

***WATER-WISE  
PLANTS  
FOR  
SALT LAKE CITY***

Prepared by

Salt Lake City Corporation

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## **LANDSCAPE PLANTS FOR WATER CONSERVATION**

### **Introduction**

Residential landscapes, as well as commercial, industrial, and public landscapes in Salt Lake City, have been lushly developed with water-intensive plants. Historically, residents and developers have enjoyed a generous water supply, thanks to the foresight of early settlers in the development of irrigation projects, and that water availability, coupled with a cultural predisposition toward a philosophy of landscape design unrestricted by water availability and an increasing population have led to an increasing demand on the City's water resources. One way to reduce demand is to encourage landscape design that is sensitive to a limited water source and an arid, cool climate.

In order to make the transition to more sustainable landscape patterns and still maintain Salt Lake's legacy as an "oasis in the desert", it is important to utilize native, naturalized, and adaptive plants capable of sustaining growth with limited supplementary water. Many of these plants are as aesthetically pleasing as more traditional landscape plants but have not been widely planted in the urban landscape because of limited availability and the public's unfamiliarity with the landscape potential of water-conserving plants.

In April of 1995, Salt Lake City adopted a new Zoning Ordinance that established certain standards for landscaping and encouraged the use of "drought tolerant" plants. The intent of the drought-tolerant section of the Zoning Ordinance is to encourage sustainable design in all aspects of landscape planning, from residential and commercial, to public and institutional. The list of drought tolerant plants below is intended to introduce the wide variety of plants suitable for water-wise, sustainable landscapes in Salt Lake City, while fostering creativity in landscape design.

In 2003, after five years of continuous drought, best management practices were developed to increase water efficiency in the landscape, incorporating new opportunities in irrigation technology, and identifying measurable water-use goals and practices. The plant list was also updated to reflect current availability and clarify species identification. Additionally, sections were added to create a quick reference guide to enhance ease of use to the consumer and to the planning staff enforcing related ordinances.

It is our wish that through this reference guide, homeowners, contractors, developers, and city planners will come to recognize the value of climate-compatible landscapes and plants, encouraging more widespread use, fueling demand in the retail market, reducing the seasonal demand on Salt Lake City's water delivery system, and ensuring supplies of high quality drinking water for the future.

## Water-wise Landscape Program

Water-wise landscapes begin, not with a plant list, but a comprehensive water-conserving landscape program that includes site analysis and planning, smart design, and efficient irrigation. In *“Urban and Community Forestry, a Guide for the Interior Western United States”*, seven broad, fundamental, elements are described:

1. **Analysis, Planning, and Design.** The first step in creating a water-wise landscape is site analysis: identifying the specific characteristics of a site that contribute to its ecological nature and create its micro-climates. Site analysis identifies and catalogues such naturally occurring characteristics as sun, wind, and soil, as well as man-made characteristics such as structures and paving. Planning incorporates needs and uses, identifying how as space as a whole and its component areas is used. Design integrates analysis and planning to create a space that is both beautiful and sustainable. Plant selection can then take place, reflecting the ecological and physical realities of a place, along with the needs of those using or acting in the space, creating balance and enhancing our urban environment.

2. **Soil Improvement.** Urban soils do not always contain all the physical and chemical properties necessary for healthy plant growth and development. Soil improvements are often needed in order to correct poor water infiltration, percolation, and drainage, while still providing adequate water holding capacity and nutritional balance of the soil. When amending the soil, it is best to amend entire areas rather than individual holes. Additionally, when planting trees, it is best to not amend the soil unless the tree is being planted in a contained or confined space.

Please note that if you are landscaping with native plants, soil amendments may not be necessary, and in fact, might be detrimental to long-term health of the plants. For many native plants, the only preparation necessary is to loosen the soil.

Common soil amendments include compost, decomposed leaves or pine duff, manures, or utelite.

3. **Efficient Irrigation.** Matching the amount of water supplied to each plant with that plant’s water requirement is the most efficient way to irrigate, and it is a good idea to plan the irrigation system at the same time as the landscape design. To eliminate waste from over-watering and runoff, plants should be grouped according to their water needs, and turf should be irrigated separately from other plantings.

4. **Limit Turf Areas.** Cool season turf grasses, such as Kentucky bluegrass and fescue, typically require 20 to 26 inches of supplemental water during the growing season to sustain a green, lush lawn. Turf should be limited in the landscape to areas consistent with core use patterns and should be irrigated separately from other plantings. In all other areas, drought tolerant or resistant species should be planted. Water use may also be reduced by replacing turf grass in high traffic areas not intended for play with patios, decks, gravel or other appropriate materials. Also, where possible, consider non-traditional turf species such as buffalo or blue grama grass, or non-turf plants such as thyme.

5. **Use of Mulch.** The function of mulch is to buffer soils against climatic extremes. In summer, mulch reduces soil heating, slows water loss from evaporation, and reduces weed growth. In winter, mulch protects shallow roots from damage by preventing the daily freeze/thaw cycle and drying of soils.

6. **Use of Low Water Demand Plants.** Many beautiful and functional plants are available that thrive with natural precipitation or only small amounts of supplemental water. The availability of plants with low water requirements permits selecting for function, beauty, and seasonal interest. However, as with all plant selections and planting, care must be taken to match specific needs of plants to the environmental conditions and the intensity of human activity at the planting site.

7. **Appropriate Maintenance.** Low maintenance is not no-maintenance; a water-wise landscape still requires the extra care required of a more traditional landscape. Once plants fill in and establish, however, maintenance demands decrease, plants require less water, and weeds are crowded out. Many native and low water plants also require less fertilizer, and have fewer pest problems than more traditional landscape plants, adding to the decrease in maintenance demands.

Integrating these seven elements in the planning, development, and maintenance of landscapes has been shown to conserve water and reduce annual maintenance costs without sacrificing function or beauty.

### **The Plant List**

The following list of trees, shrubs, herbaceous perennials, ornamental grasses, vines, groundcovers, and annuals, has been compiled to serve as a guide to the public for selection of landscape plants that have low water requirements. It is also intended to aid Salt Lake City in the evaluation of landscape plans and, specifically, to clarify standards contained in Chapter 24 of the Salt Lake City Zoning Ordinance.

While every effort has been made to make the list as comprehensive as possible, it should not be considered definitive. As additional information becomes available over time it is likely that plants may be added, or removed, from this list. To this end, input from individuals or organizations involved in the landscape industry, as well as members of the general public, is welcomed.

### **Explanation of Column Headings**

**Water Zones** identify the minimum amount of water a plant needs in order to survive after it is established in the landscape. It should be understood that, while plants will survive with the amounts of water indicated, some plants may not maintain their best appearance without some additional water. Additionally, during periods of extended droughts, even xeric plants might benefit from periodic supplemental watering. It is assumed that the establishment period will be a minimum of two years during which more frequent supplemental water may be needed. Water zones, as used in this list, are defined as follows:

- 0 No supplemental water is required after plants are established
- 1 At least 1 inch of supplemental water per month may be required after plants are established.
- 2 At least 1 inch of supplemental water every two weeks may be required after plants are established.

Plants requiring more than 1 inch of supplemental water every two weeks are not considered “water conserving” or “drought tolerant” plants for the purposes of this list.

**Botanical name** is the scientific name that identifies plants using a system called binomial nomenclature; that is, by grouping plants with more or less similar physical traits together through levels of classifications: genus, species, varieties, and cultivars. Each plant has only one botanical name, making it unique from any other plant, unlike common names, which may vary region to region. Botanical name has been abbreviated to include only the genus, species, and, if necessary, the variety; few cultivars or hybrids are named. The genus followed by “sp.” (singular), or “spp.” (plural) indicates that there are several different species of a plant which all have similar characteristics.

While a plant has only one botanical name it may have several **common names**. In compiling this list an attempt has been made to determine the most widely used common names.

**Mature size** is considered to be the average size a plant could be expected to grow with proper care and the amount of water indicated. Actual size of a given plant at a given location may vary.

**Minimum size at planting** is the size required by the Salt Lake City Zoning Ordinance, Chapter 24, for trees and shrubs that are planted for the purpose of establishing a visual screen. A blank in this column indicates that either there is no specific requirement or that a shrub is not generally used as a hedge or screen. When the terms “pot”, “container”, or “caliper” are used to describe minimum size at planting, the established American Standard for Nursery Stock shall apply. That is:

- “All container grown (deciduous or conifer) shrubs shall be healthy, vigorous, well-rooted and established in the container in which they are sold. They shall have tops which are of good quality and are in a healthy growing condition.”

“An established container grown (deciduous or conifer) shrub shall be a (deciduous or conifer) shrub transplanted into a container and grown in that container sufficiently long for the new fibrous roots to have developed so that the root mass will retain its shape and hold together when removed from the container.”

- Container size may be converted to minimum height/spread as follows:

2 gallon	=	12” to 15” height or spread
5 gallon	=	18” to 24” height or spread

- “Caliper”, for the purpose of this list, is defined as the diameter of the trunk measured 6 inches above ground level.

**Area Value** is the area of the plant canopy. Using this number, a designer or planner can determine the total area comprised by a single plant grouping or an entire landscape. Specific spacing recommendations were not made on the list to allow for a more creative use of plants and to recognize that a plant might be used differently in various landscapes.

If you are in need of guidelines to determine an appropriate average spacing of a plant on the list, consult the Height and Width column. To create a massed effect, place plants closer together so that branches overlap and mingle. For specimen plants, keep plants farther apart so that the plants form becomes distinct.

