



Species: *Acer campestre*

(ay'ser kam-pess'tree)

Hedge Maple

Cultivars

'Carnival', 'Elegant', 'Elsrijk', 'Evenley Red', 'Field Maple', 'Jade Patina', 'Louisa Red Shine', 'Metro Gold', 'Nanum', 'Postelense', 'Pulverentum', 'Queen Elizabeth', 'Royal Ruby', 'Schichtel's Upright', 'Schwerinii', 'St. Gregory', 'William Caldwell'

Ornamental Characteristics

Size: Tree > 30 feet, Tree < 30 feet

Height: 25' - 35'

Leaves: Deciduous

Shape: round

Ornamental Other: Known to naturalize or become invasive in some areas.

Environmental Characteristics

Light: Full sun

Hardy To Zone: 5a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other:

Moisture Tolerance:

Consistently moist, well-drained soil;
Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

relatively pest free

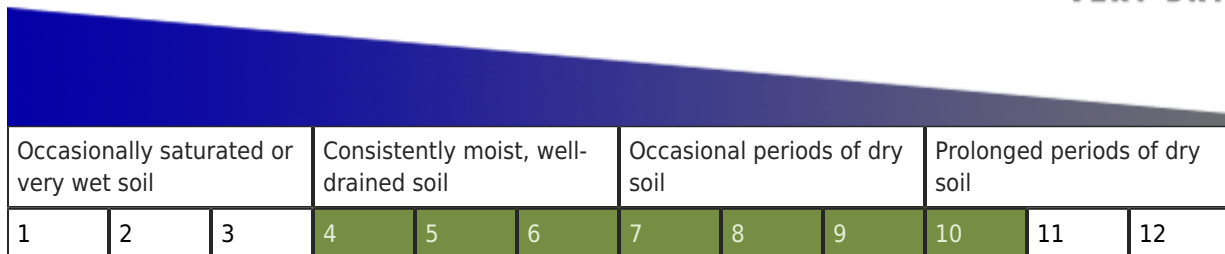
Additional Other

easily transplanted in spring or fall, native to Europe, Middle East and North Africa. May become weedy in a natural area

Moisture Tolerance

VERY WET

VERY DRY



Photos



Acer campestre - Habit, Fall
Interest



Acer campestre - Leaves



Acer campestre - Leaves



Acer campestre - Habit



Acer campestre - Habit



Acer campestre - Habit



Acer campestre - Fruit



Acer campestre - Leaves



Acer campestre - Buds



Species: *Acer negundo*

(ă'sēr ne-goon'dō)

Boxelder

Cultivars

'Auratum', 'Flamingo', 'Kelly's Gold', 'Sensation', 'Variegatum', 'Violaceum'

Ornamental Characteristics

Size: Tree > 30 feet
Height: 30'-50'
Leaves: Deciduous
Shape: oval, irregular
Ornamental Other:

Environmental Characteristics

Light: Full sun, Part shade
Hardy To Zone: 3a
Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
Salt Tolerance:
Environmental Other:
Moisture Tolerance:
Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

Box elder bugs

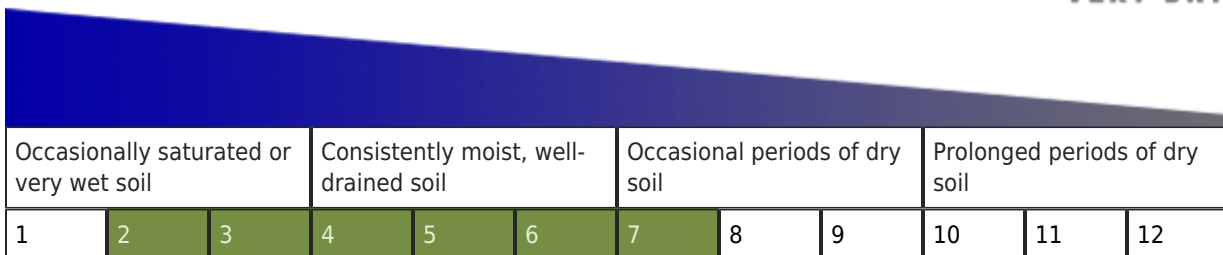
Additional Other

seeds prolifically, weedy, weak-wooded;
Native to US, Canada and northern Mexico

Moisture Tolerance

VERY WET

VERY DRY



Photos



Acer negundo - Habit, Fungus



Acer negundo - Bark



Acer negundo - Habit



Acer negundo - Leaves



Acer negundo 'Variegatum' -
Leaves



Acer negundo - Stems



Acer negundo - Seeds



Acer negundo - Bark



Acer negundo - Buds



Species: *Acer platanoides*

(ay'ser plat-an-oy'deez)

Norway Maple

Cultivars

There are many cultivars available for this species. Some are broad and spreading. Others are narrow. 'Cleveland', 'Columnare', 'Crimson King', 'Crimson Sentry', 'Deborah', 'Drummondii', 'Emerald Queen', 'Globosum', 'Olmsted', 'Parkway', 'Princeton Gold', 'Royal Red', 'Summershade', 'Superform'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 40' - 50'
 Leaves: Deciduous
 Shape: see below
 Ornamental Other: Known to naturalize or become invasive throughout most of the northern U.S.

Environmental Characteristics

Light: Full sun, Part shade
 Hardy To Zone: 4a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

Variety Parkway tolerant of verticillium wilt; Variety Summershade tolerant of leaf hoppers

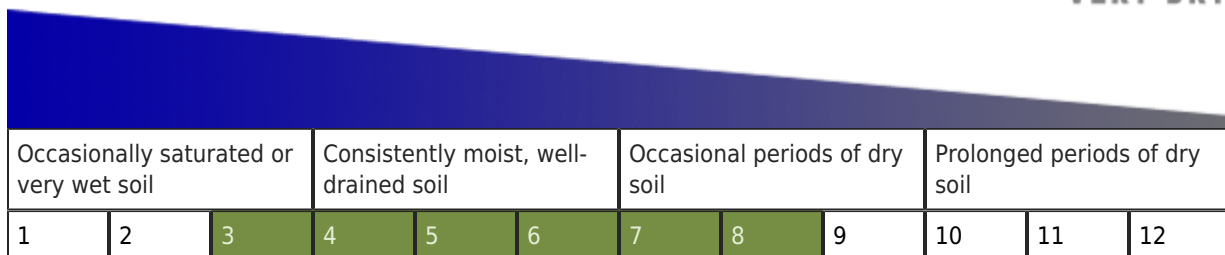
Additional Other

native to Europe; easy to transplant in spring or fall. **INVASIVE** in US

Moisture Tolerance

VERY WET

VERY DRY



Photos



Acer platanoides - Flowers



Acer platanoides - Leaf



Acer platanoides - Habit



Acer platanoides - Leaf



Acer platanoides 'Crimson King' -
Habit



Acer platanoides - Bark



Acer platanoides - Bark



Acer platanoides - Flowers



Acer platanoides 'Schwedleri' -
Leaves, Fall Interest



Species: *Acer rubrum*

(ay'ser rue'brum)

Red Maple; Scarlet Maple; Swamp Maple

Cultivars

'Armstrong', 'Armstrong Gold', 'Autumn Flame', 'Bowhall', 'Brandywine', 'Karpick', 'Northwood', 'October Glory', 'Red Skin', 'Red Sunset', 'Redpointe', 'Scarlet Sentinel'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 40' - 60'

Leaves: Deciduous

Shape: Shape varies widely by variety. Generally upright with a rounded crown, however many columnar varieties exist.

Ornamental Other:

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3b

Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)

Salt Tolerance:

Environmental Other:

Moisture Tolerance:

Occasionally saturated or very wet soil;

Consistently moist, well-drained soil;

Occasional periods of dry soil

See graphic below

Insect Disease

No diseases listed

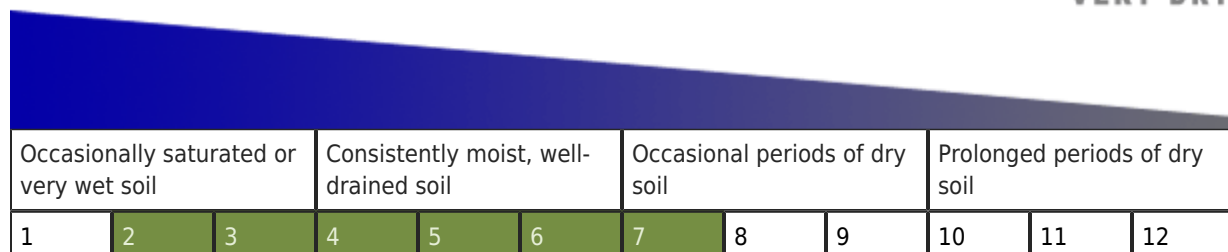
Additional Other

Native to North America (Newfoundland to Minnesota, south to Florida and Texas). Best transplanted in spring. Often seen as a wet site tolerant tree, however upland genotypes exist. Wetland genotypes are more commonly selected from in the trade as they tend to be more vigorous. Upland genotypes are more drought tolerant but tend to be slow-growing.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Acer rubrum - Bark



Acer rubrum - Buds



Acer rubrum - Leaves, Fall Interest



Acer rubrum - Flowers



Acer rubrum - Leaves, Fall Interest



Acer rubrum - Leaf



Acer rubrum - Flowers



Acer rubrum - Flowers, Seeds



Acer rubrum - Habit



Species: *Acer saccharinum*

(ay'ser sak-kar-eye'num)

Silver Maple

Cultivars

'Beebe Cutleaf Weeping', 'Blair', 'Laciniatum Wieri', 'Silver Queen', 'Skinneri'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 50' - 70' (spread 35' - 50')

Leaves: Deciduous

Shape: oval to rounded

Ornamental Other: A particularly large, fast-growing, and as a result, weak-wooded tree. This plant was seen as a good street tree replacement for American Elms, however, due to its weak wooded nature and large size, it is known to drop limbs. This can happen with little to no warning and can cause significant property damage or injury/death. As a result these trees should be planted sparingly and with extreme caution.

Environmental Characteristics

Light: Full sun, Part shade

Hardy To Zone: 3a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: Medium to fine textured foliage, silvery grey underneath, turning soft yellow in fall; silvery gray bark flakes off to expose orange inner bark

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

anthracnose; leaf spot; tar spot and more; weak wood subject to storm damage

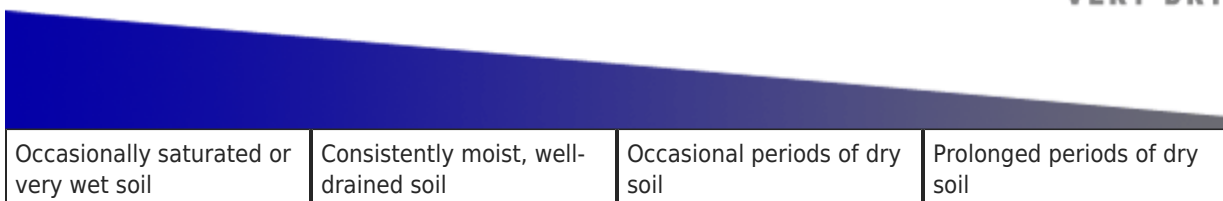
Additional Other

transplants well bare root or B & B;
vigorous; seeds freely; shallow roots will buckle sidewalks and clog drain tiles; good for poor soils where few other trees will survive

Moisture Tolerance

VERY WET

VERY DRY



1	2	3	4	5	6	7	8	9	10	11	12
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Photos



Acer saccharinum - Habit



Acer saccharinum - Leaves, Buds



Acer saccharinum - Buds



Acer saccharinum - Bark



Acer saccharinum - Leaf



Acer saccharinum - Bark



Acer saccharinum - Buds



Acer saccharinum - Leaves



Acer saccharinum - Leaf



Species: *Acer saccharum*

(ay'ser sak-kar'um)

Sugar Maple; Rock Maple; Hard Maple

Cultivars

Many cultivars, some <30', vary in shape, size and fall color

'Adirondak', 'Apollo', 'Autumn Fest', 'Belle Tower', 'Bonfire', 'Commemoration', 'Endowment', 'Flashfire', 'Goldspire', 'Green Mountain', 'Legacy', 'Majesty', 'Seneca Chief', 'Sugar Cone'

Ornamental Characteristics

Size: Tree > 30 feet, Tree < 30 feet

Height: 60' - 75' (spread variable), some cultivars less than 30'

Leaves: Deciduous

Shape: upright oval to mounded; dense foliage

Ornamental Other: Intolerant of compacted soil and urban stresses. Heavy metals in water or soil can result in vessel clogs which cause die back and eventually death.

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other:

Moisture Tolerance:

Consistently moist, well-drained soil; Occasional periods of dry soil See graphic below

Insect Disease

few problems unless sited too close to roads and highways; leaf scorch and verticillium wilt; dieback under stress

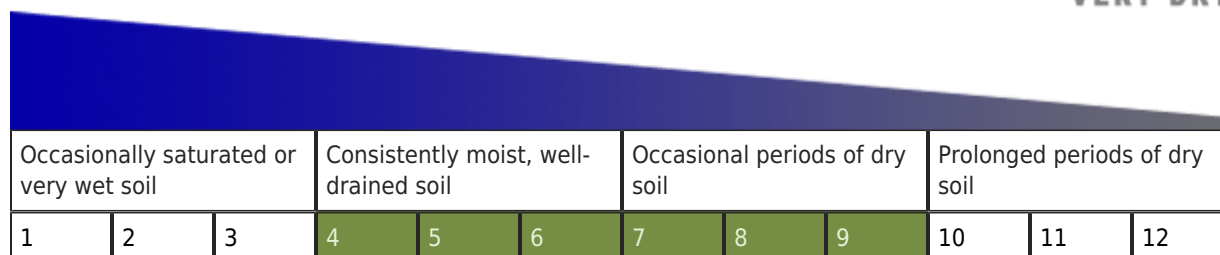
Additional Other

native to North America (eastern Canada south to Texas); easy to transplant; sap is boiled down to make maple syrup

Moisture Tolerance

VERY WET

VERY DRY



Photos



Acer saccharum - Flowers



Acer saccharum - Habit, Fall
Interest



Acer saccharum - Bark



Acer saccharum - Leaf



Acer saccharum - Habit



Acer saccharum - Habit



Acer saccharum - Leaves, Bark



Acer saccharum - Buds



Acer saccharum 'Autumn Fest' -
Habit



Species: *Aesculus hippocastanum*

(ess'kue-luss hip-o-kas-tay'num)

Common Horsechestnut; European Horsechestnut

Cultivars

'Baumanii'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 50' - 75' (40' - 70'+)
 Leaves: Deciduous
 Shape: upright oval to rounded
 Ornamental Other: full sun or light shade; avoid extremely dry situations

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: full sun or light shade; avoid extremely dry situations
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

more susceptible to drought injury and leaf scorch than *A. x carnea*; bacterial leaf blotch; powdery mildew; and more

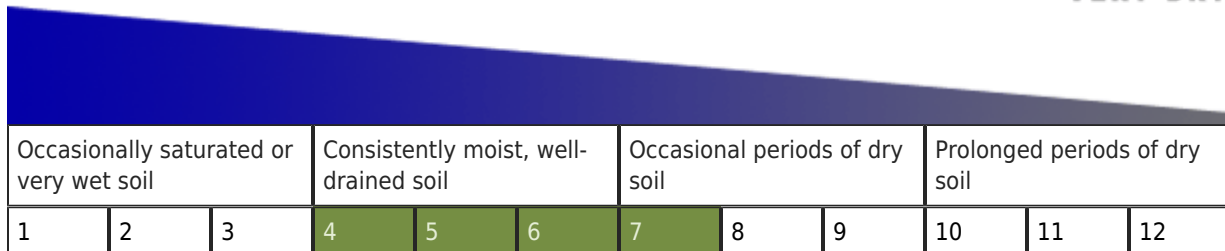
Additional Other

native to Greece and Albania; transplant B&B

Moisture Tolerance

VERY WET

VERY DRY



Photos



Aesculus hippocastanum - Bark



Aesculus hippocastanum - Flower



Aesculus hippocastanum - Buds



Aesculus hippocastanum - Leaf



Aesculus hippocastanum - Seeds



Aesculus hippocastanum -
Immature Seeds



Aesculus hippocastanum - Buds



Aesculus hippocastanum - Habit



Aesculus hippocastanum
'Baumanii' - Leaves, Flowers



Species: *Ailanthus altissima*

(ay-lan'thus al-tis'i-mah)

Tree-of-Heaven

Cultivars

'Hongye', 'Metro', 'Pendulifolia', 'Thousand Leaders', 'var. erythrocarpa'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 40' - 60' (25' - 40')

Leaves: Deciduous

Shape: upright, spreading

Ornamental Other: extremely adaptable - even in poor soil and in proximity to salt; can be a noxious weed

Environmental Characteristics

Light: Full sun, Part shade

Hardy To Zone: 5a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance: Tolerates salt spray

Environmental Other: dark green foliage gives coarse, tropical appearance; yellow to bright red ornamental fruit on female trees

Moisture Tolerance:

Occasionally saturated or very wet soil;

Consistently moist, well-drained soil;

Occasional periods of dry soil

See graphic below

Insect Disease

verticillium can be a problem; short-lived; soft wood is easily damaged by snow and ice

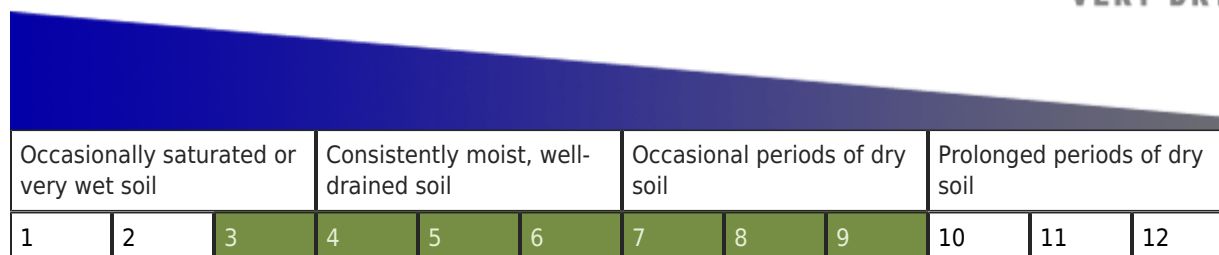
Additional Other

dioecious - male plant gives off disagreeable odor; fast-growth; produces considerable litter, native to China, Naturalized in Europe and N. America
INVASIVE in North America

Moisture Tolerance

VERY WET

VERY DRY



Photos



Ailanthus altissima - Leaves



Ailanthus altissima - Habit



Ailanthus altissima - Leaves



Ailanthus altissima - Leaves, Fruit



Ailanthus altissima - Habit



Ailanthus altissima - Leaves, Fruit



Ailanthus altissima - Habit



Ailanthus altissima - Habit



Ailanthus altissima - Leaves, Fruit



Species: *Amelanchier spp.*

(am-ell-lang'kee-er)

Serviceberry; Shadblow

Cultivars

A particularly diverse genus with many confusingly similar species. Both shrub and tree forms exist and multi-stem or single stem varieties are available. All species produce edible fruits, however some are more palatable/productive than others. *A. alnifolia* is a shrub form species with cultivars that are particularly cold hardy (generally to Zone 2 or 3).

