

## Appendix C. Albuquerque Bernalillo County Water Authority Xeriscape Plant List 2010

### Xeriscape Plant List

<http://www.abcwua.org/pdfs/xeriplantlist.pdf>

## PLANT LIST

# How to Use the Plant List

The Albuquerque Plant List includes hundreds of plants suited to central New Mexico, but many are adaptable elsewhere in the state. We strongly recommend that you consult additional references for more detailed information, and check your neighborhood's landscape covenants, before you design your landscape.

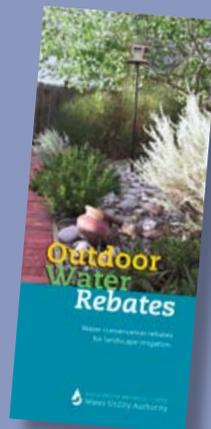
The City of Albuquerque has a pollen control ordinance that prohibits the planting of cypress, mulberry and elm trees. Juniper is limited to female plants only, and Populus varieties are prohibited (except for Rio Grande cottonwood, lanceleaf cottonwood and quaking aspen).

## Water Authority Xeriscape Rebates

Water Authority customers may qualify for rebates for the replacement of high-water-use landscaping with xeriscaping. A Water Authority inspector must approve your rebate application and your landscape plan ahead of time and the project itself after completion. Xeriscapes employing drip irrigation can qualify for a \$.75-per-square-foot rebate; rainwater harvesting xeriscapes can qualify for \$1.50 per square foot. Participants in the xeriscape rebate program can also earn a 25-percent rebate (up to \$100) for compost, and a 25-percent rebate (up to \$50) for rental of sod removal equipment.

The rebate area of your new xeriscape must have 50 percent coverage (at maturity) of qualifying low- to medium-water-use plants, and the soil between and beneath all plants must be covered with at least two inches of mulch (gravel, decorative bark, etc.).

Ready to get started on your xeriscape project? Rebate application forms and instructions are available online at [www.abcwua.org/waterconservation](http://www.abcwua.org/waterconservation) or call 768-3655.



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## LEGEND

### Region Description

**UA** is **URBAN ALBUQUERQUE**, the most heavily paved and therefore warmest area; soils vary greatly.

**WM&RR** is the **WEST MESA & RIO RANCHO**, also highly residential and nearly as consistently warm as UA; soils vary from sand to clay loam and may be shallow above underlying volcanic rock.

**CV** is the **CENTRAL VALLEY**, where the low-lying topography often results in colder winter temperatures; the soils are often clay loam which holds moisture well.

**AF** is the **ALBUQUERQUE FOOTHILLS**. Cooler than the urban center and west side, but not as cold as the valley or east side of the mountains, the soil here is decomposed granite, which is well-drained but holds moisture.

**EM** is the **EAST MOUNTAINS** and Estancia Valley. The coldest areas, they potentially receive the most rain and snow; the soils vary but unless mostly rock, hold moisture well.

### Rebate Allowance

This refers to the mature plant square footage, used for calculating Water Authority xeriscape rebates.

Scientific Name	Common Name	Approx. Size Height x Width	Deciduous or Evergreen	Light Exposure	Water Use	Rebate Allowance	Region
<b>DESERT ACCENTS</b>							
Agave americana	Century Plant	6' x 6'	Evergreen	Full Sun	RW	35	UA / WM&RR
Agave chrysantha	Golden-Flowered Agave	3' X 4'	Evergreen	Full Sun	RW	25	UA / WM&RR
Agave havardiana	Harvard Agave	4' X 4'	Evergreen	Full Sun	RW	25	All except EM
Agave lechuguilla	Lechuguilla	1' X 5'	Evergreen	Sun/Shade	RW	30	All except EM
Agave palmeri	Palmer's Agave	3' X 4'	Evergreen	Full Sun	RW	25	All areas
Agave Parryi/ neomexicana	Parry's / Mescal Agave	2' X 2'	Evergreen	Sun/Shade	RW	15	All areas
Agave parviflora	Dwarf Agave	6" X 8"	Evergreen	Sun	RW	10	All except EM
Agave scabra	Rough Agave	4' X 4'	Evergreen	Full Sun	RW	25	UA / WM&RR
Agave utahensis	Utah Agave	1' X 2'	Evergreen	Full Sun	RW	15	All areas
Agave victoria-reginae	Queen Victoria Agave	1' X 1'	Evergreen	Full Sun	RW	10	UA / WM&RR
Coryphantha vivipara	Clustering Pin Cushions	4" X 6"	Evergreen	Full Sun	RW	10	All areas
Cylindropuntia imbricata	Walkingstick Cholla	8" X 6'	Evergreen	Full Sun	RW	35	All areas
Cylindropuntia kleiniae	Candle Cholla	8" X 6'	Evergreen	Sun/Shade	RW	25	All areas
Cylindropuntia leptocaulis	Desert / Christmas / Pencil Cholla	4' X 6'	Evergreen	Full Sun	RW	25	All areas
Cylindropuntia spinosior	Cane Cholla	8" X 6'	Evergreen	Full Sun	RW	35	All areas
Dasyliiron leiophyllum	Green Sotol	5' X 5'	Evergreen	Full Sun	RW	20	All except EM
Dasyliiron texanum	Texas Sotol	5' X 5'	Evergreen	Sun/Shade	RW	20	All areas
Dasyliiron wheeleri	Blue Sotol / Desert Spoon	5' X 5'	Evergreen	Sun/Shade	RW	20	All except EM
Echinocereus coccineus	Spiny Hedgehog Cactus	10" X 15"	Evergreen	Full Sun	RW	10	All areas
Echinocereus fendleri	Strawberry Hedgehog	10" X 12"	Evergreen	Full Sun	RW	10	All areas
Echinocereus reichenbachii	Oklahoma or Lace Hedgehog	4" X 6"	Evergreen	Full Sun	RW	5	All areas
Echinocereus triglochidiatus	Claret Cup	12" + X 18"	Evergreen	Full Sun	RW	15	All areas
Echinocereus viridiflorus	Green-Flowered Hedgehog	5" X 5"	Evergreen	Full Sun	RW	5	All areas
Escobaria orcuttii	Clustering Snowball	5" X 8"	Evergreen	Full Sun	RW	10	All areas
Fouquieria splendens	Ocotillo	15' X 10'	Deciduous	Full Sun	RW	40	All except EM
Grusonia syn Cylindropuntia clavata	Club / Dagger-Spine Cholla	3" X 2'	Evergreen	Full Sun	RW	15	All areas
Hesperaloe capanulata	Bell-flowered Hesperaloe	4' X 5'	Evergreen	Sun	Low+	25	All except EM
Hesperaloe funifera	Giant / Coahuillean Hesperaloe	6' X 5'	Evergreen	Sun	Low+	25	All except EM
Hesperaloe parviflora	Red/Yellow-Flowering Yucca	3' X 4'	Evergreen	Sun/Shade	Low+	20	All areas
Nolina lindheimeriana	Dwarf Beargrass / Ribbongrass	3' X 3'	Evergreen	Sun	Low+	15	All except EM
Nolina microcarpa	Beargrass	5' X 6'	Evergreen	Sun/Shade	RW	35	All areas
Nolina nelsoni	Blue Nolina	15' X 6'	Evergreen	Sun	Low+	35	All except EM
Nolina texana	Beargrass	4' X 5'	Evergreen	Sun/Shade	RW	30	All areas
Opuntia ellisiana / cacanapa	Spineless Prickly Pear	4' X 5'	Evergreen	Full Sun	RW	30	UA / WM&RR
Opuntia engelmannii	Desert or Engelmann Prickly Pear	5' X 8'	Evergreen	Full Sun	RW	40	All areas
Opuntia macrocentra	Purple Prickly Pear	3' X 3'	Evergreen	Full Sun	RW	20	All areas
Opuntia violacea	Santa Rita Prickly Pear	3' X 4'	Evergreen	Full Sun	RW	25	UA / WM&RR
Opuntia phaeacantha	Brownsprine Prickly Pear	3' X 5'	Evergreen	Full Sun	RW	30	All areas
Opuntia hystricina	Porcupine Prickly Pear	1' X 3'	Evergreen	Full Sun	RW	20	All areas
Opuntia polycantha	Starvation Prickly Pear	1' X 3'	Evergreen	Full Sun	RW	20	All areas
Yucca aloifolia	Spanish Dagger	6' X 3'	Evergreen	Full Sun	Low+	25	UA / WM&RR
Yucca baccata	Datil / Banana Yucca	4' X 5'	Evergreen	Full Sun	RW	30	All areas
Yucca baileyi	Bailey Yucca	3' X 3'	Evergreen	Full Sun	RW	20	UA / WM&RR
Yucca brevifolia	Joshua Tree	15' X 15'	Evergreen	Full Sun	RW	45	UA / WM&RR
Yucca elata	Soaptree Yucca	20' X 5'	Evergreen	Full Sun	RW	35	All areas
Yucca faxoniana / carnerosana	Palm Yucca	15' X 6'	Evergreen	Full Sun	RW	40	All except EM
Yucca filamentosa	Adam's Needle Yucca	3' X 3'	Evergreen	Sun/Shade	Low+	15	All areas
Yucca glauca	Soapweed	3' X 3'	Evergreen	Full Sun	RW	20	All areas
Yucca harrimaniae	Harriman Yucca	1' X 2'	Evergreen	Full Sun	RW	15	All areas
Yucca neomexicana	New Mexico Yucca	2' X 4'	Evergreen	Full Sun	RW	25	All areas
Yucca pendula syn recurvifolia	Soft-Leaf Yucca	5' X 4'	Evergreen	Sun/Shade	Low+	20	All areas
Yucca rigida	Blue Yucca	4' X 4'	Evergreen	Full Sun	RW	25	All except EM
Yucca rostrata	Beaked Yucca	15' X 5'	Evergreen	Full Sun	RW	35	All except EM
Yucca schidigera	Mojave Yucca	5' X 2'	Evergreen	Full Sun	RW	20	All except EM
Yucca schottii	Mountain Yucca	5' X 2'	Evergreen	Sun/Shade	Low+	20	All areas
Yucca thomsoniana	Thompson Yucca	8' X 6'	Evergreen	Full Sun	RW	40	All areas
Yucca torreyi	Torrey Yucca	15' X 4'	Evergreen	Full Sun	RW	30	All except EM

FLOWERING BULBS

Allium sp.	Ornamental Onions	6"-36" X 12"-24"	Deciduous	Sun/Shade	Medium	10	All areas
Belamcanda chinensis	Blackberry Lily	2' X 2'	Deciduous	Sun/Shade	Medium+	5	All areas
Canna	Canna Lily	4' X 1'	Deciduous	Full Sun	High	0	All except EM
Colchicum autumnali	Autumn Crocus	6" X 6"	Deciduous	Full Sun	Medium	3	All areas
Crocus spp.	Crocus	6" X 6"	Deciduous	Sun/Shade	Medium	3	All areas
Hyacinthus orientalis	Hyacinth	1' X 1'	Deciduous	Full Sun	Medium	5	All areas
Iris (rhizome-type)	Bearded Iris	2' X 2'	Deciduous	Full Sun	Medium	10	All areas
Iris spp. (bulb-type)	Bulb Irises	2' X 2'	Deciduous	Full Sun	Medium+	5	All areas
Muscari armeniacum	Grape Hyacinths	10" X 10"	Winter Foliage	Sun/Shade	Low+	10	All areas
Lycoris squamigera	Pink Amaryllis	18" X 18"	Deciduous	Sun/Shade	Medium	10	All areas
Narcissus spp.	Daffodil	1' X 1'	Deciduous	Sun/Shade	Medium	5	All areas
Tulipa spp.	Tulips	1' X 8'	Deciduous	Sun/Shade	Medium	5	All areas
Zephyranthes sp.	Rain Lily	6" X 6"	Deciduous	Full Sun	Medium	3	All except EM