For trees, a standard guide is to plant on centers equaling, or slightly smaller than the diameter.

For long term health and sustainability of a landscape, allow plants adequate room to meet full growth without over crowding.

The **comments** column contains qualifying statements and/or unique cultural requirements that affected the determination of water zones. This column has also been used to provide additional general information about a plant.

**LIST OF WATER-CONSERVING PLANTS**

Amended April 2004

<b>WATER ZONE</b>	<b>BOTANICAL NAME</b>	<b>COMMON NAME</b>	<b>MATURE SIZE H x W</b>	<b>AREA VALUE (sq ft)</b>	<b>LIGHT</b>	<b>COMMENTS</b>
<b>VINES &amp; GROUND COVERS</b>						
0	Juniperus communis	Common Juniper	2-4' x 4-6'	20-28'	Full sun to light shade	Evergreen. Low growing junipers; color and texture varies with cultivar.
0	Mahonia repens	Creeping Oregon Grape	2' x 6'	28'	Part to full shade	Evergreen. Utah native. Dry shade
0	Rhus aromatica 'Gro-low'	Gro-low Sumac	2' x 6'	28	Sun to shade	Glossy green, three-lobed leaves have red fall color. Yellow spring flower followed by fuzzy red berries.
1	Alyssum montanum	Mountain Gold Alyssum	4" x 15"	1'	Sun to part shade	Bright yellow flowers in early spring cover gray green foliage.
1	Anacyclus depressus	Mount Atlas Daisy	2" x 18"	1.75'	Full sun	Silvery green foliage; bright white daisy-like flower mid spring
1	Antennaria parviflora;	Pussy Toes	4" x 18"	1.75'	Sun to part shade	Utah native; silvery foliage, pink or white ball shaped flowers
1	A. rosea	Pink Pussy Toes				
1	Cerastium tomentosum	Snow In Summer	8" x 24"	3'	Full sun	Mat-forming, silvery white foliage; very white spring flower; will die out in center if over-watered. May be invasive

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1	<i>Convallaria majalis</i>	Lily-Of-The-Valley	8" x 24"	3'	Part to full shade	Dark green foliage; white bell shaped, fragrant flowers in early spring.
1	<i>Fragaria</i> sp.	Wild Strawberry	2" x 24"	3'	Sun to part shade	Utah Natives <i>F. vesca</i> and <i>F. virginiana</i>
1	<i>Helianthemum nummularium</i>	Sunrose, Rockrose	8" x 36"	7'	Sun to light shade	Mat forming green to gray foliage. Simple flowers in white, pink, yellow, and reds in early spring.
1	<i>Juniperus horizontalis</i>	Creeping Juniper	6-18" x 5-8'	50'	Full sun	Evergreen. Needle color varies with cultivar.
1	<i>Rhus aromatica</i> 'Autumn Amber'	Autumn Amber Sumac	1' x 3-4'	12.5'	Sun to shade	Lower growing than <i>Gro-low</i> ; same glossy foliage and good fall color.
1	<i>Sedum</i> sp.	Stonecrop	1- 6" x 12-24"	1-3'	Full to part sun	Large group of low growing succulents; leaf color and shape varies with cultivar. Not tolerant of foot traffic, typically not dense enough to choke out weeds and grass.
1	<i>Stachys byzantina</i>	Lamb's Ear	12-18" x 36"	7'	Sun to light shade	Velvety leaves are silvery white; spires of pink flowers mid summer. Avoid overhead watering.
1	<i>Symphoricarpos x chenaultii</i>	Chenault Coralberry	3-4' x 4-6'	20'	Sun to part shade	Delicate, bluish green foliage; clusters of pinkish flowers followed by colorful purple berries that persist into winter.

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1	Teucrium aroanium	Gray Creeping Germander	3" x 18"	1.75'	Sun to part shade	Silver gray leaves; fragrant lavender flowers in early summer.
1	Thymus pseudolanuginosus	Woolly Thyme	1-2" x 18"	1.75'	Full sun	Hairy gray foliage turns plum colored in fall; evergreen. Tolerates moderate foot traffic.
1	Thymus ssp.	Creeping Thyme	3-4" x 18"	1.75'	Full sun	Spring flowers in white, pinks, reds; green foliage; tolerates moderate foot traffic.
1	Veronica liwanensis	Turkish Speedwell	2" x 18"	1.75'	Sun to part shade	Vigorous perennial; evergreen foliage; violet blue flowers in spring. Needs afternoon shade.
1	Veronica oltensis	Thyme-leaf Speedwell	1" x 24"	3'	Sun to part shade	Tiny dark gray green leaves; azure blue flowers late spring; evergreen.
1	Veronica pectinata	Blue Woolly Speedwell	2" x 18"	1.75'	Sun to part shade	Dense mat of small dark green leaves, covered with tiny blue flowers mid spring
2	Ajuga reptans	Ajuga, Bugleweed	2-4" x 12-18"	1.75'	Part to full shade	Low-growing groundcover with spires of blue or pink flowers. Leave color varies with cultivar, from dark green, to purple, and variegated.

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2	Arctostaphylos uva-ursi	Kinnikinnick	3-6" x 24-36"	7'	Part shade (avoid afternoon sun)	Evergreen. Dark glossy foliage; pinkish bell shaped flowers in early spring. Intolerant of soils that stay wet. Utah Native. Zone 1 if grown in shade.
2	Cotoneaster horizontalis	Rockspray Cotoneaster	2-3' x 10-15'	113'	Sun to light shade	Stiff angled branches have small round leaves. White flowers followed by red berries.
2	Euonymus fortunei	Purple-leaf Winter Creeper	2' x 6'	28'	Part shade	Evergreen, though sometimes semi-evergreen. Dark green leaves turn deep purple in fall. Will adhere to and climb surfaces.
2	Galium odoratum	Sweet Woodruff	4" x 18"	1.75'	Part to full shade	Whorls of bright green foliage; star-shaped flowers in late spring
2	Hypericum calycinum	Aaron's Beard, St. Johnswort	12-18" x 24"	3'	Part to full shade	Yellow spring flower; attractive blue green foliage stays evergreen in mild winters. Sometimes takes on purplish winter hue.
2	Lamium maculatum	Dead nettle	8-12" x 24"	3'	Part to full shade	White to purplish blooms late spring; foliage varies with cultivar – many variegated. Adaptable to dry shade.
<b>VINES</b>						
Note: vines, by their nature grow rapidly and require maintenance to keep them in check.						

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0	Parthenocissis spp.	Virginia Creeper, Boston Ivy	40' x 15'	176'	Sun to light shade	Deciduous vine that adheres itself to nearly any surface. Large dark green leaves, red fall color. Spreads easily and can choke out other plants. Not suitable for gardens adjacent to native areas.
1	Campsis radicans	Trumpet Vine	30' x 20'	314'	Sun to part shade	Needs a strong support. Orange to scarlet trumpet-shaped flowers mid summer; interesting winter pods.
1	Lonicera japonica	Japanese Honeysuckle	12" x 15'	176'	Sun to light shade	Creamy white and yellow flowers. Climbs with tendrils and twinning branches.
1	Polygonum aubertii	Silverlace Vine	40' x 20'	314'	Sun to part shade	Whitish green flowers cover vine in late summer. Requires a structure to climb on, and it should be very sturdy. Not suitable for gardens adjacent to native areas.
1	Vitis spp.	Grapes	10' x 10'	78'	Full sun	Large leaves and edible fruit provide good habitat and forage for wildlife. Needs sturdy support. Can be grown with little or no supplemental water if not grown for grape production.

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2	Clematis ligustifolia C. hirsutissima C. occidentalis C. montana C. autumnalis	Clematis	20' x 10'	78'	Plant so that the base of the plant is in the shade and its branches are in the sun	Some may be invasive. Utah Natives include C. ligusticifolia, C. hirsutissima. C. occidentalis
2	Polygonum affine	Himalayan Fleeceflower	6-10' x 30"	5'	Part to full shade	Bright green basal foliage forms mat; spikes of pink flowers in late summer; foliage turns copper in fall. Can be aggressive when over-watered.
2	Wisteria	Wisteria	20' x 10'	78'	Full sun	Fragrant flowers in spring; leaves are soft green in color. Needs very strong support
<b>ORNAMENTAL GRASSES</b>						
0	Bouteloua curtipendula	Sideoats Grama	1-2' x 1'	.75'	Full sun	Popular grass for meadows and reclamation. Fine textured, Purple spikelets form on one side of stem.
0	Bouteloua gracilis	Blue Grama	8-10" x 12"	.75'	Full sun	Native plains grass suitable for turf. Warm season grass goes dormant in winter months. Suitable as a turf grass.
0	Elymus cinereus	Great Basin Rye	3-4' x 2'	3'	Full sun	Utah native. Blue gray foliage

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0	<i>Festuca arizonica</i>	Arizona Fescue	10"-2' x 2'	3'	Sun to light shade	Clumping bunchgrass with wiry seed stalks up to 3 feet tall. Gray green to blue green leaves.
0	<i>Oryzopsis hymenoides</i> (also listed as <i>Stipa hymenoides</i> )	Indian Rice Grass	2' x 2'	3'	Full sun	Cool-season native bunch grass with showy panicles. Provides forage and habitat opportunities for wildlife.
0	<i>Pleuraphis jamesii</i> (also listed as <i>Hilaria jamesii</i> )	Galleta grass; Curly grass; James' grass	18" x 2'	3'	Full sun	Dense, fuzzy spikelets are angled zig-zag up 2 foot tall stalks. Foliage is gray green, aging to straw. Good choice for dry wildflower meadow. Attractive to butterflies.
0	<i>Schizachyrium scoparium</i>	Little Bluestem	2-4' x 30"	4.5'	Sun to light shade	Upright, erect habit. Leaves flat and stiff, light green aging to darker green; fall color is red. Inflorescence is wispy. Tolerant of heavy clay soils. Attractive to butterflies, birds. Utah native.
0	<i>Sporobolus contractus</i>	Spike Dropseed	16" x 12"	.75'	Full sun	Very heat tolerant. Interesting flower spikes. Utah native. Tolerates sandy soils but is adaptive.
0	<i>Stipa comata</i>	Needlegrass	4' x 1'	.75'	Sun to light shade	Slender grass with long, elegant awns.