'Autumn Brilliance', 'Ballerina', 'Cole's Select', 'Cumulus', 'La Paloma', 'Majestic', 'Martin', 'Northline', 'Prince William', 'Princess Diana', 'Rainbow Pillar', 'Reflection', 'Regent', 'Robin Hill', 'Rubescens', 'Smokey', 'Spring Flurry', 'Spring Glory', 'Standing Ovation', 'Thiessen', 'Tradition'

Ornamental Characteristics

Size: Tree < 30 feet

Height: 6' to 25' with spread
10'-20'

Leaves: Deciduous

Shape: small tree or large multi-stem shrub

Ornamental Other: full sun to part shade

Environmental Characteristics

Light: Full sun, Part shade

Hardy To Zone: 3b

Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)

Salt Tolerance:

Environmental Other: white flowers in early spring; edible globular berries; good fall color

Moisture Tolerance:

Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

Cedar-apple rust, fireblight, leaf spot, and mites

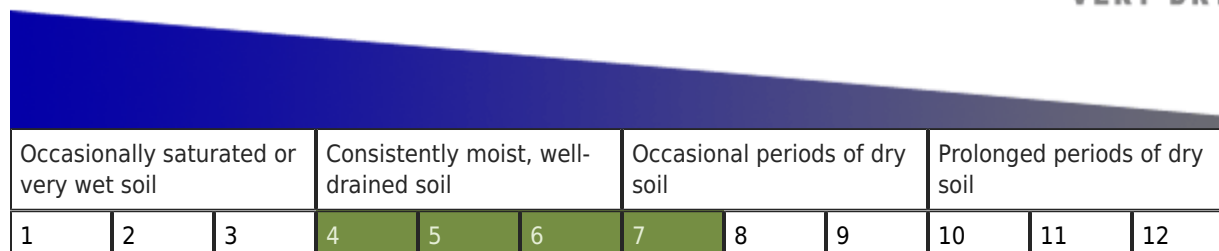
Additional Other

Native to Eastern N. America

Moisture Tolerance

VERY WET

VERY DRY



Photos



Amelanchier spp. - Habit, Fall
Interest



Amelanchier spp. - Flowers



Amelanchier spp. - Habit



Amelanchier spp. - Habit



Amelanchier spp. - Bark



Amelanchier spp. - Habit



Amelanchier spp. - Immature
Flowers



Amelanchier spp. - Flowers



Amelanchier spp. - Leaves



Species: *Betula papyrifera*

(bet'you-lah pap-i-riff'er-ah)

Paper Birch; Canoe Birch; White Birch

Cultivars

'Belle Vue', 'Chickadee', 'Prairie Dream', 'Renaissance Oasis', 'Renaissance Reflection', 'Snowy', 'St. George'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 50' - 70' (spread 30' - 60')
 Leaves: Deciduous
 Shape: pyramidal to oval/rounded; single or multi-stem tree
 Ornamental Other: full sun

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3a
 Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

Susceptible to bronze birch borer and leaf miners

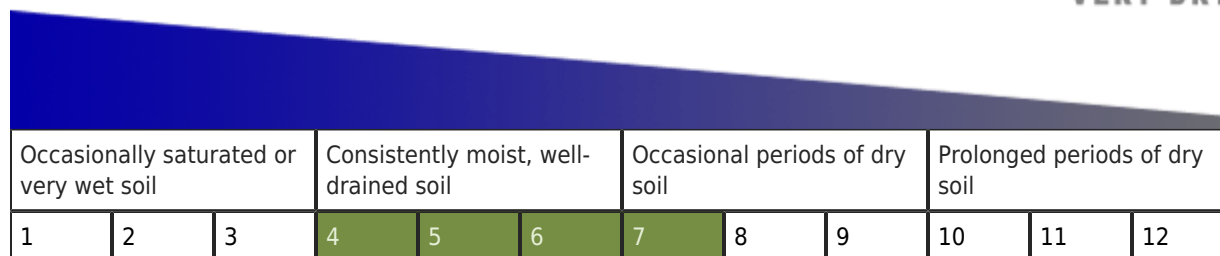
Additional Other

Native to North America, Labrador to British Columbia, and northern US; transplants easily B & B

Moisture Tolerance

VERY WET

VERY DRY



Photos



Betula papyrifera - Bark



Betula papyrifera - Catkins



Betula papyrifera - Habit, Fall
Interest



Betula papyrifera - Leaves, Fall
Interest



Betula papyrifera - Habit



Betula papyrifera - Habit, Fall
Interest



Betula papyrifera - Catkins



Betula papyrifera - Bark



Betula papyrifera - Bud



Species: *Catalpa speciosa*

(kah-tal'pah spee-see-oh'sah)

Catalpa; Indian Bean

Cultivars

Both the straight species and these cultivars are rare in the trade, this is a genus which deserves greater use and selection.

'Aurea', 'Koehnei', 'Nana', 'Pulverulenta', 'Purpurea', 'Variegata'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 40' - 60' (20' - 40' spread)
 Leaves: Deciduous
 Shape: open, irregular, oval crown
 Ornamental Other: sun or part-shade; fast growth in moist site.

Environmental Characteristics

Light: Full sun, Part shade
 Hardy To Zone: 4a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: sun or part-shade; fast growth in moist site.
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

No diseases listed

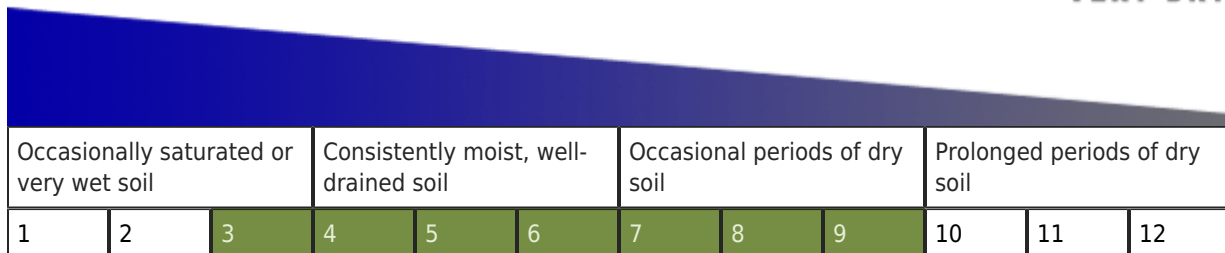
Additional Other

transplant B & B or bare root as a small tree, native to Northern and Central Midwestern US.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Catalpa speciosa - Bark



Catalpa speciosa - Leaves, Flowers



Catalpa speciosa - Flowers



Catalpa speciosa - Leaves



Catalpa speciosa - Habit



Catalpa speciosa - Habit



Catalpa speciosa - Habit



Catalpa speciosa - Fruit



Catalpa speciosa - Buds



Species: *Fraxinus americana*

(frak'si-nus ah-mer-i-kay'nah)

White Ash

Cultivars

'Autumn Applause', 'Autumn Blaze', 'Autumn Purple', 'Champaign County', 'Empire', 'Greenspire', 'Northern Blaze', 'Rose Hill', 'Skyline', 'Sparzam'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 50' - 70'
 Leaves: Deciduous
 Shape: oval
 Ornamental Other: needs full sun

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: attractive yellow to reddish/purple fall color
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

in some areas ash yellows and insect problems may be a hazard. Susceptible to Emerald Ash Borer.

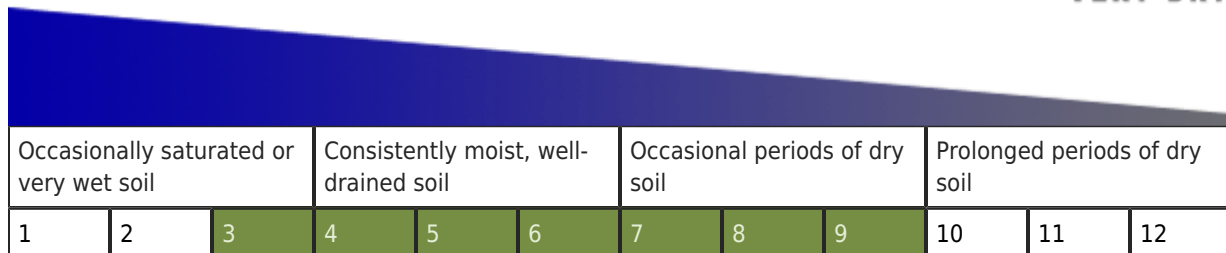
Additional Other

transplant in spring or fall, native to Eastern and Midwestern N. America.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Fraxinus americana - Bark



Fraxinus americana - Habit, Fall
Interest



Fraxinus americana - Leaves



Fraxinus americana - Habit



Fraxinus americana - Habit



Fraxinus americana - Habit



Fraxinus americana - Bud



Fraxinus americana - Leaves, Fall
Interest



Fraxinus americana - Fall Interest



Species: *Fraxinus excelsior*

(frak'si-nus ek-sel'si-or)

European Ash

Cultivars

There are several cultivars, many readily available in Europe, fewer in the US.

'Aurea', 'Aurea Pendula', 'Globosa', 'Gold Cloud', 'Hessei'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 70' - 80' (60' - 90' spread)

Leaves: Deciduous

Shape: rounded; lower branches upcurving

Ornamental Other:

Environmental Characteristics

Light: Full sun

Hardy To Zone: 4b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: dark green foliage does not change color in fall

Moisture Tolerance:

Consistently moist, well-drained soil;

Occasional periods of dry soil

See graphic below

Insect Disease

susceptible to borer, scale and Emerald Ash Borer

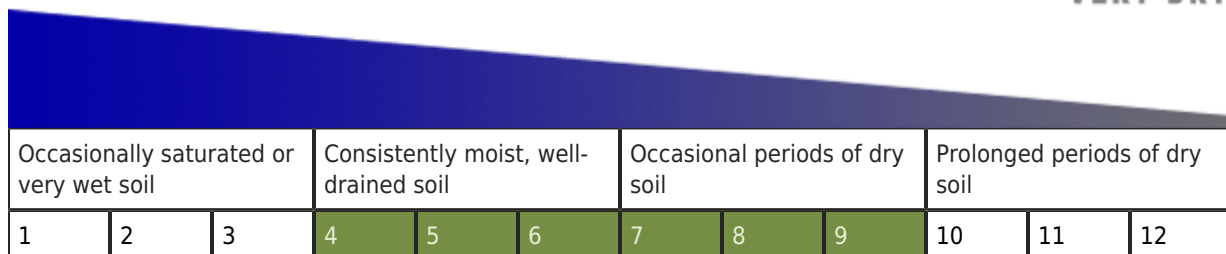
Additional Other

Native to Europe

Moisture Tolerance

VERY WET

VERY DRY



Photos



Fraxinus excelsior - Bark



Fraxinus excelsior - Buds



Fraxinus excelsior - Habit



Fraxinus excelsior - Buds



Fraxinus excelsior - Habit



Fraxinus excelsior - Bark



Fraxinus excelsior - Buds



Fraxinus excelsior - Leaf



Fraxinus excelsior - Habit



Species: *Fraxinus pennsylvanica*

(frak'si-nus pen-sil-van'ni-kah)

Green Ash; Red Ash

Cultivars

'Aucubaefolia', 'Bergeson', 'Cimmaron', 'Georgia Gem', 'Harlequin', 'Leprechaun', 'Marshall', 'Newport', 'Patmore', 'Prairie Spire', 'Skyward', 'Summit', 'Urbanite'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 50' - 60'
 Leaves: Deciduous
 Shape: oval, pyramidal
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

resistant to anthracnose; ash borers can be a problem in hot, dry environments; fairly resistant to ash yellows; Emerald ash borer may limit their use.

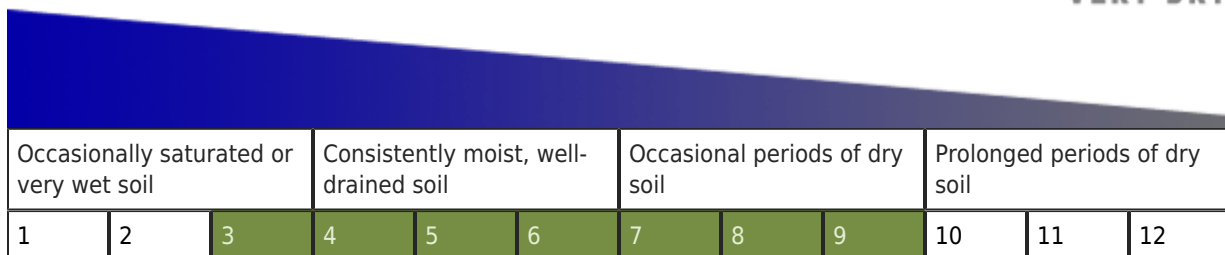
Additional Other

native to eastern North America (from Nova Scotia to Florida and Texas); transplant in spring or fall

Moisture Tolerance

VERY WET

VERY DRY



Photos



Fraxinus pennsylvanica - Habit,
Fall Interest



Fraxinus pennsylvanica - Leaves,
Bark



Fraxinus pennsylvanica - Bark



Fraxinus pennsylvanica - Bark



Fraxinus pennsylvanica - Seeds



Fraxinus pennsylvanica - Habit



Fraxinus pennsylvanica - Habit



Fraxinus pennsylvanica - Buds



Fraxinus pennsylvanica - Bud



Species: *Ginkgo biloba*

(gingk'go bye-lo'bah)

Ginkgo; Maidenhair Tree

Cultivars

There are many rare cultivars (particularly dwarf varieties) of this plant, below are a few of the more readily available varieties.

'Autumn Gold', 'Golden Colonnade', 'Halka', 'Jade Butterfly', 'Lakeview', 'Magyar', 'Pendula', 'Presidential Gold', 'Princeton Sentry', 'Saratoga', 'Troll', 'Tubifolia', 'Variegata'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 60' - 100'
 Leaves: Deciduous
 Shape: irregular when young; pyramidal with age
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil; Prolonged periods of dry soil
 See graphic below

Insect Disease

pest free

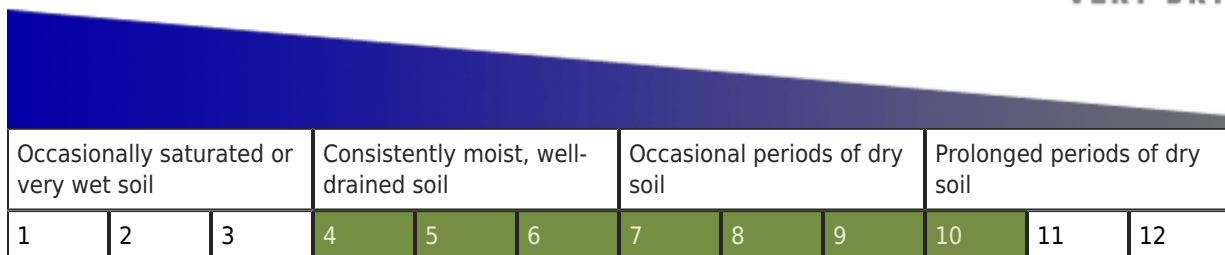
Additional Other

Specify male trees only because of noxious fruit smell (all cultivars are male);
 transplant in spring or fall; native to China.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Ginkgo biloba - Bark



Ginkgo biloba - Habit, Fall Interest



Ginkgo biloba - Seeds, Leaves



Ginkgo biloba - Spur



Ginkgo biloba - Habit



Ginkgo biloba - Leaves, Bark



Ginkgo biloba - Habit



Ginkgo biloba - Leaf



Ginkgo biloba - Leaves



Species: *Gleditsia triacanthos*

(gleh-dit'si-ah try-a-kan'thos)

Common Honeylocust; Honey Locust

Cultivars

The straight species of this tree posses large thorns. Most of the cultivars of selected from the var. inermis variety. Some cultivars <30'

'Christie', 'Imperial', 'Moraine', 'Rubylace', 'Shademaster', 'Skyline', 'Spectrum', 'Sunburst', 'var. inermis'

Ornamental Characteristics

Size: Tree > 30 feet, Tree < 30 feet

Height: 30' - 70' (variable spread), some cultivars<30'

Leaves: Deciduous

Shape: ovate; fine texture; graceful habit

Ornamental Other: full sun; drought tolerant

Environmental Characteristics

Light: Full sun

Hardy To Zone: 4b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance: Tolerates salty soil

Environmental Other:

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

Overuse has created many insect problems; honeylocust plant bug, honeylocust borer, midge pod gall, webworm and spider mites

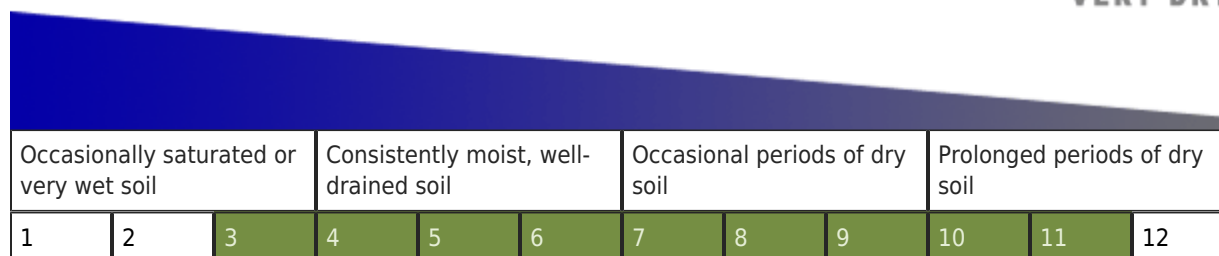
Additional Other

native to central United States; overused

Moisture Tolerance

VERY WET

VERY DRY



Photos



Gleditsia triacanthos - Leaves,
Thorns



Gleditsia triacanthos - Bark



Gleditsia triacanthos - Fruit



Gleditsia triacanthos - Habit, Fall
Interest



Gleditsia triacanthos - Bud



Gleditsia triacanthos - Leaves



Gleditsia triacanthos - Habit



Gleditsia triacanthos - Fruit



Gleditsia triacanthos - Leaves



Species: *Juglans nigra*

(jug'lanz nye'grah)

Black Walnut

Cultivars

Some rare varieties exist for nut production, few selections have been made for horticultural purposes.

