

WATER-WISE LANDSCAPE



The Utah House is a sustainable building and landscape demonstration located at the Utah Botanical Center

The Utah House water-wise landscape demonstrates how homeowners can create a beautiful and colorful landscape while significantly reducing water use. This innovative demonstration landscape uses up to 75% less water than a conventional landscape and showcases a variety of well-adapted and indigenous water-wise plants. Utah is the second driest state in the nation and is facing significant water challenges. This brochure highlights plants according to water-use and provides additional information that will assist visitors in learning how to reduce landscape water consumption.





UTAH HOUSE WATER-WISE PLANT LIST

SYMBOLS LEGEND:

WATER-USE

- ☀ Very low water
- ☾ Low water
- 🌧 Moderate water
- 💧 High water

EXPOSURE

- ☀ Full sun
- ☾ Part shade
- ☿ Full shade

REMARKS

- 🦋 Attracts butterflies
- 🐦 Attracts hummingbirds
- 🏠 Utah native plant

Water-Use Zones

Water-wise landscaping takes advantage of the varying conditions and microclimates which exist in every landscape. Zone the landscape by grouping plants together that have similar water needs. It is important to place the right plant in the right place. Avoid planting a high water-use plant next to a low water-use plant.

Many plants from this list may be used in more than one water-use zone. Site-specific soils will affect water-use. Clay soils will require less water, while sandy soils may require more water.

☀ – Very Low Water: This is the lowest water-use zone in a water-wise landscape and will provide the greatest water savings when compared to conventional landscaping. Plants generally need no additional water once established. Supplemental water may be necessary during extreme drought conditions.

☾ – Low Water: Plants used in this zone need more water than natural precipitation. Approximately 1/2" water added once or twice a month should be sufficient. This amount may vary from site to site. Careful selection of a "low-volume" irrigation system will conserve large amounts of water.

🌧 – Moderate Water: Plants generally need approximately 3/4" water added once a week. This is more than the low water-use plants but still 50% less than most conventional landscapes.

💧 – High Water: This zone should be kept small and functional in size. It could be considered a mini-oasis and is best used when incorporated carefully into your landscape design. Kentucky bluegrass lawn is generally the primary plant used in this zone. Approximately 1/2" water added 3 times a week is necessary.

Very Low Water-Use Zone

Plants generally need no additional water once established.

Trees:

| | | |
|-----------------------------|------------------------|------|
| <i>Celtis reticulata</i> | Netleaf Hackberry | ☀☀☀🏠 |
| <i>Juniperus scopulorum</i> | Rocky Mountain Juniper | ☀☀🏠 |
| <i>Pinus edulis</i> | Pinyon Pine | ☀☀🏠 |
| <i>Quercus gambelii</i> | Gamble Oak | ☀☀🏠 |

Very Low Water-Use Zone Shrubs:

| | | |
|------------------------------------|-----------------------------|------|
| <i>Artemisia frigida</i> | Fringed Sagebrush | ☀☀🏠 |
| <i>Artemisia tridentata</i> | Big Sagebrush | ☀☀🏠 |
| <i>Cercocarpus ledifolius</i> | Curl-leaf Mountain Mahogany | ☀☀🏠 |
| <i>Chrysothamnus nauseosus</i> | Rubber Rabbitbrush | ☀☀🏠 |
| <i>Chrysothamnus viscidiflorus</i> | Yellow Rabbitbrush | ☀☀🏠 |
| <i>Rhus glabra</i> | Smooth Sumac | ☀☀🏠 |
| <i>Rhus trilobata</i> | Threeleaf Sumac | ☀☀☀🏠 |

Perennials

| | | |
|---|------------------|-------|
| <i>Achillea millefolium</i> 'Moonshine' | Moonshine Yarrow | ☀☀☀ |
| <i>Berlandiera lyrata</i> | Chocolate Flower | ☀☀☀ |
| <i>Linum lewisii</i> | Blue Flax | ☀☀☀🦋🏠 |

Low Water-Use Zone

Plants generally need 1/2" water added once or twice a month.

