Funding Assistance From A Bureau Of Reclamation Grant
Watering Guide

Water Zone 0

Water Zone 1

Water Zone 2

Water Zone 3

Water Zone 4
Water Zone 0

No irrigation
May need additional irrigation during establishment

Grows faster with additional water
Siberian Elm

*Ulmus pumila*

- Deciduous
- Ht. to 70 ft.
- Shape - Spreading to irregular
- Sun
- Messy, hardy, drought tolerant; spreads by seed; invasive
- Rapid growth rate
Water Zone 1

One irrigation per month
May need additional irrigation during establishment

Grows faster with additional water
Tree of Heaven

*Ailanthus altissima*

- Deciduous
- Ht. to 60 ft.
- Shape - Vase
- Pollution tolerant
- Problems: verticillium wilt
- Rapid growth rate
Incense Cedar

*Calocedrus decurrens*

- Evergreen
- Ht. - 75 to 90 ft.
- Shape – Pyramidal or conical
- Sun
- Drought tolerant
- Problems: heart rot
- Grows slowly at first, then faster
Common Hackberry

*Celtis occidentalis*

- Deciduous
- Ht. - to 60 ft.
- Shape - Vase to spreading
- Sun
- Tolerates alkaline clay soil, heat, drought, wind and pollution
- Problems: witches broom, nipple galls
- Moderate growth rate
22. Common Hackberry (Celtis occidentalis)
Black Locust

*Robinia pseudoacacia*

- Deciduous
- Ht. - to 80 ft.
- Shape - Irregular
- Sun
- Drought tolerant
- Problems: locust borers, leaf miners
- Rapid growth rate
Water Zone 2

Two irrigations per month

May need additional irrigation during establishment

Grows faster with additional water
White Fir
*Abies concolor*

- Evergreen
- Ht. - to 100 ft.
- Shape - Pyramidal
- Sun, shade
- Bluish green 2 in. long needles; Prefer lower pH
- Protect from hot wind
- Slow–moderate growth rate
1. White Fir (Abies Concolor)
Sub-alpine Fir

*Abies lasiocarpa*

- Evergreen
- Ht. - 60 to 90 ft.
- Shape - Pyramidal
- Sun, shade
- Cluster for survival and aesthetics, shade south side
- Doesn’t hold shape in cultivation
- Slow-moderate growth rate
Sycamore Maple

Acer pseudoplatanus

- Deciduous
- Ht. - to 60 ft.
- Shape - Rounded
- Sun
- Attractive, peeling bark
- Problems: leaf scorch, aphids, and verticillium wilt
- Moderate growth rate
19. Sycamore Maple (Acer pseudoplatanus)
Southern Catalpa

*Catalpa bignonioides*

- Deciduous
- Ht. - 15 to 20 ft.
- Shape - Irregular to rounded
- Sun, light shade
- Tolerates heat
- Problems: leaf scorch, verticillium wilt
- Moderate–rapid growth rate
Umbrella Catalpa (Catalpa bignoniioides ‘Nana’)
Western Catalpa

*Catalpa speciosa*

- Deciduous
- Ht. - to 60 ft.
- Shape - Irregular to rounded
- Sun
- Tolerates heat
- Problems: leaf scorch, verticillium wilt
- Moderate growth rate
Western Catalpa (Catalpa speciosa)
White Ash

*Fraxinus americana*

- Deciduous
- Ht. - to 80 ft.
- Shape - Round
- Sun
- Dark green leaves, pale under side; purple to red fall foliage
- Problems: scale, borers
- Moderate growth rate
24. White Ash (*Fraxinus americana*)
Green Ash

*Fraxinus pennsylvanica*

- Deciduous
- Ht. - to 60 ft.
- Shape – Round
- Sun
- Tolerates wet soil and cold
- Problems: scale, borers
- Moderate growth rate
25. Green Ash (Fraxinus pennsylvanica)
Ginkgo

Ginkgo biloba

- Deciduous
- Ht. - to 50 ft.
- Shape - Columnar to spreading
- Sun
- Attractive leaves, yellow fall color; tolerates many soil types
- Problems: few pests
- Slow–moderate growth rate
Ginkgo (Ginkgo biloba)
Honeylocust