'Laciniata'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 50' - 75' (equal spread)
 Leaves: Deciduous
 Shape: massive, upright spreading; oval/rounded crown
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

No diseases listed

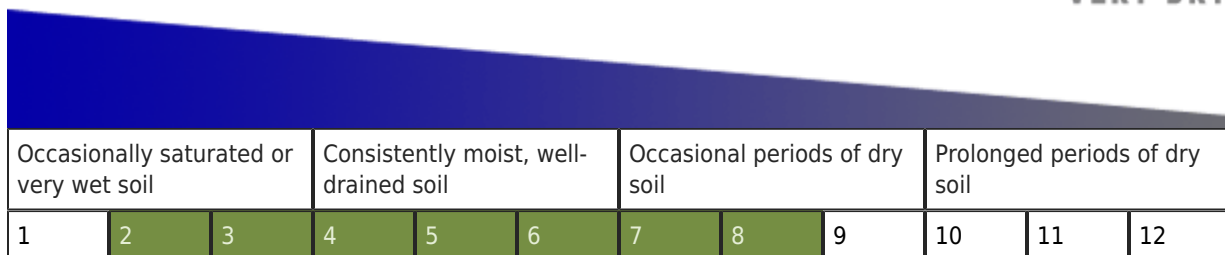
Additional Other

native to eastern U.S. and southern Ontario;
 taproot - difficult to transplant; nuts can be a litter problem; often restricts growth of other plants near it by exuding an inhibitory chemical from its roots.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Juglans nigra - Bark



Juglans nigra - Bud



Juglans nigra - Fruit



Juglans nigra - Habit



Juglans nigra - Bark



Juglans nigra - Buds



Juglans nigra - Leaf Scar



Juglans nigra - Leaves



Juglans nigra - Fruit



Species: *Malus spp.*

(may'lus flo-ri-bun'dah)

Flowering Crabapple

Cultivars

This is a genus with a wide variety of species, varieties, and cultivars. Plants in this genus are generally very susceptible to a wide variety of pests and diseases including but not limited to: fire blight, scab, cedar-apple rust; aphids, etc. Below are a selection of the more pest and disease resistant selections found within this genus. Keep in mind that crabapples are some of these most popular small flowering trees in the trade and new varieties and cultivars are in near constant selection.

'Adams', 'Adirondack', 'American Salute', 'American Spirit', 'American Triumph', 'Calocarpa', 'Cardinal', 'Centurion', 'Coralburst', 'Dolgo', 'Donald Wyman', 'Doubloons', 'Firebird', 'Golden Raindrops', 'Harvest Gold', 'Jackii', 'Liset', 'Madonna', 'Pink Princess', 'Prairiefire', 'Professor Sprenger', 'Purple Prince', 'Purple Prince', 'Red Jewel', 'Robinson', 'Royal Raindrops', 'Royal Raindrops', 'Sentinel', 'Silver Drift', 'Snowdrift', 'Strawberry Parfait', 'Sugartyme'

Ornamental Characteristics

Size: Tree < 30 feet

Height: 20'

Leaves: Deciduous

Shape: round

Ornamental Other: full sun for best flower and fruit

Environmental Characteristics

Light: Full sun

Hardy To Zone: 4b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other:

Moisture Tolerance:

Consistently moist, well-drained soil;
Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

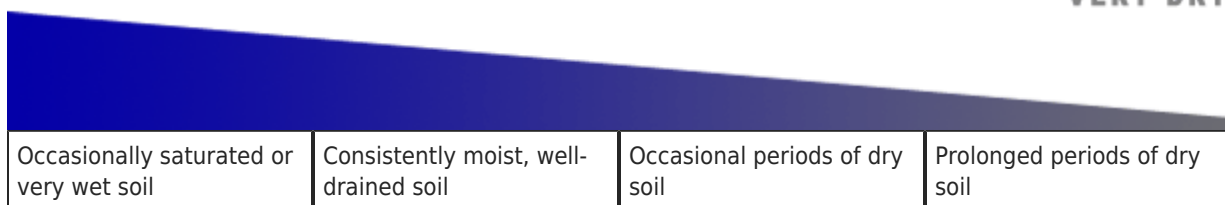
cedar-apple rust; scab and mildew;
fireblight; Japanese Beetles

Additional Other

Moisture Tolerance

VERY WET

VERY DRY



1	2	3	4	5	6	7	8	9	10	11	12
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Photos



Malus spp. - Flowers



Malus spp. - Flowers



Malus spp. - Fruit



Malus spp. - Leaves



Malus spp. - Habit



Malus spp. - Habit



Malus spp. - Habit, Flowers



Malus spp. - Habit, Flowers



Malus spp. - Immature Fruit



Species: *Picea abies*

(pye-see'ah ay'beez)

Norway Spruce

Cultivars

This is a very commonly planted tree, in some areas it has a tendency to escape cultivation and naturalize or become invasive. There are hundreds of cultivars and varieties of this species. Many of the cultivars are dwarf or weeping but some are full size. A selection of some of these can be found below.

'Aarburg', 'Acrocona', 'Argenteospicata', 'Aurea', 'Aurea Jacobsen', 'Bant', 'Big Wave', 'Cobra', 'Cupressina', 'Elegantissima', 'Gregoryana Parsonii', 'Humilis', 'Nidiformis', 'Pumila', 'Pygmaea', 'Rubra Spicata', 'Stoner'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 60' - 100'
 Leaves: Evergreen
 Shape: pyramidal; pendulous branches
 Ornamental Other: full sun

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

No diseases listed

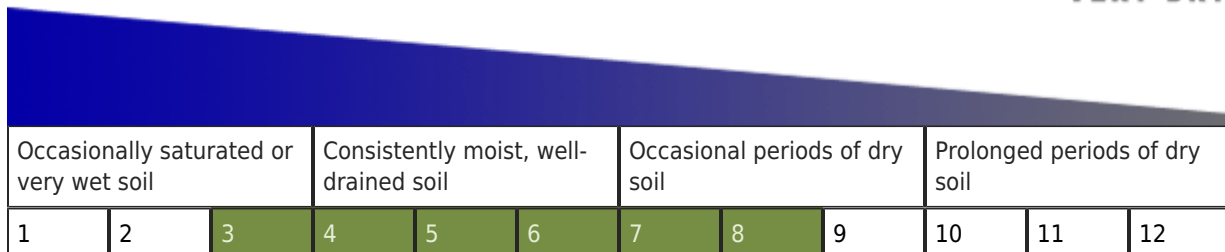
Additional Other

native to northern and central Europe;
 transplant B & B in spring or fall

Moisture Tolerance

VERY WET

VERY DRY



Photos



Picea abies - Leaves



Picea abies - Leaves



Picea abies - Leaves



Picea abies - Habit



Picea abies - Habit



Picea abies - Habit



Picea abies - Habit



Picea abies - Cone, Leaves



Picea abies - Bark



Species: *Picea pungens*

(pye-see'ah pun'jenz)

Colorado Spruce

Cultivars

'f. glauca', 'Fat Albert', 'Glauca Pendula', 'Hoopsii', 'Iseli Fastigiata', 'Iseli Foxtail', 'Koster', 'Moerheim', 'Moerheimii', 'Montgomery', 'Pendula', 'Thompsenii'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 30' - 60'
 Leaves: Evergreen
 Shape: narrow to broadly pyramidal; densely branched
 Ornamental Other: full sun

Environmental Characteristics

Light: Full sun, Part shade
 Hardy To Zone: 3b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance: Tolerates salt spray
 Environmental Other: full sun
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

No diseases listed

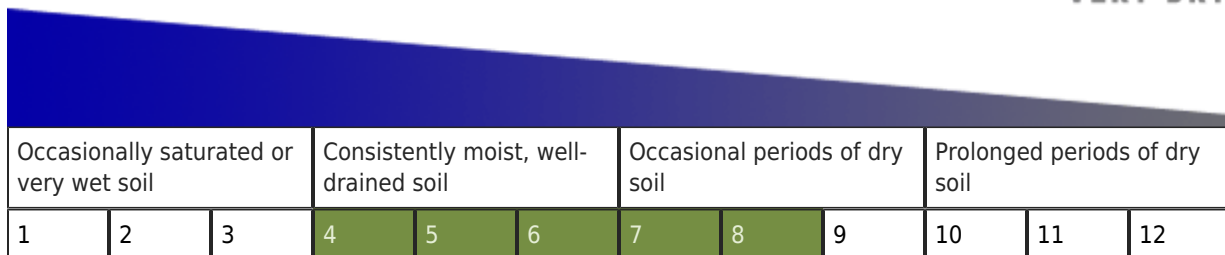
Additional Other

native to Rocky Mounains; transplant B & B in spring or fall

Moisture Tolerance

VERY WET

VERY DRY



Photos



Picea pungens - Bark



Picea pungens - Leaves



Picea pungens - Leaves



Picea pungens - Habit



Picea pungens - Habit



Picea pungens - Habit



Picea pungens - Habit



Picea pungens - Habit



Picea pungens - Cones, Leaves



Species: *Pinus nigra*

(pye'nus nye'grah)

Austrian Pine

Cultivars

This is a historically popular species with many cultivars and tends to be salt and urban hardy. Unfortunately this species is particularly susceptible to diplodia blight and should generally be avoided as a result.

'Arnold Sentinel', 'Bambino', 'Black Prince', 'Brepo', 'Compacta', 'Contorta', 'Frank', 'Globosa', 'Green Select', 'Helga', 'Hornibrookiana', 'Komet', 'Moseri', 'Oregon Green', 'Oregon Jade', 'Oregon Jade', 'Strypemonde', 'Teardrop'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 50' - 60' (spread 20' - 40')

Leaves: Evergreen

Shape: pyramidal; broader with age

Ornamental Other: full sun required

Environmental Characteristics

Light: Full sun

Hardy To Zone: 4a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: full sun required

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

Plagued with diplodia tip blight when older

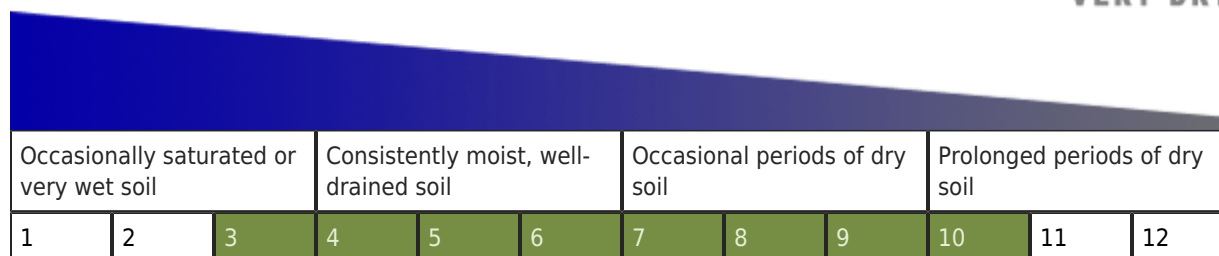
Additional Other

Transplant B & B in spring or fall

Moisture Tolerance

VERY WET

VERY DRY



Photos



Pinus nigra - Bark



Pinus nigra - Cone



Pinus nigra - Cones



Pinus nigra - Leaves



Pinus nigra - Cones



Pinus nigra - Leaves



Pinus nigra - Habit



Pinus nigra - Habit



Pinus nigra - Leaves



Species: *Pinus strobus*

(pye'nus stroh'bus)

Eastern White Pine

Cultivars

Many cultivars are available for this popular native species. Much selection has been done to find dwarf varieties. Below are some of the more interesting /easy to find options.

'Angel Falls', 'Blue Shag', 'Compacta', 'Coney Island', 'Contorta', 'Fastigiata', 'Fastigiata', 'Fastigiata', 'Glauca', 'Globosa', 'Greg', 'Hillside Winter Gold', 'Louie', 'Macopin', 'Mini Twists', 'Nana', 'Niagara Falls', 'Pendula', 'Pendula', 'Sea Urchin', 'Stony Brook', 'UConn'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 50' - 80' (spread 20' - 40')

Leaves: Evergreen

Shape: pyramidal; open & irregular with age

Ornamental Other: full sun required; extremely sensitive to air pollution; will not tolerate alkaline soils

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3a

Soil Ph: Requires acid (pH 5.0 to 7.0)

Salt Tolerance:

Environmental Other: full sun required; extremely sensitive to air pollution; will not tolerate alkaline soils

Moisture Tolerance:

Consistently moist, well-drained soil; Occasional periods of dry soil See graphic below

Insect Disease

No diseases listed

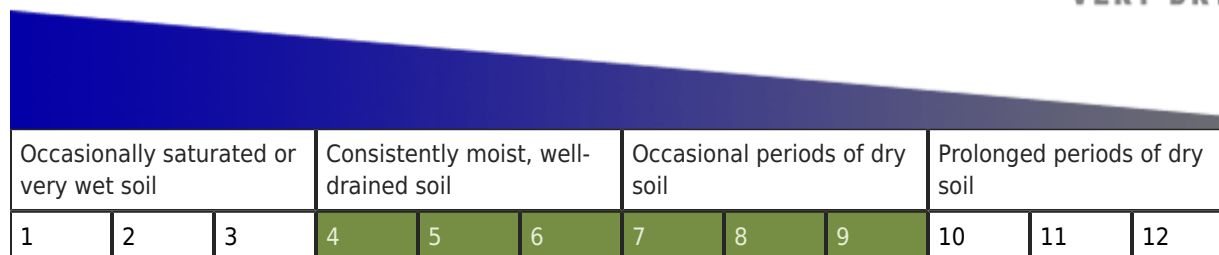
Additional Other

Transplant B & B in spring or fall

Moisture Tolerance

VERY WET

VERY DRY



Photos



Pinus strobus - Bark



Pinus strobus - Cone



Pinus strobus - Habit



Pinus strobus - Habit



Pinus strobus - Bark



Pinus strobus - Leaves



Pinus strobus - Leaves, Cones



Pinus strobus - Habit



Pinus strobus - Bud



Species: *Pinus sylvestris*

(pye'nus sil-ves'tris)

Scotch Pine

Cultivars

'Albyn Prostrata', 'Aurea', 'Beacon Hill', 'Beauvronensis', 'Bonna', 'Chantry Blue', 'Cupcake', 'Doone Valley', 'Fastigiata', 'Frensham', 'Glauca Nana', 'Globosa Viridis', 'Gold Coin', 'Green Penguin', 'Greg's Variegated', 'Hillside Creeper', 'Inverleith', 'Jeremy', 'Kelpie', 'Little Ann', 'Little Brolly', 'Mitch's Weeper', 'Moseri', 'Nisbet's Gem', 'Piskowitz', 'Pixie', 'Pumila', 'Repens', 'Riverside Gem', 'Silver Column', 'Slim Jim', 'Watereri'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 30' - 60' (spread 30' - 40')

Leaves: Evergreen

Shape: irreg. pyramidal; flat-topped or rounded with age

Ornamental Other: full sun required; tolerant of sterile soils

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3a

Soil Ph: Requires acid (pH 5.0 to 7.0)

Salt Tolerance:

Environmental Other: full sun required; tolerant of sterile soils

Moisture Tolerance:

Consistently moist, well-drained soil;
Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

No diseases listed

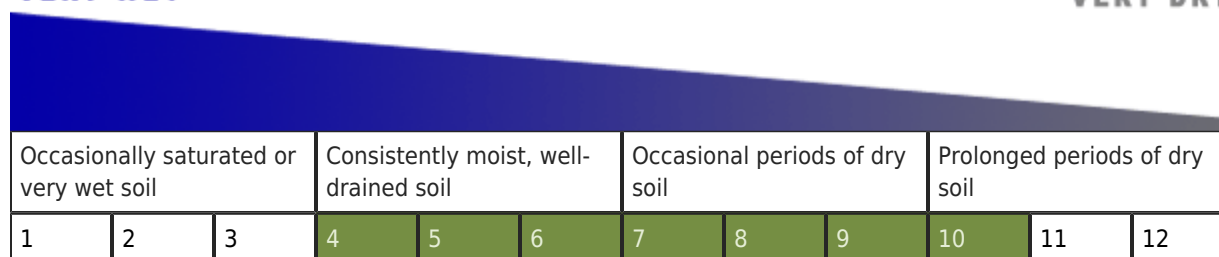
Additional Other

Transplant B & B in spring or fall

Moisture Tolerance

VERY WET

VERY DRY



Photos



Pinus sylvestris - Bark



Pinus sylvestris - Habit



Pinus sylvestris - Cones



Pinus sylvestris - Leaves



Pinus sylvestris - Habit



Pinus sylvestris - Leaves



Pinus sylvestris - Habit



Pinus sylvestris - Habit



Pinus sylvestris - Bark



Species: *Platanus occidentalis*

(plat'an-us ok-sih-den-ta'lis)

American Plane Tree; Eastern Sycamore

Cultivars

'Howard'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 75' - 100' (equal or greater spread)

Leaves: Deciduous

Shape: irregular, wide-spreading open crown

Ornamental Other: tolerant of urban conditions; requires abundant space; prefers deep, rich soil; full sun - light shade

Environmental Characteristics

Light: Full sun, Part shade

Hardy To Zone: 4b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance: Tolerates salty soil

Environmental Other: tolerant of urban conditions; requires abundant space; prefers deep, rich soil; full sun - light shade

