Quercus alba	White Oak	25	Slow		Med	0	*	Excellent residential tree; large crown; dense foliage; red fall color.
Quercus bicolor	Swamp White Oak	30	Fast		Wet	ા	*	Grows well in compacted soils; drought tolerant; tolerates flooding.
Quercus macrocarpa	Bur Oak	25	Slow		Med	0	*	Tolerant of air pollution; tolerant of compacted soil, sand, and alkaline soils; common shade providing tree; deep tap root facilitates water infiltration.
Quercus rubra	Red Oak	35	Med		Med	0	*	Shade tolerant with space available; hardwood for furniture; easily transplanted; tolerant of air pollution and dry, acid soils.
Salix nigra	Black Willow	50	Fast		Wet	0	*	Thrives in wet areas; week branchers; discouraged for landscape use.
Sassafras albidum	Sassafras	25	Slow	Yellow	Dry	0	*	Vibrant spring flower; aromatic tree; striking fall color; attracts butterflies.
Sorbus americana	American Mountain Ash	30	Med	Whitw	Med	0	*	Beautiful fall color; grows a stunted form in dry soils.
Tilia americana	Basswood	60	Med	Yellow	Med	○●1	*	Shade providing tree; soil-enriching.

The following list of nurseries and organizations was compiled to provide information about potential sources for nursery plants and are representative of the many nurseries and organizations found in Michigan. No attempt was made to compile a comprehensive list of nurseries in Michigan. The State of Michigan does not endorse or approve any nursery. The State of Michigan makes no warranties, expressed or implied, as to this list's accuracy or completeness, or to the competency or qualifications of any nursery listed here.

NURSERIES & SERVICES

Armintrout's	1156 Lincoln Road		
	Allegan, MI 49010	269-673-6627	pines, firs
Arrowhead Alpines	1310 N. Gregory Rd. PO Box 857		
•	Fowlerville, MI 48836	517-223-3581	native plants
Beauty Plant Growers	27691 F. Drive South		
Dave Oswald	Albion, MI 49224	517-629-9171	oaks, hickories, whole sale shrubs
Fertile Crescent Nursery	8110 West ML Ave.		
Leila Bradfield	Kalamazoo, MI 49009	269-372-1598	perennials
Fruit Full Acres	4166 Co. 416 20 th Rd.		
	Gladstone, MI 49837	906-786-3899	grasses, forbs, seed
Grass Roots Landscaping, Inc.	PO Box 4001		
	East Lansing, MI 48826	517-853-6673	woodland forbs, rescued plants
Hortech	PO Box 533		
	Spring Lake, MI 49456	800-875-1392	perennial groundcovers, vines, ferns
J.F. New	128 Sunset Dr.	574-586-2412	
	Walkerton, IN 46574	www.jfnewnursery.com	Consulting, installation, plants, trees, shrubs and seed
Kalamazoo Nature Center	7000 North Westnedge Ave.	269-381-1574	
Randy Grey	Kalamazoo, MI 49009	www.naturecenter.org	Consulting, installation, forbs, grasses, watershed management
Keiser and Associates	536 East Michigan Ave., Suite 300	269-344-7117	
	Kalamazoo, MI 49007	www.kieser-associates.com	restoration
MDEQ – Water Division	7953 Adobe Rd.	269-567-3583	
Julia Kirkwood	Kalamazoo, MI 49009	kirkwooj@michigan.gov	
Michigan Wildflower Farm	11770 Cutler Road	517-647-6010	
Esther & Bill Durnwald	Portland, MI 48875	www.michiganwildflowerfarm.com	Wildflower seed & native grass seed consulting, installation, maintenance
Native Connections	62791 Shaffer Rd.	269-580-4765	
Jerry Stewart	Constantine, MI 49042	jerry@nativeconnections.net	Consulting, installation, native plant establishment
Native Plant Nursery	PO Box 7841	734-677-3260	
Greg Vaclavek & Mike Appel	Ann Arbor, MI 48107	www.nativeplant.com	Native plants and landscaping consulting, restoration
Nativescape LLC	10380 Clinton Rd.	517-456-9696	
Chris Lehr	Manchester, MI 48158	www.nativescape.net	Wildflower seed & native grass seed, consulting, installation, maintenance
Nature and Nurture LLC	114 Eight St.	734-929-0802	
Erica Kempter/M. Levine	Ann Arbor, MI 48103	mlevine@umich.edu	Consulting, design, installation, maintenance
Nesta Prairie Perennials	1019 Miller Rd.		
Van Bochoves Greenhouse	Kalamazoo, MI 49001	800-233-5025	Native perennials
Northern Pines Nursery	2300 S. Morey Rd. (M66 South)		
Phil Scholten	Lake City, MI 49651	231-839-3277	Northern grown pines, spruce, firs