Gleditsia triacanthos

- Deciduous
- Ht. - 35 to 70 ft.
- Shape - Irregular
- Sun
- Filtered shade, easy to grow here
- Problems: pod gall midge, canker
- Rapid growth rate
27. Thornless Honey Locust (Gleditsia triacanthos var. inermis)
Black Walnut

*Juglans nigra*

- Deciduous
- Ht. - 75 ft.
- Shape - Oval to rounded
- Sun
- Drought tolerant, taproot
- Difficult to transplant, inhibit growth of vegetables and flowers
- Slow growth rate
Norway Spruce

*Picea abies*

- Evergreen
- Ht. - to 80 ft.
- Shape - Pyramidal
- Sun
- Tolerates cold, wind
- Problems: spruce gall adelgid, borers, tussock moth, scale
- Moderate – Rapid growth rate
8. Norway Spruce (Picea abies)
Colorado Blue Spruce

*Picea pungens*

- Evergreen
- Ht. - to 100 ft.
- Shape - Pyramidal
- Sun
- Tolerates drought, alkaline soils
- Problems: spruce gall adelgid, tussock moth, scale
- Slow–moderate growth rate
9. Blue Spruce (Picea pungens)
Austrian Pine

*Pinus nigra*

- Evergreen
- Ht. - to 60 ft.
- Shape - Pyramidal to oval
- Sun
- Tolerates clay
- Problems: scale
- Moderate-slow growth rate
10. Austrian Pine (Pinus nigra)
Scotch Pine

*Pinus sylvestris*

- Evergreen
- Ht. - to 82 ft
- Shape - Pyramidal to oval
- Sun
- Orange Red Bark
- Problems: aphids, rust, borers, wood rot, scale
- Moderate - slow growth rate
30. Scotch Pine (*Pinus sylvestris*)
London Plane Tree

*Platanus x acerifolia*

- Deciduous
- Ht. - to 100 ft.
- Shape - Round to spreading
- Sun, light shade
- Drought tolerant, attractive bark
- Problems: powdery mildew, anthracnose
- Moderate growth rate
Douglas Fir

*Pseudotsuga menziesii*

- Evergreen
- Ht. - to 130 ft.
- Shape - Pyramidal
- Sun, shade
- Prefers slightly acid soil
- Problems: spruce gall adelgid
- Moderate growth rate
14. Douglas-fir (Pseudotsuga menziesii)
Bur Oak

Quercus macrocarpa

- Deciduous
- Ht. - to 80 ft.
- Shape - Round to oval
- Sun
- Tolerates drought, variety of soils
- Problems: borers, gall, leaf spot
- Slow growth rate
36. Bur Oak (Quercus macrocarpa)
Japanese Pagoda Tree

*Sophora japonica*

- Deciduous
- Ht. - to 40 ft.
- Shape - Rounded to spreading
- Sun
- Avoid clay soil; interesting pods
- Problems : leaf hoppers
- Moderate–Rapid growth rate
Japanese Zelkova

Zelkova serrata

- Deciduous
- Ht. - to 80 ft.
- Shape - Vase to rounded
- Sun
- Exfoliating red-brown bark; pH adaptable
- Problems: Few pests
- Moderate growth rate
18. Japanese Zelkova (Zelkova serrata)
Water Zone 3

One irrigation per week
Norway Maple

*Acer platanoides*

- Deciduous
- Ht. - to 60 ft.
- Shape - Rounded to oval
- Sun
- Adapts to many conditions
- Problems: verticillium wilt, aphids
- Moderate growth rate
2. Norway Maple (*Acer platanoides*)
European White Birch

*Betula pendula*

- Deciduous
- Ht. - to 40 ft.
- Shape - Weeping to pendulous
- Sun
- Delicate and lacy; white bark
- Problems: borers, canker, stinkbugs and chlorosis
- Rapid growth rate
Atlas Cedar

*Cedrus atlantica*

- Evergreen
- Ht. - to 80 ft.
- Shape - Pyramidal to conical
- Sun, light shade
- Less spreading than other cedars
- Avoid wet soils
- Grows rapidly when young
American Sweetgum