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

many diseases; anthracnose is a serious problem

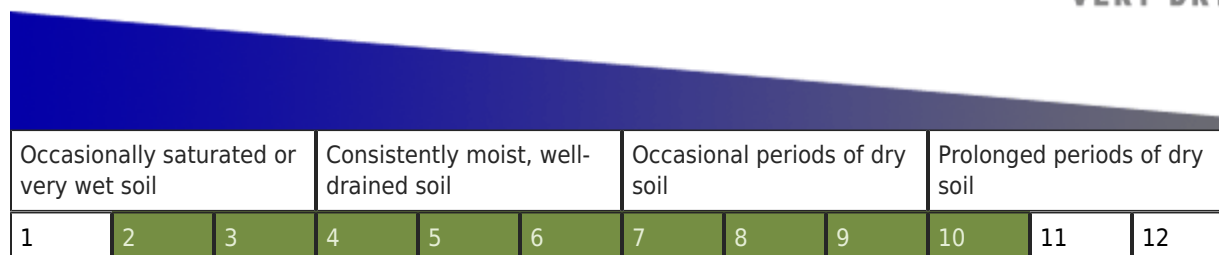
Additional Other

easily transplanted; tends to litter the ground with twigs, leaves, bark and fruit, native to Northern and Midwestern US and Canada.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Platanus occidentalis bark



Platanus occidentalis Skirt ED



platanus occ color



Platanus occidentalis Foliage ED
(2)



PIOc B Beebe



Platanus occidentalis Sapling ED



Platanus occidentalis tree2



DSCN0953



Platanus occidentalis Bud ED



Species: *Platanus x acerifolia*

(plat'an-us a-ser-i-fo'lee-ah)

London Planetree

Cultivars

'Bloodgood', 'Columbia', 'Liberty', 'Metroshade', 'Mirkovec', 'Morton Circle', 'Yarwood'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 70' - 100'
 Leaves: Deciduous
 Shape: pyramidal when young;
 open, spreading with age
 Ornamental Other: tolerates wet
 and intermittently flooded sites;
 drought tolerant

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 5b
 Soil Ph: Can tolerate acid to alkaline soil
 (pH 5.0 to 8.0)
 Salt Tolerance: Tolerates salty soil
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

'Columbia' and 'Liberty' resistant
 to anthracnose & powdery mildew;
 'Bloodgood' resistant to
 Anthracnose; cankerstain may be a
 problem

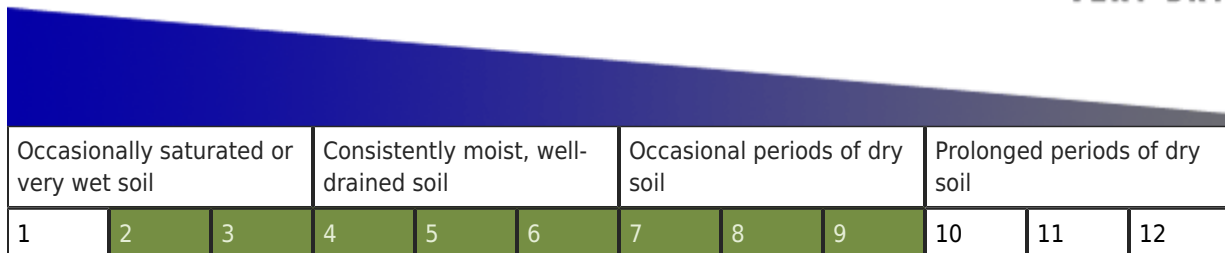
Additional Other

hybrid of *P. orientalis* x *P. occidentalis*;
 transplant in spring or fall

Moisture Tolerance

VERY WET

VERY DRY



Photos



Platanus x acerifolia - Bark



Platanus x acerifolia - Habit



Platanus x acerifolia - Habit



Platanus x acerifolia - Leaves



Platanus x acerifolia - Habit



Platanus x acerifolia - Leaf



Platanus x acerifolia - Seeds



Platanus x acerifolia - Habit



Platanus x acerifolia - Bark



Species: *Populus alba*

(pop'you-lus al'bah)

White Poplar; Abele

Cultivars

'Nivea', 'Pyramidalis'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 40' - 70' (equal spread)
 Leaves: Deciduous
 Shape: wide-spreading; irregular rounded crown
 Ornamental Other: prefers deep loam; full sun; tolerant of air pollution

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance: Tolerates salt spray, Tolerates salty soil
 Environmental Other: dark green maple-like leaves with woolly white undersides; creamy gray-green bark
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

many problems; serious stem and trunk canker diseases; weak wood susceptible to breakage

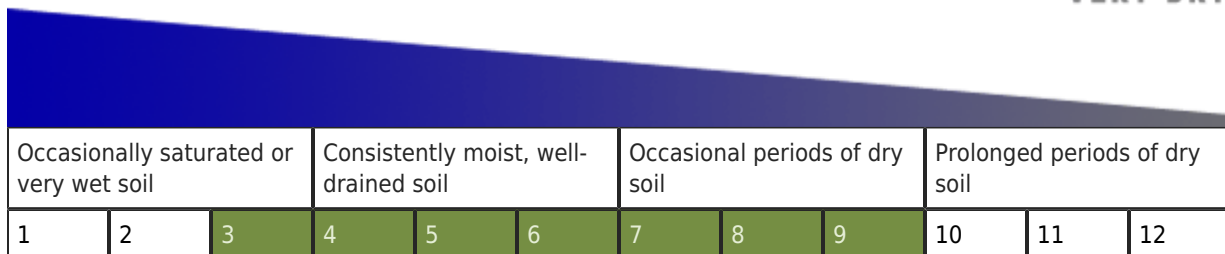
Additional Other

spreads by suckers; weak wood easily damaged by storms causes litter problems; native to Europe and Asia; roots can clog drain lines and buckle pavement; use of this tree is prohibited in many cities

Moisture Tolerance

VERY WET

VERY DRY



Photos



PoAl B YorkSt



Populus alba leaves2



Populus alba tree

Species: *Populus deltoides*

(pop'you-lus del-toy'deez)

Northern Cottonwood

Cultivars

Some selection has been done for this native species. Due its its tendency to drop branches it is not often used in cultivation as it can pose safety hazards. Selection has been done for cotton-less forms.

'Noreaster', 'Purple Tower', 'Robusta', 'Siouxland', 'Sparks'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 75' - 100' (50' - 75' spread)

Leaves: Deciduous

Shape: upright, spreading, irregular vase-shape

Ornamental Other: tolerates pollution; short-lived; fast-growing

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance: Tolerates salty soil

Environmental Other: tolerates pollution; short-lived; fast-growing

Moisture Tolerance:

Occasionally saturated or very wet soil;

Consistently moist, well-drained soil;

Occasional periods of dry soil

See graphic below

Insect Disease

canker is a serious problem, among many

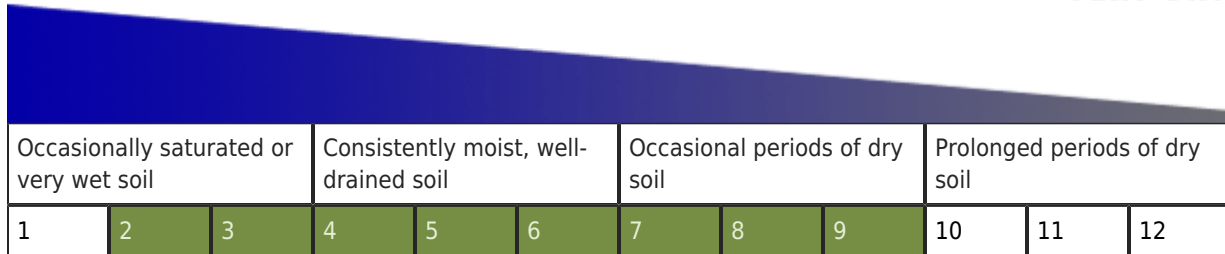
Additional Other

many disease problems cause the tree to drop leaves, twigs and other litter; weak, soft wood susceptible to breakage in storms; easily transplanted, native to Northeastern and Midwest US and Canada.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Populus deltoides - Bark



Populus deltoides - Habit



Populus deltoides - Leaves



Populus deltoides - Leaf



Populus deltoides - Habit



Populus deltoides - Habit



Populus deltoides - Habit



Species: *Populus tremuloides*

(pop'you-lus trem-you-loy'deez)

Quaking Aspen

Cultivars

'Driefest', 'Erecta', 'Mountain Sentinel', 'Pendula', 'Prairie Gold'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 40' - 50' (spread 20' - 30')
 Leaves: Deciduous
 Shape: pyramidal
 Ornamental Other: adaptable to soil conditions; fast-growing; short-lived

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: adaptable to soil conditions; fast-growing; short-lived
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil; Prolonged periods of dry soil
 See graphic below

Insect Disease

weak-wooded; susceptible to disease

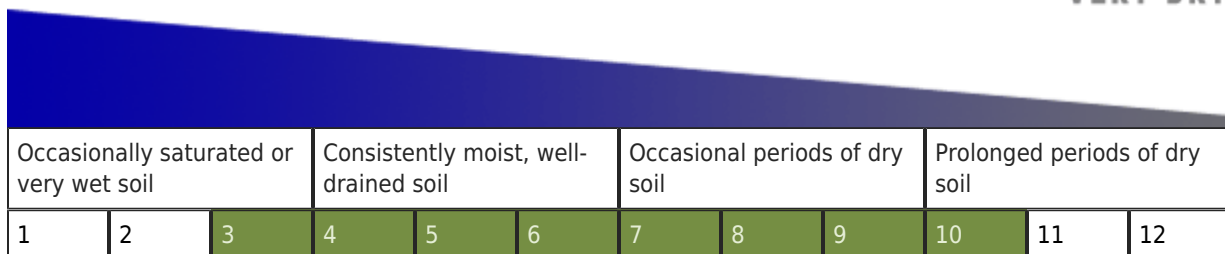
Additional Other

native to northern North America

Moisture Tolerance

VERY WET

VERY DRY



Photos



Populus tremuloides - Catkins



Populus tremuloides - Leaves



Populus tremuloides - Bark



Populus tremuloides - Habit



Populus tremuloides - Habit



Populus tremuloides - Habit



Populus tremuloides - Bark



Populus tremuloides - Buds



Populus tremuloides - Catkins



Species: *Prunus* 'Accolade'

Accolade Flowering Cherry

Cultivars

No cultivars listed

Ornamental Characteristics

Size: Tree < 30 feet
 Height: 20'-25', width 15'-25'
 Leaves: Deciduous
 Shape: rounded to vase-shaped, spreading
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 5a
 Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)
 Salt Tolerance: Tolerates salt spray
 Environmental Other:
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

Prunus have many potential problems; 'Accolade'™ is reportedly more resistant than most

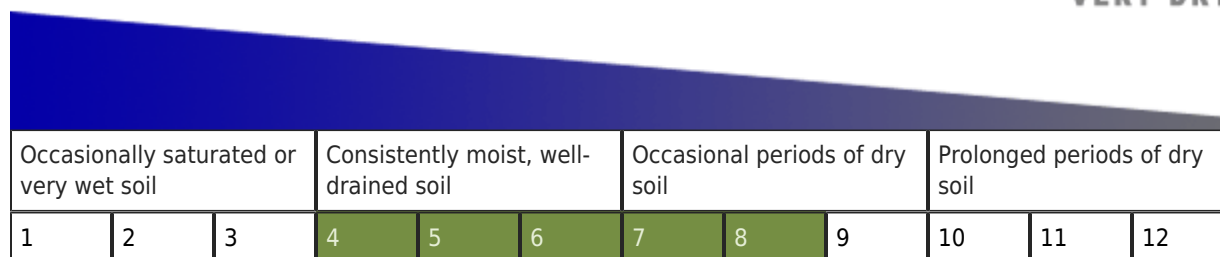
Additional Other

cross: *P. sargentii* x *P. subhirtella*

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus 'Accolade' - Flowers



Prunus 'Accolade' - Flowers



Prunus 'Accolade' - Flowers



Prunus 'Accolade' - Habit, Flowers



Prunus 'Accolade' - Flowers



Species: *Prunus cerasifera*

(prue'nus ser-ah-sif'urr-ah)

Cherry Plum

Cultivars

'Atropurpurea', 'Blireiana', 'Crimson Pointe', 'Golden Sphere', 'Gypsy', 'Hessei', 'Krauter Vesuvius', 'Mt. St. Helens', 'Newport', 'Oakville Crimson Spire', 'Purple Pony', 'Ruby', 'Thundercloud', 'Thundercloud'

Ornamental Characteristics

Size: Tree < 30 feet

Environmental Characteristics

Light: Full sun

Height: 15' - 30' (spread 15' - 25')

Leaves: Deciduous

Shape: small shrubby tree;
rounded

Ornamental Other: full sun

Hardy To Zone: 5a

Soil Ph: Can tolerate acid to alkaline soil
(pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: full sun

Moisture Tolerance:

Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

many, among them: aphids,
borers, scale, tent caterpillars,
canker, leaf spots

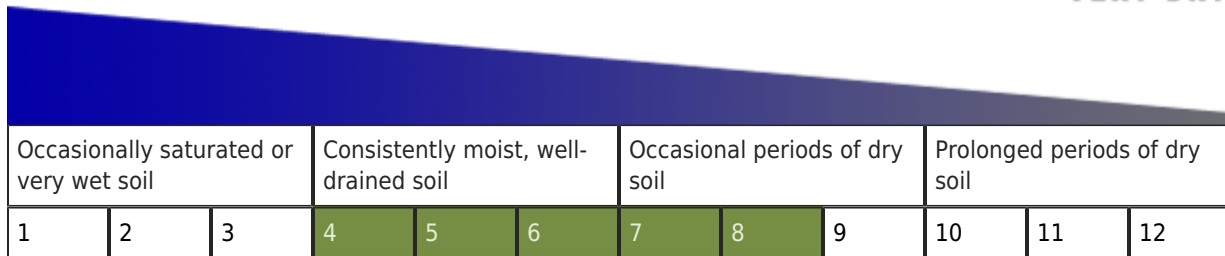
Additional Other

native to western Asia, Caucasus;
transplant B&B, bare root or container
grown

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus cerasifera - Flowers



Prunus cerasifera - Flowers



Prunus cerasifera - Habit



Prunus cerasifera - Flowers



Prunus cerasifera - Habit



Prunus cerasifera - Habit, Flowers



Prunus cerasifera - Habit, Flowers



Prunus cerasifera - Flowers



Prunus cerasifera - Leaves



Species: *Prunus glandulosa*

(prue'nus gland-you-low'sah)

Dwarf Flowering Almond

Cultivars

'Alba', 'Alba Plena', 'Lawrence', 'Rosea Plena'

Ornamental Characteristics

Size: Shrub 4 to 8 feet
 Height: 4' - 5' (equal spread)
 Leaves: Deciduous
 Shape: small, wispy shrub
 Ornamental Other: durable and adaptable

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: showy, double rose-pink flowers in April/May; leaves bright to medium green - no fall color change; only one season of interest
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

borers, mice

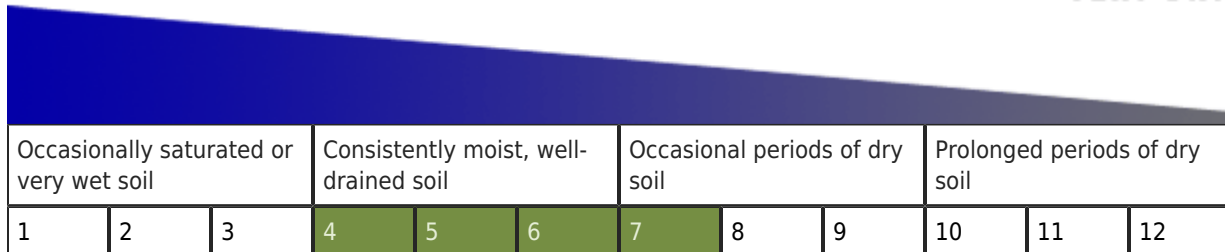
Additional Other

tendency to sucker

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus glandulosa flower



Prunus glandulosa flower2

**Species: *Prunus laurocerasus***

(prue'nus lor-o-ser-ray'sus)

Common Cherrylaurel; English Laurel

Cultivars

There are several cultivars available for this species. Many varieties are unavailable outside of the United Kingdom/Europe.