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1	<i>Blepharoneuron tricholepis</i>	Pine Dropseed; Hairy Dropseed	30" x 30"	4.5'	Sun to light shade	Upright, arching bunchgrass. Green panicles turn straw colored, and persist into winter. Provides food and shelter for butterflies and birds.
1	<i>Elytrigia elongate</i>	Tall Wheatgrass	4-5' x 18"	1.75'	Full sun	A very upright grass; straw yellow stalks.
1	<i>Festuca ovina glauca</i>	Blue Fescue	1-2' x 1'	.75'	Full sun	Evergreen. Bluish color. Many cultivars are available, most not as large as the species.
1	<i>Helictotrichon sempervirens</i>	Blue Avena grass; Blue oat grass	4' x 2'	3'	Full sun	Gray-blue foliage; soft brown plumes mid summer
1	<i>Koeleria macrantha</i>	Prairie Junegrass	2' x 1'	.75'	Sun to light shade	Clumping bunchgrass with bright green foliage and upright flower spike. Provides food and habitat for birds and large mammals.
1	<i>Muhlenbergia capellensis</i>	Muhly Grass	3' x 3'	7'	Full sun	Plumes dusty pink
1	<i>Muhlenbergia montana</i>	Mountain Muhly	30" x 24"	3'	Sun to moderate shade	Upright bunchgrass with open panicles of green, aging to straw and persistent into winter.
1	<i>Muhlenbergia rigens</i>	Deergrass	3-5' x 3'	7'	Sun to light shade	Upright and arching, coarse-textured bunchgrass; spikelets to 5 feet tall, aging to straw. Wildlife and bird habitat. Good container plant.

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1	Muhlenbergia wrightii	Spike Muhly	1-2' x 2'	3'	Full sun	Fine textured, upright green leaf blades. Green florets age to gray black and persist into winter.
1	Poa fendleriana	Muttongrass	1-2' x 1'	.75'	Sun to shade	Upright bunchgrass; bright green foliage. Airy panicles of yellow-green florets. Attractive to birds, butterflies.
1	Panicum virgatum	Switch grass	2' x 2' Flower stalks to 5'	3'	Full sun	Steel blue foliage; upright habit. Florets arranged on arching stem. Plant turns orange in fall. Seeds attractive to birds.
1	Sorghastrum nutans	Indiangrass	4-5' x 18"	1.75'	Full sun	Upright habit; nice fall color; habitat for ground dwelling birds
1	Sporobolus airoides	Alkali sacaton	2' x 2'	3'	Full sun	Delicate appearing foliage with pinkish inflorescence. Tolerant of saline and clay soils.
2	Calamagrostis acutiflora	Feather Reed Grass	4' x 2'	12'	Full sun	Very upright grass; plumes early
2	Calamagrostis acutiflora 'Overdam'	Overdam Reedgrass	3' x 2'	3'	Part sun	Green and white variegated foliage; whitish plumes; best in afternoon shade.
2	Calamagrostis arundinacea 'Karl Foerster'	Foerster Reedgrass	4' x 3'	7'	Full sun	Very upright grass; Oat like plumes bloom mid summer and persist well into winter.

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2	Miscanthus sinensis	Maidenhair Grass	4-10' x 3-7'	7-38'	Sun to light shade	Upright fountain-like habit; wide variety; white variegated forms prefer some afternoon shade; good winter presence.
2	Pennisetum alopecuroides	Fountain Grass	2-3' x 2-3'	7'	Sun to light shade	Soft, foxtail-like plumes appear mid summer. Requires good drainage. Plumes useful for flower arrangements.
<b>HERBACEOUS PERENNIALS</b>						
0	Agave parryi	Parry's Agave	12" x 18", flower spike to 8'	1.75'	Sun to light shade	Thick, blue gray sword-like leaves form low rosette. Stem has many yellow to red tinged flowers mid summer. Flowers infrequently. Utah native.
0	Argemone munita	Prickly Poppy	24" x 12"	1'	Full sun	Utah native. Blue green foliage; papery white flowers
0	Asclepias speciosa	Showy milkweed	3' x 3'	7'	Sun to light shade	Upright perennial with gray green leaves and clusters of pinkish white flowers appearing in mid summer. Very attractive to butterflies. May form larger colonies. Utah native.
0	Asclepias tuberosa	Butterfly Milkweed	1-2' x 2'	3'	Full sun	Orange midsummer blooms are a favorite of butterflies.
0	Astragalus utahensis	Utah Lady finger; Utah milkvetch	4" x 10"	1'	Full sun	Utah native. Hairy, silver foliage; rose pink flowers

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0	Berlandiera lyrata	Chocolate flower	18" x 12"	1'	Full sun	Yellow mid-summer daisy; fragrant
0	Callirhoe involucrata	Poppy Mallow; Prairie Winecup	12" x 36"	7'	Full sun	Magenta flowers mid summer into fall. Deeply lobed foliage
0	Calylophus hartwegii	Fendler's Sundrops	1' x 3'	7'	Full sun	Four-petaled pale yellow flowers fade to orange and reddish pink, blooming all summer. Green foliage.
0	Delosperma cooperi	Pink Hardy Iceplant	6" x 24"	3'	Full sun	Pink flower late spring; succulent green foliage
0	Eriogonum umbellatum	Sulfur Flower	12" x 18"	1.75'	Full sun	Utah native. Early to midsummer sulfur-yellow flowers above dark green foliage
0	Gaillardia aristata	Blanket Flower	2-3' x 2-3'	7'	Full sun	Utah native. Yellow and mahogany summer flower; reseeds.
0	Gaura lindheimeri	Gaura, Whirling Butterflies	36" x 30"	4.5'	Full sun	White butterfly-like flowers bloom all summer. Fine textured foliage. Wispy appearance.
0	Hesperaloe parvifolia	Red Yucca	5' x 3'	7'	Sun to part shade	Similar in appearance to Yucca, but has finer foliage. Reddish flowers appear in summer.
0	Mirabilis multiflora	Desert Four O'Clock	2' x 5'	19.5'	Full sun	Magenta flowers open in evening; thick, leathery foliage. Utah native.
0	Oenothera caespitosa	Tufted Evening Primrose	6" x 6"	.5'	Full sun	Utah native. Large white flowers; opens in evening

<b>WATER ZONE</b>	<b>BOTANICAL NAME</b>	<b>COMMON NAME</b>	<b>MATURE SIZE H x W</b>	<b>AREA VALUE (sq ft)</b>	<b>LIGHT</b>	<b>COMMENTS</b>
0	Oenothera howardii	Bronze Evening Primrose	6" x 6"	.5'	Full sun	Utah native. Yellow flowers fade to bronze
0	Penstemon ambiguus	Sand Penstemon	2' x 2'	3'	Sun to light shade	Airy clumps of grass-like foliage with many stems of pink flowers early to mid summer.
0	Penstemon cyananthus	Wasatch Beardtongue	36" x 12"	.1'	Full sun	Sky blue flowers early to mid summer. Utah native.
0	Penstemon eatonii	Eaton's Beardtongue	36" x 12"	1'	Sun to light shade	Scarlet red flowers; dark shiny green foliage. Utah native. Will die if over-watered.
0	Penstemon palmeri	Palmer Penstemon	3' x 2'	3'	Full sun	Tall spikes of pale pink, fragrant flowers. Utah native. Will die if over-watered.
0	Penstemon pseudospectabilis	Desert Penstemon	2-3' x 2'	3'	Sun to part shade	Vibrant, hot pink flowers late spring to mid summer. Blue green foliage
0	Penstemon strictus	Rocky Mountain Penstemon	30" x 30"	4.5'	Full sun	Brilliant purple blue flowers early to mid summer. Rich green foliage. Utah native.
0	Ratibida columnifera	Prairie Coneflower, Mexican Hat	24" x 18"	1.75'	Full sun	Yellow and mahogany petals surround pronounced center mid summer; ferny foliage
0	Spharealcea ssp.	Globemallow	2-3' x 1'	.75'	Full sun	True orange flowers in summer. Foliage is pale gray green. Utah native.