_Liquidambar styraciflua_

- Deciduous; orange fall color
- Ht. - to 80 ft.
- Shape - Pyramidal
- Sun, light shade
- Brilliant fall color
- Problems: scale, iron chlorosis
- Moderate growth rate
6. American Sweetgum (*Liquidambar styraciflua*)
Silver Poplar

*Populus alba*

- Deciduous
- Ht. - to 60 ft.
- Shape - Round
- Sun
- Silvery leaf backs
- Problems: Roots invasive; borer, canker, aphids
- Moderate growth rate
45. White Poplar (Populus alba)
Silver Poplar

*Populus Alba ‘Bolleana’*

- Deciduous
- Ht. - to 60 ft.
- Shape - Columnar
- Sun
- Good for windbreaks
- Suckers freely
- Rapid
Fremont Cottonwood

*Populus fremontii*

- Deciduous
- Ht. - to 60 ft.
- Shape - Round to spreading
- Sun
- Tolerates drought
- Problems: tent caterpillar, canker, leaf spot
- Grows rapidly
Quaking Aspen

*Populus tremuloides*

- Deciduous
- Ht. - to 40 ft.
- Shape - Columnar to irregular
- Sun, light shade
- Prone to sucker, good for thickets
- Problems: borers, canker, leaf spot
- Rapid growth rate
American Arborvitae

*Thuja occidentalis*

- Evergreen
- Ht. - to 60 ft.
- Shape - Pyramidal
- Sun
- Bright green to yellow green
- Problems: winter burn, bag worm, spider mites
- Slow to moderate growth rate
15. American Arborvitae (Thuja occidentalis)
American Linden

_Tilia americana_

- Deciduous
- Ht. - to 60 ft.
- Shape - Rounded to spreading
- Sun to light shade
- Fragrant white flowers in summer
- Problems: aphids, leaf blight, canker, borers
- Moderate growth rate
Littleleaf Linden

*Tilia cordata*

- Deciduous
- Ht. - to 60 ft.
- Shape - Oval to rounded
- Sun
- Conical, fragrant
- Problems: leaf blight, canker, borers
- Moderate growth rate
High Water Table

Little or no irrigation
Boxelder

*Acer negundo*

- Deciduous
- Ht. - to 66 ft.
- Shape - Irregular to spreading
- Sun
- Drought tolerant
- Spreads invasively, boxelder bugs
- Rapid growth rate
Western Water Birch

*Betula occidentalis*

- Deciduous
- Ht. - to 30 ft.
- Shape - Spreading to irregular
- Sun
- Small tree or shrub, red bark
- Problems: Bronze birch borer, leaf spot, tent caterpillars
- Moderate growth rate
97. Western Water Birch (*Betula occidentalis*)
Narrowleaf Cottonwood

*Populus angustifolia*

- Deciduous
- Ht. - to 66 ft.
- Shape - Vase to irregular
- Sun
- Well adapted to stream banks
- Problems: tent caterpillar, scale, borer, poplar borer
- Rapid growth rate
Cottonwood

*Populus deltoides*

- Deciduous
- Ht. - to 100 ft.
- Shape – Oval to fastigiate
- Sun
- Cottonless, drought tolerant
- Soft, weak wood
- Rapid growth rate
Weeping Willow

*Salix babylonica*

- Deciduous
- Ht. - to 40 ft.
- Shape - Weeping
- Sun
- Invasive roots
- Problems: canker, scale, aphids, carpenter worm
- Rapid growth rate
64. Weeping Willow (Salix babylonica)
Globe Willow

*Salix matsudana*

- Deciduous
- Ht. - to 70 ft.
- Shape - Vase to spreading
- Sun
- Invasive roots
- Problems: slime flux, aphids, scale
- Rapid growth rate
40. Globe Navajo Willow (Salix matsudana 'Navajo')
Medium Trees (25-40')
Water Zone 0

No Irrigation

May need additional irrigation during establishment

Grows faster with additional water
Russian Olive

Elaeagnus angustifolia

- Deciduous
- Ht. - to 20 ft.
- Shape - Irregular to spreading
- Sun
- Thorns, fragrant; tolerates gravel, alkaline soil, high water table
- Problems: verticillium wilt
- Rapid growth rate
98. Russian Olive (*Elaeagnus angustifolia*)
Utah Juniper