Trees:

| | | |
|---------------------------------------|------------------------------|------|
| <i>Acer ginnala</i> 'Flame' | Flame Amur Maple | ☀☀☀🌧 |
| <i>Acer ginnala</i> 'Bailey' | Bailey Compact Amur Maple | ☀☀☀🌧 |
| <i>Acer grandidentatum</i> | Bigtooth Maple | ☀☀☀🏠 |
| <i>Koeleruteria paniculata</i> | Golden Raintree | ☀☀☀🌧 |
| <i>Pinus flexilis</i> 'Vanderwolfes' | Vanderwolfes Limber Pine | ☀☀🌧 |
| <i>Pinus heldrichii</i> 'Leucodermis' | Bosnian Redcone Pine | ☀☀🌧 |
| <i>Pinus leucodermis</i> 'Green Bun' | Green Bun Dwarf Redcone Pine | ☀☀🌧 |
| <i>Pinus nigra</i> | Austrian Pine | ☀☀☀🌧 |
| <i>Prunus virginiana</i> | Chokecherry | ☀☀☀🏠 |
| <i>Quercus macrocarpa</i> | Bur Oak | ☀☀🌧 |

Shrubs:

| | | |
|---|---------------------------------|-------|
| <i>Amelanchier alnifolia</i> 'Saskatoon' | Saskatoon Serviceberry | ☀☀ |
| <i>Amelanchier alnifolia</i> | Regent Serviceberry | ☀☀ |
| <i>Caryopteris x clandonensis</i> 'Blue Mist' | Bluemist Spirea | ☀☀☀🌧 |
| <i>Cercocarpus montanus</i> | Alderleaf Mountain Mahogany | ☀☀🏠 |
| <i>Chamaebatiaria millefolium</i> | Fembush | ☀☀☀🏠 |
| <i>Cotinus coggygria</i> | Smoketree | ☀☀ |
| <i>Forestiera neomexicana</i> | New Mexican Privet | ☀☀🏠 |
| <i>Juniperus horizontalis</i> 'Blue Chip' | Blue Chip Creeping Juniper | ☀☀ |
| <i>Juniperus sabina</i> 'Calgary Carpet' | Calgary Carpet Juniper | ☀☀ |
| <i>Juniperus squamata</i> 'Blue Star' | Blue Star Juniper | ☀☀☀ |
| <i>Philadelphus lewisii</i> | Lewis Mockorange | ☀☀☀ |
| <i>Prunus cistena</i> | Purpleleaf Sandcherry | ☀☀☀ |
| <i>Pinus mugo</i> 'Slowmound' | Slowmound Mugo Pine | ☀☀☀🌧 |
| <i>Rhus aromatica</i> 'Gro-Low' | Gro-Low Sumac | ☀☀☀ |
| <i>Ribes alpinium</i> | Alpine Currant | ☀☀☀☀🌧 |
| <i>Shepherdia argentea</i> | Silver Buffaloberry | ☀☀☀🏠 |
| <i>Rosa woodsii</i> | Woods Rose | ☀☀☀☀🏠 |
| <i>Viburnum trilobum</i> | American Cranberrybush Viburnum | ☀☀☀🌧 |

Groundcovers:

| | | |
|------------------------------------|---------------------------|--------|
| <i>Arctostaphylos uva-ursi</i> | Bearberry or Kinnikinnick | ☀☀☀☀🏠 |
| <i>Ceratostigma plumbaginoides</i> | Hardy Plumbago | ☀☀☀☀☀ |
| <i>Mabonia repens</i> | Creeping Oregon Grape | ☀☀☀☀☀🏠 |
| <i>Sedum kamtschaticum</i> | Russian Stonecrop | ☀☀☀☀ |
| <i>Sedum spurium</i> | Dragon's Blood Stonecrop | ☀☀☀☀ |
| <i>Sedum spurium</i> 'Tricolor' | Variiegated Stonecrop | ☀☀☀☀ |
| <i>Thymus praecox</i> 'Coccineus' | Red Creeping Thyme | ☀☀☀🦋 |
| <i>Thymus pseudolanuginosus</i> | Woolly Thyme | ☀☀☀ |

Ornamental Grasses:

| | | |
|---|----------------------------------|--------|
| <i>Calamagrostis x acutiflora</i> 'Avalanche' | Feather Reed Grass | ☀️☀️💧💧 |
| <i>Calamagrostis x acutiflora</i> 'Karl Foerster' | Karl Foerster Feather Reed Grass | ☀️💧💧 |
| <i>Festuca glauca</i> 'Sea Urchin' | Sea Urchin Blue Fescue | ☀️☀️💧💧 |
| <i>Miscanthus sinensis</i> 'Yaku Jima' | Yaku Jima Maidenhair Grass | ☀️☀️💧💧 |
| <i>Pennisetum alopecuroides</i> | Fountain Grass | ☀️💧💧 |