# PLANT LIST

Scientific Name	Common Name	Approx. Size Height x Width	Deciduous or Evergreen	Light Exposure	Water Use	Rebate Allowance	Region
<b>FLOWERING PLANTS</b>							
Abronia sp.	Sand Verbena	1' X 2'	Deciduous	Full Sun	RW	15	All areas
Acantholimon sp	Prickly Dianthus	1' X 2'	Evergreen	Full Sun	Low	15	All areas
Achillea ageratifolia	Greek Yarrow	6" X 1'	Evergreen	Sun/Shade	Low	10	All areas
Achillea taygetea	Moonshine Yarrow	2' X 2'	Evergreen	Sun/Shade	Medium	10	All areas
Aethionema sp	Persian Rockcress	6" X 1'	Evergreen	Full sun	Low	10	All areas
Agastache cana	Giant Hyssop	2' X 2'	Deciduous	Full Sun	Medium	10	All areas
Agastache rupestris	Sunset Hyssop	2' X 2'	Deciduous	Full Sun	Low+	15	All areas
Alcea rosea	Hollyhock	5' X 1'	Deciduous	Full Sun	Medium	5	All areas
Aloinopsis spathulata	Hardy Living Stones	1" X 6"	Evergreen	Full Sun	RW	5	All areas
Alyssum montanum	Basket of Gold	1' X 1'	Deciduous	Sun/Shade	Medium	5	All areas
Amsonia species	Sand Stars	2' X 2'	Deciduous	Full Sun	Low+	15	All areas
Anacyclus depressus	Mat Daisy	6" X 1'	Evergreen	Sun/Shade	Low+	10	All areas
Antennaria rosea	Pussytoes	6" X 1'	Evergreen	Sun/Shade	Low	10	All areas
Antirrhinum hispanicum ssp roseum	Spanish Snapdragon	1' X 1'	Deciduous	Full Sun	Medium	5	AF / EM
Anthemis tinctoria	Golden Marguerite	2' X 2'	Deciduous	Full Sun	Medium+	5	All areas
Aquilegia chrysantha	Golden Columbine	2' X 2'	Deciduous	Shade	Medium	10	All areas
Aquilegia sp	Columbine Species	1' + X 1'+	Deciduous	Shade	Medium	5	EM
Argemone sp	Prickly Poppy	3' X 2'	Deciduous	Full Sun	RW	15	All areas
Armeria maritima	Thrift	1' X 1'	Evergreen	Full Sun	Medium	5	All areas
Artemisia abrotanum	Southernwood	3' X 3'	Deciduous	Sun/Shade	Medium	12	All areas
Artemisia X Powis Castle	Powis Castle Artemisia	2' X 4'	Semi-Evergreen	Sun/Shade	Low+	20	All areas
Artemisia stellariana	Beach Wormwood	1' X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Artemisia versicolor	Seafoam Artemisia	8" X 18"	Evergreen	Sun/Shade	Low+	15	All areas
Asclepias tuberosa	Butterflyweed	2' X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Asparagus officinalis	Culinary Asparagus	4' X 3'	Deciduous	Full Sun	Medium	12	All areas
Aster novae-angliae	Aster	4' X 2'	Deciduous	Full Sun	High	0	All areas
Berlandiera lyrata	Chocolate Flower	1' X 2'	Deciduous	Full Sun	RW	15	All areas
Callirhoe involucrata	Winecups	1' X 2'	Deciduous	Full Sun	Low+	15	All areas
Calylophus species	Sundrops	1' X 2'	Deciduous	Full Sun	Low	15	All areas
Campanula carpatica	Carpathian Harebells	8" X 2'	Deciduous	Shade	High	0	CV / AF / EM
Campanula rotundifolia	Harebells	18" X 2'	Deciduous	Shade	High	0	CV / AF / EM
Castilleja spp.	Indian Paintbrush	1' X 2'	Deciduous	Sun/Shade	Low+	15	All areas
Centaurea cineraria	Dusty Miller	1' X 2'	Evergreen	Full Sun	Low+	15	All areas
Centaurea dealbata	Persian Cornflower	1' X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Centranthus ruber	Red Valerian	18" X 30"	Deciduous	Sun/Shade	Medium	12	All areas
Cerastium tomentosum	Snow-In-Summer	8" X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Chasmatophyllum masculinum	Hardy Tiger Jaws	2" X 6"	Evergreen	Full Sun	Low	5	All areas
Chrysanthemum maximum	Shasta Daisy	4' X 2'	Deciduous	Full Sun	High	0	CV / EM
Chrysanthemum x morifolium	Chrysanthemum	3' X 3'	Deciduous	Full Sun	High	0	All areas
Convolvulus cnoereum	Silver Bush Morning Glory	1' X 3'	Evergreen	Full Sun	Low+	15	All except EM
Consolida ambigua	Larkspur, Annual	2' X 1'	Deciduous	Full Sun	Medium	5	All areas
Coreopsis lanceolata	Coreopsis	3' X 2'	Deciduous	Full Sun	Medium	10	All areas
Coreopsis verticillata	Threadleaf Coreopsis	2' X 2'	Deciduous	Full Sun	Medium	10	All areas
Convallaria majalis	Lily of the Valley	4" X 6"	Deciduous	Shade	High	0	CV / EM
Cynara species	Cardoon & Artichoke	4' X 4'	Deciduous	Full Sun	Medium+	15	All except EM
Dalea purpurea	Purple Prairieclover	2' X 2'	Deciduous	Full Sun	Low+	15	All areas
Datura wrightii	Sacred Datura	2' X 6'	Deciduous	Full Sun	Low	30	All areas
Delosperma congestum & nubigenum	Yellow Iceplant	3" X 2'	Evergreen	Sun/Shade	Low+	15	All areas
Delosperma cooperi	Purple Iceplant	6" X 18"	Evergreen	Full sun	Low+	15	All areas
Delosperma floribundum	Tufted Iceplant	6" X 12"	Evergreen	Full Sun	Low+	10	All areas
Delosperma sphalmanthoides	Dwarf Tufted Iceplant	1" X 8"	Evergreen	Full Sun	Low	10	All areas
Dianthus barbatus	Sweet William, Biennial	20" X 20"	Deciduous	Sun/Shade	Medium	5	All areas
Dianthus deltoides	Maiden Pink	6" X 8"	Deciduous	Sun/Shade	Medium	5	All areas
Dianthus gratianopolitanus	Cheddar Pink	1' X 2'	Evergreen	Sun/Shade	Medium	10	All areas
Dicentra spectabilis	Bleeding Heart	2' X 2'	Deciduous	Shade/sun	High	0	CV / EM
Dictamnus spp.	Gas Plant	4' X 4'	Deciduous	Sun/Shade	Medium	20	All areas
Dimorphotheca sinuata	African Daisy, Annual	1' X 1'	Deciduous	Full Sun	Medium	5	All areas
Duchesnea indica	Mock Strawberry	8" X 2'	Deciduous	Shade	Medium+	5	CV / EM
Echinacea purpurea	Purple Coneflower	3' X 2'	Deciduous	Sun/Shade	Medium	10	UA / CV / AF / EM
Echinops species	Globe Thistle	4' X 4'	Deciduous	Full Sun	Medium	20	All areas
Epilobium syn Zauschneria sp	Hummingbird Plant	2' X 3'	Deciduous	Full Sun	Low+	15	All areas
Erigeron spp.	Fleabane Daisy	1' X 1'	Deciduous	Full Sun	Medium	3	All areas
Eriogonum herbaceous species	Wild Buckwheat	1' X 18"	Evergreen	Full Sun	RW	15	All areas
Erysimum hieraciifolium	Siberian Wallflower	18" X 18"	Deciduous	Full Sun	Medium	5	All areas
Erysimum linifolium	Wallflower Bowles' Mauve	2' X 2'	Evergreen	Full Sun	Medium	10	All areas
Euphorbia antisiphilitica	Candelilla	2' X 3'	Evergreen	Full Sun	RW	20	UA / WM&RR
Euphorbia myrsinites	Blue Spurge	1' X 2'	Evergreen	Sun/Shade	Low	8	All areas
Euphorbia rigida	Gopher Plant	2' X 3'	Evergreen	Sun/Shade	Low	20	All except EM
Gaillardia x grandiflora	Gaillardia	2' X 2'	Deciduous	Full Sun	Medium	6	All areas
Gaura lindheimeri	Gaura	3' X 3'	Deciduous	Full Sun	Medium	15	All areas
Geum ciliatum	Prairie Smoke	18" X 1'	Evergreen	Full Sun	High	0	CV / EM
Geranium macrorrhizium	Bigroot Geranium	4" X 18"	Deciduous	Shade	Medium+	0	All areas
Glaucium flavum	Horned Poppy	2' X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Gypsophila paniculata	Baby's Breath	3' X 3'	Deciduous	Sun/Shade	Medium	12	All areas
Gypsophila repens	Creeping Baby's Breath	4" X 1'	Deciduous	Sun/Shade	Medium	5	All areas
Helianthemum spp.	Sunrose	6" X 2'	Evergreen	Full Sun	Medium	10	All areas
Helianthus annuus	Sunflower	varies	Deciduous	Full Sun	Medium	5	All areas

Scientific Name	Common Name	Approx. Size Height x Width	Deciduous or Evergreen	Light Exposure	Water Use	Rebate Allowance	Region
Helianthus maximilianii	Maximilian Sunflower	6' X 8'	Deciduous	Full Sun	Medium	25	All areas
Helianthus tuberosus	Jerusalem Artichoke	6' X 6'	Deciduous	Full Sun	Medium+	20	All areas
Hemerocallis hybrids	Daylilies	2' X 3'	Deciduous	Full Sun	High	0	UA / CV / AF / EM
Heterotheca syn Chrysopsis villosa	Golden Aster	18" X 2'	Deciduous	Full Sun	RW	15	All areas
Heuchera sanguinea	Coral Bells	2' X 2'	Deciduous	Sun/Shade	Medium	5	CV / AF / EM
Hosta spp.	Plantain Lily	2' X 2'	Deciduous	Shade	Medium+	5	UA / CV / AF / EM
Hypericum calycinum	St. Johnswort	1' X 1'	Evergreen	Shade	Medium	5	UA / CV / AF / EM
Iberis sempervirens	Candytuft	1' X 18"	Evergreen	Shade	Medium	5	All areas
Ipomoea leptophylla	Bush Morning Glory	2' X 3'	Deciduous	Full Sun	RW	20	All areas
Kniphofia uvaria	Red Hot Poker	3' X 2'	Deciduous	Full Sun	Low+	15	All areas
Lamium maculatum	Spotted Nettle	6" X 6"	Deciduous	Shade	High	0	All areas
Liatris punctata	Gayfeather	2' X 3'	Deciduous	Full Sun	Low+	15	All areas
Liatris scariosa	Tall Gayfeather	3' X 3'	Deciduous	Full Sun	Medium	10	All areas
Linaria spp.	Butter and Eggs/Baby Snapdragon	18" X 18"	Deciduous	Full Sun	Medium	10	CV / EM
Linum perenne	Blue Flax	18" X 18"	Deciduous	Sun/Shade	Medium	10	All areas
Lobelia cardinalis	Cardinal Flower	3' X 3'	Deciduous	Shade	High	0	UA / CV / EM
Lobelia laxiflora	Mexican Lobelia	2' X 3'	Deciduous	Sun/Shade	Medium	12	All except EM
Lupinus argenteus	Silverstem Lupine	2' X 2'	Deciduous	Full Sun	Low	15	All areas
Lupinus hybrids	Lupine	3' X 3'	Deciduous	Full Sun	High	0	All areas
Lupinus texensis	Texas Bluebonnet, Annual	1' X 1'	Deciduous	Full Sun	High	0	All areas
Lychnis sp	Rose Campion, Maltese Cross	18" X 18"	Deciduous	Sun/Shade	Medium	5	All areas
Manfreda maculosa	Texas Tuberose	3' X 2'	Deciduous	Sun/Shade	Low+	15	All areas
Melampodium leucanthum	Blackfoot Daisy	1' X 16"	Deciduous	Full Sun	RW	15	All areas
Mirabilis jalapa	Garden Four O'Clock	4' X 4"	Deciduous	Full Sun	Medium	20	All areas
Monarda spp.	Beebalm / Lemon Mint	varies	Deciduous	Full Sun	High	0	All areas
Nepeta X faasseni	Catmint	8" X 2'	Deciduous	Sun/Shade	Low+	15	All areas
Nierembergia hippomanica 'Violacea'	Cup Flower	10' X 1'	Deciduous	Full Sun	Medium	5	All except EM
Oenothera berlandieri	Mexican Evening Primrose	1' X 3'	Semi-Evergreen	Sun/Shade	Low+	15	All areas
Oenothera caespitosa	White Evening Primrose	1' X 2'	Evergreen	Full Sun	RW	15	All areas
Oenothera hookeri	Hooker Primrose, Biennial	2' X 3'	Deciduous	Full Sun	Medium	12	All areas
Oenothera macrocarpa syn missouriensis	Yellow Evening Primrose	1' X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Oenothera organensis	Organ Mountain Evening Primrose	2' X 5'+	Deciduous	Sun/Shade	Medium	20	All areas
Oenothera pallida	Pale Evening Primrose	18" X 18"	Evergreen	Full Sun	Low+	15	All areas
Origanum sp	Ornamental Oregano	1' X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Osteospermum barberiae	Hardy African Daisy	4" X 1'	Deciduous	Full Sun	Medium	5	All areas
Paeonia sp	Peony	2' X 3'	Deciduous	Sun/Shade	Medium+	10	All areas
Papaver nudicaule	Iceland Poppy	18" X 18"	Deciduous	Sun/Shade	High	0	All areas
Papaver orientale	Oriental Poppy	18" X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Penstemon ambiguus	Bush Penstemon	2' X 3'	Evergreen	Full Sun	RW	20	All areas
Penstemon angustifolius	Narrowleaf Penstemon	1' X 1'	Deciduous	Full Sun	RW	10	All areas
Penstemon barbatus	Scarlet Bugler Penstemon	3' X 1'	Deciduous	Sun/Shade	Medium	5	All areas
Penstemon cardinalis	Cardinal Penstemon	3' X 2'	Evergreen	Full Sun	Low+	15	All areas
Penstemon clutei	Sunset Penstemon	2' X 2'	Evergreen	Full Sun	Low	15	All areas
Penstemon jamesii	Penstemon, James	10" X 10"	Evergreen	Full Sun	Low+	10	All areas
Penstemon palmeri	Palmer Penstemon	4' X 2'	Evergreen	Full Sun	RW	15	All areas
Penstemon pinifolius	Pineleaf Penstemon	1" X 20"	Evergreen	Full Sun	Low+	15	All areas
Penstemon pseudospectabilis	Desert Beardtongue	3' X 3'	Evergreen	Sun/Shade	Low	20	All areas
Penstemon secundifloris	Sidebells	1' X 8"	Deciduous	Full Sun	Low	10	All areas
Penstemon strictus	Rocky Mountain Penstemon	2' X 2'	Evergreen	Sun/Shade	Low+	15	All areas
Perovskia atriplicifolia	Russian Sage	5' X 5'	Deciduous	Full Sun	Medium	20	All areas
Phemeranthus syn Talinum calycinum	Flameflower	8" X 8"	Deciduous	Sun/Shade	Low	10	All areas
Phlomis sp	Jerusalem Sage, Kashmir Sage	2' X 3'	Deciduous	Full Sun	Medium	12	All areas
Phlox paniculata	Summer Phlox	3' X 3'	Deciduous	Full Sun	High	0	All areas
Phlox subulata	Creeping Phlox	6" X 1'	Deciduous	Full Sun	Medium	3	All areas
Phyla nodiflora	Creeping Lippia	3" X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Physalis lobata	Purple Groundcherry	4" X 2'	Deciduous	Full Sun	Low+	15	All areas
Platycodon sp	Balloon Flower	2' X 18"	Deciduous	Sun/Shade	Medium	5	All areas
Potentilla neumanniana syn tabernaemontani syn verna	Spring Cinquefoil	4" X 6"	Deciduous	Shade	Medium+	0	UA / CV / AF / EM
Psilostrophe tagetina	Paperflower	16" X 16"	Deciduous	Full Sun	RW	15	All areas
Ranunculus repens	Creeping Buttercup	1' X 1'	Deciduous	Sun/Shade	High	0	All areas
Ratibida columnifera	Coneflower, Mexican Hat	32" X 32"	Deciduous	Full Sun	Low+	15	All areas
Rheum sp	Rhubarb	2' X 3'	Deciduous	Shade	High	0	UA / CV / EM
Rudbeckia fulgida	Goldsturm Rudbeckia	2' X 2'	Deciduous	Full Sun	High	0	UA / CV / AF / EM
Ruellia humilis	Wild Petunia	6" X 1'	Deciduous	Sun/Shade	Medium	5	All areas
Ruta graveolens	Rue	2' X 2'	Evergreen	Full Sun	Medium	10	All areas
Salvia azurea grandiflora	Pitcher Sage	3' X 3'	Deciduous	Sun/Shade	Medium	12	All areas
Salvia darcyi	Texas Red Sage	30" X 2'	Deciduous	Full Sun	Low+	15	All except EM
Salvia nemerosa X sylvestris	Many named varieties	18" X 18"	Deciduous	Sun/Shade	Medium	5	All areas
Saponaria ocymoides	Soapwort	9" X 18"	Deciduous	Sun/Shade	Medium	5	All areas
Scabiosa columbaria	Pincushion Flower	18" X 18"	Deciduous	Sun	Medium	10	All areas
Scutellaria resinosa & wrightii	Plains Skullcap	1' X 1'	Deciduous	Sun/Shade	Low+	10	All areas
Sedum spectabile	Stoncrop	2' X 2'	Evergreen	Sun/Shade	Low+	15	All areas
Sedum telephium	Autumn Joy Sedum	2' X 2'	Evergreen	Sun/Shade	Low+	15	All areas
Sempervivum tectorum	Hen and Chicks	6" X 6"	Evergreen	Shade	Low+	5	All areas
Senecio flaccidus syn longilobus	Silver Groundsel	2' X 2'	Deciduous	Full Sun	RW	15	All areas
Solidago dwarf sp	Dwarf Goldenrod	18" X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Solidago hybrids	Goldenrod	3' X 3'	Deciduous	Sun/Shade	Medium+	10	All areas