*Juniperus osteosperma*

- Evergreen
- Ht. - to 15 ft.
- Shape - Pyramidal to rounded
- Sun
- Tolerates heat and dry, rocky, alkaline soil; likes full sun
- Problems: Spider mites, scale
- Slow growth rate
81. Utah Juniper (Juniperus osteosperma)
Water Zone 1

One irrigation per month

Needs supplemental irrigation during establishment

Plants grow faster with additional irrigation
Bigtooth Maple

*Acer grandidentatum*

- Deciduous; red or orange fall color
- Ht. - to 50 ft.
- Shape - Oval to rounded
- Sun, light shade
- Shrub/tree
- Problems: grows best in clusters, brilliant fall colors
- Medium-slow growth rate
Rocky Mountain Juniper

*Juniperus scopulorum*

- Evergreen
- Ht. - to 40 ft.
- Shape - Pyramidal to rounded
- Sun
- Many cultivars; adapted to alkaline soil, good windbreak
- Spider mites, scale
- Slow growth rate
58. Rocky Mountain Juniper (Juniperus scopulorum)
Bristlecone Pine

*Pinus aristata*

- Evergreen
- Ht. - to 40 ft.
- Shape - Conical to irregular
- Sun
- Good accent tree, dense, bushy, ground-sweeping branches
- Root rot
- Very slow growth rate
Pinyon Pine

*Pinus edulis*

- Evergreen
- Ht. - to 35 ft.
- Shape - Oval to irregular
- Sun
- Edible nut, two needles per bundle
- Problems: scale
- Slow growth rate
Single Leaf Pinyon Pine

*Pinus monophylla*

- Evergreen
- Ht. - to 35 ft.
- Shape - Pyramidal to oval
- Sun
- Edible nut, one needle per bundle
- Problems: scale
- Slow growth rate
Mugo Pine

*Pinus mugo*

- Evergreen
- Ht. - to 25 ft.
- Shape - Spreading
- Sun, light shade
- Sold in shrub form
- Problems: rust, borers, scale
- Slow growth rate
Idaho Locust

Robinia ambigua

- Deciduous
- Ht. - to 40 ft.
- Shape - Irregular to spreading
- Sun
- Suckers, invasive, thorny, drought tolerant
- Problems: canker, borer, leaf spot
- Rapid growth rate
51. Idaho Flowering Locust (*Robinia x ambigua* 'Idahoensis')
Water Zone 2

Two irrigations per month

Needs supplemental irrigation during establishment
Hedge Maple

*Acer campestre*

- Deciduous
- Ht. - to 35 ft.
- Shape - Rounded to spreading
- Sun, light shade
- Tolerates alkali and drought
- Problems: aphids, verticillium
- Slow growth rate
47. Hedge Maple (Acer campestre)
Flowering Pear

Pyrus calleryana

- Deciduous
- Ht. - to 40 ft.
- Shape - Pyramidal to oval
- Sun
- Problems: fireblight, chlorosis
- Rapid growth rate
63. Bradford Callery Pear (Pyrus calleryana ‘Bradford’)

[Image of a leaf, flowers, and branches of the Bradford Callery Pear]

[Image of a green tree]
European Mountain Ash

*Sorbus aucuparia*

- Deciduous; orange fruit
- Ht. - to 40 ft.
- Shape - Oval to rounded
- Sun
- Orange fruit
- Problems: Fireblight, scale, borers, canker; avoid compacted soils
- Moderate growth rate
Japanese Tree Lilac

*Syringa reticulata*

- Deciduous
- Ht. - to 30 ft.
- Shape - Oval to rounded
- Sun
- Showy white non-fragrant flowers
- Problems: lilac borer, powdery mildew
- Moderate growth rate
Water Zone 3

One irrigation per week
Eastern Redbud

*Cercis canadensis*

- Deciduous; showy blooms
- Ht. - to 33 ft.
- Shape - Rounded to spreading
- Sun, light shade
- Avoid wet soils
- Problems: canker, verticillium wilt
- Moderate growth rate
Water Zone 0