'Camelliifolia', 'Castlewellan', 'Chestnut Hill', 'Compacta', 'Majestic Jade', 'Marbled Dragon', 'Mt. Vernon', 'Nana', 'Otto Luyken', 'Schipkaensis'

Ornamental Characteristics

Size: Shrub > 8 feet, Shrub 4 to 8 feet

Height: 10' - 18' (spread 25' - 30')

Leaves: Evergreen

Shape: wide-spreading, dense

Ornamental Other: full sun or shade (best in part- to full- shade); protect from full sun and wind in winter

Environmental Characteristics

Light: Part shade, Shade

Hardy To Zone: 6a

Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)

Salt Tolerance:

Environmental Other: evergreen shrub; lustrous and leathery green leaves; green fruits ripen to purplish-black (not of significant landscape value); excessively fragrant, small, white flowers in spring

Moisture Tolerance:

Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

adequate drainage is needed to prevent insect damage; susceptible to brown rot fungus, white flies, borers

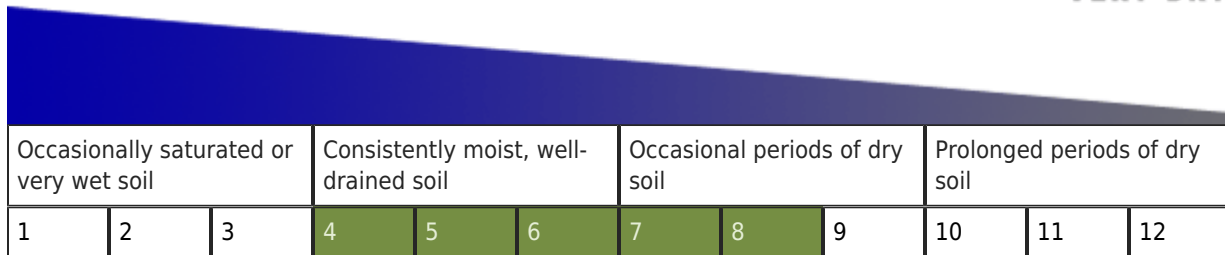
Additional Other

native to southeastern Europe and Asia
Minor; transplant B&B or from container; useful in hedges, screens, massing

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus laurocerasus - Leaf
Underside



Prunus laurocerasus - Leaves



Prunus laurocerasus - Habit



Prunus laurocerasus - Habit



Prunus laurocerasus - Habit,
Flowers



Prunus laurocerasus - Bud



Prunus laurocerasus - Habit



Prunus laurocerasus - Bark



Prunus laurocerasus - Leaves



Species: *Prunus maackii*

Amur Chokecherry, Manchurian Chokecherry

Cultivars

'Amber Beauty', 'Goldrush', 'Goldspur'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 35 to 45' tall, 25 to 35' wide
 Leaves: Deciduous
 Shape: Young trees are pyramidal, rounded and dense at maturity
 Ornamental Other: full sun

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: full sun
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

aphids, scale, borers

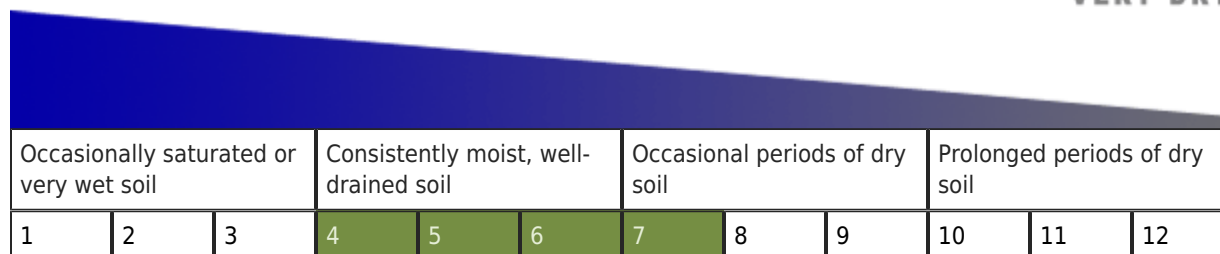
Additional Other

Native to Manchuria and Korea

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus maackii - Bark



Prunus maackii - Bark



Prunus maackii - Bark



Prunus maackii - Leaves



Prunus maackii - Habit



Prunus maackii - Leaves



Prunus maackii - Habit



Prunus maackii - Habit



Prunus maackii - Habit



Species: *Prunus sargentii*

(prue'nus sar-jen'tee-eye)

Sargent Cherry

Cultivars

'Accolade', 'Columnaris', 'Pink Flair', 'Princeton Snowcloud', 'Rancho'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 40' - 50'
 Leaves: Deciduous
 Shape: vase; round with age
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4b
 Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)
 Salt Tolerance: Tolerates salty soil
 Environmental Other:
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

none serious

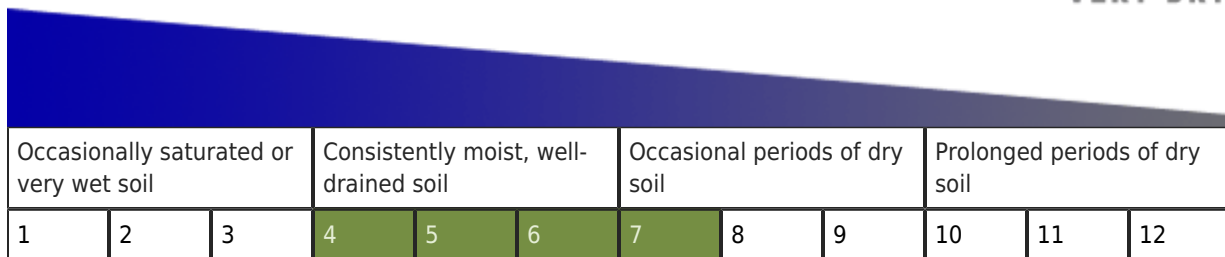
Additional Other

native to Japan; transplant in spring

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus sargentii - Bark



Prunus sargentii - Habit, Flowers



Prunus sargentii - Habit, Flowers



Prunus sargentii - Bark



Prunus sargentii - Habit



Prunus sargentii - Bark



Prunus sargentii - Leaf



Prunus sargentii - Habit



Prunus sargentii 'Columnaris' -
Habit, Flowers



Species: *Prunus serotina*

(prue'nus ser-ot'in-ah)

Black Cherry

Cultivars

'Spring Sparkle'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 50' - 60' (spread 20' - 30')
 Leaves: Deciduous
 Shape: pyramidal - oval
 Ornamental Other: prefers deep, fertile soils

Environmental Characteristics

Light: Full sun, Part shade
 Hardy To Zone: 3b
 Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)
 Salt Tolerance:
 Environmental Other: bronze/bright green new foliage matures to dark green, then turns yellow to red in fall; mature bark is gray-black and scaly; white flowers in May; edible berries (red - black) used in wine and jelly
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

not seriously affected by disease - one of the most trouble-free cherries; wood is brittle and subject to breakage

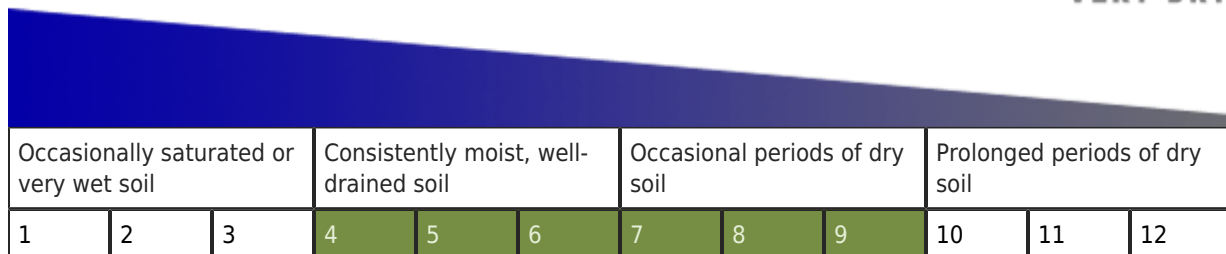
Additional Other

Native to E. N. America

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus serotina - Leaf



Prunus serotina - Leaf



Prunus serotina - Leaves



Prunus serotina - Habit



Prunus serotina - Leaves, Fruit



Prunus serotina - Bark



Prunus serotina - Bark



Prunus serotina - Leaf Midrib



Prunus serotina - Bark



Species: *Prunus serrulata*

(prue'nus ser-u-lay'tah)

Japanese Flowering Cherry

Cultivars

'Amanogawa', 'Autumnalis', 'Beni-Hoshi', 'Fugenzo', 'Kwanzan', 'Mt. Fuji', 'New Red', 'Ojochin', 'Okame', 'Prentice Dancer', 'Royal Burgundy', 'Shirofugen', 'Shogetsu', 'Ukon'

Ornamental Characteristics

Size: Tree > 30 feet, Tree < 30 feet
 Height: 50' - 75' (cultivar heights 20' - 35')
 Leaves: Deciduous
 Shape: vase to rounded
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 5b
 Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

Fungus and viruses are a serious problem; short-lived

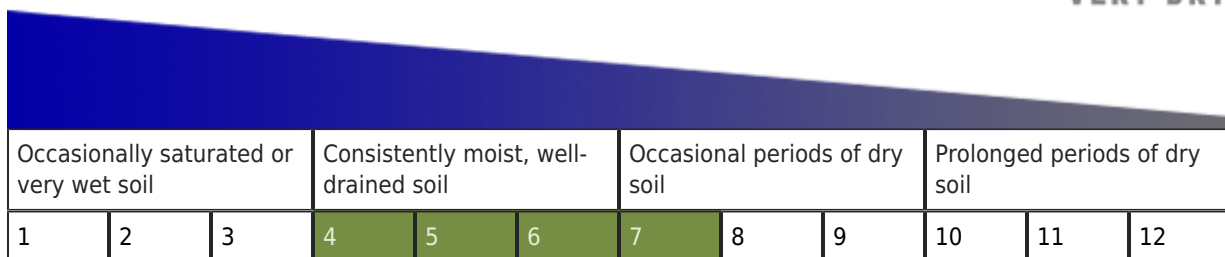
Additional Other

native to Japan, Korea, China; transplant in spring

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus serrulata - Habit



Prunus serrulata - Flowers



Prunus serrulata - Leaves



Prunus serrulata - Habit, Flowers



Prunus serrulata - Bark



Prunus serrulata - Habit



Prunus serrulata - Buds



Prunus serrulata - Bark



Prunus serrulata - Leaves



Species: *Prunus subhirtella*

(prue'nus sub-hir-tel'ah)

Higan Cherry

Cultivars

'Autumnalis', 'Pendula', 'Pendula Plena Rosea', 'Pendula Rubra', 'Rosy Cloud', 'Stellata', 'Whitcomb', 'Winter Sun'

Ornamental Characteristics

Size: Tree < 30 feet
 Height: 20' - 40' (equal spread)
 Leaves: Deciduous
 Shape: graceful, weeping habit
 Ornamental Other:

Environmental Characteristics

Light: Full sun, Part shade
 Hardy To Zone: 5b
 Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

not as seriously affected by disease as other Asian Cherries

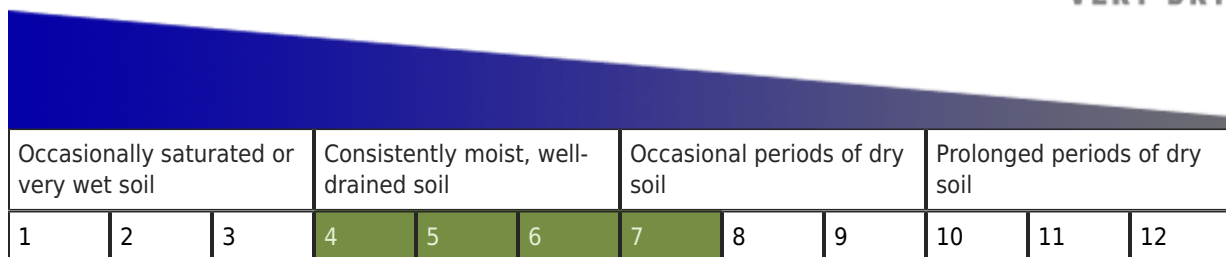
Additional Other

native to Japan

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus subhirtella - Bark



Prunus subhirtella - Flowers



Prunus subhirtella - Flowers



Prunus subhirtella - Flowers



Prunus subhirtella - Habit, Flowers



Prunus subhirtella - Habit, Flowers



Prunus subhirtella - Buds



Prunus subhirtella - Bark



Prunus subhirtella - Habit



Species: *Prunus tomentosa*

(prue'nus to-men-toh'sah)

Manchu Cherry; Nanking Cherry

Cultivars

'Leucocarpa', 'Orient', 'Pink Candles'

Ornamental Characteristics

Size: Shrub > 8 feet
 Height: 8' - 9' (spread 15')
 Leaves: Deciduous
 Shape: rounded
 Ornamental Other: full sun;
 tolerates extreme cold and wind

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3a
 Soil Ph: Can tolerate acid to alkaline soil
 (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: full sun; tolerates
 extreme cold and wind
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

No diseases listed

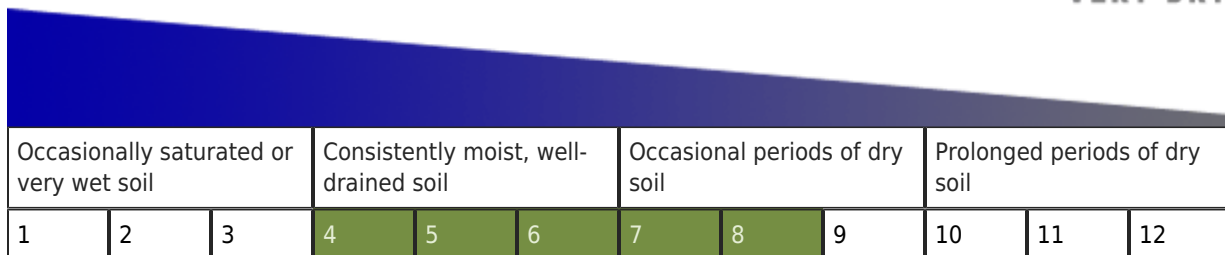
Additional Other

Edible fruit native to China and Japan; plant
 in groups for best fruiting

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus tomentosa - Flowers



Prunus tomentosa - Flowers



Prunus tomentosa - Leaves



Prunus tomentosa - Habit



Prunus tomentosa - Habit



Prunus tomentosa - Habit



Prunus tomentosa - Flowers



Species: *Prunus virginiana*

(prue'nus ver-jin-i-ay'nah)

Chokecherry

Cultivars

All varieties produce, fruit which is very astringent, hence the common name. Fruit may be used in sauces, jellies and preserves, however. Fruits are very attractive to wildlife.

'Bailey Select', 'Boughen's Chokeless', 'Canada Red', 'Copper Schubert', 'Mini-Schubert', 'Purple Jewel', 'Robert', 'Schubert'

Ornamental Characteristics

Size: Tree < 30 feet
 Height: 20' - 35' (spread 18' - 25')
 Leaves: Deciduous
 Shape: small tree or large shrub;
 oval-rounded crown
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3a
 Soil Ph: Can tolerate acid to alkaline soil
 (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

VERY SUSCEPTIBLE to eastern tent caterpillar and black knot fungus. In areas where these are a problem, this plant shouldn't be used.

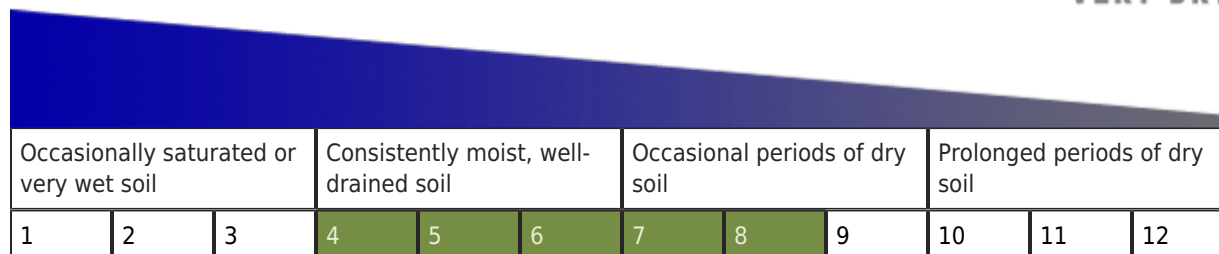
Additional Other

native to Canada and northern U.S.; suckers heavily

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus virginiana 'Canada Red' -
Habit



Prunus virginiana 'Canada Red' -
Habit



Prunus virginiana - Leaf



Prunus virginiana - Flowers



Prunus virginiana - Habit



Prunus virginiana - Flowers



Prunus virginiana - Leaves



Prunus virginiana - Flowers



Prunus virginiana - Fruit



Species: *Prunus x yedoensis*

Yoshino Cherry

Cultivars

'Afterglow', 'Akebono', 'Cascade Snow', 'Cascade Snow', 'Ivensii', 'Pink Shell', 'Shidare-yoshino', 'Snow Fountains', 'Washi-no-o', 'Yoshino Pink Form'

Ornamental Characteristics

Size: Tree < 30 feet
 Height: 15-25'
 Leaves: Deciduous
 Shape: spreading, rounded habit
 Ornamental Other: Famed as the tidal basin cherry of Washington DC.

Environmental Characteristics

Light: Full sun, Part shade
 Hardy To Zone: 5b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: Very early beautiful pink or white flowers
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

No diseases listed

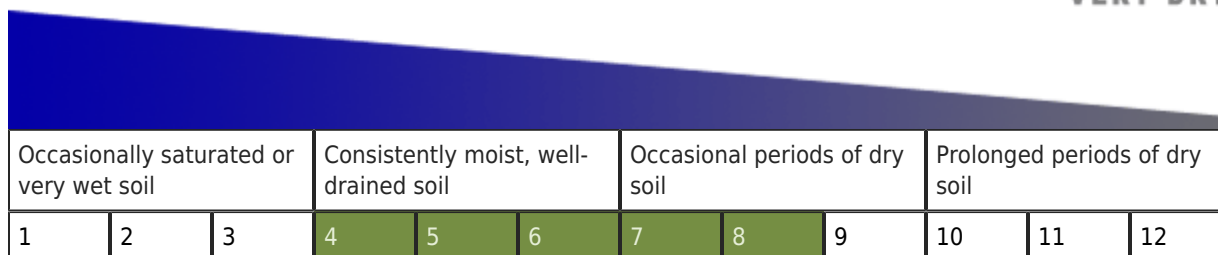
Additional Other

Native to China.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Prunus x yedoensis - Habit



Prunus x yedoensis - Leaves



Prunus x yedoensis - Leaves, Bark



Prunus x yedoensis - Bark



Prunus x yedoensis - Bark



Prunus x yedoensis - Leaf



Prunus x yedoensis - Sepals



flowers and habit



Species: *Pyrus calleryana*

(pye'rus kal-ler-ee-ay'nah)

Callery Pear

Cultivars

Prized for its spring flower show, glossy foliage, fall color, and urban tolerance this species has a variety of cultivars. Older varieties have problems with poor branch angles, resulting in splitting. Fire blight can be a problem with some. This species has been shown to have invasive tendencies throughout most of its range (particularly in Zone 6 and warmer). No truly sterile cultivars are known at this time.