# PLANT LIST

Scientific Name	Common Name	Approx. Size Height x Width	Deciduous or Evergreen	Light Exposure	Water Use	Rebate Allowance	Region
Sphaeralcea spp.	Globemallow	2' X 2'	Deciduous	Full Sun	RW	15	All areas
Stachys byzantina	Woolly Lamb's Ear	1' X 18"	Deciduous	Sun/Shade	Medium	10	All areas
Stachys coccinea	Scarlet Nettle	1' X 2'	Deciduous	Sun/Shade	Medium+	5	All areas
Stanleya pinnata	Prince's Plume	3' X 2'	Deciduous	Full Sun	Low	15	All areas
Tagetes erecta	African Marigold, Annual	3' X 3'	Deciduous	Full Sun	High	0	All areas
Tagetes lucida	Mexican Marigold	18" X 18"	Deciduous	Full Sun	Medium	10	All except EM
Tagetes patula	French Marigold, Annual	18" X 18"	Deciduous	Full Sun	High	0	All areas
Tanacetum densum-amani	Partridge Feather	8" X 18"	Evergreen	Sun/Shade	Low+	15	All areas
Tanacetum vulgare	Tansy	3' X 3'	Evergreen	Sun/Shade	Medium	12	All areas
Tetranneuris syn Hymenoxys sp	Angelita Daisy/Perky Sue	1' X 1'	Deciduous	Full Sun	Low	10	All areas
Teucrium chamaedrys	Wall Germander	1' X 2'	Evergreen	Sun/Shade	Medium	10	All areas
Teucrium chamaedrys 'Prostratum'	Creeping Germander	6" X 2'	Evergreen	Sun/Shade	Medium	10	All areas
Teucrium majoricum syn cosonii syn aroanium	Greek Germander	6" X 18"	Evergreen	Full Sun	Medium	10	All areas
Thelesperma ambigua	Rayed or Threadleaf Cota	2' X 2'	Deciduous	Full Sun	Low+	15	All areas
Thymophila syn Dyssoxia acerosa	Wild Marigold	1' X 1'	Deciduous	Full Sun	RW	10	All areas
Thymus pseudolanuginosus and minus	Woolly and Dwarf Creeping Thyme	3" X 1'	Evergreen	Shade	Medium	5	All areas
Thymus serpyllum	Creeping Thyme	3" X 1'	Evergreen	Shade	High	0	UA / CV / AF / EM
Thymus vulgaris	Culinary Thyme	1' X 1'	Evergreen	Full Sun	Low+	10	All areas
Tradescantia occidentalis	Western Spiderwort	2' X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Verbena spp.	Verbena	varies	Deciduous	Full Sun	Low+	10	All areas
Verbena bipinnatifida	Fern Verbena	1' X 1'	Deciduous	Full Sun	Low	10	All areas
Verbena rigida	Sandpaper Verbena	1' X 3'	Deciduous	Full Sun	Low	20	All except EM
Verbena wrightii	Western Vervain	2' X 2'	Deciduous	Full Sun	RW	15	All areas
Verbena x hybrida	Garden Verbena, Mostly Annuals	1' X 1'	Deciduous	Full Sun	Medium	5	All areas
Veronica incana	Silver Speedwell	18" X 18"	Evergreen	Sun/Shade	Medium	10	All areas
Veronica liwanensis	Turkish Speedwell	3" X 2'	Evergreen	Shade	Medium	10	All areas
Veronica pectinata	Woolly Speedwell	3" X 18"	Evergreen	Shade	Medium	10	All areas
Veronica spicata	Veronica	3' X 3'	Deciduous	Shade	High	0	All areas
Viola cornuta	Tufted Violet/Johnny Jump Up	1' X 1'	Evergreen	Shade	High	0	All areas
Viola corsica	Corsican Violet	4" X 6"	Deciduous	Shade	Medium	3	All areas
Viola odorata	Sweet Violet	8" X 8"	Evergreen	Shade	High	0	All areas
Viola x wittrockiana	Pansy, Annual	9" X 9"	Evergreen	Sun/Shade	High	0	All areas
Wyethia scabra	Desert Mule's Ear	2' X 3'	Deciduous	Full Sun	RW	20	All areas
Zinnia acerosa	White Desert Zinnia	6" X 10"	Deciduous	Full Sun	RW	10	All areas
Zinnia grandiflora	Desert Zinnia	8" X 16"	Deciduous	Full Sun	RW	15	All areas

## GRASSES, TURF *Turf grasses are sprinkler-irrigated and do not qualify for any rebate.*

Agrostis spp.	Bentgrass	Mowed	Evergreen	Full Sun	High	0	Golf Courses
Bouteloua gracilis	Blue Grama	Varies	Deciduous	Full Sun	Low+	0	All areas
Bouteloua syn. Buchloe dactyloides	Buffalo Grass	Mowed	Deciduous	Full Sun	Medium	0	All areas
Cynodon dactylon hybrids	Hybrid Bermudagrass	Mowed	Deciduous	Full Sun	Medium	0	All except EM
Festuca elatior and all Festuca	Turf Tall Fescue	Mowed	Evergreen	Sun/Shade	High	0	All areas
Festuca ovina 'Covar'	Covar Sheep Fescue	Unmowed	Evergreen	Sun/Shade	Medium	0	EM
Festuca ovina except Glauca	Sheep's Fescue	Mowed	Evergreen	Sun/Shade	High	0	All areas
Lolium perenne and all Lolium	Ryegrass, Perennial	Mowed	Evergreen	Sun/Shade	High	0	All areas
Poa pratensis and all Poa	Kentucky Bluegrass	Mowed	Evergreen	Sun/Shade	High	0	All areas
Zoysia spp.	Zoysia Grass	Mowed	Deciduous	Full Sun	Medium	0	All except EM

## GRASSES, ORNAMENTAL

Achnatherum syn Oryzopsis hymenoides	Indian Ricegrass	18" X 18"	Deciduous	Full Sun	RW	10	All areas
Andropogon gerardii	Big Bluestem	5' X 1'	Deciduous	Full Sun	Medium	5	All areas
Andropogon hallii	Sand Bluestem	4' X 2'	Deciduous	Full Sun	Low+	15	All areas
Aristida purpurea	Purple Threeawn	1' X 1'	Deciduous	Full Sun	RW	10	All areas
Arundo donax	Carrizo Cane	20' X 20'	Deciduous	Full Sun	Medium+	25	CV
Blepharoneuron tricolespis	Pine Dropseed/Mountain Mist	18" X 1'	Deciduous	Sun/Shade	Low+	10	All areas
Bothriochloa barbinodis	Cane Beardgrass	24" X 18"	Deciduous	Full Sun	RW	15	All areas
Bouteloua curtipendula	Sideoats Gramma	30" X 2'	Deciduous	Full Sun	Low+	15	All areas
Calamagrostis arundinacea 'Karl Foester'	Feather Reed Grass	30" X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Cortaderia selloana	Pampas Grass	12' X 9'	Deciduous	Full Sun	High	0	All areas
Eragrostis trichodes	Sand Lovegrass	3' X 3'	Deciduous	Full Sun	Low+	15	All areas
Erianthus ravennae	Ravenna Grass	12' X 9'	Deciduous	Full Sun	Medium+	25	All areas
Festuca idahoensis 'Joseph' & 'Siskiyou'	Blue Idaho Fescue	2' X 1'	Evergreen	Sun/Shade	Medium	5	All areas
Festuca ovina glauca	Blue Fescue	1' X 1'	Evergreen	Sun/Shade	Medium	5	All areas
Helictotrichon sempervirens	Blue Avena Grass	2' X 2'	Evergreen	Sun/Shade	Medium	10	All except WM&RR
Koeleria macrantha	Junegrass	18" X 18"	Evergreen	Sun/Shade	Low+	18	All areas
Leymus cinereus	Great Basin Wildrye	4' X 3'	Deciduous	Sun/Shade	Low+	15	All areas
Miscanthus spp.	Maiden Grass	5' X 5'	Deciduous	Sun/Shade	Medium+	15	CV
Muhlenbergia capillaris	Gulf Muhly	3' X 3'	Deciduous	Full Sun	Medium	12	All except EM
Muhlenbergia emersleyi	Bull Muhly	3' X 3'	Deciduous	Full Sun	Low+	15	All except EM
Muhlenbergia lindheimeri	Lindheimer Muhly	5' X 5'	Deciduous	Full Sun	Low+	25	All areas
Muhlenbergia porteri	Bush Muhly	1' X 2'	Deciduous	Full Sun	RW	15	All areas
Muhlenbergia rigens	Deer Grass	4' X 4'	Deciduous	Full Sun	Low+	20	All areas

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Muhlenbergia rigida	Purple Muhly	2' X 3'	Deciduous	Full Sun	Low+	15	All areas
Nassella syn. Stipa tenuissima	Threadgrass	2' X 2'	Deciduous	Full Sun	Low+	15	All areas
Ophiopogon japonicus	Mondo grass	6" X 6"	Evergreen	Sun/Shade	Medium+	0	CV / AF
Panicum virgatum	Switchgrass	4' X 3'	Deciduous	Sun/Shade	Medium	15	All areas
Pascopyrum syn. Agropyron smithii	Western Wheatgrass	2' X 2'	Deciduous	Sun/Shade	Medium	10	All areas
Pennisetum alopecuroides	Hardy Fountain Grass	30" X 30"	Deciduous	Full Sun	Medium	12	All areas
Phyllostachys aurea	Golden bamboo	15" X 15"	Evergreen	Sun/Shade	Medium+	25	CV
Pleuraphis syn. Hilaria jamesii	Galleta	14" X 14"	Deciduous	Full Sun	Low	10	All areas
Schizachyrium scoparium	Little Bluestem	2' X 2'	Deciduous	Full Sun	Low+	15	All areas
Sorghastrum nutans	Indiangrass	4' X 2'	Deciduous	Full Sun	Medium	15	All areas
Sporobolus airoides	Alkali Sacaton	2' X 2'	Deciduous	Full Sun	Low	15	All areas
Sporobolus cryptandrus	Sand Dropseed	2' X 2'	Deciduous	Full Sun	RW	15	All areas
Sporobolus wrightii	Giant Sacaton	5' X 5'	Deciduous	Full Sun	Medium	20	All areas
Thinopyrum ponticum syn. Elytrigia elongata	Jose' Tall Wheatgrass	4' X 2'	Deciduous	Full Sun	Medium	10	All areas

GROUNDCOVERS

Aegopodium variegatum	Variiegated Bishop's Weed	1' X 2'	Deciduous	Shade	Medium+	5	All areas
Achillea Millefolium	Yarrow	2' X 2'	Evergreen	Sun/Shade	Medium	10	All areas
Anemopsis californica	Yerba de Mansa	1' X 3'+	Deciduous	Sun/Shade	Medium	15	All areas
Arctostaphylos uva-ursi	Kinnikinnick	9" X 2"	Evergreen	Shade only	Medium	10	UA / AF / EM
Artemisia frigida	Fringed Sage	18" X 18"	Deciduous	Full Sun	Low	15	All areas
Artemisia ludoviciana	Prairie Sage	18" X 3'	Evergreen	Full Sun	Low+	15	All areas
Baccharis pilularis	Dwarf Coyotebush	18" X 3'	Evergreen	Sun/Shade	Low+	15	All except EM
Baccharis X 'Centennial'	Centennial Broom	3' X 5'	Evergreen	Full Sun	Low+	25	All except EM
Baccharis X 'Starns'	Thompson Broom	2' X 5'	Evergreen	Full Sun	Low+	25	All except EM
Cerastium tomentosum	Snow-In-Summer	8" X 2"	Deciduous	Sun/Shade	Medium	10	All areas
Ceratostigma plumbaginoides	Dwarf Plumbago	1' X 2'	Deciduous	Shade	Medium	10	All areas
Chamaemelum nobilis	Chamomile	6" X 1'	Evergreen	Shade	High	0	CV / EM
Cotoneaster dammeri	Bearberry Cotoneaster	1' X 9'	Evergreen	Sun/Shade	Medium	30	All areas
Cotoneaster horizontalis 'Perpusillus'	Rock Cotoneaster	2' X 7"	Evergreen	Sun/Shade	Medium	25	All areas
Cotoneaster salicifolius 'Repens'	Willowleaf Cotoneaster	1' X 9'	Evergreen	Full Sun	Medium	30	All except EM
Delosperma congestum & nubigenum	Yellow Iceplant	3" X 2"	Evergreen	Sun/Shade	Low+	15	All areas
Delosperma cooperi	Purple Iceplant	6" X 18"	Evergreen	Full sun	Low+	15	All areas
Dichondra spp.	Dichondra	2" X 1'	Deciduous	Sun/Shade	High	0	All except EM
Duchesnea indica	Mock Strawberry	8" X 2"	Deciduous	Shade	Medium+	5	CV / EM
Ephedra minuta	Dwarf Joint Fir	1' X 1'	Evergreen	Sun/Shade	Medium	5	All areas
Erigeron flagillaris	Whiplash Daisy	8" X 3'	Evergreen	Sun/Shade	Low+	15	All areas
Euonymus fortunei 'Coloratus'	Purpleleaf Wintercreeper	1' X 4'	Evergreen	Sun/Shade	Medium+	15	All areas
Euphorbia cyparissias	Cypress Spurge	1' X 1'	Evergreen	Sun/Shade	Medium	5	All areas
Jasminum nudiflorum	Winter Jasmine	2' X 8'+	Deciduous	Sun/Shade	Low+	30	All areas
Juniperus sp	Groundcover Juniper, Female Forms Only	6"-2' X 5'+	Evergreen	Sun/Shade	Low+	25	All areas
Mahonia aquifolium 'Compacta'	Compact Mahonia	2' X 4'	Evergreen	Sun/Shade	Medium	20	All areas
Mahonia repens	Creeping Mahonia	1' X 2'	Evergreen	Shade	Medium	10	AF / EM
Marrubium rotundifolium	Roundleaf Horehound	10" X 24"	Evergreen	Sun/Shade	Low+	15	All areas
Mirabilis multiflora	Native Four O'Clock	2' X 5'	Deciduous	Full Sun	Low+	25	All areas
Paxistima myrsinites	Oregon Boxwood	2' X 3'	Evergreen	Sun/Shade	High	0	EM
Prunus besseyi 'Pawnee Buttes'	Spreading Sand Cherry	2' X 6'	Deciduous	Full Sun	Medium	25	All areas
Rhus trilobata 'Autumn Amber'	Prostrate Sumac	2' X 6'+	Deciduous	Full Sun	Low+	35	All areas
Rosmarinus officinalis 'Prostrata'	Creeping Rosemary	2' X 6'	Evergreen	Full Sun	Low+	30	All except EM
Santolina chamaecyparissus	Gray Lavender Cotton	2' X 3'	Evergreen	Full Sun	Low+	15	All areas
Santolina virens	Green Lavender Cotton	2' X 3'	Evergreen	Full Sun	Low+	15	All areas
Saponaria ocyroides	Soapwort	9" X 18"	Deciduous	Sun/Shade	Medium	10	All areas
Sedum reflexum	Blue Spruce Sedum	1' X 2'	Evergreen	Sun/Shade	Low+	15	All areas
Sedum spurium	Dragon's Blood Sedum	6" X 1'	Evergreen	Sun/Shade	Medium	5	UA / CV / AF / EM
Teucrium chamaedrys	Trailing Germander	1' X 2'	Evergreen	Sun/Shade	Medium	10	All areas
Teucrium cossonii majoricum	Greek Germander	6" X 18"	Evergreen	Sun/Shade	Medium	10	All areas
Thymus pseudolanuginosus and minus	Wooly and Dwarf Creeping Thyme	3" X 1'	Evergreen	Shade	Medium	5	All areas
Thymus serpyllum	Creeping Thyme	3" X 1'	Evergreen	Shade	High	0	UA / CV / AF / EM
Verbena peruviana	Verbena	9" X 18"	Deciduous	Full Sun	Low+	12	All except EM
Veronica prostrata	Harebell Veronica	8" X 1'	Deciduous	Sun/Shade	Medium	5	EM
Vinca major	Giant Periwinkle	1' X 4'	Evergreen	Shade	Medium+	10	All areas
Vinca minor	Periwinkle	9" X 2"	Evergreen	Shade	Medium+	5	All areas
Zinnia grandiflora	Desert or Prairie Zinnia	8" X 16"	Deciduous	Full Sun	RW	15	All areas