Grasses:

| | | |
|---------------------------|------------------|-------|
| <i>Bouteloua gracilis</i> | Blue Grama Grass | ☀️💧💧🏠 |
|---------------------------|------------------|-------|

Perennials:

| | | |
|---|------------------------------------|---------|
| <i>Achillea millefolium</i> 'Moonshine' | Moonshine Yarrow | ☀️🌱💧 |
| <i>Agastache x</i> 'Desert Sunrise' | Hybrid Hummingbird Mint | ☀️💧💧🦋 |
| <i>Agastache rupestris</i> | Licorice Mint | ☀️☀️🦋🦋 |
| <i>Anacyclus depressus</i> | Mount Atlas Daisy | ☀️💧 |
| <i>Artemisia ludoviciana</i> 'Silver King' | White Sage | ☀️💧 |
| <i>Artemisia schmidtiana</i> 'Silver Mound' | Silver Mound Wormwood | ☀️💧💧 |
| <i>Artemisia versicolor</i> 'Sea Foam' | Sea Foam Artemisia | ☀️☀️💧💧 |
| <i>Artemisia x</i> 'Powis Castle' | Powis Castle Silver Sage | ☀️💧 |
| <i>Asclepias tuberosa</i> | Orange Butterfly Weed | ☀️🌱🦋🦋🏠 |
| <i>Aster novae-angliae</i> 'Purple Dome' | Purple Dome New England Aster | ☀️💧💧🦋 |
| <i>Aubrieta deltoidea</i> 'Rocky's Purple' | Rocky's Purple Aubrieta | ☀️☀️💧💧 |
| <i>Berlandiera lyrata</i> | Chocolate Flower | ☀️🌱💧 |
| <i>Callirhoe involucrata</i> | Poppy Mallow | ☀️💧 |
| <i>Centaurea montana</i> 'Blue' | Mountain Blue Cornflower | ☀️💧🦋 |
| <i>Centranthus ruber</i> | Jupiter's Beard | ☀️☀️💧💧🦋 |
| <i>Coreopsis grandiflora</i> 'Mayfield Giant' | Mayfield Giant Tickseed | ☀️💧🦋 |
| <i>Coreopsis grandiflora</i> 'Sun Ray' | Sun Ray Tickseed | ☀️💧💧🦋 |
| <i>Coreopsis verticillata</i> 'Moonbeam' | Threadleaf Tickseed | ☀️💧🦋 |
| <i>Cytisus purgans</i> | Spanish Gold Hardy Broom | ☀️☀️💧 |
| <i>Delosperma cooperi</i> | Hardy Pink Ice Plant | ☀️💧 |
| <i>Dianthus gratianopolitanus</i> 'Fire Witch' | Fire Witch Dianthus | ☀️☀️🦋🦋 |
| <i>Eriogonum umbellatum</i> | Sulfur-flower Buckwheat | ☀️💧 |
| <i>Gaillardia aristata</i> 'Burgundy' | Burgundy Blanket Flower | ☀️💧💧🦋 |
| <i>Gaillardia aristata</i> 'Baby Cole' | Baby Cole Blanket Flower | ☀️💧💧🦋 |
| <i>Gaillardia aristata</i> 'Goblin' | Goblin Blanket Flower | ☀️💧🦋 |
| <i>Guara lindheimeri</i> | Whirling Butterflies | ☀️☀️💧🦋 |
| <i>Guara</i> 'Siskiyou Pink' | Siskiyou Pink Whirling Butterflies | ☀️☀️💧🦋 |
| <i>Helianthemum nummularium</i> 'Cheviot' | Cheviot Rockrose | ☀️💧 |
| <i>Helianthemum</i> 'Primrose Yellow' | Yellow Rockrose | ☀️💧 |
| <i>Iris pallida</i> 'Albo Variegata' | Variiegated Sweet Iris | ☀️💧 |
| <i>Iris pallida</i> 'Aureo Variegata' | Gold Variiegated Sweet Iris | ☀️💧 |
| <i>Lavendula angustifolia</i> | Hidcote English Lavender | ☀️☀️💧 |
| <i>Liatris spicata</i> | Gayfeather | ☀️💧💧🦋 |
| <i>Linum lewisii</i> | Blue Flax | ☀️🌱🦋🏠 |
| <i>Marrubium rotundifolia</i> | Silver Edged Horehound | ☀️💧 |
| <i>Mirabilis multiflora</i> | Showy Four o' Clock | ☀️💧🦋🏠 |
| <i>Nepeta x faassenii</i> 'Blue Wonder' | Blue Catmint | ☀️☀️💧🦋 |
| <i>Oenothera missouriensis</i> 'Ozark Sundrops' | Ozark Sundrops Eve. Primrose | ☀️☀️💧 |
| <i>Origanum libanoticum</i> | Hopflower Oregano | ☀️☀️💧 |
| <i>Penstemon eatonii</i> | Firecracker Penstemon | ☀️💧🦋🏠 |
| <i>Penstemon grandiflorus</i> 'Prairie Jewel' | Prairie Jewel Penstemon | ☀️💧💧 |
| <i>Penstemon x mexicali</i> 'Pikes Peak Purple' | Pikes Peak Purple Penstemon | ☀️☀️💧💧🦋 |
| <i>Penstemon x mexicali</i> 'Red Rocks' | Red Rocks Penstemon | ☀️☀️💧💧🦋 |
| <i>Penstemon pinifolius</i> | Pineleaf Penstemon | ☀️☀️💧💧🦋 |
| <i>Penstemon pinifolius</i> 'Mersea Yellow' | Yellow Pineleaf Penstemon | ☀️☀️💧💧🦋 |