'Aristocrat', 'Autumn Blaze', 'Bradford', 'Burgundy Snow', 'Capital', 'Chanticleer', 'Dancer', 'Fauriei', 'Holmford', 'Jack', 'Javelin', 'Jill', 'Korean Sun', 'Redspire', 'Trinity', 'Whitehouse'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 30' - 50'

Leaves: Deciduous

Shape: round, pyramidal

Ornamental Other: tolerates heavy soils

Environmental Characteristics

Light: Full sun

Hardy To Zone: 5a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance: Tolerates salty soil

Environmental Other:

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

'Autumn Blaze', 'Cleveland Select', 'Fauriei' and 'Whitehouse' tolerant to fireblight; 'Aristocrat' somewhat susceptible to fireblight

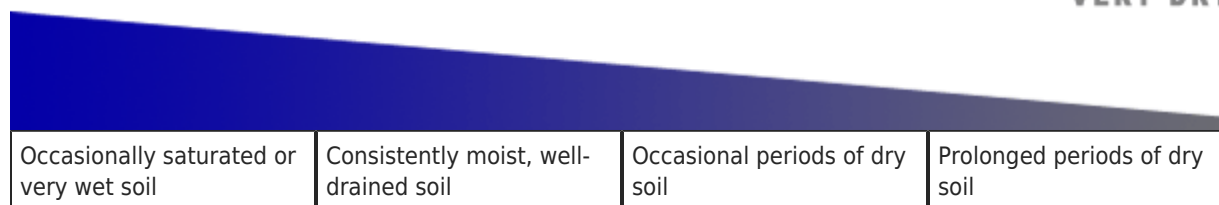
Additional Other

native to China; transplant in spring. May become invasive in zones 5 and warmer

Moisture Tolerance

VERY WET

VERY DRY



1	2	3	4	5	6	7	8	9	10	11	12
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Photos



Pyrus calleryana - Leaves, Fall Interest



Pyrus calleryana - Bark



Pyrus calleryana - Bud



Pyrus calleryana - Flowers



Pyrus calleryana - Habit



Pyrus calleryana - Habit, Flowers



Pyrus calleryana - Leaf



Pyrus calleryana - Habit



Pyrus calleryana 'Chanticleer' -
Habit, Flowers



Species: *Quercus palustris*

(kwer'kus pah-lus'tris)

Pin Oak; Swamp Oak

Cultivars

'Crownright', 'Flaming Suzy', 'Green Dwarf', 'Green Pillar', 'Isabel', 'Sovereign', 'Swamp Pygmy'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 50' - 70'

Leaves: Deciduous

Shape: pyramidal, oval with age;

Ornamental Other: iron chlorosis on high pH soils

Environmental Characteristics

Light: Full sun

Hardy To Zone: 5a

Soil Ph: Requires acid (pH 5.0 to 7.0)

Salt Tolerance:

Environmental Other:

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

overplanting has encouraged insect problems; resistant to anthracnose; preferred by orange-striped oakworm

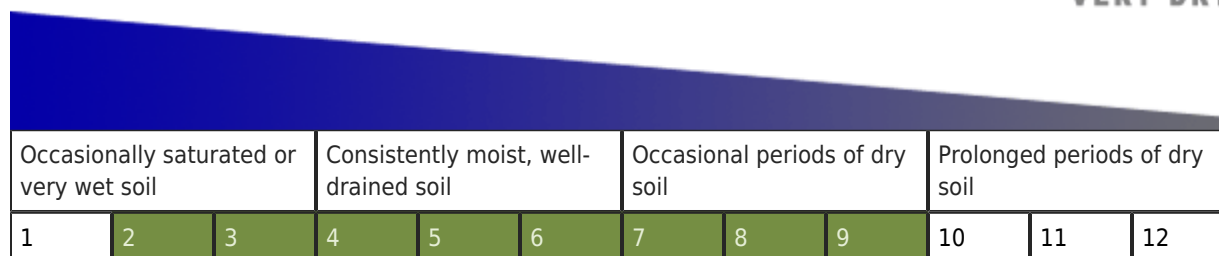
Additional Other

Native to U.S. (Massachusetts to Wisconsin, south to Delaware and Arkansas); transplant in spring; pendulous lower branches may need to be removed for pedestrian or vehicular traffic; one of the easiest oaks to transplant

Moisture Tolerance

VERY WET

VERY DRY



Photos



Quercus palustris - Habit, Fall Interest



Quercus palustris - Leaves, Fall Interest



Quercus palustris - Leaves



Quercus palustris - Habit



Quercus palustris - Habit



Quercus palustris - Habit



Quercus palustris - Habit



Quercus palustris - Bark



Quercus palustris - Buds



Species: *Quercus rubra*

(kwer'kus rue'brah)

Red Oak; Northern Red Oak

Cultivars

'Aurea', 'Boltes Gold', 'Magic Fire', 'Splendens'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 60' - 75' (equal spread)
 Leaves: Deciduous
 Shape: round habit in youth and maturity
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3b
 Soil Ph: Can tolerate acid to neutral soil (pH 5.0 to 7.4)
 Salt Tolerance: Tolerates salty soil
 Environmental Other:
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

oak wilt is a serious problem in more southern areas; resistant to anthracnose; preferred by orange-striped oakworm

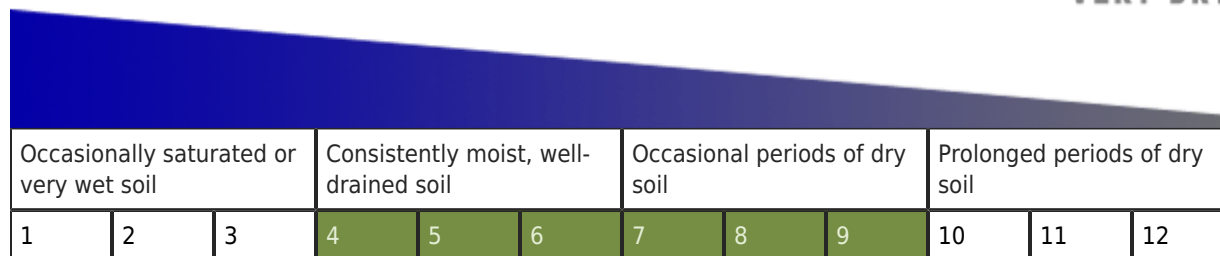
Additional Other

native to North America (Nova Scotia to Pennsylvania, west to Minnesota and Iowa); transplant in spring; like *Q. palustris*, relatively easy to transplant

Moisture Tolerance

VERY WET

VERY DRY



Photos



Quercus rubra - Bark



Quercus rubra - Habit



Quercus rubra - Leaves



Quercus rubra - Leaves, Fall
Interest



Quercus rubra - Habit



Quercus rubra - Habit



Quercus rubra - Bud



Quercus rubra - Habit



Quercus rubra - Habit



Species: *Salix acutifolia* 'Blue Streak'

Long-leaved Violet Willow

Cultivars

No cultivars listed

Ornamental Characteristics

Size: Shrub > 8 feet
 Height: 16'
 Leaves: Deciduous
 Shape: Rounded form with arching canes
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

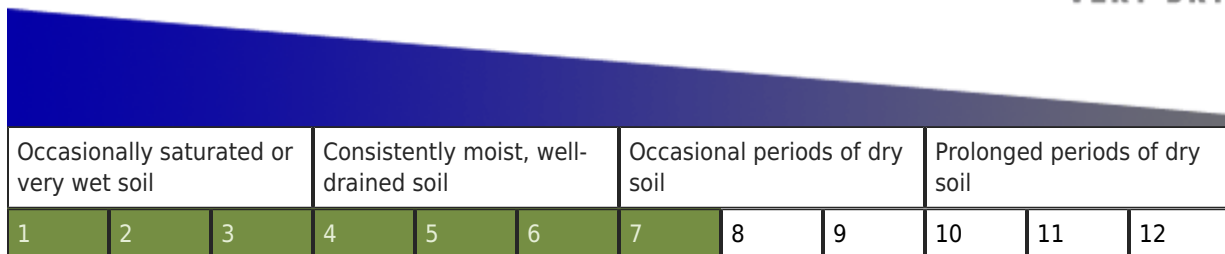
Insect Disease

Additional Other

Moisture Tolerance

VERY WET

VERY DRY



Photos



Species: *Salix alba* 'Tristis'

(say'liks al'bah tris'tis)

Weeping Golden Willow

Cultivars

No cultivars listed

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 50' - 70' (to 80')
 Leaves: Deciduous
 Shape: graceful, weeping tree; rounded outline
 Ornamental Other: full sun; cold hardy

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: full sun; cold hardy
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

subject to breakage; many disease and insect problems including canker

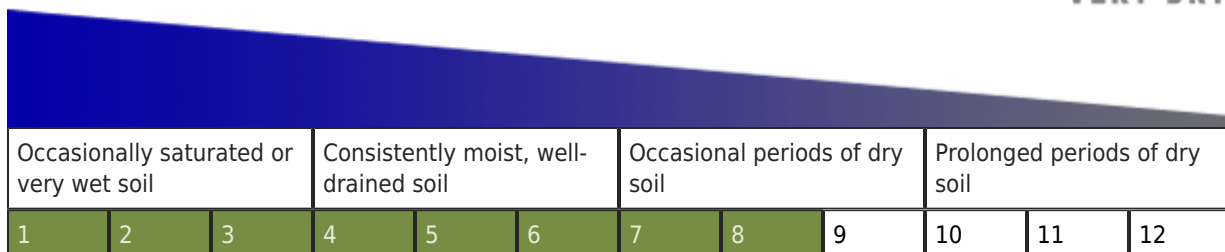
Additional Other

native from southern Europe to western Siberia, central Asia, China; easy to transplant; one of the first trees to leaf out and last to shed its leaves; twig litter can be a nuisance, native to Central Europe and Central Asia. Naturalized in North America.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Salix alba 'Tristis' - Habit



Salix alba 'Tristis' - Buds



Salix alba 'Tristis' - Habit



Salix alba 'Tristis' - Habit



Salix alba 'Tristis' - Habit



Salix alba 'Tristis' - Habit



Salix alba 'Tristis' - Bud



Salix alba 'Tristis' - Leaf



Salix alba 'Tristis' - Bark



Species: *Salix arenaria*

Creeping Silver Willow

Cultivars

No cultivars listed

Ornamental Characteristics

Size: Shrub < 4 feet
 Height: 2' tall x 5' wide
 Leaves: Deciduous
 Shape: low massing
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance: Tolerates salt spray
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

No diseases listed

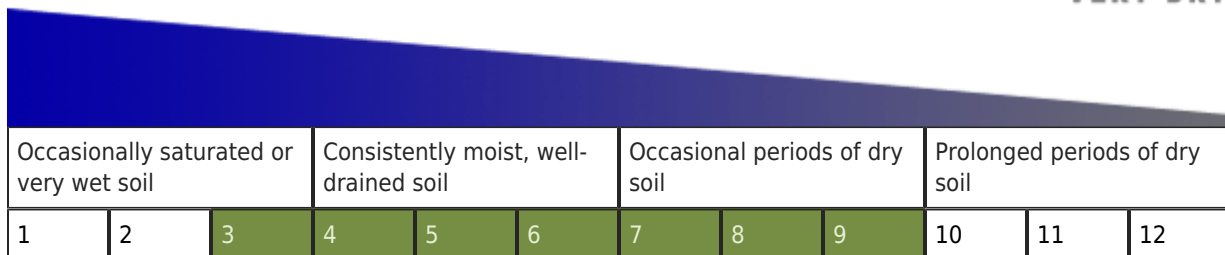
Additional Other

native to northern European coastal areas-
 North Sea to Baltic Sea, also found in inland
 Scotland

Moisture Tolerance

VERY WET

VERY DRY



Photos



Salix arenaria - Leaves



Salix arenaria - Leaves



Salix arenaria - Habit



Salix arenaria - Leaves



Sal aren1 b



Salix arenaria - Habit



Salix arenaria - Leaves



Salix arenaria - Habit



Salix arenaria - Leaves



Species: *Salix candida*

Sageleaf Willow; Hoary Willow

Cultivars

'Silver Fox'

Ornamental Characteristics

Size: Shrub > 8 feet

Height: 13'

Leaves: Deciduous

Shape: caning, upright shrub to small tree

Ornamental Other: Foliage can be leathery and glossy green on top and felted silver-grey beneath or silvery-grey and pubescent on top and bottom. It bears yellow catkins in the spring.

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: Native across almost all of northern North America. One of the most extremely cold hardy plants, hardy to USDA Zone 1. Very tolerant of saturated soils and high pH. It's drought tolerance is untested but is likely good.

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil
See graphic below

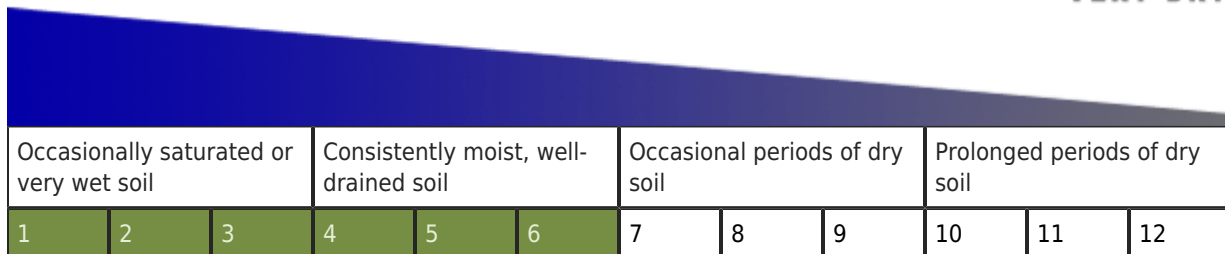
Insect Disease

Additional Other

Moisture Tolerance

VERY WET

VERY DRY



Photos

Species: *Salix caprea*

(say'liks cap'ree-ah)

Goat Willow; Pussy Willow

Cultivars

This European species has few cultivars how ever there are several closely related species that also can sometime be found in cultivation: *S. discolor* (North America; 'Rosea' has pale rosy catkins), and *S. gracilistyla* (Asia; 'Melanostachys' bears black catkins with red anthers)

'Curly Locks', 'Pendula'

Ornamental Characteristics

Size: Shrub > 8 feet

Height: 15' - 25' (to 30') (12' - 15' spread)

Leaves: Deciduous

Shape: shrub or small tree

Ornamental Other: best in full sun (rangy in shade)

Environmental Characteristics

Light: Full sun, Part shade

Hardy To Zone: 3b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: flowers very early - March or April; soft silky catkins (hence the common name)

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

short-lived due to many insect and disease problems

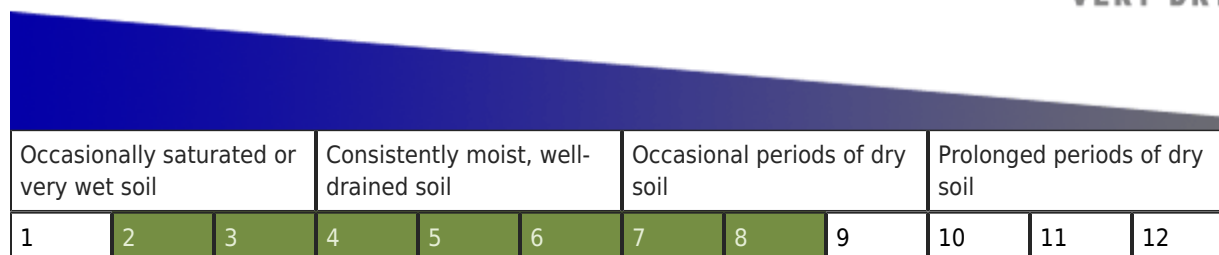
Additional Other

native to Europe, northeast Asia, Japan

Moisture Tolerance

VERY WET

VERY DRY



Photos



Salix caprea - Fruit



Salix caprea - Fruit, Leaf



Salix caprea - Habit



Salix caprea - Habit



Salix caprea - Habit



Salix caprea - Leaves



Salix caprea - Male Catkins, Male
Fruit



Salix caprea - Habit



Salix caprea - Bark



Species: *Salix integra* 'Hakuro Nashiki'

(say'liks in-teh'grah)

Nishiki Willow

Cultivars

'Albemaculata'

Ornamental Characteristics

Size: Shrub 4 to 8 feet

Height: up to 10'. Can be easily kept shorter by severe pruning in Spring.

Leaves: Deciduous

Shape: shrub

Ornamental Other:

Environmental Characteristics

Light: Full sun

Hardy To Zone: 5b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: salmon pink new shoots age to white variegation and may be seen as a shrub or grafted as tree form

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

bacterial twig light; crown gall; leaf blight; black canker

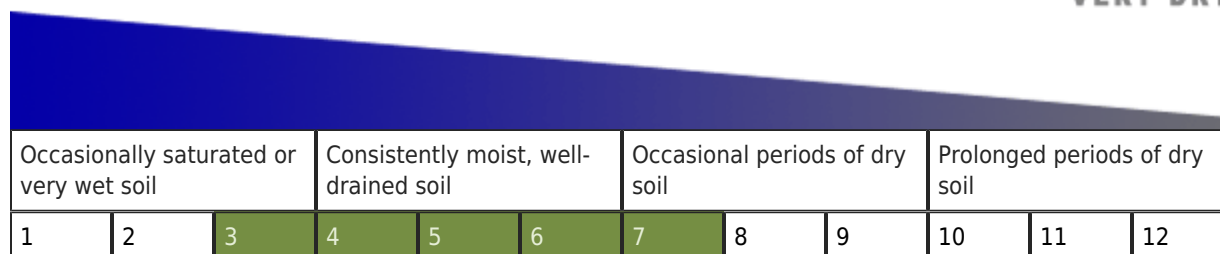
Additional Other

cut back late in winter to encourage new growth

Moisture Tolerance

VERY WET

VERY DRY



Photos



Salix integra 'Hakuro Nashiki' -
Leaves



Salix integra 'Hakuro Nashiki' -
Leaves



Salix integra 'Hakuro Nashiki' -
Habit



Salix integra 'Hakuro Nashiki' -
Habit



Salix integra 'Hakuro Nashiki' -
Habit



Salix integra 'Hakuro Nashiki' -
Habit



Salix integra 'Hakuro Nashiki' -
Shoots



Salix integra 'Hakuro Nashiki' -
Leaves



Salix integra 'Hakuro Nashiki' -
Bark



Species: *Salix irrorata*

Dewystem Willow; Bluestem Willow

Cultivars

No cultivars listed

Ornamental Characteristics

Size: Shrub > 8 feet
 Height: 6 - 10'
 Leaves: Deciduous
 Shape: dense, upright form
 Ornamental Other: Stems are bluish-white to blue/bluish purple. Stem color contrasts well with yellow spring catkins and yellow fall foliage.