SHRUBS, DECIDUOUS

Acacia constricta	Whitethorn Acacia	10' X 10'	Deciduous	Full Sun	RW	40	All except EM
Acacia greggii	Catclaw Acacia	10' X 12'	Deciduous	Full Sun	RW	40	All except EM
Aloysia wrightii	Mexican Oregano or Beebrush	5' X 4'	Deciduous	Full Sun	RW	25	All areas
Amelanchier utahensis	Utah Serviceberry	8' X 8'	Deciduous	Full Sun	Low+	35	All areas
Amorpha cana	Dwarf Leadplant	2' X 3'	Deciduous	Full Sun	Medium	12	CV / AF / EM
Amorpha canescens	Leadplant	2' X 3'	Deciduous	Full Sun	Low+	15	All areas
Amorpha fruticosa	False Indigo	10' X 10'	Deciduous	Sun/Shade	Medium	30	All areas
Anisacanthus quadrifidus var wrightii	Flame Anisacanthus	4' X 4'	Deciduous	Sun/Shade	Low+	20	All except EM
Anisacanthus thurberi	Desert Honeysuckle	5' X 4'	Deciduous	Sun/Shade	Low+	20	UA / WM&RR
Berberis thunbergii	Japanese Barberry	4' X 4'	Deciduous	Sun/Shade	Medium+	15	UA / CV / EM

# PLANT LIST

Scientific Name	Common Name	Approx. Size Height x Width	Deciduous or Evergreen	Light Exposure	Water Use	Rebate Allowance	Region
Berberis thunbergii 'Atropur. Nana'	Crimson Pigmy Barberry	2' X 2'	Deciduous	Full Sun	Medium+	5	All areas
Berberis thunbergii Atropurpurea	Redleaf Barberry	4' X 4'	Deciduous	Full Sun	Medium+	15	All areas
Buddleia davidii nanhoensis	Dwarf Butterfly Bush	5' X 5'	Deciduous	Sun/Shade	Medium	20	All areas
Buddleia marrubifolia	Wooly Butterfly Bush	4' X 4'	Deciduous	Full Sun	Low+	20	All except EM
Caesalpinia gilliesii	Yellow Bird of Paradise	10' X 10'	Deciduous	Full Sun	RW	40	All except EM
Caragana spp.	Peashrub	8' X 8'	Deciduous	Full Sun	Medium	25	CV / EM
Caryopteris x clandonensis	Blue Mist Spirea	3' X 3'	Deciduous	Full Sun	Low+	15	All areas
Cercocarpus montanus	Montane Mountain Mahogany	10' X 8'	Deciduous	Full Sun	Low+	35	All areas
Chaenomeles japonica	Flowering Quince	6' X 6'	Deciduous	Full Sun	Medium+	20	CV / EM
Chamaebatiaria millefolium	Fernbush	5' X 6'	Deciduous	Full Sun	Low+	30	All areas
Cornus alba	Tartarian Dogwood	10' X 10'	Deciduous	Sun/Shade	High	0	CV / EM
Cornus stolonifera	Redtwig Dogwood	7' X 7'	Deciduous	Sun/Shade	High	0	CV / EM
Cotoneaster apiculatus	Cranberry Cotoneaster	4' X 8'	Deciduous	Sun/Shade	Medium	25	All areas
Cotoneaster divaricatus	Spreading Cotoneaster	4' X 8'	Deciduous	Sun/Shade	Medium	25	All areas
Cotoneaster horizontalis	Rock Cotoneaster	2' X 9'	Deciduous	Full Sun	Medium	30	All areas
Dalea formosa	Feather Dalea	2' X 3'	Deciduous	Full Sun	RW	20	All areas
Dalea frutescens	Black Dalea	2' X 4'	Deciduous	Full Sun	Low	25	All areas
Dalea versicolor	Mountain Dalea	3' X 5'	Deciduous	Full Sun	Low+	25	UA / WM&RR
Ericameria syn Chrysothamnus nauseosus	Chamisa, Rabbitbrush	5' X 5'	Deciduous	Full Sun	RW	30	All areas
Euonymus alata Compacta	Dwarf Burning Bush	6' X 6'	Deciduous	Sun/Shade	High	0	UA / CV / EM
Fendlera rupicola	Cliff Fendlerbush	6' X 4'	Deciduous	Full Sun	Low+	20	All areas
Forsythia intermedia	Forsythia	10' X 10'	Deciduous	Full Sun	Medium+	25	CV / EM
Genista tinctoria	Summer Broom	2' X 4'	Deciduous	Full Sun	Medium	15	All areas
Hibiscus syriacus	Rose of Sharon	10' X 10'	Deciduous	Full Sun	Medium	30	All areas
Hippophae rhamnoides	Sea Buckthorn	30' X 30'	Deciduous	Full Sun	High	0	EM
Holodiscus dumosus	Rock Spirea	6' X 6'	Deciduous	Sun/Shade	Medium	25	AF / EM
Jasminum nudiflorum	Winter Jasmine	4' X 12'	Deciduous	Full Sun	Low+	35	All areas
Kolkwitzia amabilis	Beauty Bush	10' X 10'	Deciduous	Sun/Shade	Medium	30	CV / EM
Leucophyllum frutescens	Texas Ranger or Ceniza	6' X 6'	Semi-Evergreen	Full Sun	Low+	30	All except EM
Leucophyllum langmaniae	Rio Bravo Sage	5' X 5'	Deciduous	Full Sun	Low+	25	All except EM
L. frutescens 'Compactum'	Compact Ceniza	3' X 4'	Semi-Evergreen	Full Sun	Low+	20	All except EM
Ligustrum vulgare	Common Privet	8' X 6'	Deciduous	Sun/Shade	Medium+	20	All areas
Lonicera tartarica	Tartarian Honeysuckle	6' X 6'	Deciduous	Sun/Shade	High	0	All areas
Parryella filifolia	Dunebroom	3' X 3'	Deciduous	Full Sun	RW	20	All areas
Philadelphus cultivars	Mock Orange	10' X 10'	Deciduous	Sun/Shade	Medium	30	All areas
Philadelphus microphyllum	Littleleaf Mock Orange	6' X 6'	Deciduous	Sun/Shade	Medium	25	All areas
Potentilla fruticosa	Shrubby Cinquefoil	3' X 3'	Deciduous	Sun/Shade	Medium+	10	All areas
Prunus besseyi	Western Sand Cherry	4' X 4'	Deciduous	Full Sun	Medium	15	All areas
Prunus tomentosa	Nanking Cherry	6' X 6'	Deciduous	Full Sun	Medium	25	All areas
Prunus X cistena	Purpleleaf Plum Bush	6' X 6'	Deciduous	Full Sun	Medium+	20	All areas
Psoralea scoparius	Broom Dalea	3' X 5'	Deciduous	Full Sun	RW	30	WM&RR
Punica spp.	Pomegranate	10' X 10'	Deciduous	Full Sun	Medium	30	All except EM
Rhamnus frangula Columnaris	Tallhedge Buckthorn	10' X 4'	Deciduous	Sun/Shade	Medium+	12	All areas
Rhus glabra var. cismontana	Cutleaf Sumac	3' X 5'	Deciduous	Sun/Shade	Medium	20	All areas
Rhus microphylla	Littleleaf Sumac	8' X 9'	Deciduous	Full Sun	Low+	35	All areas
Rhus trilobata	Three-leaf Sumac	6' X 6'	Deciduous	Full Sun	Low+	30	All areas
Ribes aureum	Golden Currant	6' X 6'	Deciduous	Sun/Shade	Medium+	20	All areas
Rosa foetida	Austrian Copper Rose	10' X 10'	Deciduous	Full Sun	Medium	30	All areas
Rosa rugosa	Species Rugosa Roses	4' X 8'	Deciduous	Full Sun	Medium+	20	CV / AF / EM
Rosa spp.	Tea, Floribunda, Grandiflora	6' X 5'	Deciduous	Full Sun	Medium+	20	All areas
Rosa woodsii	Woods' Rose	6' X 8'	Deciduous	Sun/Shade	Medium	25	All areas
Rubus cultivars	Raspberries, Blackberries	5' X 6'	Deciduous	Shade	Medium+	20	All areas
Salvia greggii	Autumn or Cherry Sage	2' X 3'	Deciduous	Sun/Shade	Low+	15	All except EM
Sarcobatus vermiculatus	Greasewood	8' X 8'	Deciduous	Full Sun	RW	35	Reclamation only
Shepherdia argentea	Silver Buffaloberry	15' X 10'	Deciduous	Sun/Shade	Medium+	30	CV / EM
Spiraea spp.	Spirea	varies	Deciduous	Sun/Shade	High	0	All areas
Symphoricarpos albus	Snowberry	6' X 6'	Deciduous	Sun/Shade	Medium	25	CV / AF / EM
Symphoricarpos orbiculatus	Coralberry	6' X 6'	Deciduous	Sun/Shade	Medium	25	All areas
Syringa spp.	Lilac	8' X 8'	Deciduous	Full Sun	Medium+	25	All areas
Syringa laciniata	Cutleaf Persian Lilac	8' X 6'	Deciduous	Full Sun	Medium+	20	All areas
Syringa meyeri	Dwarf Korean Lilac	5' X 6'	Deciduous	Sun/Shade	Medium	25	All areas
Syringa persica	Persian Lilac	8' X 8'	Deciduous	Full Sun	Medium+	25	All areas
Syringa rothomagensis	Chinese Lilac	8' X 8'	Deciduous	Sun/Shade	Medium+	25	All areas
Syringa vulgaris	Common Lilac	15' X 15'	Deciduous	Full Sun	Medium+	30	All areas
Viburnum spp.	Viburnum	varies	Deciduous	Sun/Shade	High	0	All areas
Weigela florida	Weigela	10' X 10'	Deciduous	Full Sun	Medium+	25	All areas

## SHRUBS, EVERGREEN

Abelia grandiflora	Glossy Abelia	7' X 7'	Evergreen	Sun/Shade	Medium+	25	All areas
Arctostaphylos pungens	Pointleaf Manzanita	3' X 6'	Evergreen	Sun/Shade	Low+	30	All areas
Artemisia cana	Silver Sage	3' X 5'	Evergreen	Full Sun	Low+	25	All areas
Artemisia filifolia	Sand Sage	4' X 4'	Evergreen	Full Sun	RW	25	All areas
Artemisia tridentata	Big Sage	4' X 4'	Evergreen	Full Sun	Low	25	All areas
Atriplex canescens	Fourwing Saltbrush	6' X 8'	Evergreen	Full Sun	RW	40	Reclamation
Atriplex confertifolia	Shadscale	2' X 2'	Evergreen	Full Sun	RW	15	All areas
Baccharis salicina	Broom Baccharis	8' X 8'	Semi-Evergreen	Full Sun	Medium	30	Reclamation
Baccharis sarothroides	Desert Broom	6' X 6'	Evergreen	Full Sun	Low+	30	Reclamation