WATER ZONE	BOTANICAL NAME	COMMON NAME	MATURE SIZE H x W	AREA VALUE (sq ft)	LIGHT	COMMENTS
0	Tanacetum densum	Partridge Feather	6-8" x 12"	.75'	Full sun	Mats of silvery white, finely cut foliage; yellow button flowers early summer.
0	Viguiera multiflora	Showy Goldeneye	24" x 36"	7'	Full sun	Utah native. Small daisy-like yellow flowers; will naturalize. Leaves are lance-shaped.
1	Achillea ageratifolia	Greek Yarrow	4" x 18"	1.75'	Full sun	Bright white flower clusters above gray green foliage. Late spring bloom.
1	Achillea filipendula	Fernleaf Yarrow	2-4' x 2'	3'	Full sun	Two widely used cultivars, 'Coronation Gold' and 'Moonshine'
1	Achillea millefolium.	Yarrow	36" x 24"	3'	Full sun	Wide range of colors. Over watering tends to make the plants flop. Aggressive when over-watered.
1	Achillea serbica	Serbian Yarrow	4" x 15"	1'	Full sun	Tight gray mats of evergreen foliage topped by white spring flowers.
1	Adenophora latifolia	Lilyleaf Ladybells	2-3' x 2'	3'	Part to full shade	Tall stalks of trumpet-like lavender blue flowers in early summer. Good in dry shade.
1	Aethionema schistosum	Persian Rockcress	10" x 15"	1'	Full sun	Fragrant, soft pink flowers cover plant in early spring. Tiny leaves are evergreen and powdery blue.

WATER ZONE	BOTANICAL NAME	COMMON NAME	MATURE SIZE H x W	AREA VALUE (sq ft)	LIGHT	COMMENTS
1	Agastache cana	Wild Hyssop	2-3' x 2'	3'	Full sun	Unusual colors, fragrant flowers, and aromatic gray foliage. Airy, upright habit. Late summer blooming.
1	Agastache rupestris	Licorice Hyssop	2-3' x 2'	3'	Full sun	Orange and lavender midsummer to fall flowers, fragrant needle-like foliage. Very attractive to hummingbirds.
1	Alyssum montanum	Mountain Gold Alyssum	4" x 15"	1'	Sun to part shade	Bright yellow flowers in early spring cover gray green foliage.
1	Amorpha canescens	Leadplant	2-4' x 3'	7'	Full sun	Silvery-white hairy foliage with pink pea-like flower
1	Anacyclus depressus	Mount Atlas Daisy	2" x 18"	1.75'	Full sun	Silvery green foliage; bright white daisy-like flower mid spring
1	Anaphalis margaritacea	Pearly Everlasting	2' x 2'	3'	Sun to light shade	Golden flowers in silver bracts; woolly silver foliage. Good choice for meadow mixes.
1 1	Antennaria parviflora; A. rosea	Pussy Toes Pink Pussy Toes	4" x 18"	1.75'	Sun to part shade	Utah native; silvery foliage, pink or white ball shaped flowers
1	Artemisia spp.	Wormwood	10- 36" x 36"	7'	Full sun	Silver foliage, finely cut. Size varieties with cultivar.
1	Centranthus ruber	Keys Of Heaven, Jupiter's Beard, Red Valerian	36" x 24"	3'	Sun to part shade	Pink to red flowers off and on all summer. White form is C. alba.

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1	Coreopsis verticillata	Threadleaf Coreopsis	24" x 24"	3'	Sun to light shade	Delicate yellow daisy-like flowers all summer. Needle like foliage.
1	Corydalis lutea	Yellow Corydalis	15" x 15"	1'	Part to full shade	Yellow "snap-like" flower through out summer
1	Epimedium x rubrum	Barrenwort	12" x 12"	.75'	Shade	Small orchid-like flowers in early summer; foliage is heart-shaped and evergreen in mild winters.
1	Erodium chrysanthum	Yellow Stork's bill	5" x 12"	.75'	Full sun	Lacy gray green foliage; soft yellow flowers during summer months.
1	Eupatorium greggii	Texas Mist Flower	30" x 36"	7'	Sun to part shade	Lavender blue flowers, like fluffy balls, bloom all summer. With less water needs more shade. Attractive to butterflies.
1	Geranium viscosissimum	Sticky Geranium	2-3' x 2'	3'	Part shade	Utah native. Soft pink flowers; nice fall foliage color
1	Globularia cordifolia	Leather Leaf Powder Puff	4" x 15"	1'	Sun to part shade	Low mat of evergreen leaves; light blue flower puffs in late spring.
1	Helianthemum nummularium	Rockrose	6" x 18"	1.75'	Sun to part shade	Simple, five-petaled flowers in a wide range of colors; mats of green to gray foliage have fine texture.
1	Kniphofia uvaria	Red Hot Poker	3' x 3'	7'	Full sun	Grass like foliage, unusual bi-color flower spikes in yellow to red. Deer resistant.

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1	Lavandula angustifolia	English Lavender (many cultivars available including Munstead, Hidcote, Nana, and Jean Davis)	15-30" x 15-24"	3'	Full sun	Aromatic green or gray foliage topped by fragrant purple spires. Mid summer bloom. Evergreen. Deer resistant.
1	Lavandula x intermedia	Lavandin	24-36" x 18-24"	1.75' to 3'	Full sun	Aromatic, evergreen foliage; flowers slightly later than English Lavender. Deer resistant.
1	Liatris punctata	Dotted Gayfeather	18" x 18"	1.75'	Full sun	Magenta pink spires in late summer; grass-like foliage.
1	Linum kingii	King's Yellow Flax	8" x 10"	.5'	Full sun	Blue-gray foliage; yellow spring flower
1	Linum lewisii (also listed as L. perenne v. lewisii)	Blue Flax; Lewis' Flax	24" x 18"	1.75'	Full to part sun	Wispy foliage; blue spring flower
1	Nepeta x faassenii	Catmint	18" x 30"	4.5'	Sun to light shade	Lavender blue flowers early summer; soft gray fragrant foliage.
1	Oenothera berlandieri 'Siskiyou'	Siskiyou Pink Mexican Primrose	12" x 12"	1'	Sun to part shade	Papery pink flowers bloom all summer; foliage is dark green. Can become invasive if over-watered.
1	Oenothera missouriensis	Missouri Evening Primrose	10-12" x 24"	3'	Full sun	Large, lemon yellow flowers open towards the end of day; glossy green foliage. Flowers all summer.
1	Oenothera pallida	Pale Evening Primrose	12" x 12"	1'	Full sun	Fast growing. Large white flowers; good choice for sandy soils. Utah native.

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1	Penstemon barbatus.	Scarlet Bugler	2-4' x 2'	3'	Sun to light shade	Foliage is a low mound; flowers rise on spires early summer. Utah native
1	Penstemon caespitosa	Tufted Beardtongue	2-12" x 36"	7'	Sun to light shade	Compact mat of gray green foliage covered with purple flowers from early to late spring.
1	Penstemon linarioides	Mat Penstemon	1' x 3'	7'	Sun to light shade	Fine textured gray green leaves; lavender-blue snap-like flowers late spring.
1	Penstemon pinifolius	Pine-leaf Penstemon	12" x 12"	1'	Full sun	Fine foliage; small scarlet trumpet-shaped flowers
1	Penstemon whippleanus	Whipple's Penstemon	2-3' x 2'	3'	Sun to light shade	Burgundy purple flowers early to late summer. Utah native.
1	Perovskia atriplicifolia	Russian Sage	3-5' x 3-4'	12.5'	Full sun	Small lavender blue flowers in tall spires; foliage is gray green and aromatic. Cut back to ground in spring keeps plant lush.
1	Pulsatilla vulgaris (also listed as Anemone pulsatilla)	Pasque Flower	9-12" x 12"	.75'	Sun to part shade	Magenta or purple cup shaped flowers in early spring, followed by fuzzy plum colored seed heads.
1	Salvia officinalis	Kitchen Sage	2' x 3'	7'	Full sun	Evergreen gray green foliage; edible foliage is aromatic.
1	Santolina chamaecyparissus	Lavender Cotton	12-18" x 18"	1.75'	Full sun	Gray foliage forms compact mound; yellow button flowers midsummer. Evergreen in mild winter. Aromatic.

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1	Santolina virens	Green Santolina	12-18" x 18"	1.75'	Full sun	Bright green compact foliage; evergreen in mild winters.
1	Sedum spectabile	Showy Stonecrop	18-24" x 15"	1.75'	Sun to light shade	Fleshy blue-green leaves appear in mid spring, followed by white to pink broccoli-like flower.
1	Sempervivum tectorum	Hens And Chicks	4" x 12"	1'	Full sun	Succulent foliage forms low rosettes. Interesting specimen in rock gardens.
1	Teucrium aroanium	Creeping Germander	3" x 18"	1.75'	Sun to light shade	Mounds of silver foliage; lavender pink fragrant flowers mid summer.
1	Teucrium chamaedrys	Wall Germander	1' x 2'	3'	Sun to light shade	Dark glossy foliage is evergreen in mild winters; spikes of lavender pink flowers in summer.
1	Zauschneria arizonica	Hummingbird Trumpet	1-2' x 2-4'	7'	Sun to part shade	Delicate scarlet, trumpet shaped flowers in early fall. Utah native.
1	Zauschneria latifolia	Hummingbird Flower	18" x 18"	1.75'	Full sun	Brilliant scarlet trumpets late summer into fall
1	Zizophora clinopodioides	Blue Mint Bush	18" x 18"	1.75'	Sun to part shade	Blue, thyme-like flowers cover plant in summer. Foliage is dull green. Fragrant.