| | | |
|--|----------------------------------|---------|
| <i>Penstemon strictus</i> | Rocky Mountain Penstemon | ☀️💧🏠 |
| <i>Perovskia atriplicifolia</i> | Russian Sage | ☀️💧 |
| <i>Rudbeckia fulgida</i> 'Goldsturm' | Black Eyed Susan | ☀️🦋🦋 |
| <i>Salvia argentea</i> | Elephant Ear Silver Sage | ☀️💧💧 |
| <i>Salvia greggii</i> | Furman's Red Sage | ☀️☀️💧💧🦋 |
| <i>Salvia nemorosa</i> 'East Friesland' | East Friesland Meadow Sage | ☀️💧💧🦋 |
| <i>Salvia nemorosa</i> 'May Night' | May Night Meadow Sage | ☀️💧💧🦋 |
| <i>Salvia officinalis</i> 'Tricolor' | Tricolor Sage | ☀️💧💧 |
| <i>Santolina chamaecyparissus</i> 'virens' | Green Santolina | ☀️💧 |
| <i>Scabiosa columbaria</i> 'Butterfly Blue' | Butterfly Blue Pincushion Flower | ☀️☀️💧💧🦋 |
| <i>Sedum spectabilis</i> 'Autumn Joy' | Autumn Joy Sedum | ☀️☀️💧💧 |
| <i>Sedum x hybrid</i> 'Matrona' | Matrona Sedum | ☀️☀️💧💧 |
| <i>Tanacetum densum</i> 'amani' | Partridge Feather | ☀️💧 |
| <i>Veronica liwanensis</i> | Turkish Speedwell | ☀️☀️💧💧 |
| <i>Zauschneria garrettii</i> 'Orange Carpet' | Or. Carpet Fire Chalice | ☀️☀️💧💧🦋 |

Moderate Water-Use Zone

Plants generally need ¾" water added once a week.

Trees:

| | | |
|------------------------------|---------------------------|--------|
| <i>Acer ginnala</i> 'Bailey' | Bailey Compact Amur Maple | ☀️☀️💧💧 |
| <i>Malus</i> 'Braeburn' | Braeburn Apple | ☀️💧 |
| <i>Malus</i> 'Fuji' | Red Fuji Apple | ☀️💧 |

Shrubs:

| | | |
|---|-------------------------------|--------|
| <i>Cornus alba</i> , <i>Argenteo Marginata</i> (<i>Elegantissima</i>) | Variiegated Tartarian Dogwood | ☀️☀️💧 |
| <i>Daphne burkwoodii</i> 'Carol Mackie' | Carol Mackie Daphne | ☀️☀️💧 |
| <i>Juniperus squamata</i> 'Blue Star' | Blue Star Juniper | ☀️💧💧 |
| <i>Mabonia aquifolium</i> 'Compacta' | Compact Oregon Grape | ☀️☀️💧💧 |