Scientific Name	Common Name	Approx. Size Height x Width	Deciduous or Evergreen	Light Exposure	Water Use	Rebate Allowance	Region
Berberis gladwynensis	William Penn Barberr	6' X 6'	Evergreen	Sun/Shade	Medium+	20	All areas
Berberis julianae	Wintergreen Barberr	5' X 5'	Evergreen	Full Sun	Medium	20	All areas
Berberis mentorensis	Mentor Barberr	7' X 7'	Evergreen	Sun/Shade	Medium	25	All areas
Buxus spp.	Boxwood	4' X 4'	Evergreen	Shade	Medium	15	All areas
Cercocarpus ledifolius	Curl-leaf Mtn. Mahoghany	15' X 15'	Evergreen	Full Sun	Low+	45	All areas
Cercocarpus breviflorus	Hairy Mountain Mahoghany	15' X 15'	Evergreen	Full Sun	Low+	45	All areas
Chrysactinia mexicana	Damianita	2' X 2'	Evergreen	Full Sun	Low	15	All except EM
Cistus ladanifer & X purpureus	Crimsonspot & Purple Rockrose	4' X 5'	Evergreen	Full Sun	Low+	25	All except EM
Cotoneaster buxifolius	Grayleaf Cotoneaster	2' X 9'	Evergreen	Full Sun	Low+	35	All areas
Cotoneaster congestus	Pyrenees Cotoneaster	3' X 3'	Evergreen	Sun/Shade	Medium	15	All areas
Cotoneaster lacteus	Parney or Clusterberry Cotoneaster	8' X 10'	Evergreen	Sun/Shade	Medium	30	All areas
Cotoneaster salicifolius	Willowleaf Cotoneaster	6' X 10'	Evergreen	Sun/Shade	Medium	30	All areas
Cytisus scoparius	Scotch Broom	4' X 6'	Evergreen	Full Sun	Medium	30	All areas
Elaeagnus pungens	Silverberry	10' X 10'	Evergreen	Full Sun	Medium	30	All areas
Ephedra species	Joint-fir or Mormon Tea	2+ X 5'+	Evergreen	Full Sun	RW	35	All areas
Ericameria laricifolia	Turpentine Bush	3' X 4'	Evergreen	Full Sun	Low	25	All except EM
Eriogonum fasciculatum v. poliofolium	Flattop Buckwheat	2' X 2'	Evergreen	Full Sun	Low	15	All except EM
Euonymus japonica	Japanese Euonymus	8' X 8'	Evergreen	Full Sun	Medium+	25	All areas
Euonymus klautschovius	Manhattan Euonymus	6' X 6'	Evergreen	Sun/Shade	Medium+	20	All areas
Fallugia paradoxa	Apache Plume	6' X 7'	Evergreen	Full Sun	Low	35	All areas
Garrya wrightii	Wright's Silk Tassel	5' X 5'	Evergreen	Full Sun	Low	30	All areas
Genista hispanica	Spanish Broom	4' X 4'	Evergreen	Full Sun	Low+	20	All except EM
Helichrysum angustifolium	Curly Plant	2' X 3'	Evergreen	Full Sun	Low+	15	All areas
Ilex cornuta 'Burfordii'	Burford Holly	8' X 8'	Evergreen	Shade	Medium+	20	All areas
Ilex altaclarensis 'Wilsonii'	Wilson Holly	10' X 10'	Evergreen	Shade	Medium+	25	All areas
Juniperus shrub species female cultivars only	Female Juniper Shrubs	1+ X 4'+	Evergreen	Full Sun	Low+	35	All areas
Krascheninnikovia syn Ceratoides syn Eurotia lanata	Winterfat	3' X 3'	Evergreen	Full Sun	Low RW	20	All areas
Larrea tridentata	Creosote Bush	6' X 8'	Evergreen	Full Sun	Low RW	35	All except EM
Lavandula angustifolia	English Lavender	3' X 3'	Evergreen	Sun/Shade	Medium	12	All areas
Lavendula stoechas	Spanish Lavender	3' X 3'	Evergreen	Full Sun	Medium	12	All except EM
Leucophyllum langmaniae	'Lynn's Legacy' Texas sage	4' X 4'	Semi-Evergreen	Full Sun	Low+	25	All except EM
Leucophyllum zygophyllum	Cimarron Rainsage	4' X 4'	Semi-Evergreen	Full Sun	Low+	25	All except EM
Ligustrum japonicum	Waxleaf Privet	8' X 8'	Evergreen	Sun/Shade	High	0	All areas
Mahonia aquifolium	Oregon Grape Holly	6' X 6'	Evergreen	Sun/Shade	Medium	30	All areas
Mahonia aquifolium 'Compacta'	Compact Oregon Grape	2' X 4'	Evergreen	Sun/Shade	Medium	20	All areas
Mahonia syn Berberis fremontii	Blue Algerita	5' X 7'	Evergreen	Sun/Shade	Low+	30	All areas
Mahonia syn Berberis hamaetocarpa	Algerita	8' X 10'	Evergreen	Full Sun	Low+	35	All areas
Nandina domestica cultivars	Heavenly Bamboo	8' X 5'	Evergreen	Sun/Shade	Medium+	20	All areas
Parthenium incanum	Mariola	2' X 3'	Evergreen	Full Sun	RW	20	All areas
Photinia fraseri	Red Tip Photinia	8' X 8'	Evergreen	Full Sun	Medium+	20	All areas
Photinia serrulata	Chinese Photinia	10' X 10'	Evergreen	Full Sun	Medium+	25	All areas
Picea conica	Alberta Spruce	7' X 3'	Evergreen	Sun/Shade	Medium	12	All areas
Prunus caroliniana	Carolina Cherry Laurel	10' X 10'	Evergreen	Sun/Shade	High	0	All except EM
Purshia syn Cowania mexicana	Cliffrose	8' X 8'	Evergreen	Full Sun	Low	40	All areas
Purshia tridentata	Antelope Bitterbush	6' X 8'	Evergreen	Full Sun	Low	40	All areas
Pyracantha coccinea	Firethorn	10' X 10'	Evergreen	Sun/Shade	Medium	35	All areas
Raphiolepis indica	India Hawthorn	3' X 4'+	Evergreen	Sun/Shade	Medium	20	All except EM
Rhamnus californica var. ursina	Coffeeberry	6' X 8'	Evergreen	Full Sun	Low+	35	All areas
Rhododendron spp.	Rhododendron, Azalea	3' X 3'	Evergreen	Sun/Shade	High	0	Needs acid soil
Rhus ovata	Sugarbush	10' X 10'	Evergreen	Full Sun	Low+	40	All except EM
Rhus virens / choriophylla	Evergreen Sumac	8' X 8'	Evergreen	Full Sun	Low+	40	All except EM
Rosmarinus officinalis	Upright Rosemary	6' X 6'	Evergreen	Full Sun	Low+	30	All except EM
Sabal minor	Dwarf Sabal Palm	3' X 3'	Evergreen	Shade	Medium+	10	All except EM
Salvia chamaedryoides	Mexican Blue or Chihuahua Sage	1' X 3'	Semi-Evergreen	Full Sun	Low+	15	All except EM
Salvia dorrii	Desert Sage	2' X 3'	Evergreen	Full Sun	Low	20	All areas
Salvia lavandulifolia	Lavender Sage	1' X 2'	Evergreen	Full Sun	Low+	15	All areas
Salvia officinalis	Garden Sage	2' X 2'	Evergreen	Full Sun	Medium	10	All areas
Spartium junceum	Spanish Broom	10' X 10'	Evergreen	Full Sun	Medium	30	All areas
Vauquelinia spp.	Rosewood	12' X 10'	Evergreen	Full Sun	Low+	40	All areas
Virburnum X burkwoodii	Burkwood Viburnum	6' X 5'	Evergreen	Shade	Medium	20	All areas

TREES, DECIDUOUS

Acer X freemanii	Freeman Maple	45' X 30'	Deciduous	Sun/Shade	Medium+	25	CV / EM
Acer negundo 'Sensation'	Sensation Box Elder	40' X 30'	Deciduous	Full Sun	Medium	35	CV / AF / EM
Acer palmatum	Japanese Maple	20' X 20'	Deciduous	Shade	High	0	CV / EM
Acer saccharum v grandidentatum	Bigtooth Maple	25' X 25'	Deciduous	Full Sun	Medium	35	CV / AF / EM
Acer tataricum ginnala	Amur Maple	20' X 20'	Deciduous	Full Sun	Medium+	25	CV / EM
Acer truncatum	Shantung Maple	25' X 25'	Deciduous	Full Sun	Medium+	25	CV / EM
Albizia julibrissin Rosea	Mimosa	20' X 20'	Deciduous	Full Sun	Medium	35	All except EM
Carya illinoensis	Pecan	40' X 40'	Deciduous	Full Sun	High	0	CV
Catalpa speciosa	Catalpa	40' X 40'	Deciduous	Full Sun	Medium	35	All areas
Celtis occidentalis	Common Hackberry	40' X 40'	Deciduous	Full Sun	Medium	35	All areas
Celtis reticulata	Netleaf / Canyon Hackberry	25' X 25'	Deciduous	Full Sun	Low+	45	All areas
Cercis occidentalis	Western Redbud	10' X 12'	Deciduous	Sun/Shade	Medium	30	All except EM
Cercis mexicana	Mexican Redbud	15' X 12'	Deciduous	Sun/Shade	Medium	30	All except EM



Scientific Name	Common Name	Approx. Size Height x Width	Deciduous or Evergreen	Light Exposure	Water Use	Rebate Allowance	Region
<i>Cercis reniformis</i>	Oklahoma Redbud	15' X 12'	Deciduous	Sun/Shade	Medium	30	All except EM
<i>Chilopsis linearis</i>	Desert Willow	20' X 25'	Deciduous	Full Sun	RW	45	All except EM
<i>Chilopsis X Catalpa</i>	Chitalpa	20' X 20'	Deciduous	Full Sun	Medium	35	All areas
<i>Cornus mas</i>	Cornelian Cherry	15' X 20'	Deciduous	Shade	Medium+	25	EM
<i>Cotinus coggygria</i>	Smoketree	15' X 15'	Deciduous	Full Sun	Medium	30	All areas
<i>Crataegus crus-galli Inermis</i>	Thornless Cockspur Hawthorn	15' X 15'	Deciduous	Sun/Shade	Medium+	25	All areas
<i>Crataegus laevigata</i>	English Hawthorn	20' X 20'	Deciduous	Sun/Shade	Medium+	25	UA / CV / AF / EM
<i>Crataegus phaenopyrum</i>	Washington Hawthorn	20' X 20'	Deciduous	Sun/Shade	Medium+	25	UA / CV / AF / EM
<i>Crataegus X lavallei</i>	Carriere Hawthorn	25' X 25'	Deciduous	Full Sun	Medium+	25	UA / CV / AF / EM
<i>Crataegus monogyna</i>	Single-seed hawthorn	30' X 8'	Deciduous	Full Sun	Medium+	20	All areas
<i>Crateagus ambigua</i>	Russian Hawthorn	20' X 20'	Deciduous	Sun/Shade	Medium	35	All areas
<i>Ficus carica</i>	Edible Fig	12' X 15'	Deciduous	Full Sun	Medium	30	All except EM
<i>Forestiera neomexicana</i>	New Mexico Olive	15' X 15'	Deciduous	Sun/Shade	Medium	30	All areas
<i>Fraxinus cuspidata</i>	Fragrant Ash	20' X 20'	Deciduous	Full Sun	Medium	35	All areas
<i>Fraxinus angustifolia oxycarpa</i>	Claret or Raywood Ash	35' X 25'	Deciduous	Full Sun	Medium+	30	All areas
<i>Fraxinus pennsylvanica X velutina</i>	Fan West Ash	40' X 30'	Deciduous	Full Sun	Medium+	30	UA / CV / EM
<i>Fraxinus texana</i>	Texas Ash	25' X 25'	Deciduous	Full Sun	Medium	30	All areas
<i>Fraxinus velutina</i>	Arizona and Modesto Ash	40' X 35'	Deciduous	Full Sun	Medium+	30	UA / CV / EM
<b>Fruit trees</b>	<b>Fruit trees (Apple, Peach Pear, Quince)</b>	<b>25' X 25'</b>	<b>Deciduous</b>	<b>Full Sun</b>	<b>Medium+</b>	<b>30</b>	<b>All areas</b>
<i>Gleditsia triacanthos inermis</i>	Thornless Honey Locust	50' X 45'	Deciduous	Full Sun	Medium+	30	All areas
<i>Gymnocladus dioica</i>	Kentucky Coffee Tree	40' X 30'	Deciduous	Full Sun	Medium	35	All areas
<i>Juglans major</i>	Arizona Walnut	50' X 50'	Deciduous	Full Sun	Medium	40	UA / CV / EM
<i>Juglans microcarpa</i>	Little Walnut	30' X 30'	Deciduous	Full Sun	Medium	35	All areas
<i>Juglans regia</i>	English Walnut	60' X 60'	Deciduous	Full Sun	Medium+	30	CV / EM
<i>Juglans regia 'Carpathian'</i>	Carpathian Walnut	20' X 20'	Deciduous	Full Sun	Medium	35	All areas
<i>Koeleruteria paniculata</i>	Golden Rain Tree	25' X 25'	Deciduous	Full Sun	Medium	40	All areas
<i>Lagerstroemia indica x fauriei</i>	Crape Myrtle	15' X 15'	Deciduous	Full Sun	High	0	All except EM
<i>Leucaena retusa</i>	Golden Ball Leadtree	15' X 15'	Deciduous	Full Sun	Low+	35	UA / WM&RR
<i>Maclura pomifera</i>	Osage Orange	25' X 25'	Deciduous	Full Sun	Medium	40	All areas
<i>Magnolia soulangiana</i>	Saucer Magnolia	20' X 20'	Deciduous	Part Shade	Medium	35	UA / CV / WM&RR
<i>Malus cultivars</i>	Crabapple	varies	Deciduous	Full Sun	High	0	All areas
<i>Melia azedarach</i>	Chinaberry	25' X 20'	Deciduous	Full Sun	Low+	40	All except EM
<i>Metasequoia glyptostroboides</i>	Dawn Redwood	60' X 40'	Deciduous	Full Sun	Medium+	30	All areas
<i>Parrotia persica</i>	Persian Parrotia	25' X 25'	Deciduous	Full Sun	Medium	35	All areas
<i>Paulownia tomentosa</i>	Empress tree	30' X 30'	Deciduous	Sun/Shade	Medium	35	All except EM
<i>Pistacia atlantica X integerrima</i>	Red Push Pistache	40' X 40'	Deciduous	Full Sun	Medium	40	All except EM
<i>Pistacia chinensis</i>	Chinese Pistache	60' X 60'	Deciduous	Full Sun	Medium	45	All areas
<i>Platanus acerfolia</i>	London Plane Tree	70' X 50'	Deciduous	Full Sun	High	0	CV
<i>Platanus wrightii</i>	Arizona Sycamore	60' X 70'	Deciduous	Full Sun	Medium+	35	CV
<i>Populus acuminata</i>	Mountain/Lanceleaf Cottonwood	50' X 50'	Deciduous	Full Sun	Medium+	35	CV / AF / EM
<i>Populus deltoides var. wislizenii</i>	Valley Cottonwood	50' X 60'	Deciduous	Full Sun	Medium+	35	CV / EM
<i>Populus fremontii</i>	Western Cottonwood	70' X 60'	Deciduous	Full Sun	Medium+	35	CV / EM
<i>Prosopis glandulosa</i>	Honey Mesquite	25' X 30'	Deciduous	Full Sun	RW	45	All except EM
<i>Prosopis pubescens</i>	Screwbean Mesquite	20' X 20'	Deciduous	Full Sun	RW	40	All except EM
<i>Prosopis torreyana</i>	Western Honey Mesquite	18' X 20'	Deciduous	Full Sun	RW	40	All except EM
<i>Prosopis velutina</i>	Velvet Mesquite	20' X 25'	Deciduous	Full Sun	RW	40	All except EM
<i>Prunus americana</i>	American Plum	20' X 20'	Deciduous	Sun/Shade	Medium	35	All areas
<i>Prunus armeniaca</i>	Apricot	20' X 20'	Deciduous	Sun/Shade	Medium	35	All areas
<i>Prunus armeniaca mandshurica</i>	Manchurian Apricot	10' X 12'	Deciduous	Sun/Shade	Medium	25	All areas
<i>Prunus cerastifera</i>	Purpleleaf Plum	20' X 20'	Deciduous	Full Sun	Medium	35	All areas
<i>Prunus virginiana</i>	Chokecherry	20' X 20'	Deciduous	Full Sun	Medium+	30	All areas
<i>Ptelea trifoliata</i>	Hoptree	20' X 20'	Deciduous	Sun/Shade	Medium	35	All areas
<i>Pyrus sp</i>	Ornamental Pear	25' X 15'	Deciduous	Full Sun	Medium+	20	All areas
<i>Quercus gambelii</i>	Gambel Oak	25' X 25'	Deciduous	Sun/Shade	Medium	40	All areas
<i>Quercus gravesii</i>	Chisos Red Oak	25' X 25'	Deciduous	Sun/Shade	Medium	40	All except EM
<i>Quercus lobata</i>	Valley Oak	45' X 30'	Deciduous	Full Sun	Medium+	35	CV
<i>Quercus macrocarpa</i>	Bur Oak	60' X 70'	Deciduous	Sun/Shade	Medium+	40	CV / EM
<i>Quercus muhlenbergii</i>	Chinquapin Oak	40' X 40'	Deciduous	Sun/Shade	Medium	40	All areas
<i>Quercus oblongifolia/engelmannii</i>	Mexican Blue / Mesa Oak	25' X 30'	Deciduous	Sun/Shade	Medium	40	All except EM
<i>Quercus robur</i>	English Oak	50' X 50'	Deciduous	Sun/Shade	Medium+	40	CV / EM
<i>Quercus shumardii</i>	Shumard Oak	60' X 60'	Deciduous	Sun/Shade	Medium	40	All areas
<i>Quercus texana syn buckleyi</i>	Texas Red Oak	40' X 40'	Deciduous	Sun/Shade	Medium	40	All areas
<i>Rhamnus cathartica</i>	Common Buckthorn	20' X 20'	Deciduous	Full Sun	Medium	35	AF/EM
<i>Rhamnus frangula 'Asplenifolia'</i>	Fernleaf Buckthorn	12' X 10'	Deciduous	Sun/Shade	Medium	25	All areas
<i>Rhus glabra</i>	Smooth Sumac	12' X 15'+	Deciduous	Sun/Shade	Medium	30	All areas
<i>Rhus lanceolata</i>	Prairie Flameleaf Sumac	25' X 20'	Deciduous	Sun/Shade	Medium	35	All except EM
<i>Robinia neomexicana</i>	New Mexico Locust	25' X 15'	Deciduous	Sun/Shade	Medium	30	All areas
<i>Robinia pseudoacacia</i>	Black Locust	40' X 25'	Deciduous	Full Sun	Medium	40	All areas
<i>Robinia X ambigua</i>	Idaho Locust	40' X 25'	Deciduous	Full Sun	Medium	40	All areas
<i>Sambucus mexicana</i>	Mexican Elder	20' X 25'	Deciduous	Full Sun	Low+	45	All except EM
<i>Sapindus drummondii</i>	Western Soapberry	30' X 30'	Deciduous	Full Sun	Low+	45	All areas
<i>Sorbus aucuparia</i>	European Mountain Ash	20' X 20'	Deciduous	Sun/Shade	High	0	EM
<i>Styphnolobium syn Sophora japonicum</i>	Japanese Pagoda Tree, Scholar Tree	35' X 35'	Deciduous	Sun/Shade	Medium	40	All areas
<i>Syringa reticulata</i>	Japanese Tree Lilac	20' X 20'	Deciduous	Full Sun	Medium+	30	CV / EM
<i>Taxodium distichum</i>	Bald Cypress	50' X 20'	Deciduous	Sun/Shade	Medium+	35	UA / CV
<i>Taxodium mucronatum</i>	Montezuma Cypress	60' X 40'	Deciduous	Sun/Shade	Medium+	35	UA / CV
<i>Tilia cordata</i>	Littleleaf Linden	40' X 30'	Deciduous	Sun/Shade	High	0	AF / EM
<i>Ulmus crassifolia</i>	Cedar Elm	40' X 40'	Deciduous	Full Sun	Medium	40	All except EM
<i>Ulmus parvifolia</i>	Lacebark Elm	40' X 40'	Deciduous	Full Sun	Medium	40	All except EM
<i>Vitex agnus-castus</i>	Chaste Tree	20' X 20'	Deciduous	Full Sun	Medium	35	All except EM
<i>Zizyphus jujuba</i>	Jujube or Chinese Date	25' X 25'	Deciduous	Full Sun	Low+	40	All areas