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 5a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

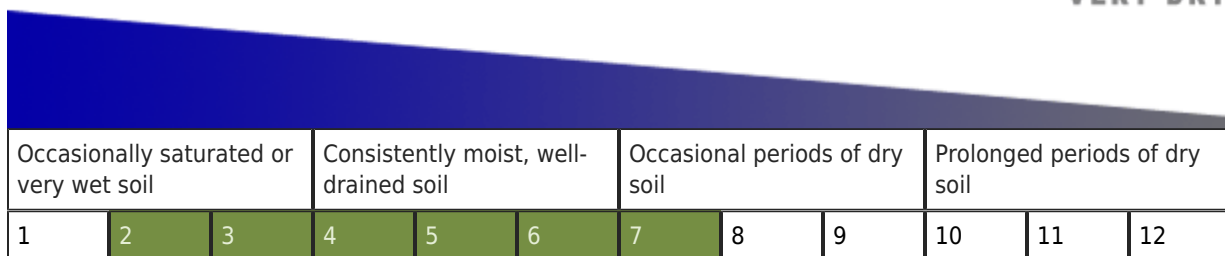
Insect Disease

Additional Other

Moisture Tolerance

VERY WET

VERY DRY



Photos



Species: *Salix matsudana* 'Tortuosa'

(SAY-licks mat-soo-DAY-nuh)

Dragon's Claw Willow

Cultivars

No cultivars listed

Ornamental Characteristics

Size: Tree < 30 feet
 Height: 20-25 feet
 Leaves: Deciduous
 Shape: Upright Spreading
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 5b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance: Tolerates salt spray
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

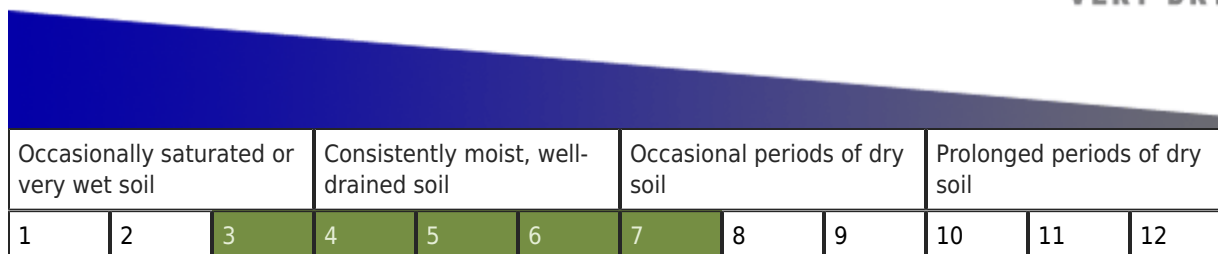
Canker

Additional Other

Moisture Tolerance

VERY WET

VERY DRY



Photos



Salix matsudana 'Tortuosa' -
Leaves



Salix matsudana 'Tortuosa' -
Leaves



Salix matsudana 'Tortuosa' - Bark



Salix matsudana 'Tortuosa' - Bud



Salix matsudana 'Tortuosa' -
Leaves



Salix matsudana 'Tortuosa' - Habit



Salix matsudana 'Tortuosa' - Habit,
Salix matsudana 'Tortuosa' - Bark
Bark



Salix matsudana 'Tortuosa' - Bark



Salix matsudana 'Tortuosa' - Bark



Species: *Salix nigra*

(say'liks nye'grah)

Black Willow

Cultivars

No cultivars listed

Ornamental Characteristics

Size: Tree > 30 feet

Height: 50'

Leaves: Deciduous

Shape: broad, irregular oval;
coarse texture

Ornamental Other:

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3b

Soil Ph: Can tolerate acid to alkaline soil
(pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other:

Moisture Tolerance:

Occasionally saturated or very wet soil;

Consistently moist, well-drained soil;

Occasional periods of dry soil

See graphic below

Insect Disease

many insect and disease problems

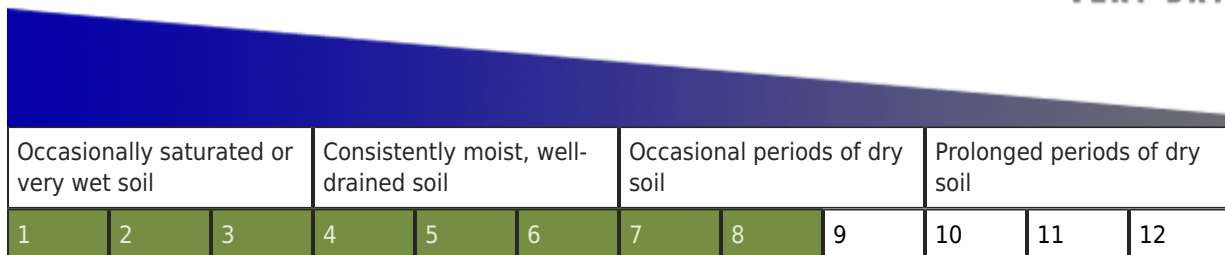
Additional Other

very weak wooded; naturalizes freely;
invasive, naturalized in North America

Moisture Tolerance

VERY WET

VERY DRY



Photos



Salix nigra - Bark



Salix nigra - Habit



Salix nigra - Bark



Salix nigra - Habit



Salix nigra - Habit



Salix nigra - Bud



Salix nigra - Habit



Species: *Salix purpurea*

(say'liks per-poo'ree-ah)

Purpleosier Willow; Basket Willow

Cultivars

'Canyon Blue', 'Gracilis', 'Nana', 'Nancy Saunders', 'Pendula', 'Streamco'

Ornamental Characteristics

Size: Shrub > 8 feet, Shrub 4 to 8 feet

Height: 8' - 10' (spread 12' - 15')

Leaves: Deciduous

Shape: round, dense, finely branched

Ornamental Other: best in full sun

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: best in full sun

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

prone to a variety of insect and disease problems

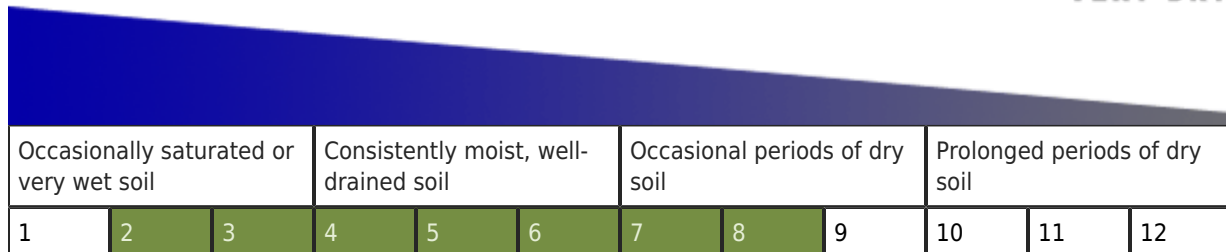
Additional Other

S. purpurea native to Europe, North Africa, central Asia, Japan; introduced by Soil Conservation Service, USDA; useful for stream bank stabilization; lay bundles in stream stabilization areas and will send up shoots to help prevent erosion; needs maintenance to remain attractive; useful for phytoremediation

Moisture Tolerance

VERY WET

VERY DRY



Photos



Salix purpurea - Habit



Salix purpurea - Leaves



Salix purpurea - Leaves



Salix purpurea leaves2



Salix purpurea 'Streamco' - Habit



Salix purpurea 'Pendula' - Habit



Salix purpurea twig



Salix purpurea - Habit



Salix purpurea - Habit



Species: *Syringa reticulata*

(si-ring'gah reh-tick'you-lay-tah)

Japanese Tree Lilac

Cultivars

'Cameo Jewel', 'Chantilly Lace', 'Ivory Silk', 'Regent', 'Snow Cap', 'Snowdance', 'Summer Snow'

Ornamental Characteristics

Size: Tree < 30 feet

Height: 25' - 30' (spread 15' - 25')

Leaves: Deciduous

Shape: oval tree

Ornamental Other: slow growing

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance: Tolerates salty soil

Environmental Other: large, cream colored flowers in late June; suitable for large containers; lustrous brown bark with horizontal lenticels similar to cherry bark; slow growth rate

Moisture Tolerance:

Consistently moist, well-drained soil; Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

resistant to powdery mildew; borers and scale may be problematic in warmer regions

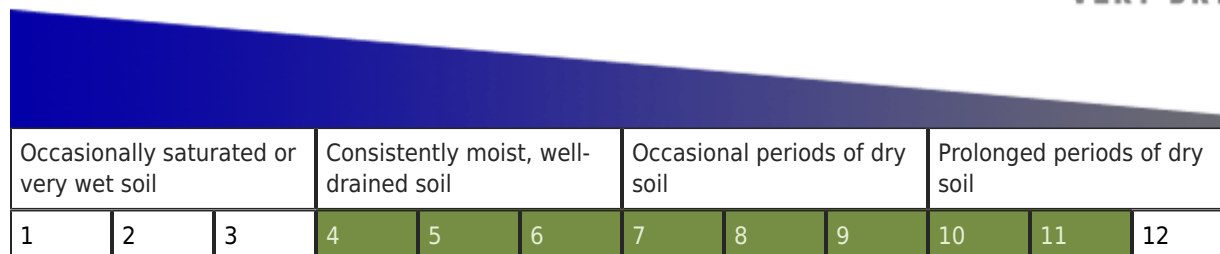
Additional Other

transplant in spring or fall, native to Northern Japan

Moisture Tolerance

VERY WET

VERY DRY



Photos



Syringa reticulata - Bark



Syringa reticulata - Flowers



Syringa reticulata - Flowers



Syringa reticulata - Leaves, Fruit



Syringa reticulata - Habit



Syringa reticulata - Leaf



Syringa reticulata - Habit



Syringa reticulata - Fruit



Syringa reticulata - Buds



Species: *Tilia americana*

(til'ee-ah a-mer-i-kay'nah)

American Linden; Basswood

Cultivars

'Boulevard', 'Continental Appeal', 'Duros', 'Fastigiata', 'Legend', 'Lincoln', 'Redmond', 'Sentry'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 60' - 80'

Leaves: Deciduous

Shape: pyramidal

Ornamental Other:

Environmental Characteristics

Light: Full sun

Hardy To Zone: 3a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other:

Moisture Tolerance:

Occasionally saturated or very wet soil;
Consistently moist, well-drained soil;
Occasional periods of dry soil
See graphic below

Insect Disease

Very susceptible to Japanese beetles, mites, aphids, borers; leaf miners and scale may also be problematic

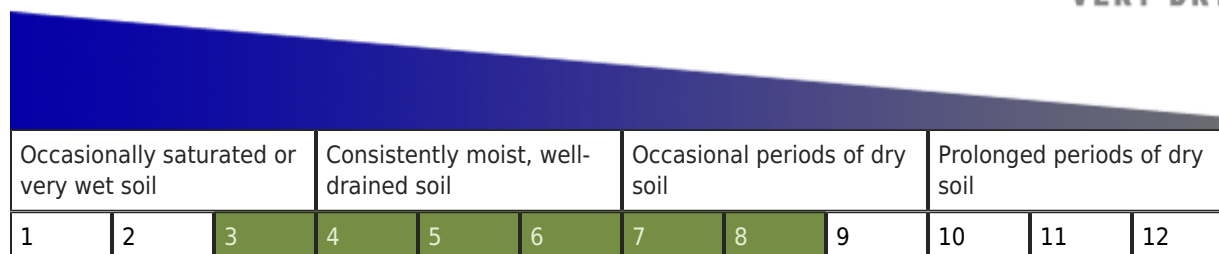
Additional Other

native to U.S. (Maine to Florida); transplant in spring or fall

Moisture Tolerance

VERY WET

VERY DRY



Photos



Tilia americana - Bark



Tilia americana - Buds



Tilia americana - Leaf



Tilia americana - Leaves



Tilia americana - Habit



Tilia americana - Leaves, Suckers



Tilia americana - Habit



Tilia americana - Buds



Tilia americana - Fruit



Species: *Tilia cordata*

(til'ee-ah kore-day'tah)

Littleleaf Linden; Small-leaved Lime

Cultivars

There are many cultivars of this commonly used species.

'Chancellor', 'Corinthian', 'De Groot', 'Fire-cracker', 'Glenleven', 'Green Globe', 'Greenspire', 'Harvest Gold', 'Lico', 'Olympic', 'Pendula Nana', 'Rancho', 'Shamrock', 'Streetwise', 'Summer Sprite', 'Winter Orange'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 60' - 80'
 Leaves: Deciduous
 Shape: dense, pyramidal
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

highly susceptible to aphids and Japanese beetles especially the cultivar,
 \\\'Greenspire\\\'
 \\\'

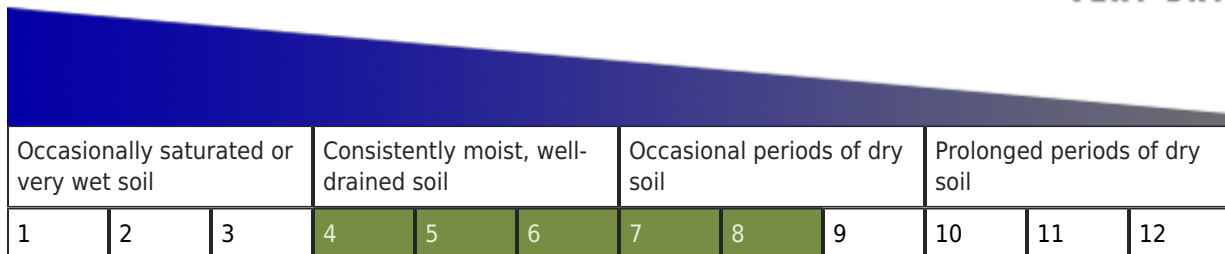
Additional Other

native to Europe; transplant in spring or fall

Moisture Tolerance

VERY WET

VERY DRY



Photos



Tilia cordata - Flowers



Tilia cordata - Flowers



Tilia cordata - Fruit



Tilia cordata - Bark



Tilia cordata - Bud



Tilia cordata - Buds



Tilia cordata - Habit



Tilia cordata 'Glenleven' - Habit



Tilia cordata - Leaf



Species: *Tilia tomentosa*

(til'ee-ah toe-men-tose'ah)

Silver Linden

Cultivars

A few cultivars are available for this superior species and it is likely that more will be developed in the future. Several cultivars available in Europe are not yet found in the US.

'Brabant', 'Chelsea Sentinel', 'Green Mountain', 'Hungary Globe', 'Petiolaris', 'Sashazam', 'Sterling Silver'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 60' - 80'

Leaves: Deciduous

Shape: pyramidal

Ornamental Other: tolerates drought and heat better than *T. cordata*

Environmental Characteristics

Light: Full sun

Hardy To Zone: 5a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other:

Moisture Tolerance:

Consistently moist, well-drained soil;

Occasional periods of dry soil

See graphic below

Insect Disease

less susceptible to Japanese beetles than other lindens

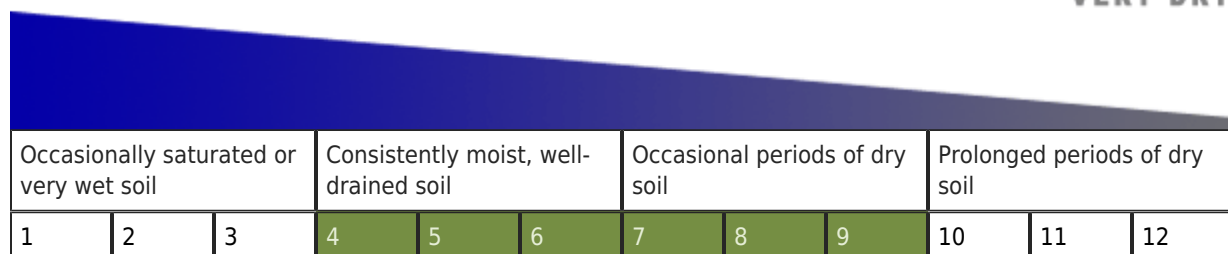
Additional Other

native to southeastern Europe, western Asia; transplant in spring; slower to recover from transplanting than other lindens

Moisture Tolerance

VERY WET

VERY DRY



Photos



Tilia tomentosa - Bark



Tilia tomentosa - Leaf



Tilia tomentosa - Fruit



Tilia tomentosa - Buds



Tilia tomentosa - Habit



Tilia tomentosa - Habit



Tilia tomentosa - Habit



Tilia tomentosa - Leaves



Tilia tomentosa - Leaves



Species: *Tilia x euchlora*

(til'ee-ah you-klor'ah)

Crimean Linden

Cultivars

'Laurelhurst'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 50'

Leaves: Deciduous

Shape: round; branches skirt the ground

Ornamental Other: Reported to be more drought tolerant than *T. cordata*

Environmental Characteristics

Light: Full sun

Hardy To Zone: 5a

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: vigorous compact growth; basal suckering on grafted trees; lustrous dark green leaves

Moisture Tolerance:

Consistently moist, well-drained soil;

Occasional periods of dry soil

See graphic below

Insect Disease

more resistant to aphids than *T. cordata*

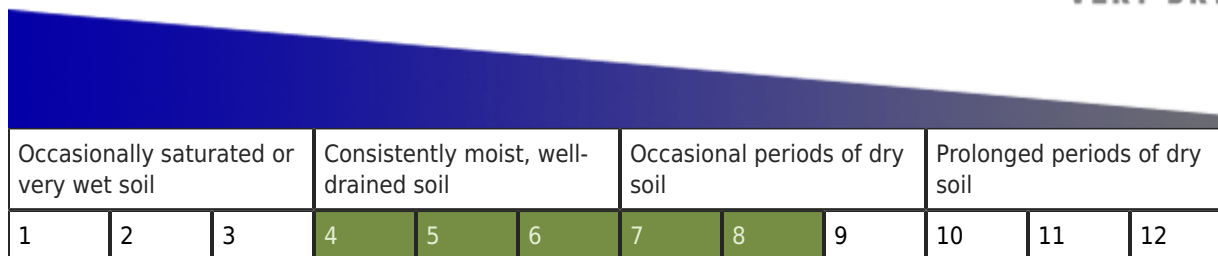
Additional Other

transplant in spring or fall; parentage: *T. cordata* x *T. dasystyla*

Moisture Tolerance

VERY WET

VERY DRY



Photos



Tilia x euchlora - Leaves, Fruit



Tilia x euchlora - Leaves



Tilia x euchlora - Bark



Tilia x euchlora - Leaves, Fall Interest



Tilia x euchlora - Habit



Tilia x euchlora - Habit



Tilia x euchlora - Bark



Tilia x euchlora - Leaf



Tilia x euchlora - Habit



Species: *Ulmus* 'Accolade'