Groundcovers:

| | | |
|--------------------------------|---------------------------|---------|
| <i>Arctostaphylos uva-ursi</i> | Bearberry or Kinnikinnick | ☀️☀️💧💧🏠 |
| <i>Mabonia repens</i> | Creeping Oregon Grape | ☀️☀️💧💧🏠 |

Vines:

| | | |
|---|--------------------------------|----------|
| <i>Akebia quinata</i> 'Shiro Bana' | Shiro Bana Akebia | ☀️☀️💧💧 |
| <i>Campsis radicans</i> 'Flamenco' | Scarlet Trumpet Vine | ☀️☀️💧💧🦋🦋 |
| <i>Campsis radicans</i> 'Flava' | Yellow Trumpet Vine | ☀️☀️💧💧🦋🦋 |
| <i>Campsis x tagliabuana</i> 'Madame Galen' | Trumpet Creeper | ☀️☀️💧💧🦋🦋 |
| <i>Clematis</i> 'Royalty' | Large Flowered Hybrid Clematis | ☀️☀️💧 |
| <i>Clematis alpina</i> 'Constance' | Clematis | ☀️☀️💧 |
| <i>Vitis</i> 'Interlaken' | Interlaken Grape | ☀️💧💧 |
| <i>Vitis labrusca</i> 'Suffolk' | Suffolk Grape | ☀️💧💧 |

Perennials:

| | | |
|---------------------------------------|-----------------------|--------|
| <i>Heuchera sanguinea</i> 'Splendins' | Splendins Coral Bells | ☀️☀️💧💧 |
|---------------------------------------|-----------------------|--------|

High Water-Use Zone

Plants generally need ½" water added three times a week.

Turf Grass:

| | | |
|----------------------|--------------------|-------|
| <i>Poa pratensis</i> | Kentucky Bluegrass | ☀️☀️💧 |
|----------------------|--------------------|-------|



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SEVEN PRINCIPLES OF WATER-WISE LANDSCAPING

- 1. PLANNING AND DESIGN:** The first step to a successful water-wise landscape is to have a plan. Important elements to consider include:
 - **SITE ANALYSIS** – Soils, Climate, Topography, Drainage, Existing Vegetation, Views, Utilities etc. . .
 - **LANDSCAPE GOALS & OBJECTIVES** - Outdoor Activities, Service Needs, Landscape Style
- 2. SOIL ANALYSIS:** Soils will vary from site to site. Find out if soils are primarily clay, silt, or sand. Determine soil water-holding capacity. Soil analysis may affect irrigation scheduling. Soils may be improved if needed with organic matter to enhance drainage and moisture retention.
- 3. APPROPRIATE PLANT SELECTION & HYDROZONING THE LANDSCAPE:** Use healthy, well-adapted plants and zone the landscape by grouping plants together according to their water requirements. It is important to place the right plant in the right place. Avoid planting a high water-use plant next to a low water-use plant. Many beautiful trees, shrubs, perennials, and groundcovers are available for use in a water-wise landscape.
- 4. PRACTICAL TURF AREAS:** Plant turf in areas of manageable sizes and shapes. Limit turf to areas where it provides a functional benefit. Select appropriate turf varieties for your site. Excess turf may be replaced with a variety of other low water-use plants.
- 5. EFFICIENT IRRIGATION:** Irrigate efficiently – not excessively. Use properly designed systems and apply the right amount of water at the right time. Irrigate turf areas separately from other plantings. Do not rely solely on an automatic irrigation timer. Water efficiently and only when needed.
- 6. MULCHING:** Use mulches in tree, shrub and perennial borders to conserve soil moisture. Mulch applied at the right depth will reduce weed growth and slow erosion. A gravel mulch works best in the very low and low water-use zones. Organic mulch such as bark will work well in moderate water-use zones.
- 7. APPROPRIATE MAINTENANCE:** Water-wise landscaping will reduce maintenance, not eliminate it. Low water-use landscapes are simply maintained differently than the average lawn. Maintain the landscape by pruning, fertilizing, watering, weeding, mowing, and deadheading properly.