Scientific Name	Common Name	Approx. Size Height x Width	Deciduous or Evergreen	Light Exposure	Water Use	Rebate Allowance	Region
<b>TREES, EVERGREEN</b>							
Abies concolor	White Fir	50' X 20'	Evergreen	Full Sun	High	0	EM
Cedrus atlantica	Atlas Cedar	75' X 50'	Evergreen	Full Sun	Medium+	35	All areas
Cedrus deodara	Deodar Cedar	80' X 60'	Evergreen	Full Sun	Medium+	35	All areas
Cedrus libani	Cedar of Lebanon	80' X 50'	Evergreen	Full Sun	Medium+	35	All areas
Cercocarpus ledifolius	Curlleaf Mountain Mahogany	12' X 8'	Evergreen	Full Sun	Low+	25	All areas
Cupressocyparis leylandii	Leyland Cypress	40' X 20'	Evergreen	Full Sun	Medium	35	All except EM
Cupressus arizonica	Arizona Cypress	50' X 30'	Evergreen	Full Sun	Medium	40	All except EM
Ilex vomitoria	Yaupon Holly	15' X 15'	Evergreen	Sun/Shade	Medium	30	UA / WM&RR
Juniperus chinensis	Juniper Trees, Females Only	25' X 20'	Evergreen	Full Sun	Low+	40	All areas
Juniperus depeana	Alligator Juniper	60' X 40'	Evergreen	Full Sun	Low+	45	All areas
Juniperus monosperma	Oneseed Juniper	15' X 15'	Evergreen	Full Sun	RW	35	All areas
Juniperus scopulorum	Rocky Mountain Juniper, Females Only	40' X 20'	Evergreen	Full Sun	Low+	40	All areas
Juniperus virginiana	Juniper Trees, Females Only	20' X 10'	Evergreen	Full Sun	Low+	30	All areas
Magnolia grandiflora	Southern Magnolia	25' X 25'	Evergreen	Sun/Shade	Medium+	35	UA/CV
Picea abies	Norway Spruce	50' X 20'	Evergreen	Full Sun	Medium+	30	EM
Picea engelmanni	Engelmann Spruce	50' X 20'	Evergreen	Full Sun	Medium+	30	EM
Picea pungens	Blue Spruce	50' X 20'	Evergreen	Full Sun	Medium+	30	UA / CV / AF / EM
Pinus aristata	Bristlecone Pine	30' X 20'	Evergreen	Full Sun	Medium	35	All areas
Pinus edulis	Pinon Pine	30' X 20'	Evergreen	Full Sun	Medium	35	All areas
Pinus eldarica	Afghan Pine	40' X 18'	Evergreen	Full Sun	Medium	35	All except EM
Pinus flexilis	Limber Pine	30' X 20'	Evergreen	Full Sun	Medium	35	AF / EM
Pinus nigra	Austrian Pine	35' X 25'	Evergreen	Full Sun	Medium+	35	AF / EM
Pinus pinea	Italian Stone Pine	60' X 50'	Evergreen	Full Sun	Medium	40	All except EM
Pinus ponderosa	Ponderosa Pine	40' X 25'	Evergreen	Full Sun	Medium+	35	AF / EM
Pinus strobiformis	Southwestern White or Border Pine	30' X 20'	Evergreen	Full Sun	Medium+	30	AF / EM
Pinus sylvestris	Scotch Pine	45' X 25'	Evergreen	Full Sun	Medium+	35	AF / EM
Poncirus trifoliata	Trifoliolate Orange	15' X 10'	Evergreen	Full Sun	Medium	25	All areas
Pseudotsuga menziesii	Douglas Fir	50' X 20'	Evergreen	Full Sun	Medium+	30	AF / EM
Quercus emoryi	Emory Oak	35' X 35'	Evergreen	Sun/Shade	Medium	40	All areas
Quercus fusiformis	Escarpment Live Oak	25' X 30'	Evergreen	Sun/Shade	Medium	40	All except EM
Quercus grisea	Gray Oak	30' X 30'	Evergreen	Sun/Shade	Low+	45	All areas
Quercus suber	Cork Oak	30' X 30'	Evergreen	Sun/Shade	Low+	45	UA / WM&RR
Quercus turbinella	Desert or Shrub Live Oak	18' X 20'	Evergreen	Sun/Shade	Low+	40	All areas
Quercus virginiana	Southern Live Oak	35' X 40'	Evergreen	Sun/Shade	Medium	40	UA / WM&RR
Sequoia sempervirens	Coast Redwood	50' X 30'	Evergreen	Full Sun	Medium	40	All areas
Sequoiadendron giganteum	Giant Sequoia	75' X 30'	Evergreen	Full Sun	Medium	40	All areas
Taxus species	Yew	varies	Evergreen	Shade	High	0	UA / CV / AF / EM
Thuja or Platycladus species	Arborvitae	15'+ X 12'+	Evergreen	Full Sun	Medium	30	All areas
Trachycarpus fortunei / wagnerianus	Windmill Palm	15' X 4'	Evergreen	Sun/Shade	Medium	15	All except EM

**VINES**

Akebia quinata	Chocolate Vine	Climbing X 15'	Deciduous	Sun/Shade	Medium	25	All except EM
Campsis radicans	Trumpet Vine	Climbing X 40'	Deciduous	Full Sun	Medium	30	All areas
Clematis hybrids	Clematis	Climbing X 10'	Deciduous	Sun/Shade	High	0	All areas
Clematis ligusticifolia	Western Virginsbower	Climbing X 15'	Deciduous	Sun/Shade	Medium	30	All areas
Clematis tangutica	Golden Lanterns	Climbing X 15'	Deciduous	Sun/Shade	High	0	All areas
Euonymus fortunei colorata	Purpleleaf Wintercreeper	Climbing X 6'	Evergreen	Sun/Shade	Medium+	20	All areas
Glesemium sempervirens	Carolina Jessamine	Climbing X 10'	Evergreen	Sun/Shade	Medium+	25	All except EM
Hedera helix	English Ivy	Climbing X 12'	Evergreen	Shade	Medium	30	All areas
Humulus neomexicanus	Hops	Climbing X 6'	Deciduous	Sun/Shade	Medium+	20	All areas
Lonicera japonica 'Purpurea'	Purpleleaf Honeysuckle	Climbing X 12'	Evergreen	Sun/Shade	Medium+	20	All areas
Lonicera japonica Halliana	Hall's Honeysuckle	Climbing X 12'	Evergreen	Full Sun	Medium+	25	All areas
Lonicera sempervirens	Coral Honeysuckle	Climbing X 8'	Deciduous	Shade/Part Sun	Medium	25	All areas
Lonicera x heckrottii	Goldflame Honeysuckle	Climbing X 8'	Deciduous	Shade/Part Sun	Medium	25	All areas
Parthenocissus inserta	Woodbine	Climbing X 40'	Deciduous	Sun/Shade	Medium	30	All areas
Parthenocissus quinquefolia	Virginia Creeper	Climbing X 40'	Deciduous	Sun/Shade	Medium+	25	All areas
Parthenocissus tricuspidata	Boston Ivy	Climbing X 40'	Deciduous	Shade	Medium+	25	All areas
Periploca graeca	Silkvine	Climbing X 40'	Deciduous	Sun/Shade	Medium	30	All areas
Polygonum aubertii	Silver Lacevine	Climbing X 40'	Deciduous	Full Sun	Low+	45	All areas
Rosa banksiae	Rose Lady Banks	Climbing X 40'	Evergreen	Sun/Shade	Low+	45	All areas
Rosa hybrid and species climbers	Climbing Roses	Climbing X 15'	Deciduous	Sun/Shade	Medium+	25	All areas
Trachelospermum jasminoides	Star Jasmine	Climbing X 6'	Evergreen	Shade	Medium	25	UA / WM&RR
Vitis arizonica	Canyon Grape	Climbing X 20'	Deciduous	Sun/Shade	Medium	35	All areas
Vitis labrusca	American grape	Climbing X 30'	Deciduous	Full Sun	Medium+	30	All areas
Vitis vinifera	European grape	Climbing X 30'	Deciduous	Full Sun	Medium	40	All except EM
Wisteria spp.	Wisteria	Climbing X 20'	Deciduous	Sun/Shade	Medium	35	All areas

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## **Appendix D. State of New Mexico: Plans, Regulations and Guides**

New Mexico Department of Health Graywater Discharges (NMAC 20.7.810) - <http://www.nmenv.state.nm.us/fod/LiquidWaste/20%207%203%20NMAC%20-%20filed%202-21-2007%20with%20toc.pdf>

New Mexico Department of Health Graywater Systems (NMAC 20.7.811) - - <http://www.nmenv.state.nm.us/fod/LiquidWaste/20%207%203%20NMAC%20-%20filed%202-21-2007%20with%20toc.pdf>

New Mexico Department of Health Graywater Irrigation Guide - <http://www.nmenv.state.nm.us/OOTS/GRAY%20WATER%20IRRIGATION%20GUIDE1.pdf>

New Mexico Office of the State Engineer: Water Use and Conservation Program - [http://www.ose.state.nm.us/conservation\\_index.html](http://www.ose.state.nm.us/conservation_index.html)

## **Appendix E. United States Environmental Protection Agency: Water Conservation Plan Guidelines**

United States Environmental Protection Agency: Water Conservation Plan Guidelines - <http://www.epa.gov/greeningepa/water/index.htm>

## Appendix F. Annotated Bibliography

Additional information on designing and installing irrigation systems, designers, and irrigation technologies is available through the websites listed below.