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2	<i>Alcea rosea</i>	Hollyhocks	3-6' x 3'	7'	Full sun	Simple flowered forms are more heat and drought tolerant. Tall spires of flowers in magenta to apricot.
2	<i>Alchemilla mollis</i>	Lady's Mantle	12-18" x 15"	1'	Part shade	Round foliage with felt like texture; chartreuse flower in late spring.
2	<i>Aquilegia caerulea</i>	Rocky Mountain Columbine	24" x 18"	1.75'	Part shade	Blue and whit flowers. The more sun, the more water it needs. Utah native
2	<i>Aquilegia chrysantha</i>	Golden Columbine	2' x 2'	3'	Sun to part shade	Yellow flower. The more sun the more water it needs.
2	<i>Aquilegia formosa</i>	Western Columbine	18" x 24"	3'	Full sun to part shade	Utah native. Yellow petals with orange-red sepals. More drought tolerant than most other columbine
2	<i>Armeria maritima</i>	Common Thrift	6" x 12"	.75'	Sun to part shade	Rose pink ball-like flowers; grass-like foliage. Might need more water in heat of summer.
2	<i>Baptisia australis</i>	False Indigo	3-4' x 4'	12.5'	Sun to part shade	Indigo-blue flowers in mid to late spring on long racemes; seed pods are shiny black. Foliage is pea-like and blue green. Slow to establish.
2	<i>Bergenia cordifolia</i>	Bergenia, Saxifrage	12" x 12"	.75'	Part to full shade	Large, oval leaves are persistent into winter; pink spring flower

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2	Campanula portenschlagiana	Dalmatian Bellflower	5-10" x 15"	1'	Morning sun to light shade	Bell shaped purplish flowers mid spring; dark green heart shaped foliage.
2	Campanula rotundifolia	Bluebells-of-Scotland	6-12" x 12"	.75'	Part to full shade	Nodding, lavender blue bell-shaped flowers early summer to fall.
2	Dianthus gratianopolitanus	Garden Pinks	8" x 18"	1.75'	Sun to part shade	Gray or silver foliage; flower color varies with cultivar.
2	Dianthus pinifolius	Pine-leafed Garden Pink	24" x 12"	.75'	Full sun	Blue-green foliage, very fine. Flowers are dark red.
2	Echinacea angustifolia	Prairie Purple Coneflower	36" x 18"	1.75'	Sun to part shade	Recurved petals are long and fine; prominent cone enjoyed by birds. Deer resistant.
2	Echinacea paradoxa	Ozark Coneflower	30-36" x 15"	1'	Sun to part shade	Yellow recurved petals. Deer resistant.
2	Geranium endressii	Endress Cranesbill	16-20" x 18-24"	3'	Part shade	Deep pink flowers in early to mid summer.
2	Geranium sanguineum	Bloody Cranesbill	8" x 18"	1.75'	Sun to part shade	Magenta flowers in early summer. Green foliage turns orange in fall.
2	Hemerocallis hybrid	Daylily	1-6' x 1-3'	.75-7'	Sun to light shade	Wide variety of flower colors, heights. Useful for massing. Foliage is grass-like.
2	Heuchera sanguinea	Coral Bells	12" x 15"	1'	Part to full shade	Round, lobed foliage; slender stems with white to pink bell shaped flowers.
2	Iberis sempervirens	Candytuft	12" x 12"	.75'	Sun to light shade	Evergreen. Bright white flowers mid spring.

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2	Iris hybrids	Bearded Iris; German Iris	1-3' x 2'	3'	Full to part sun	Flowers late spring to early summer; sword-like foliage
2	Liatris spicata	Gayfeather	2-3' x 2'	3'	Full sun	Grass-like foliage and showy flower spikes in purple and violet.
2	Lychnis coronaria	Rose Campion	36" x 24"	3'	Sun to light shade	Magenta flowers appear along woolly white stems. Leaves are silvery gray.
2	Paeonia hybrida	Peony	36" x 24"	3'	Sun to light shade	Wide range of flower colors and styles. Blooms late spring. Foliage is deeply lobed, attractive fall color.
2	Papaver orientale	Oriental Poppy	30" x 24"	3'	Sun to light shade	Papery flowers in mid spring in a variety of colors. Hairy basal foliage goes dormant in low water situations.
2	Phlox subulata	Creeping Phlox	6" x 12"	.75'	Sun to light shade	Low, matting foliage in light green; flowers appear in spring in a variety of colors.
2	Rudbeckia fulgida	Black Eyed Susan	3' x 2'	3'	Full sun	Deep golden flowers mid to late summer. Leaves are large, oval to heart shaped and glossy green.
2	Rudbeckia nitida	Orange Coneflower	2-4' x 3'	7'	Full sun	Smaller flowers than R. fulgida; densely branched with many flowers mid summer.

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2	<i>Rudbeckia occidentalis</i>	Western Coneflower	4' x 2'	3'	Full sun	Utah native. Tall spire with brown cone, very small yellow petals. Utilized by finches and other perching birds
2	<i>Salvia chamaecyparissus</i>	Germander Sage	18" x 24"	3'	Full sun	True blue flowers on spikes above green foliage. Foliage is evergreen during mild winters.
2	<i>Salvia nemerosa</i>	Plume-flowered Salvia	30" x 24"	3'	Full sun	Rosy purple flowers with fuzzy appearance, mid summer. Gray green foliage.
2	<i>Salvia superba</i>	Garden Salvia	2-3' x 2'	3'	Full sun	Spikes of flowers mid summer; foliage typically dull green.
2	<i>Scutellaria resinosa</i>	Prairie Skullcap	10" x 10"	.75'	Full sun	Neat mounds of thyme-like foliage; lavender blue flowers late spring.
2	<i>Saponaria ocymoides</i>	Rock Soapwort	6" x 24"	3'	Sun to part shade	Pink or white spring flowers; fine textured foliage.
2	<i>Solidago canadensis</i>	Goldenrod	3-4' x 3-4'	12.5'	Sun to shade	Plumes of yellow flowers late summer to early fall.
<b>DECIDUOUS AND EVERGREEN SHRUBS</b>						
0	<i>Amorpha fruticosa</i>	False Indigo	4' x 6'	28'	Full sun	Attractive, pinnate foliage; dense spires of purple flowers with yellow anthers.
0	<i>Arctostaphylos patula</i>	Greenleaf manzanita	3' x 6'	28'	Sun to light shade	Evergreen. Pale pink spring flowers, bell shaped. Utah native.

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0	<i>Artemisia bigelovii</i>	Bigelow's Sage	16" x 24"	3'	Full sun	Low growing sagebrush; light green color
0	<i>Artemisia cana</i>	Silver Sage	2-3' x 3'	7'	Full sun	Thicker leaves than other sages. Native to intermountain area.
0	<i>Artemisia filifolia</i>	Sand Sage	3' x 2'	3'	Full sun	Feathery foliage. Utah native
0	<i>Artemisia frigida</i>	Fringed Sage	14" x 14"	.75'	Full sun	Utah native. Silver foliage
0	<i>Artemisia nova</i>	Black Sage	2' x 2'	3'	Full sun	Foliage lead-gray; flower spikes dry to dark brown. Utah native.
0	<i>Artemisia tridentata</i>	Big Basin Sage	4' x 4'	12.5'	Full sun	Utah native. Large shrub with aromatic foliage.
0	<i>Atriplex canescens</i>	Fourwing Salt Bush	2-6' x 4'	12.5'	Full sun	Evergreen, silvery green foliage. Excellent for dry medians. Tolerates saline and alkaline soils. Utah native.
0	<i>Atriplex gardneri</i>	Gardner Salt Bush	12" x 4'	12.5'	Full sun	Evergreen. Utah native.
0	<i>Ceratoides lanata</i> (also listed as <i>Krascheninnikova lantana</i> )	Winterfat	3' x 2'	3'	Full sun	Silvery white foliage; important winter forage
0	<i>Cercocarpus intricatus</i>	Dwarf Mountain Mahogany	4-6' x 5'	19.5'	Full sun	Very dense, rounded form, tiny needle-like leaves.
0	<i>Cercocarpus ledifolius</i>	Curl-leaf Mountain Mahogany	15' x 8'	50'	Full sun	Evergreen. Dark small foliage. Feathery seed plume. Utah native.
0	<i>Cercocarpus montanus</i>	Mountain Mahogany	8' x 6'	28'	Full sun	Silver gray bark; thick dark green leaves. Utah native.

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0	<i>Chamaebatiaria millifolium</i>	Fernbush	4' x 3'	7'	Full sun	Green, aromatic foliage; clusters of white flowers late summer. Utah native.
0	<i>Chrysothamnus nauseosus</i>	Rubber Rabbitbrush	4' x 4'	12.5'	Full sun	White stems, silver foliage; spectacular yellow fall flowers. Utah native.
0	<i>Cowania mexicana</i> (also listed as <i>Purshia mexicana</i> )	Cliff Rose	2-5' x 4'	12.5	Full sun	Semi-evergreen. Potentilla-like flowers in late spring. Utah native.
0	<i>Ephedra viridis</i>	Mormon Tea	3' x 4'	12.5	Full sun	Evergreen. Unusual shrub with bright green bark and insignificant foliage. Utah native.
0	<i>Fallugia paradoxa</i>	Apache Plume	4' x 4'	12.5'	Full sun	Delicate, white flowers followed by mauve colored, fluffy seed heads. Utah native.
0	<i>Forestiera neomexicana</i>	New Mexico Privet	15' x 10'	78.5'	Full sun	Interesting multi-stemmed small tree. Black fruit enjoyed by birds. Utah native.
0	<i>Hippophae rhamnoides</i>	Sea Buckthorn	8-18' x 12'	113'	Full sun	Informal shrub; small greenish flower; orange, edible fruit on female plants. Good for wildlife.
0	<i>Holodiscus dumosus</i>	Rock Spray Spiraea	3' x 4'	12.5'	Full to part sun	Graceful shrub with arching branches covered in spring with cream blossoms. Utah native.
0	<i>Jamesia americana</i>	Cliff Jamesia	3' x 5'	19.5'	Full to part sun	White flowers spring and early summer. Utah native.