'Accolade' Hybrid Elm

Cultivars

No cultivars listed

Ornamental Characteristics

Size: Tree > 30 feet
 Height:
 Leaves: Deciduous
 Shape: Vase-shaped, arching, American Elm-like glossy
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other: fast growing
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil; Prolonged periods of dry soil
 See graphic below

Insect Disease

Reportedly resistant to Elm Yellows, resistant to Elm Leaf Beetle

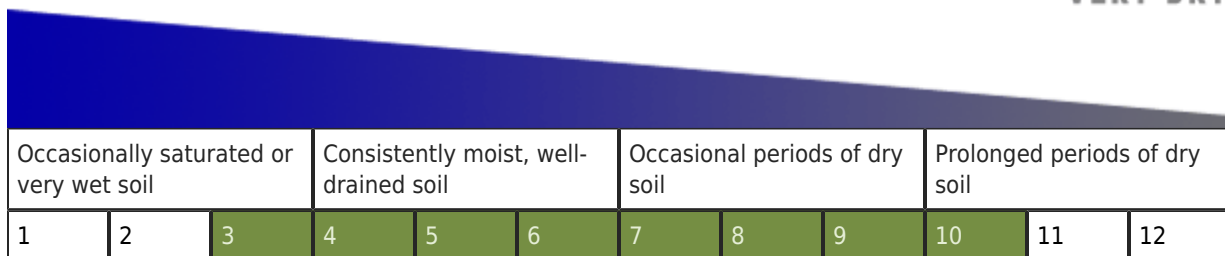
Additional Other

Parentage: *U. japonica* x *U. wilsoniana*

Moisture Tolerance

VERY WET

VERY DRY



Photos



Ulmus 'Accolade' - Habit



Ulmus 'Accolade' - Habit



Ulmus 'Accolade' - Habit

Species: *Ulmus 'Frontier'*

'Frontier' Hybrid Elm

Cultivars

No cultivars listed

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 40' height, 30' spread
 Leaves: Deciduous
 Shape: Broadly oval
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 5a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance:
 Environmental Other:
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil; Prolonged periods of dry soil
 See graphic below

Insect Disease

Good resistance to Dutch elm disease and elm yellows (phloem necrosis); moderately resistant to

Additional Other

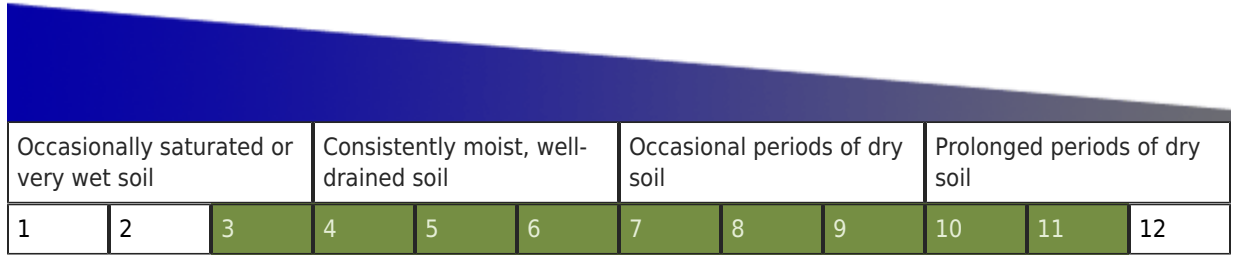
Parentage: *U. carpinifolia* with *U. parvifolia*

elm leaf beetles.

Moisture Tolerance

VERY WET

VERY DRY



Photos



Ulmus 'Frontier' - Habit



Ulmus 'Frontier' - Leaves, Fall
Interest



Ulmus 'Frontier' - Habit, Fall
Interest



Ulmus 'Frontier' - Leaves, Fall
Interest



Species: *Ulmus americana*

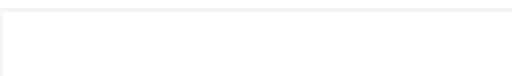
(ul'mus a-mer-i-kay'nah)

American Elm

Cultivars

Much selection has been attempted for dutch elm disease resistant varieties of this long-prized native street/shade tree. Below are the best of the few resistant cultivars that have been yet discovered. There is great hope that more resistant varieties will be discovered moving forward.

'Independence', 'New Harmony', 'Valley Forge'



Ornamental Characteristics

Size: Tree > 30 feet
 Height: 60' - 80' (30' - 50' spread)
 Leaves: No value
 Shape: majestic, upright-spreading
 Ornamental Other: withstands extreme cold

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 3a
 Soil Ph: No Value
 Salt Tolerance: Tolerates salty soil
 Environmental Other: withstands extreme cold
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil; Prolonged periods of dry soil
 See graphic below

Insect Disease

susceptible to many pests, particularly dutch elm diseases, elm yellows, verticillium

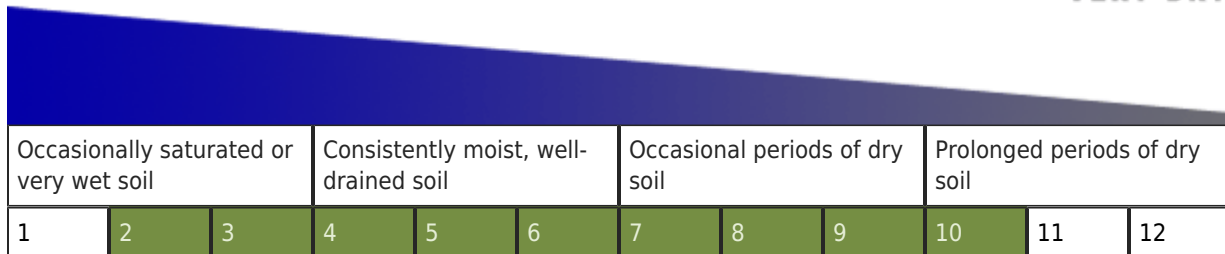
Additional Other

easy to transplant; fast growth, native to Eastern and Mid-West N. America

Moisture Tolerance

VERY WET

VERY DRY



Photos



Ulmus americana - Leaves



Ulmus americana - Habit



Ulmus americana - Habit, Fall
Interest



Ulmus americana - Leaves



Ulmus americana - Habit



Ulmus americana - Buds



Ulmus americana - Leaves



Ulmus americana - Leaves



Ulmus americana - Bark



Species: *Ulmus carpinifolia*

(ul'mus car-pine-ih-fo'lee-ah)

Smooth-leaf Elm

Cultivars

Many pest and disease resistant cultivars exist for this species and are listed below.

'Accolade', 'Christine Buisman', 'Danada Charm', 'Homestead', 'Patriot', 'Prospector', 'Regal', 'Sapporo Autumn Gold', 'Umbraculifera', 'Urban'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 70' - 90'
 Leaves: Deciduous
 Shape: pyramidal - oval
 Ornamental Other: tolerates wet soil or drought

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 5b
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance: Tolerates salty soil
 Environmental Other: lustrous green leaves turn limited yellow fall color
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil
 See graphic below

Insect Disease

less susceptible to dutch elm disease than *U.americana*;
 susceptible to elm leaf beetle and many more

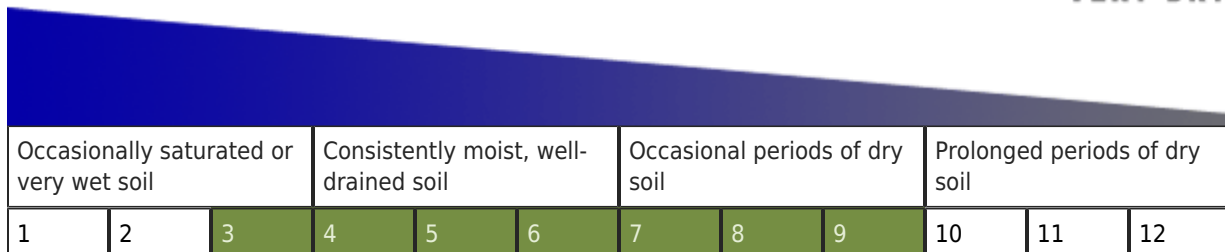
Additional Other

easily transplanted, native to Europe

Moisture Tolerance

VERY WET

VERY DRY



Photos



Ulmus carpinifolia - Leaves



Ulmus carpinifolia - Habit



Ulmus carpinifolia - Habit



Ulmus carpinifolia 'Regal' - Habit



Ulmus carpinifolia 'Regal' - Habit



Ulmus carpinifolia 'Sapporo
Autumn Gold' - Habit



Ulmus carpinifolia 'Sapporo
Autumn Gold' - Habit



Ulmus carpinifolia 'Sapporo
Autumn Gold' - Leaves, Fall
Interest



Ulmus carpinifolia 'Urban' - Habit



Species: *Ulmus glabra*

(ul'mus glÄ'brÄ¥)

Scotch Elm; Wych Elm

Cultivars

Several cultivars of this species are available in Europe but due its invasive nature here only a few are available in the U.S. The two below are commonly found in the trade.

'Camperdownii', 'Pendula'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 80'-100' H; 50'-70' W

Leaves: Deciduous

Shape: Large, massive, open

Ornamental Other:

Environmental Characteristics

Light: Full sun

Hardy To Zone: 4b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other:

Moisture Tolerance:

Occasionally saturated or very wet soil;

Consistently moist, well-drained soil;

Occasional periods of dry soil

See graphic below

Insect Disease

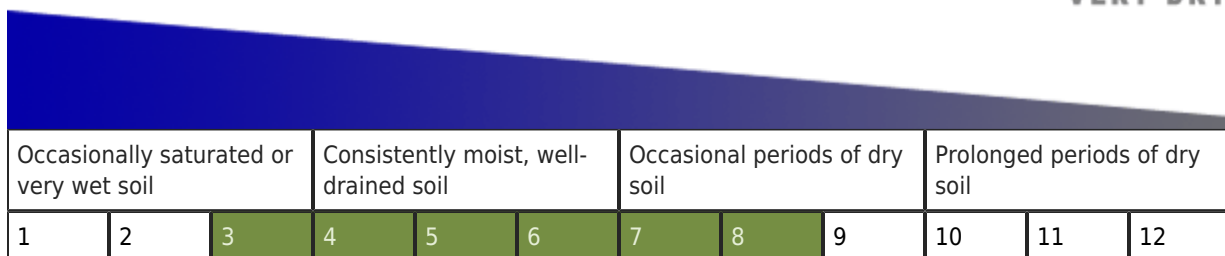
No diseases listed

Additional Other

Moisture Tolerance

VERY WET

VERY DRY



Photos



Ulmus glabra - Bark, Leaves, Fall
Interest



Ulmus glabra - Habit



Ulmus glabra - Habit



Ulmus glabra - Leaves



Ulmus glabra - Leaves, Fall Interest



Ulmus glabra - Leaves



Ulmus glabra - Bud



Species: *Ulmus parvifolia*

(ul'mus par-vi-fo'lee-ah)

Chinese Elm; Lacebark Elm

Cultivars

Many cultivars of this species exist. The straight species has variable bark and pest/disease resistance. A new group of cultivars with good resistance to Dutch Elm disease, elm leaf beetle and elm yellows are becoming available.

'Burgundy', 'Caitlin', 'Central Park Splendor', 'Drake', 'Dynasty', 'Emerald Isle', 'Emerald Vase', 'Golden Ray', 'King's Choice', 'Ohio', 'Prairie Shade'

Ornamental Characteristics

Size: Tree > 30 feet

Height: 40' - 75'

Leaves: Deciduous

Shape: round, vase

Ornamental Other:

Environmental Characteristics

Light: Full sun

Hardy To Zone: 5b

Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)

Salt Tolerance:

Environmental Other: leathery dark green leaves; gray/green/brown/orange exfoliating bark

Moisture Tolerance:

Consistently moist, well-drained soil;
Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

resistant to Dutch Elm disease, elm yellows and other insect problems

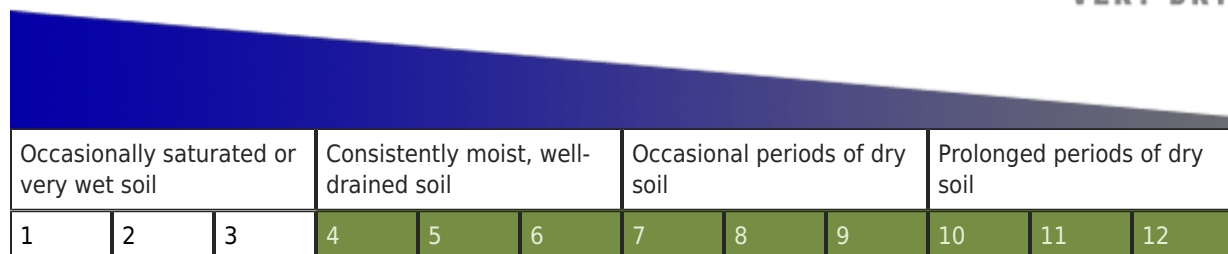
Additional Other

transplant in spring or fall, native to China, Japan and Korea

Moisture Tolerance

VERY WET

VERY DRY



Photos



Ulmus parvifolia - Bark



Ulmus parvifolia - Bark



Ulmus parvifolia - Buds



Ulmus parvifolia - Habit



Ulmus parvifolia - Leaves, Seeds



Ulmus parvifolia - Habit



Ulmus parvifolia - Seeds



Ulmus parvifolia - Bark



Ulmus parvifolia - Leaves



Species: *Ulmus pumila*

(ul'mus pue'mi-lah)

Dwarf Asiatic Elm: Siberian Elm

Cultivars

'Coolshade', 'Dropmore', 'Hamburg Hybrid', 'Improved Cascade', 'Lincoln', 'Mr. Buzz', 'Pendula'

Ornamental Characteristics

Size: Tree > 30 feet
 Height: 50' - 70' (spread 40' - 50')
 Leaves: Deciduous
 Shape: open
 Ornamental Other:

Environmental Characteristics

Light: Full sun
 Hardy To Zone: 4a
 Soil Ph: Can tolerate acid to alkaline soil (pH 5.0 to 8.0)
 Salt Tolerance: Tolerates salty soil
 Environmental Other: fast growth, poor form; susceptible to wood breakage; a poor choice except for difficult sites
 Moisture Tolerance:
 Occasionally saturated or very wet soil;
 Consistently moist, well-drained soil;
 Occasional periods of dry soil; Prolonged periods of dry soil
 See graphic below

Insect Disease

very susceptible to elm leaf beetle;
 wood is brittle and breaks easily

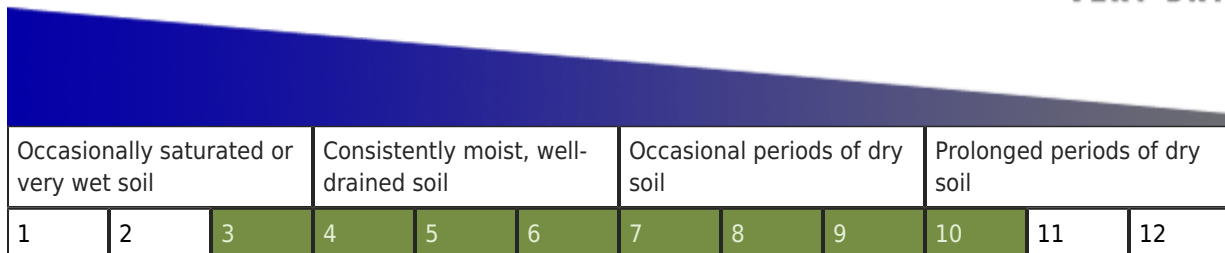
Additional Other

Native to Siberia, China, Korea

Moisture Tolerance

VERY WET

VERY DRY



Photos



Ulmus pumila - Leaves



Ulmus pumila - Habit



Ulmus pumila - Leaves

Species: *Zelkova serrata*

(zel-koe'vah ser-ray'tah)

Japanese Zelkova; Saw-leaf Zelkova; Keaki Tree

Cultivars

Some cultivars <30'

'City Sprite', 'Goshiki', 'Green Vase', 'Halka', 'Musashino', 'Schmidtlow', 'Spring Grove', 'Variegata', 'Village Green'

Ornamental Characteristics

Size: Tree > 30 feet, Tree < 30 feet

Height: 60' - 80', some cultivars <30'

Leaves: No value

Shape: vase

Ornamental Other:

Environmental Characteristics

Light: Full sun

Hardy To Zone: 5b

Soil Ph: No Value

Salt Tolerance:

Environmental Other: narrow crotch angles and poor branch attachment can cause splitting when older; dark green leaves turn yellow, bronze or reddish purple; cherrylike bark becomes gray and exfoliating when mature

Moisture Tolerance:

Consistently moist, well-drained soil; Occasional periods of dry soil; Prolonged periods of dry soil
See graphic below

Insect Disease

No diseases listed

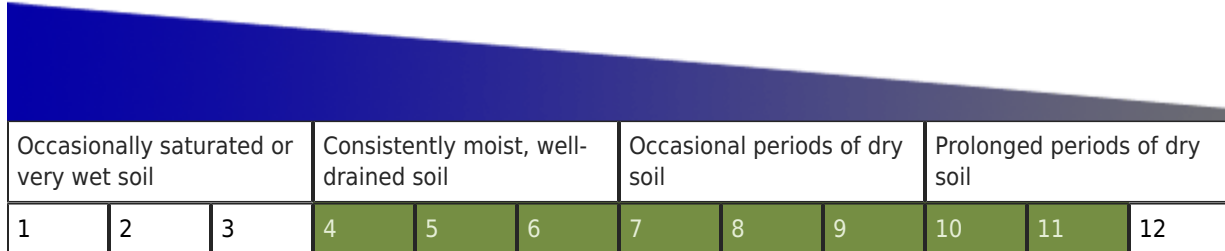
Additional Other

transplant in spring, native to Japan, Korea, Northern China, Taiwan

Moisture Tolerance

VERY WET

VERY DRY



Photos



Zelkova serrata - Fruit



Zelkova serrata - Bark



Zelkova serrata - Leaves, Fall
Interest



Zelkova serrata - Habit



Zelkova serrata - Habit



Zelkova serrata - Leaf



Zelkova serrata - Fruit



Zelkova serrata - Habit



Zelkova serrata - Leaves