Albuquerque/Bernalillo County Water Authority free residential water audit  
<http://www.abcwua.org/content/view/75/65/>

Bureau of Reclamation- Smart technology  
<http://www.usbr.gov/waterconservation/docs/SmartController.pdf>

City of Albuquerque--Do It Yourself  
<http://www.abcwua.org/content/view/73/63/>

City of Albuquerque "Rainwater Harvesting"  
<http://www.abcwua.org/pdfs/irrigationmanual.pdf>

EPA  
[http://www.epa.gov/watersense/docs/home\\_draft\\_spec508.pdf](http://www.epa.gov/watersense/docs/home_draft_spec508.pdf)  
Single-family homes guidelines

[http://www.epa.gov/watersense/docs/home\\_draft\\_spec508.pdf](http://www.epa.gov/watersense/docs/home_draft_spec508.pdf)  
Information and resources for commercial and institutional water users

Hiring a Professional  
<http://www.irrigation.org/hirecertified/>  
<http://findalandscapepro.pbwiki.com/How+to+Hire+a+Pro>

Hunter Irrigation Homeowner's Irrigation Information  
<http://www.hunterindustries.com/homeowners.html>

Irrigation Association Turf and Landscape Irrigation Best Management Practices  
[http://www.irrigation.org/Resources/Turf\\_\\_\\_Landscape\\_BMPs.aspx](http://www.irrigation.org/Resources/Turf___Landscape_BMPs.aspx)

Rainbird homeowner's irrigation information  
<http://www.rainbird.com/diy/index.htm>

Toro Homeowner's Irrigation Information  
<http://www.toro.com/sprinklers/guides.html>

### Other Information Sources and References

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Druse, Ken. *The Natural Garden*. Clarkson N. Potter, Inc. Publishers, New York, New York. 1989.

Van Sweden, James. *Gardening With Nature*. Random House, New York, New York. 1997.

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Ferguson, Nicola. *Right Plant, Right Place*. Simon & Schuster, New York, New York. 1992.

Ondra, Nancy J. *Grasses: Versatile Partners for Uncommon Garden Design*. Storey Books, North Adams, Massachusetts. 2002.

Phillips, Judith. *New Mexico Gardener's Guide, Revised Edition*. Cool Springs Press, Nashville, TN, 2005.

### **Sustainable Design Practices and Techniques**

Ferguson, Bruce K. *Introduction to Stormwater, Concept, Purpose, Design*. Boca Raton, FL: Lewis Publishers, 1994.

Ferguson, Bruce K. *Porous Pavements*. Boca Raton, FL: CRC Press, 2005.

Portland Bureau of Environmental Services – *Sustainable Stormwater Management*  
<http://www.portlandonline.com/bes/index.cfm?c=34598>

Thompson, J. William and Sorvig, Kim. *Sustainable Landscape Construction, A Guide to Green Building Outdoors*, Second Edition. Washington, D.C.: Island Press, 2008.

Metro, "Creating Livable Streets- Street Design Guidelines," 2002.

Metro, "Green Streets- Innovative Solutions for Stormwater and Stream Crossings," 2002.

Metro, "Trees for Green Streets," 2002.

### **Periodicals**

Fine Gardening [www.taunton.com](http://www.taunton.com)

Garden Design [www.gardendesign.com](http://www.gardendesign.com)

Horticulture [www.hortmag.com](http://www.hortmag.com)

Organic Gardening [www.organicgardening.com](http://www.organicgardening.com)

Sunset Magazine [www.sunset.com](http://www.sunset.com)

### **Water Harvesting**

Forgotten Rain, *Rediscovering Rainwater Harvesting*, Heather Kinkade-Levario, 2003.  
[www.forgottenrain.com](http://www.forgottenrain.com)

Suzy Banks & Richard Heinichen, *Rainwater Collection for the Mechanically Challenged*.

Brad Lancaster, *Rainwater Harvesting for Drylands*, . [www.harvestingrainwater.com](http://www.harvestingrainwater.com)

*Stormwater as a Resource, How to Harvest and Protect a Dryland Treasure*  
[http://www.nmenv.state.nm.us/swqb/Storm\\_Water\\_as\\_a\\_Resource.pdf](http://www.nmenv.state.nm.us/swqb/Storm_Water_as_a_Resource.pdf)

Wendy Price Todd & Gail Vittori. *Texas Guide to Rainwater Harvesting*, 2nd Ed.  
[http://www.twdb.state.tx.us/publications/reports/RainwaterHarvestingManual\\_3rdedition.pdf](http://www.twdb.state.tx.us/publications/reports/RainwaterHarvestingManual_3rdedition.pdf)

**Graywater**

Art Ludwig, *Create an Oasis with Greywater, Your Complete Guide to Choosing, Building and Using Greywater Systems*, 4<sup>th</sup> Ed., Oasis Design, 2000. <http://www.oasisdesign.net>

## Appendix G. Water Features and Amenities

### Water Features

When features such as fountains, ponds or waterfalls are used, design them to be as water-efficient as possible. Key considerations include evaporation rates, feature size and function. Evaporative water loss can be reduced by limiting the size of the feature, shading it, covering it when not in use, and avoiding spray features. Features with recirculating water can provide the desired effect with minimal water consumption and waste. Ideally, water features should perform practical water quality improvement or infiltration purposes in addition to being an aesthetic amenity. For example, it is possible to use ephemeral water features to infiltrate water into the soil such as having part of the stormwater conveyance system serve as a water feature when it is functioning. If you do not want infiltration from a water feature, utilization of appropriate measures and technologies such as liners to prevent unnecessary or excessive water loss should be utilized.

- **Swimming pools** can be designed and maintained to lessen their water consumption and adverse impacts of pool chemicals on the receiving water system. There are a variety of alternatives available which minimize or replace traditional chemical management regimes and, in some cases significantly reduce the frequency at which the pool must be flushed and refilled. Among the alternatives are ultra-violet purification and the use of salt versus fresh water. Pool size should be carefully considered when designing a community pool facility in order to avoid overbuilding. A variety of other measures can be used to reduce pool water waste once the pool is in operation. These include:
  - Using a pool cover when the pool is not in use. Pool covers can reduce the amount of pool water lost to evaporation by 90 to 95% and can also reduce both the amount of chemicals required to treat the water and energy costs associated with heating the pool.
  - Manual cleaning of the pool filter versus backwashing. Backwashing can use between 250 and 1000 gallons of water. Manual cleaning can also be more effective in removing debris from the filter.
  - Maintaining lower pool water temperatures reduces the amount of evaporation as warm water evaporates more rapidly.
  - Maintaining the appropriate pH level reduces the frequency of full pool cleaning required.
  - Monitoring for any leaks.
  - Maintaining the pool water level on the low side to reduce the amount of water lost to splashing and overflow.
  - Windbreaks around pools (and other water features) such as fences, privacy barriers, and trees and shrubbery help to minimize evaporation loss due to wind and also help to maintain pool water temperature. Heat loss due to wind can be significant; for example, a 7-mph wind at the surface of the pool can increase heat loss by up to 300%.
  - Locating a pool indoors or within an enclosure can also significantly reduce water loss due to evaporation.

## Appendix H. Structural Soils

“CU-Soil,” a mix patented by Cornell University’s Urban Horticulture Institute (UHI), is composed of 80% ¾-inch to 1 ½-inch uniformly sized stone aggregate with no fines, 20% clay loam soil (25-35% clay) and 0.03% polymer gel, which is used to hydrate and tackify the soil particles to prevent them from separating from the aggregate matrix. The stone must be angular and consistently sized in order to maximize the void space between the aggregate particles. This allows soil, water and air to be spread throughout the mixture, ensuring adequate stability under pressure. In addition to sieving for consistent size, a cone separator can be used to sort out flat stones and help to further increase void space in the mix. The moisture content of the mixture should be approximately 10%, and the mix is placed in 6-inch lifts or layers and can be compacted to 95% of dry density, which is the level used under most heavy-duty concrete and asphalt pavings. The UHI-recommended depth for CU-Soil is between 24 and 36 inches. CU-Soil has been in existence for approximately 12 years. Some experts note concerns regarding whether it provides the best solution for stormwater management, as only 6% to 8% of the total structural soil volume is available for water capture and retention or for long-term tree health given that soil comprises only 20% of the mixture volume. The CU-Soil mixture should be adapted for local conditions, and increasing the clay loam content to increase the moisture-holding capacity of the mixture is advisable for Bernalillo County’s desert conditions.

Another well-known structural soil mixture is commonly called “Amsterdam tree soil.” It was developed in The Netherlands in the 1970s to address the decline of street trees there. The sand-based mixture is composed of medium-sized coarse sand (~.22 mm), washed to remove any salts or other particles, and 4% to 5% organic matter with 2% to 4% clay. As with the aggregate in the CU-Soil mix, the sand particles should relatively uniformly-sized. The installed depth should not exceed 40 inches and should be placed in lifts and compacted at 85 to 90 percent. A balance between the high compaction levels normally used for paving substrates and slightly lower levels that facilitate permeability has to be achieved. It is interesting to note that in Europe 85 to 90 percent levels are commonly used for streetscape paving schemes. Some experts state that sand mixes are superior to aggregate-based mixes in terms of stormwater management function, cost-effectiveness and for promoting tree health and growth.

Structural soil mixtures based on ESCS aggregate present another option. Called air-entrained soils by Henry Arnold, the landscape architect who originally developed them, ESCS is a ceramic material produced by firing shale, clay and slate until they expand and vitrify, creating a lightweight material with internal pore structures that allow it to absorb and then release water and air. Generally the mixture consists of 50% to 65% ESCS aggregate with 5% to 10% organic matter and topsoil, and 15% clay. Various versions of this type of soil mixture have been used over the last 20 years with positive results. Advantages of this type of structural soil include its ability to support heavy and continuous pedestrian traffic, and its high volumetric proportion of soil and organic matter relative to the amount of aggregate, which translates to greater stormwater management capacity and an increased growth medium for trees.

## Appendix I. Recommended Watering Schedules

### Water Guidelines: Established Plant

(Establishment usually takes one year for small plants, two years for large shrubs and three years for trees.)

<b>TREES</b>	<b>Mar-May</b>	<b>May-Oct</b>	<b>Oct-Dec</b>	<b>Dec-Mar</b>	<b>Watering Depth (every time you water)</b>
Desert Adapted	14-30 days	7-14 days	14-30 days	30-60 days	24-36"
High Water Use	7-12 days	4-> 10 days	7-12 days	30-60 days	24-36"
<b>SHRUBS</b>					
Desert Adapted	14-30 days	7-21 days	14-30 days	30-60 days	18-24"
High Water Use	7-10 days	5-7 days	7-10 days	14-30 days	18-24"
<b>GROUNDCOVER/VINES</b>					
Desert Adapted	14-30 days	7-21 days	14-30 days	30-60 days	8-12"
High Water Use	7-10 days	2-5 days	7-10 days	14-30 days	8-12"

The above schedules are guidelines because watering frequency depends upon current weather conditions, plant type, size, soil type and plant establishment.

Water at the outer edge of the plant's canopy and to the depth indicated above. Depending on emitter output and root depth, watering times are typically one or more hours. Less time means shallower water depth. Think about your emitter quantities—they measure the amount per hour.

It is important that you check your plants to see how they perform under this schedule and modify it according to their needs.

## Appendix J. Bernalillo County Protocol Document/Summary of Ordinance Requirements

### Compliance with the Bernalillo County Water Conservation Ordinance

#### Summary of Ordinance Requirements by Type of Development

Bernalillo County began implementing a new Water Conservation Ordinance (the ordinance) on October 1, 2010. In addition to outdoor watering and water waste restrictions that apply to everyone, the ordinance specifies conservation measures that must be incorporated into new construction, remodels and additions in the County. Water conservation measures include both interior fixtures and exterior site features. Checklists for Commercial/Large Multi-Family and Single Family and Small Multi-Family Development list required water conservation measures and options available to each type of development for meeting the ordinance requirements. Exemptions are allowed for specific situations and must be requested in an application to Bernalillo County.

**Single Family and Small Multi-Family (2-7 dwelling units) Development** can meet the ordinance requirements in one of three ways:

1. Completion of a Bernalillo County Water Conservation Worksheet. Printed copies of the Water Conservation Worksheet are available online and at the Zoning, Building and Planning Department, 111 Union Square SE, Suite 100. The Worksheet may be filled out on line at [www.bernco.gov/water](http://www.bernco.gov/water). For assistance, contact the Bernalillo County Public Works Division at 505-848-1500.
2. Build Green New Mexico Bronze Certification, [www.buildgreennm.com](http://www.buildgreennm.com).
3. Installation of EPA WaterSense Fixtures, [www.epa.gov/WaterSense](http://www.epa.gov/WaterSense)

In addition, the development must comply with the planting restrictions of the ordinance.

Final review for compliance with the ordinance will occur prior to Certificate of Occupancy. A pre-application meeting with Public Works staff is available prior to submitting plans for review, if desired. The applicant must verify compliance through inspection and approval by designated staff. Call 505-848-1500 to schedule an inspection by the Public Works Division as soon as all fixtures are installed. If the Build Green New Mexico Bronze Certification is the selected alternative, the final certification must be provided with your building permit application, with an independent verifier's name and address.

**Commercial and Large Multi-Family Development** can meet the ordinance requirements through a combination of indoor and outdoor measures. Indoor measures are noted on a Commercial Indoor Water Conservation Measures Worksheet. Outdoor water conservation measures are noted in a Commercial Outdoor Water Conservation Plan and Site Plan. Applicants may choose from among seven options to meet the ordinance requirements. In addition, all new development must comply with the planting restrictions of the ordinance.

The Commercial Indoor Water Conservation Measures Worksheet and the Commercial Outdoor Conservation Measures Worksheet may be filled out on line at [www.bernco.gov/water](http://www.bernco.gov/water). For assistance, contact the Bernalillo County Public Works Division at 505-848-1500.

You should thoroughly review the Bernalillo County Water Conservation Ordinance before starting development plans. The ordinance is available on the County Public Works Division web site: [www.bernco.gov/upload/images/public\\_works/water/waterconservord.pdf](http://www.bernco.gov/upload/images/public_works/water/waterconservord.pdf).

Final review for compliance with the ordinance will occur when you apply for a building permit. However, to ensure that projects consider ordinance requirements from early planning stages, information about the water conservation features of your project should be provided at each level of plan review at the County. Generally, items to be reviewed are as summarized below. A pre-application meeting with Public Works staff is recommended prior to submitting plans for review, as early in the design process as possible.