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0	Mahonia fremontii	Fremont's Mahonia	4' x 4'	12.5'	Full sun	Evergreen, holly-like foliage. Yellow spring flowers. Utah native.
0	Purshia tridentata	Antelope Bitterbrush	6' x 6'	28'	Full sun	Trilobed leaves; yellow spring flower. Very attractive to deer. Utah native.
0	Opuntia erinacea	Common Pricklypear	10" x 3-5'	19.5'	Full sun	A nice pricklypear with abundant white needles. Flowers are bright pink or yellow.
0	Rhus glabra	Smooth Sumac	8' x 8'	50"	Full sun	Bright red seed heads and red fall color.
0	Rhus glabra v cismontana	Dwarf Smooth Sumac	4' x 6'	28'	Full sun	Insignificant flowers followed by attractive red fruit that provides winter forage. Red fall color Utah native.
0	Rhus trilobata	Oakbrush Sumac, Skunkbrush	3-6' x 5'	19.5'	Sun to part shade	Dense and wide spreading shrub. Red fruit eaten by winter birds. Fall color yellow to red. Utah native.
0	Rhus typhina	Staghorn Sumac	10' x 15'	176'	Sun to part shade	Bright green, finely dissected, pinnate leaves turn scarlet in fall. Bright red seed head in fall. Forms colonies. Attractive to wildlife.
0	Ribes cereum	Squaw Currant	3' x 5'	19.5'	Full to part shade	Nice compact form; Small leaves, whitish pink flowers, red berries.

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0	<i>Robinia neomexicana</i>	New Mexico Locust	6-20' x 10-15'	176'	Full sun	Beautiful clusters of rose pink flowers; gray green foliage; winter seedpods. Has thorns; may sucker.
0	<i>Salvia dorrii</i>	Dorr's Sage	1-2' x 3'	7'	Full sun	Small, rounded white leaves are extremely aromatic. Purple-blue flower spires.
0	<i>Shepherdia argentea</i>	Silver Buffaloberry	10' x 6'	28'	Full sun	Fine, silvery foliage, small yellow flowers; red edible fruit. Valuable as habitat and forage.
0	<i>Yucca angustissima</i>	Narrow leaf Yucca	5' x 2'	3'	Full sun	Narrow leaves in rosette; tall spires of creamy white flowers
0	<i>Yucca baccata</i>	Datil Yucca	2' x 2'	3'	Full sun	Rosette of thick, sword-like leaves. Spires of creamy white flowers.
0	<i>Yucca elata</i>	Soaptree Yucca	8' x 8'	50'	Full sun	Rosette of large, thick, grayish leaves. Waxy cream flowers produced on elongated stems. Listed as a Zone 6, so plant in a protected area.
0	<i>Yucca glauca</i>	Spanish Bayonet	2' x 2'	3'	Full sun	Sword like leaves; creamy white flowers
0	<i>Yucca filamentosa</i>	Adam's Needle	3-6' x 3'	7'	Full sun	Broad, sword-like leaves; some forms are variegated. Flowers appear along tall stalk mid summer.

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0	Yucca harrimaniae	Harriman's Yucca	12" x 12"	.75'	Full sun	Sword-like foliage has threads along edges; tall spire up to 3 feet.
0	Yucca utahensis	Utah Yucca	8' x 5'	19.5'	Full sun	Stately yucca producing multiple flower stems
1	Amelanchier utahensis	Utah Serviceberry	4'-8' x 6'	28'	Sun to shade	Utah native. Smaller leaves, denser habit than other serviceberry
1	Arctostaphylos patula	Greenleaf Manzanita	5-6' x 8-10'	50'	Sun to light shade	Green leathery leaves; urn shaped pinkish flowers in spring; deep reddish wood.
1	Caragana arborescens	Siberian Pea Shrub	10' x 6'	28'	Full sun	Yellow spring flower; lime green foliage with yellow fall color.
1	Caragana pygmaea	Pygmy Pea Shrub	3' x 4'	12.5	Full sun	Fine textured foliage; yellow spring flower.
1	Forsythia sp.	Forsythia	6' x 6-8'	50'	Sun to light shade	Early yellow flowers on arching stems. Reddish fall color.
1	Hibiscus syriacus	Confederate Rose, Rose Of Sharon	8' x 8'	50'	Sun to light shade	Late summer flowers in a variety of colors. Needs more water in full sun.
1	Juniperus ssp.	varies	varies	varies	Full sun	Evergreen. Berries provide forage opportunities for many birds. Upright forms provide nesting.

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1	Mahonia aquifolium	Oregon Grape	10' x 10'	78'	Part to full shade	Evergreen leaves are holly-like. Fragrant yellow spring flowers followed by edible dark berries.
1	Mahonia compacta	Compact Oregon Grape	4-5' x 4'	12.5'	Part to full shade	Evergreen holly-like leaves; fragrant yellow spring flowers; dark edible berries.
1	Pachistima myrsinites (may also be listed as Paxistima)	Mountain Lover	3' x 4-5'	20'	Part to full shade	Evergreen with boxwood-shaped leaves that turn red in winter. Yellow spring flowers, green berries. Utah native.
1	Philadelphus lewisii	Lewis' Mockorange	4-6' x 5-8"	19.5 – 50'	Sun to part shade	Medium sized shrub with fragrant white flowers in early summer.
1	Philadelphus microphyllus	Littleleaf Mockorange	4-6' x 4-6'	20'	Sun to light shade	Snowy white flowers off and on all summer; dark green foliage; dense habit.
1	Pinus mugo var. mugo	Dwarf Mugo Pine	4' x 4'	12.5'	Full sun	Mounding evergreen.
1	Potentilla fruticosa	Shrubby Cinquefoil	3' x 3'	7'	Full sun	Many varieties with flower color in white, yellow, and red. Summer blooming.
1	Prunus besseyi	Western Sand Cherry	5' x 5'	19.5'	Full sun	Dull, dark green foliage, white spring flowers, edible fruit. Spreading, open habit
1	Rhamnus frangula 'Columnaris'	Tallhedge Buckthorn	10-12' x 4'	12.5'	Sun to part shade	Tall narrow shrub with glossy foliage turning yellow in fall, insignificant greenish flowers turning into attractive dark berries.

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1	Ribes aureum	Golden Currant	4' x 4'	12.5'	Part to full shade	Yellow spring flowers; red berries provide forage. Utah native.
1	Ribes odoratum	Clove Currant	6-8' x 6-8'	50'	Sun to part shade	Irregularly formed shrub with arching branches. Profuse spring flowers are clove-scented. Foliage is bluish green. Alternate host for White Pine Blister Rust.
1	Rosa foetida 'Bicolor'	Austrian Copper Rose	6-8' x 8'	50'	Full sun	Yellow flowers turn coppery red; very hardy and very thorny.
1	Rosa glauca (also listed as R. rubrifolia)	Redleaf Rose	6-7' x 4-6'	20'	Sun to part shade	Reddish foliage (gray green in shade); simple rose pink flower early summer; dark red hips; red-orange fall color.
1	Rosa x harisonii	Harison's Yellow Rose	2-5' x 4-6'	28'	Full sun	Bright yellow spring blossoms followed by showy black hips. Thorns.
1	Rosa woodsii	Woods Rose	5' x 5'	20'	Sun to part shade	Delicate pink spring blossoms; large red hips persist into winter. Utah native.
1	Rubus deliciosus	Boulder Thimbleberry	4-6' x 5-8'	28'	Sun to part shade	Large, single, white rose-like flower in early summer; foliage bright green with yellow fall color. Vase-shaped shrub.

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1	<i>Symphoricarpos x chenaultii</i>	Chenault Coralberry	3-4' x 4-6'	20'	Sun to part shade	Delicate, bluish green foliage; clusters of pinkish flowers followed by colorful purple berries that persist into winter.
1	<i>Symphoricarpos oreophilus</i>	Mountain Snowberry	2-5' x 3-5'	19.5'	Full to part sun	Vase shaped shrub, light gray leaves, pink bell shaped flowers. Snowy white berries persist into winter. Utah native.
1	<i>Syringa vulgaris</i>	Common Lilac (many cultivars)	8-20' x 10-15'	176'	Full sun	Spring flowers, sometimes fragrant. Allow for good air circulation to reduce or avoid powdery mildew.
2	<i>Alnus incana</i> ; <i>A. tenuifolia</i>	Thinleaf Alder	15' x 10'	78'	Full to part sun	Smooth gray bark; glossy leaves
2	<i>Amelanchier alnifolia</i>	Saskatoon Serviceberry	6-15" x 8'	50'	Sun to shade	Utah native. White spring flowers, edible fruit, silvery bark, red fall color
2	<i>Aronia arbutifolia</i>	Red Chokeberry	6-8' x 4-5'	19.5'	Sun to light shade	White spring flowers, glossy leaves, red berries.
2	<i>Aronia melanocarpa</i>	Black Chokeberry	8' x 6'	28'	Sun to light shade	White spring flowers, glossy foliage, black berries. Red fall color and persistent fruit. Attractive hedge or foundation plant.