Oikos Tree Crops	PO Box 19425	269-624-6233	
Ken Asmus	Kalamazoo, MI 49001	www.oikostreecrops.com	Shrubs, nut-bearing trees
Pizzo & Associates, LTD	10729 Pine Rd.	815-495-2300	
Ecological Restoration	Leland, IL 60531	www.pizzo.info	Design, installation, management, plants and seeds
Plant Wise Native Landscapes	224 Charles St.	734-665-7168	
David Mindell	Ann Arbor, MI 48103	plantwise@aol.com	Design, installation, management
Prairie Moon Nursery	Route 3, Box 163	507-452-1362	
-	Winona, MN 55987	www.prairiemoon.com	Native plants, grasses, seed
Prairie Ridge Nursery	9738 Overland Rd.	608-437-5245	
	Mt. Horeb, WI 53572	www.prairieridgenursery.com	Plants, seed, consulting, design management
Prairie Nursery	PO Box 306	800-476-9453	
·	Westfield, WI 53964	www.prairienursery.com	Plants, seed, design, site evaluation, design, installation, management
Sandhill Farm	11250 10 Mile Road		
Cheryl Tolley	Rockford, MI 49341	616-691-8214	Woodland & wetland perennials, ferns consulting
Shoreline Landscape	207 Martin Dr.		
Raymond Smith	Stanton, MI 48888	989-831-4923	Stone paving, seawall installation
Twixwood	8559 Shawnee Rd. PO Box 247		
	Berrien Spring, MI 49103	269-471-7408	Groundcover, vines, perennials, herbs
V3 Consultants	7325 Janes Ave., Suite 100	630-724-9200	
	Woodridge, IL 60517	www.v3consultants.com	Wetland restoration and services
Van Pines, Inc.	14731 Baldwin St. Box 733		
	W. Olive, MI 49460	616-399-1620	Dune grass, evergreen trees, shrubs
Wetland and Coastal Resources	5801 W. Michigan Ave.	517-327-0970	
	Lansing, MI 48917	mikenurse@wetlandcoastal.com	Private nursery - catalog available
WILDTYPE Native Plants	900 North Every Road	517-244-1140	
Bill Schneider	Mason, MI 48854	www.wildtypeplants.com	Native trees, shrubs, grasses, wildflowers, consulting, installation
Zone 5 Gardens/Plants	5470 Irish Rd.	810-429-5050	
Pattie Tarvioli	Grand Blanc, MI 48439	www.zone5gardens.com	Plants

References:

Nassauer, Joan Iverson, B. Halverson and S. Roos. 1997. Bringing Garden Amenities Into Your Neighbor-hood: Infrastructure for Ecological Quality. Department of Landscape Architecture, University of Minnesota. Minneapolis.

Cornell Cooperative Extension of Onondaga County. Finger Lakes Landscape: Landscaping for Water Quality.

http://www.cce.cornell.edu/onondaga/fingerlakeslan/default.htm

City of Maplewood, Minnesota. Rainwater Gardens http://www.ci.maplewood.mn.us/PublicWorks/

Schueler, T.R. 1994. *The Importance of Imperviousness. Watershed Protection Techniques*. http://www.stormwatercenter.net/Practice/1-Importance%20of%20Imperviousness.pdf

United States Environmental Protection Agency. http://www.epa.gov/

Watershed Enhancement Team. http://www.open.org/~h2oshed/

The Rouge River Watershed -The Rouge River Project

The Michigan Environmental Protection Agency

Rain Gardens of West Michigan http://www.raingardens.org

The following list of books was compiled as a resource to the reader. The State of Michigan does not endorse any of the books listed. The State of Michigan makes no warranties, expressed or implied, as to this list's accuracy or completeness.

The Butterfly Gardener.

Miriam Rothschild & C. Farrell.; Michael Joseph: Rainbird, London. 1985.

Butterfly Gardens

Alcinda Lewis; Brooklyn Botanic Garden Publications, NY. 1996.

Design with Nature.

McHarg, I.L.; Philadelphia, PA: The Falcon Press. 1969.

A Garden of Wildflowers.

Art, H.W.; Pownal, VT: Stoney Communications, Inc. 1986.

Gardening with Native Wild Flowers.

Jones, S.B. and L.E. Foote.; Portland, OR: Timber Press, Inc. 1990.

Grow Wild

Johnson, Lorraine; Fulocrum Publishing. 1998.

Growing and Propagating Wildflowers.

Phillips, H.R.; Chapel Hill, NC: The University of North Carolina Press. 1985.

Lakescaping for Wildlife and Water Quality

Henderson, C.C. and Fred J. Rozumalski; Minnesotat Department of Natural Resources. 1999.

Landscaping for Wildlife.

Henderson, C.C.; Minnesota Department of Natural Resources. 1987.

Michigan Flora

Voss, E.G.; 3 volumes. University of Michigan Press. 1996.

Newcomb's Wildflower Guide

Newcomb, L.; Boston, MA: Little, Brown & Company. 1977.

Noah's Garden.

Stein, Sara; Mariner Books. 1995.

The Prairie Garden.

Smith, J.R. and B.S. Smith; Madison, WI: The University of Wisconsin Press. 1980.

Prairie Propagation Handbook, 6th edition.

Rock, H.W.; Milwaukee County Department of Parks, Recreation & Culture. 1981.

Tallgrass Prairie Wildflowers

Ladd, Doug and Frank Oberle; Falcon Press. 1995

Wildflowers: How to Identify Flowers in the Wild and How to Grow Them in Your Garden.

Imes, R.; Rodale Press, Emmaus, PA. 1992