## Requirements by Application Type

### **Master Plan**

Master Plan requirements will be discussed on a case by case basis.

### **Special Use Permit and Planned Development Area**

A fully and properly completed Commercial Outdoor Water Conservation Plan and Site Plan will be required for a building permit. However, early discussions with staff are recommended to ensure that the development is designed from inception to comply with the ordinance. The following Special Use Permit submittals will be reviewed for compliance with the ordinance.

- Conceptual grading and drainage plan – will be reviewed for approach to water harvesting and use of water to irrigate landscape.
- Landscape and buffer landscaping plan – must indicate how proposed landscaping will comply with the water conservation plan criteria proposed for the development.
- Statement of responsibility for maintenance, addressing requirements of an Exterior Management Plan, if applicable.

### **Subdivision, Residential**

A fully and properly completed Water Conservation Measures Worksheet, Build Green NM Bronze Certification form, or proof of EPA WaterSense fixtures will be required for a residential building permit. However, early discussions with staff are recommended to ensure that the subdivision is designed to take into account ordinance requirements for outdoor water conservation. The following submittal requirements will be reviewed for compliance with the ordinance.

1. Water supply information should describe how the water conservation alternatives in the Ordinance will be incorporated into the subdivision design to ensure an adequate water supply as required by the Bernalillo County Subdivision Ordinance.
2. Required plans and reports relating to grading, erosion control, and drainage must provide general indication of intent for water harvesting on individual lots, which will be reviewed at building permit.
3. If the subdivision includes common open space and/or park areas, the terrain management plan (drainage report) must indicate how the landscaping and water harvesting alternatives in the ordinance will be employed to reduce water use and also indicate maintenance responsibility for the common open space and/or park areas.
4. If applicable, the Statement of Restrictions of Record in the draft disclosure statement must include a statement making purchasers aware of Bernalillo County water conservation requirements and any commitments made as a condition of subdivision approval.

### **Subdivision, Non-Residential**

A fully and properly completed Commercial Outdoor Water Conservation Plan and Site Plan will be required for a building permit. However, early discussions with staff are recommended to ensure that the subdivision is designed to take into account ordinance requirements. The following submittal requirements will be reviewed for compliance with the ordinance.

- Water supply information should describe how the water conservation alternatives in the Ordinance will be incorporated into the subdivision design to ensure an adequate water supply as required by the Bernalillo County Subdivision Ordinance.
- Terrain management plan (drainage report) must provide general indication of intent for water harvesting on individual lots, which will be reviewed at building permit.
- If the subdivision includes common open space and/or park areas, the terrain management plan (drainage report) must indicate how the landscaping and water harvesting alternatives in the ordinance will be employed to reduce water use and indicate maintenance responsibility for the common open space and/or park areas.
- If applicable, the Statement of Restrictions of Record in the draft disclosure statement must include a statement making purchasers aware of Bernalillo County water conservation requirements and any commitments made as a condition of subdivision approval.

### **Building Permit, Residential**

A single family or small multi-family building permit application must include one of the following:

1. Completion of a Bernalillo County Water Conservation Worksheet may be filled out on line at [www.bernco.gov/water](http://www.bernco.gov/water). For assistance, contact the Bernalillo County Public Works Division at 505-848-1500.
2. Build Green New Mexico Bronze Certification, [www.buildgreennm.com](http://www.buildgreennm.com).
3. Installation of EPA WaterSense Fixtures, [www.epa.gov/WaterSense](http://www.epa.gov/WaterSense)

Before obtaining a Certificate of Occupancy, the developer/builder/homeowner must verify compliance by inspection and approval by designated staff. If the Build Green New Mexico Bronze Certification is the selected alternative, the certification must be provided, with an independent verifier's name and address.

### **Building Permit, Non-Residential**

A commercial or large multi-family building permit application must include a fully and properly completed Commercial Indoor Water Conservation Measures Worksheet. The worksheet may be filled out on line at [www.bernco.gov/water](http://www.bernco.gov/water). For assistance, contact the Bernalillo County Public Works Division at 505-848-1500.

For outdoor use, the building permit application must include a fully and properly completed Commercial Outdoor Water Conservation Plan and Site Plan that includes the outdoor water conservation measures identified on the grading and drainage and landscaping plans. A checklist of alternatives is attached.

1. Grading and drainage plan must indicate any water harvesting on site and how the grading and drainage plan will direct water to landscape areas
2. Landscape plan, if required, must identify the measures to be used, including area calculations, planting materials, water supply and irrigation information as identified in the Commercial Outdoor Water Conservation Plan.

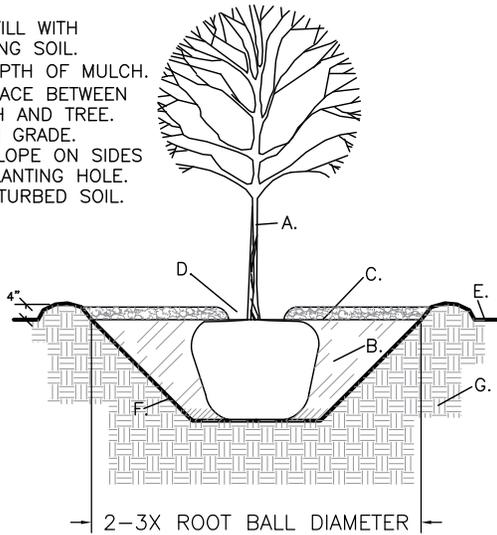
The following table indicates the required elements at each submittal that must address compliance with the ordinance.

Type of Submittal	Required Element						
	Grading, drainage, erosion control and stormwater pollution prevention	Landscape and buffer landscape plan	Landscape Plan	Irrigation Plan	Site Plan	Floor Plan	Commercial Outdoor Water Conservation Plan
<b>Master Plan</b>							
<b>Special Use Permit/Planned Development Area</b>	As required by the County Storm Water Ordinance	X	May be required	May be required	X		
<b>Subdivision</b>	As required by the County Storm Water Ordinance						
<b>Commercial and Large Multi-Family Building Permit</b>	As required by the County Storm Water Ordinance		May be required	X	X	X	X
<b>Single Family and Small Multi-Family Building Permit</b>	As required by the County Storm Water Ordinance		Plant list and landscape and irrigation concept				

## **Appendix K. Plant and Turf Grass Installation Details**

CONSTRUCTION NOTES:

- A. TREE.
- B. BACKFILL WITH EXISTING SOIL.
- C. 3" DEPTH OF MULCH.
- D. 4" SPACE BETWEEN MULCH AND TREE.
- E. FINISH GRADE.
- F. 1:1 SLOPE ON SIDES OF PLANTING HOLE.
- G. UNDISTURBED SOIL.



GENERAL NOTES:

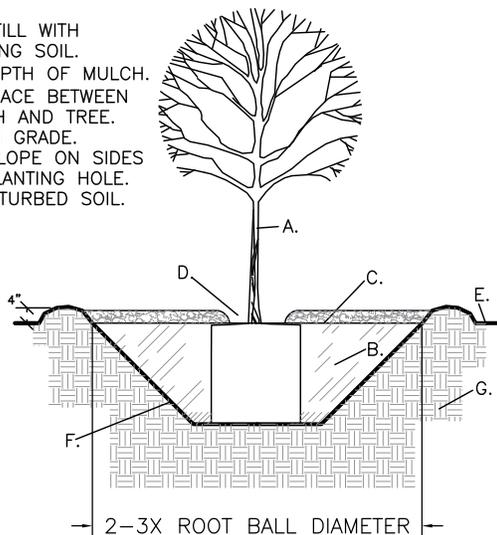
1. KEEP SOIL BELOW ROOT BALL UNDISTURBED TO PREVENT TREE FROM SETTLING.
2. REMOVE ANY EXCESS SOIL FROM TOP OF ROOTBALL TO EXPOSE ROOT FLARE (WHERE TOP MOST ROOT EMERGES FROM THE TRUNK). PLANT WITH ROOT FLARE LEVEL TO FINISH GRADE (OR 1"-2" HIGHER IN SLOWLY DRAINING SOIL).
3. TAMP SOIL FIRMLY AROUND BASE OF ROOTBALL WITH FOOT PRESSURE.
4. PRIOR TO BACKFILLING, REMOVE BURLAP, ROPE, TWINE, AND WIRE FROM ENTIRE ROOTBALL AND FROM PLANTING HOLE.
5. AT TIME OF PLANTING, ONLY PRUNE CO-DOMINANT LEADERS (DOES NOT APPLY TO MULTI-TRUNK SPECIMENS), CROSSOVER LIMBS, AND DEAD OR BROKEN BRANCHES.
6. DO NOT PLACE MULCH IN CONTACT WITH TREE, KEEP AT LEAST 4" AWAY FROM TRUNK.
7. AFTER PLANTING, THOROUGHLY WATER TO ELIMINATE AIR POCKETS.

## TREE PLANTING, BALLED & BURLAP

NOT TO SCALE

CONSTRUCTION NOTES:

- A. TREE.
- B. BACKFILL WITH EXISTING SOIL.
- C. 3" DEPTH OF MULCH.
- D. 4" SPACE BETWEEN MULCH AND TREE.
- E. FINISH GRADE.
- F. 1:1 SLOPE ON SIDES OF PLANTING HOLE.
- G. UNDISTURBED SOIL.



GENERAL NOTES:

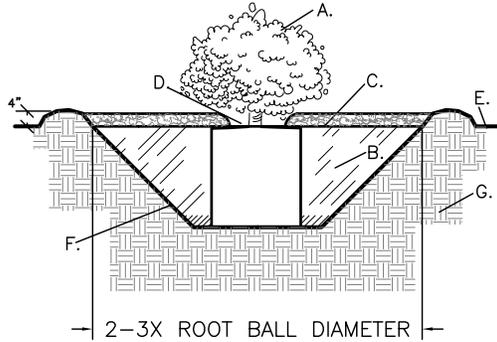
1. KEEP SOIL BELOW ROOT BALL UNDISTURBED TO PREVENT TREE FROM SETTLING.
2. REMOVE ANY EXCESS SOIL FROM TOP OF ROOTBALL TO EXPOSE ROOT FLARE (WHERE TOP MOST ROOT EMERGES FROM THE TRUNK). PLANT WITH ROOT FLARE LEVEL TO FINISH GRADE (OR 1"-2" HIGHER IN SLOWLY DRAINING SOIL).
3. REMOVE CONTAINER AND CUT ANY ROOTS THAT ARE CIRCLING THE CONTAINER.
4. TAMP SOIL FIRMLY AROUND BASE OF ROOTBALL WITH FOOT PRESSURE.
5. AT TIME OF PLANTING, ONLY PRUNE CO-DOMINANT LEADERS (DOES NOT APPLY TO MULTI-TRUNK SPECIMENS), CROSSOVER LIMBS, AND DEAD OR BROKEN BRANCHES.
6. DO NOT PLACE MULCH IN CONTACT WITH TREE, KEEP AT LEAST 4" AWAY FROM TRUNK.
7. AFTER PLANTING, THOROUGHLY WATER TO ELIMINATE AIR POCKETS.

## TREE PLANTING, CONTAINER

NOT TO SCALE

CONSTRUCTION NOTES:

- A. SHRUB.
- B. BACKFILL WITH EXISTING SOIL.
- C. 3" DEPTH OF MULCH.
- D. 4" SPACE BETWEEN MULCH AND SHRUB.
- E. FINISH GRADE.
- F. 1:1 SLOPE ON SIDES OF PLANTING HOLE.
- G. UNDISTURBED SOIL.



GENERAL NOTES:

1. KEEP SOIL BELOW ROOT BALL UNDISTURBED TO PREVENT TREE FROM SETTLING.
2. REMOVE ANY EXCESS SOIL FROM TOP OF ROOTBALL TO EXPOSE ROOT FLARE (WHERE TOP MOST ROOT EMERGES FROM THE TRUNK). PLANT WITH ROOT FLARE LEVEL TO FINISH GRADE (OR 1"-2" HIGHER IN SLOWLY DRAINING SOIL).
3. REMOVE CONTAINER AND CUT ANY ROOTS THAT ARE CIRCLING THE CONTAINER.
4. TAMP SOIL FIRMLY AROUND BASE OF ROOTBALL WITH FOOT PRESSURE.
5. AT TIME OF PLANTING, ONLY PRUNE DEAD OR BROKEN BRANCHES.
6. DO NOT PLACE MULCH IN CONTACT WITH SHRUB, KEEP AT LEAST 4" AWAY FROM TRUNK.
7. AFTER PLANTING, THOROUGHLY WATER TO ELIMINATE AIR POCKETS.

## SHRUB PLANTING, CONTAINER

NOT TO SCALE

GENERAL NOTES:

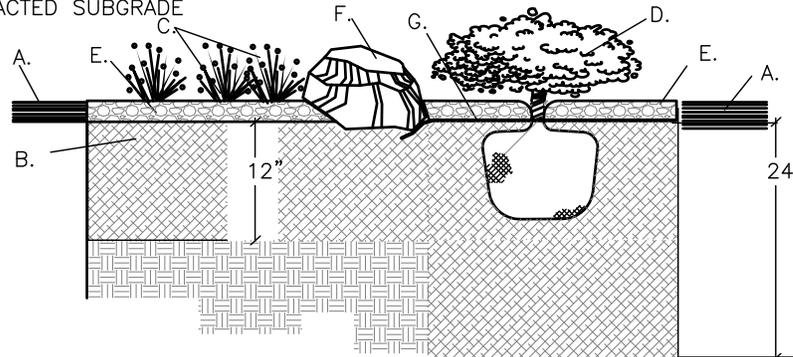
1. EXISTING SOIL WITHIN THE PLANTERS SHALL BE REMOVED AND REPLACED WITH THE SPECIFIED PLANTING SOIL MIXTURE,

SOIL MIXTURE:  
60% CLEAN NATIVE SOIL  
20% FINE SAND  
20% ORGANIC MATERIALS  
SEE SPECIFICATIONS.

2. BURY 1/3 OF BOULDER IN COMPACTED SUBGRADE

CONSTRUCTION NOTES:

- A. SIDEWALK, DRIVEWAY, PLAZA, ETC.
- B. PLANTING SOIL MIXTURE
- C. PERENNIAL PLANTINGS
- D. SHRUB PLANTINGS
- E. 3" AVG. DEPTH OF MULCH
- F. +12 CU. FT. LICHEN COVERED BOULDER
- G. FILTER FABRIC OR WEED BARRIER



## PERENNIAL & GROUNDCOVER PLANTING

NOT TO SCALE