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2	Berberis sp.	Mentor Barberry, Red Leaf Barberry, Rose Glow Barberry	5'-6' x 4'-6'	28'	Sun to light shade	Rounded, dense shrubs with small round leaves in yellow, red, or green depending on variety. Not well suited for south or west facing walls. Has thorns.
2	Berberis thunbergii 'Crimson Pygmy'	Crimson Pygmy Barberry	2' x 2'-4'	12.5'	Sun to light shade	Rounded dense shrub with red foliage. Not well suited for south or west facing walls. Has thorns.
2	Buddleia sp.	Butterfly Bush	4-8' x 4-10'	12.5 – 78'	Sun to light shade	Upright and arching shrubs with late summer flowers similar to lilacs. Gray to green foliage.
2	Caryopteris x clandonensis	Blue Mist Spirea	2-3' x 4'	12.5'	Full sun	Grayish green foliage; blue flowers in late summer. Most attractive when cut back hard in late winter.
2	Chaenomeles japonica	Flowering Quince	6' x 8"	50'	Sun to light shade	Very early flowers, rose to apricot; soft green foliage. Chlorosis may be a problem.
2	Cotinus coggygria	Smoke Tree	15' x 8'	50'	Full sun	Dark reddish leaves, flower plumes are smoky purple, orange fall color.
2	Cotoneaster acutifolia	Peking Cotoneaster	8-10' x 8-10'	78'	Sun to light shade	Deciduous shrub with glossy green leaves, small white summer flowers, red fall berries.
2	Cotoneaster apiculata	Cranberry Cotoneaster	3' x 4'	12.5'	Sun to light shade	Rounded dense shrub, dark glossy leaves, white flowers, red berries.

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2	Cotoneaster divaricata	Spreading Cotoneaster	5' x 8'	50'	Sun to light shade	White spring flower; red summer fruit; small round dark leaves have orange fall color.
2	Cytisus scoparius	Scotch Broom	4-6' x 6'	28'	Full sun	Yellow spring flower; bright green stems provide winter interest.
2	Daphne cneorum	Rose Daphne	3' x 4'	12.5'	Light shade	Evergreen spreading shrub with narrow dark leaves. Clusters of white to pink, fragrant flowers in spring.
2	Euonymus alata	Winged Euonymus	8' x 10'	78'	Sun to light shade	Large rounded shrub with dull green leaves and fiery red fall color. Interesting corky bark. In full sun requires more water.
2	Euonymus alata 'Compacta	Dwarf Winged Euonymus	5' x 5'	20'	Sun to light shade	Bright green spring foliage darkens in summer; turns fiery red in fall. Needs more water in full sun.
2	Kolkwitzia amabilis	Beauty Bush	8' x 8'	50'	Sun to part shade	Pink flowers in early summer; upright, arching stems form dense round shrub
2	Prunus x cistena	Purple Sand Cherry	6-8' x 8'	50'	Sun to part shade	Dark purple leaves; white fragrant spring flower.
2	Physocarpus opulifolius	Ninebark	5' x 6'	28'	Sun to light shade	White May flowers followed by red pods. Yellow fall color. Attractive exfoliating bark.

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2	Physocarpus opulifolius 'Diabolo'	Diabolo Ninebark	8-10' x 8-10'	78'	Sun to light shade	Dark, reddish purple foliage; white spring flower. Best color in full sun.
2	Ptelea trifoliata	Hoptree	20' x 15'	176'	Part to full shade	Fragrant green flowers. Will grown in dense shade
2	Rosa meideland	Meideland Rose	2-3' x 6'	28'	Full sun	Everblooming shrub roses with low profile. White, pinks and reds available. Has thorns.
2	Rosa rugosa	Rugosa Rose	4-6' x 6-8'	28 – 50'	Full sun	Tough roses in a wide range of sizes and colors. Tend to be bushier than hybrids. Many have attractive rose hips. Thorns.
2	Sambucus caerulea	Elderberry	8-10' x 8'	50'	Full to part sun	Lacy white flowers in spring; edible blue berries in late summer; attractive to wildlife. The more sun it receives, the more water it needs.
2	Spiraea x bumalda	Bumald Spirea	2-5' x 4-6'	12.5 – 28'	Sun to light shade	Clusters of early summer blooms, mostly in pinks and white. Some have colorful foliage.
2	Spiraea x vanhouttei	Bridal Wreath Spirea	8' x 10'	78'	Sun to light shade	Cascades of white flowers late summer. Graceful arching habit. Red fall color.
2	Symphoricarpos albus	Common Snowberry	4' x 5'	19.5'	Part to full shade	Tubular white flowers followed by white berries that are persistent into winter.

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2	<i>Symphoricarpos orbiculatus</i>	Indiancurrant Coralberry	3' x 6'	28'	Part to full shade	Small, soft green leaves on arching branches. Deep pink fruit forms in late summer and persists into winter.
2	<i>Symphoricarpos occidentalis</i>	Wolfberry	1-3' x 5'	19.5'	Part to full shade	Tubular pinkish flowers; forms colonies. Berries are eaten by birds and small mammals.
2	<i>Syringa patula</i>	Dwarf Korean Lilac	3' x 4'	12.5'	Full sun	Late spring purple flowers; leaves smaller than on <i>S. vulgaris</i> . Makes a nice hedge.
2	<i>Taxus x media 'Densiformis'</i>	Dense Yew	3-4' x 4-6'	28'	Part to full shade	Evergreen shrub with rounded dense form. Not suited for west of south facing walls. May need more water to reach establishment.
2	<i>Viburnum lantana</i>	Wayfaring Tree	10-15' x 10-15'	176'	Sun to part shade	White spring flower clusters; leathery green leaves turn maroon in fall; summer berry attractive to birds.
2	<i>Viburnum rhytidophyllum</i>	Leatherleaf Viburnum	10-12' x 10-15'	78'	Part to full shade	Yellowish flowers mid May; dark leathery foliage. Tolerates dense shade.
<b>DECIDUOUS TREES</b>						

WATER ZONE	BOTANICAL NAME	COMMON NAME	MATURE SIZE H x W	AREA VALUE (sq ft)	LIGHT	COMMENTS
0	<i>Celtis occidentalis</i>	Common Hackberry	50' x 40'	1256'	Full to part sun	Elm-like foliage; upright arching branches. Thick, knobby bark. Tolerates urban air pollution. Good for parking islands.
0	<i>Celtis reticulata</i>	Netleaf Hackberry	20-30' x 20'	20'	Full to part sun	Utah native; interesting warty bark
0	<i>Chilopsis linearis</i>	Desert Willow	15-20' x 15-20'	176'	Full sun	Small tree with open, airy form. Clusters of small, orchid-like flowers in summer. Heat tolerant, but not suited to exposed winter sites.
0	<i>Fraxinus velutina</i>	Velvet Ash	40' x 30'	706'	Sun to light shade	Thick leaves finely serrated; gray furrowed bark. Tolerant of high pH soils and heat.
0	<i>Koelreuteria paniculata</i>	Goldenrain Tree	25' x 25'	490'	Full sun	Tolerates alkaline and poor soils. Yellow flower clusters in midsummer followed by lantern-shaped seed pods. Do not water late into the fall as the tree will not go dormant.
0	<i>Quercus gambelii</i>	Gambel Oak; Scrub Oak	15-20' x 15-20'	176'	Full sun	Native oak has persistent winter foliage. Important habitat and forage plant. Utah native.
0	<i>Robinia ambigua</i>	Idaho Locust	40' x 20'	176'	Full sun	Dark green leaves; pink late spring flower. More open in form than <i>R. pseudoacacia</i> . History of breakage in storm events in SLC.

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0	<i>Robinia neomexicana</i>	New Mexico Locust	6-20' x 10-15'	176'	Full sun	Beautiful clusters of rose pink flowers; gray green foliage; winter seedpods. Has thorns; may sucker.
0	<i>Robinia pseudoacacia</i>	Black Locust	50' x 30'	706'	Full sun	Tough tree well suited to harsh sites. Fragrant white late spring flower.
1	<i>Acer campestre</i>	Hedge Maple	20' x 30'	706'	Full to part sun	Dense and rounded maple with thick, dark leaves. Yellowish fall color. Tolerant of alkaline soils
1	<i>Acer grandidentatum</i>	Bigtooth Maple	20' x 20'	314'	Part to full sun	Thick, dark green leaves remain attractive throughout summer. Yellow to red fall color. Utah native.
1	<i>Acer negundo</i>	Boxelder	25-30' x 25'	490'	Sun to light shade	Seedless forms only, such as 'Baron.' Female forms are host to boxelder bugs.
1	<i>Acer nigrum</i>	Black Maple	60' x 40'	1256'	Full sun	Dark green leaves, more tolerant of alkaline soils than Sugar Maples; darker bark. May be prone to wilt-like symptoms.
1	<i>Acer tataricum</i>	Tatarian Maple	20' x 15-20'	176'	Sun to light shade	Shrubby maple, alternative to Amur Maple. Attractive red fruit. Orange to red fall color.
1	<i>Amelanchier alnifolia</i>	Saskatoon Serviceberry	15' x 10-15'	176'	Sun to shade	White spring flower followed by black edible fruit. yellow to red fall color. Utah native

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1	Amelanchier arborea	Downy Serviceberry	15- x 10-15'	176'	Sun to shade	Red brown to dark gray bark; white spring flowers; edible fruit. Orange fall color. Good alternative to Aspen.
1	Amelanchier x grandiflora	Juneberry	20' x 15'	176'	Sun to shade	Multi-stemmed tree with soft green leaves and white spring fruit. Orange to red fall color. Good substitute for Aspen.
1	Cercis occidentalis	Western Redbud	10-12' x 12'	113'	Sun to light shade	Rosy purple spring flowers, round leaves. More heat tolerant than C. canadensis. May shed leaves in mid-summer under stress.
1	Cercis reniformis	Mexican Redbud	20' x 20'	314'	Sun to light shade	Rosy pink flowers in spring; leaves are large, round and slightly ruffled. Reddish brown seed pods. More heat tolerant than C. canadensis.
1	Cotinus obovatus	American Smoketree	20-25' x 15'	176'	Full sun	Bluish gray leaves have orange to red fall color.
1	Fraxinus mandshurica	Manchurian Ash	40-50'	20'	314'	Dense, oval crown. Glossy dark leaves. Yellow fall color.
1	Ginkgo biloba	Ginkgo	50' x 30'	706'	Full sun	Upright tree with distinctive fan-shaped leaves. Yellow fall color. Slow to establish, but a worthy tree.