No irrigation
May need additional irrigation during establishment

Grows faster with additional water
Watering Guide

Water Zone 0

Water Zone 1

Water Zone 2

Water Zone 3

Water Zone 4
Low Trees (0-25’)

(![](image.png))
Water Zone 0

No Irrigation

May need additional irrigation during establishment

Grows faster with additional water
Curl-leaf Mountain Mahogany

*Cercocarpus ledifolius*

- Evergreen
- Ht. - to 20
- Shape - Upright to spreading
- Sun, shade
- Specimen or hedge tree or shrub
- Problems: Few pest problems
- Slow growth rate
Gambel Oak

*Quercus gambelii*

- Deciduous
- Ht. - to 15 ft.
- Shape - Irregular to upright
- Sun
- Cluster for aesthetics and survival, need mulch
- Problems: mildew, galls; suckers
- Moderate growth rate
Water Zone 1

One irrigation per month

Needs supplemental irrigation during establishment

Plants grow faster with additional irrigation
Saskatoon Serviceberry

*Amelanchier alnifolia*

- Deciduous
- Ht. - to 15 ft.
- Shape - Irregular to spreading
- Sun, shade
- Tree/shrub, fragrant flowers, edible fruit
- Problems: rust
- Moderate growth rate
96. Saskatoon Serviceberry (Amelanchier alnifolia)
Chokecherry

*Prunus virginiana*

- Deciduous
- Ht. - to 20 ft.
- Shape - Irregular to spreading
- Sun, shade
- Grows in clusters; edible fruit
- Prefers moist soils
- Moderate growth rate
Water Zone 2

Two irrigations per month

May need additional water during establishment

Grows faster with additional water
Amur Maple

*Acer ginnala*

- Deciduous
- Ht. - to 20 ft.
- Shape - Shrub or spreading tree
- Sun, light shade
- Tree/shrub, fragrant, bright color
- Problems: few insects or diseases
- Moderate growth rate
Amur Maple (Acer ginnala)
Scarlet Hawthorn

*Crataegus laevigata*

- Deciduous
- Ht. - to 25 ft.
- Shape - Oval to rounded
- Sun
- Red fruit
- Problems: fireblight, aphids
- Medium growth rate
English Hawthorn (Crataegus laevigata)
Goldenrain Tree

*Koelreuteria paniculata*

- Deciduous
- Ht. - to 35 ft.
- Shape - Round to spreading
- Sun
- Golden
- Problems: verticillium wilt
- Moderate growth rate
59. Goldenrain Tree (Koelreuteria paniculata)
Lavelle Hawthorn

*Crataegus lavallei*

- Deciduous
- Ht. - to 25 ft.
- Shape - Rounded to spreading
- Sun
- Red fruit, dark green leaves turn bronze after frost
- Problems: fireblight, aphids
- Moderate growth rate
Dwarf Alberta Spruce

*Picea glauca ‘Conica’*

- Evergreen
- Ht. - to 7 ft.
- Shape - Pyramidal
- Sun, light shade
- Hardy to cold; gray to green needles
- Slow growth rate
Dwarf Blue Spruce

*Picea pungens*

- Evergreen
- Ht. - to 10 ft.
- Shape - Pyramidal
- Sun, shade
- Green to blue-gray
- Avoid wet soils
- Slow growth rate
Bosnian Redcone Pine

*Pinus heldreichii leucodermis*

- Evergreen
- Ht. - to 75 ft.
- Shape – Pyramidal to irregular
- Sun
- Very cold hardy; salt tolerant
- Few common pest problems
- Slow growth rate
Buckthorn

*Rhamnus frangula ‘Columnaris’*

- Deciduous
- Ht. - to 15 ft.
- Shape - Columnar to fastigiate
- Sun, light shade
- Excellent for narrow hedges
- No serious pest problems
- Moderate Growth Rate
Water Zone 3

One irrigation per week
Crabapples

*Malus sp.*

- Deciduous
- Ht. - to 30 ft.
- Shape - Columnar to spreading
- Sun
- Flower and leaf colors vary, many cultivars; cold hardy
- Problems: Scab, rust, mildew
- Rapid growth rate
89. Radiant Crabapple (*Malus* x 'Radiant')