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1	Gymnocladus dioicus	Kentucky Coffeetree	50' x 25'	490'	Full sun	Erect, rounded crown. Greenish white fragrant flowers. Double pinnately compounded leaves turn deep yellow in fall. Pods provide winter interest. Tolerates alkaline, salt.
1	Maclura pomifera	Osage Orange	30' x 20'	314'	Full sun	Dense, rounded form; stiff, spiny interlacing branches; large yellow green fruit. Very tough and durable tree. Thorns. Good for windbreaks, hedgerows.
1	Quercus bicolor	Swamp White Oak	40-50' x 30-50'	1256'	Sun to light shade	Dark green leaves with light green to white velvety undersides. Tolerant of compacted or saline soils. Yellow to orange fall color. May retain foliage into winter months.
1	Quercus macrocarpa	Burr Oak	50-80' x 50'	1962'	Full sun	Dark green leaves become yellow brown in fall. Broad and spreading with maturity.
1	Quercus muehlenbergii	Chinkapin Oak	40' x 30-50'	1256'	Full sun	Tolerant of alkaline soils
1	Sophora japonica	Japanese Pagoda Tree	40' x 40'	1256'	Sun to light shade	Pea-shaped yellowish flowers late summer; fragrant; dark green leaflets; furrowed bark. Cease water in early fall. Not suited to exposed sites. Attractive to bees.

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1	Ulmus parvifolia	Lacebark Elm	40' x 25'	490'	Full sun	Glossy green foliage turns orange to rust in fall. Exfoliating bark. Resistant to Dutch Elm Disease and phloem necrosis. Attractive exfoliating bark.
1	Zelkova serrata	Japanese Zelkova	40' x 25'	490'	Sun to light shade	Vase shaped tree with finely serrated leaves turning yellow to bronze in the fall.
2	Acer ginnala	Amur Maple	15-20' x 15'	176'	Full to part sun	Medium green leaves; yellow to red fall color. Best as multi-stemmed tree
2	Acer glabrum	Rocky Mountain Maple	15-20' x 6-10'	78'	Full to part sun	Attractive, multi-stemmed maple has smooth gray bark and deeply lobed leaves. Deep yellow fall color.
2	Acer pseudoplatanus	Sycamore Maple	50' x 30'	706'	Full sun	Dark green leaf with lighter underside. Gray to brown platy bark exfoliates to reveal orange bark underneath. May be subject to chlorosis.
2	Aesculus glabra	Ohio Buckeye	25' x 25'	490'	Sun to part shade	Avoid planting where trees will be subject to reflected heat. Whitish green panicles followed by large, inedible fruit. Fruit is toxic if eaten.

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2	Catalpa speciosa	Western Catalpa	40-70' x 30'	706'	Full sun	Large, trumpet shaped fragrant flowers in early summer; large soft green leaves; yellow fall color.
2	Cercis canadensis	Eastern Redbud	25' x 20'	314'	Sun to light shade	Reddish purple pea-like flowers in spring; round glossy foliage. In full sun may need more water.
2	Corylus colurna	Turkish Filbert	20-30' x 15-20'	176'	Full sun	Fine textured leaf; dense habit of growth. Prefers well drained soils, is pH adaptable. Heat tolerant.
2	Crataegus crus-galli v inermis	Thornless Hawthorn	20' x 20'	314'	Full to part sun	White spring flowers; red fall fruit; red fall color.
2	Fraxinus anomala	Singleleaf Ash	6-10' x 10'	78'	Sun to shade	Dark green, single leaves; upright habit. Drought and heat tolerant.
2	Ptelea trifoliata	Hop Tree	15-20' x 20'	314'	Sun to shade	Fragrant, greenish white flowers in early summer; glossy green foliage; adaptive to dry shade.
2	Syringa reticulata	Japanese Tree Lilac	25' x 20'	314'	Full sun	Creamy white flowers early summer; later than other lilacs; yellow fall color. Tolerant of heat and winds.
2	Tilia tomentosa	Silver Linden	50' x 25'	314'	Full sun	Leaves are dark green on top, silvery white underneath. Yellow fragrant flower early summer. Tolerates heat and drought better than other lindens.

WATER ZONE	BOTANICAL NAME	COMMON NAME	MATURE SIZE H x W	AREA VALUE (sq ft)	LIGHT	COMMENTS
EVERGREEN TREES						
0	Juniperus osteosperma	Utah Juniper	15' x 10'	78'	Full sun	Very cold, drought, and heat resistant, and adaptive to a wide range of soils. Generally smaller than J. scopulorum.
0	Juniperus scopulorum	Rocky Mountain Juniper	20' x 10'	20'	Full sun	Utah native. Utilized by birds for food and shelter. Do not plant near hawthorns or crabapples as they are alternate hosts for rust disease.
0	Pinus aristata	Bristlecone Pine	15-20' x 10-15'	176'	Full sun	Utah native. Interesting pine with contorted form. Slow growing. Does not belong in lawn areas.
0	Pinus edulis	Pinyon Pine	20-30' x 10-20'	15'	Full sun	Twigs orange to brown; edible seeds. Utah native.
0	Pinus monophylla	Single-needled Pine	30' x 20'	314'	Sun to light shade	Utah native. Needles borne individually on twig.
0	Pinus ponderosa	Ponderosa Pine	80' x 25'	490'	Full sun	Pyramidal to irregular habit. Needles dark to yellowish green. Bark is brownish black to cinnamon red with deep fissures. Utah native
1	Calocedrus decurrens	Incense Cedar	30-50' x 10'	78'	Sun to light shade	Evergreen with feathery plates. Exfoliating bark. Fragrant. Fairly heat tolerant.

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1	<i>Cedrus atlantica glauca</i>	Blue Atlas Cedar	40-60'x30'	706'	Sun to part shade	Pyramidal form, blue to gray green in color.
1	<i>Pinus flexilis</i>	Limber Pine	25-35' x 20'	314'	Full sun	Long needles; bluish green. Utah native.
1	<i>Pinus flexilis</i> 'Vanderwolf Pyramidal'	Vanderwolf Pine	25'35' x 15'	176'	Full sun	A narrower form than the species.
1	<i>Pinus heldreichii leucodermis</i>	Bosnian Red Cone Pine	40-50' x 20'	314'	Sun to part shade	Glossy green needles; pyramidal form.
1	<i>Pinus nigra</i>	Austrian Pine	50' x 25'	490'	Full sun	Broad dense evergreen with dark green needles.
1	<i>Pinus strobiformis</i>	Western White Pine	40-50' x 20'	314'	Full sun	Nice blue-green color.
1	<i>Pinus sylvestris</i>	Scotch Pine	60' x 25'	490'	Sun to light shade	Pyramidal in youth, broad canopy in maturity. Older bark is orange.
2	<i>Abies concolor</i>	White Fir	60' x 15-25'	490'	Sun to part shade	Grayish blue color; stiff thick needles. Pyramidal habit. Utah native.
2	<i>Picea abies</i>	Norway Spruce	60' x 25'	490'	Sun to light shade	Dark green needles; pyramidal form with drooping branches.
2	<i>Picea pungens v. glauca</i>	Colorado Blue Spruce	30-60' x 20'	314'	Sun to light shade	Blue or green foliage; pyramidal form. Utah native.
2	<i>Pseudotsuga menzeisii</i>	Douglas Fir	70' x 20'	314'	Full sun	Dark green needles; branches droop slightly; fragrant foliage. Utah native

## References

American Association of Nurserymen. *American Standard for Nursery Stock*.

Greenlee, John. *The Encyclopedia of Ornamental Grasses*. Emmaus: Pennsylvania: Rodale Press. 1992.

Keane, Terry. *Water Wise Landscaping*. Utah State University Cooperative Extension Service, Logan, Utah.

Liljegren, Fred. "Low Water Use Plant List." U.S. Department of the Interior, Bureau of Reclamation.

McPherson, Gregory E. and Gregory H. Graves. *Ornamental and Shade Trees for Utah*. Utah State University Cooperative Extension Service, Logan, Utah.

Rupp, Larry A. *DROUGHT, a Database of Irrigation Requirements for Woody Plants of Northern Utah*. Unpublished.

Sternberg, Guy and Jim Wilson. *Landscaping with Native Trees*. Shelburne, Vermont: Chapters Publishing Ltd. 1995.

Sunset Publishing Company. *Sunset Western Garden Book*. Menlo Park, California: Lane Publishing

U.S. Forest Service and the Utah State University Cooperative Extension Service. *Urban and Community Forestry, a Guide for the Interior Western United States*. Logan, Utah: University of Utah.

Utah State University Cooperative Extension Service. *Interagency Forage & Conservation: Planting Guide for Utah*. Logan, Utah: University of Utah.