

Judith Phillips Los Alamos Xeriscape Workshop

16 September 2006

UPLAND PLANT LIST

The following plants are adapted for use in the zones indicated:

OASIS ZONE PLANTS, noted by an O, are best used in limited areas that are either heavily used, close to buildings, within courtyards, or are outdoor extensions of living space.

TRANSITION ZONE PLANTS, noted by a T, are best used in areas that might be watered occasionally even after plants are well established, but are intended as low maintenance or enhancements of primarily native planting.

NATURAL ZONE PLANTS, noted by an N, are potentially native to the area and able to survive with no supplemental water once they are well rooted. Native trees noted by an * can be used in runoff catchment areas.

DECIDUOUS TREES

ASPEN/*Populus tremuloides* - O T

BIG TOOTH MAPLE/*Acer grandidentatum* - O T N*

CHOKECHERRY/*Prunus virginiana melanocarpa* - O T N*

CRAB APPLE/*Malus* cultivars - O

ELM HYBRIDS/*Ulmus* x 'Frontier' and 'Accolade' - O

FERN LEAF BUCKTHORN/*Rhamnus frangula 'Asplenifolia'* - O

FRAGRANT ASH/*Fraxinus cuspidata* - O T N*

FRUIT TREES:

APPLE/*Malus* cultivars - O

APRICOT/*Prunus armeniacum* - O

CHERRY/*Prunus* - O

NECTARINE/*Prunus* - O

PEACH/*Prunus persica* - O

PLUM/*Prunus* - O

GOLDEN RAINTREE/*Koeleruteria paniculata* - O T

HACKBERRIES:

NET LEAF HACKBERRY/*Celtis reticulata* - O T N

WESTERN HACKBERRY/*Celtis occidentalis* - O T

HAWTHORNS:

COCKSPUR HAWTHORN/*Crataegus persimilis* - O

RUSSIAN HAWTHORN/*Crataegus ambigua* - O

WASHINGTON HAWTHORN/*Crataegus phaenopyrum* - O

HONEY LOCUST/*Gleditsia triacanthos 'Inermis'* - O

JAPANESE SCHOLAR TREE/*Styphnolobium* syn. *Sophora japonica* - O

JUJUBE/*Zizyphus jujuba* - O T

KENTUCKY COFFEE TREE/*Gymnocladus dioica* - O

LANCE LEAF COTTONWOOD/*Populus acuminata* - O T N*

NEW MEXICO OLIVE/*Forestiera neomexicana* - O T N

OAKS:

BURR OAK/*Quercus macrocarpa* - O

GAMBEL OAK/*Quercus gambelii* - O T N

REDBUD/*Cercis Canadensis* - O T

SMOKE TREE/*Cotinus coggygia*

EVERGREEN TREES

BLUE ATLAS CEDAR/*Cedrus atlantica* 'Glauco' - O T

JUNIPERS:

'Hillspire' JUNIPER/*Juniperus virginiana* - O T

ONE SEED JUNIPER/*Juniperus monosperma* - O T N

ROCKY MOUNTAIN JUNIPER/*Juniperus scopulorum* female cultivars - O T N

OAKS:

EMORY OAK/*Quercus emoryii* - O T N*

SHRUB LIVE OAK/*Quercus turbinella* - O T N

PINES:

AUSTRIAN PINE/*Pinus nigra* - O T

BRISTLECONE/*Pinus aristata* - O T N

LIMBER PINE/*Pinus flexilis* - O T N

PINYON/*Pinus edulis* - O T N

PONDEROSA PINE/*Pinus ponderosa* - O T N

SCOT'S PINE/*Pinus sylvestris* - O T

SOUTHWESTERN WHITE PINE/*Pinus st obiformis* - O T N

VINES

ANEMONE CLEMATIS/*Clematis Montana* var, *rubens* - O

BOSTON IVY/*Parthenocissus tricuspidate* - O

GRAPES/*Vitis* cultivars - O T

SILVERLACE VINE/*Fallopia aubertii* - O T

WOODBINE/*Parthenosissus inserta* - O T N*

WESTERN VIRGIN'S BOWER/*Clematis ligusticifolia* - O T N*

WISTERIA/*Wisteria sinensis* - O

DECIDUOUS SHRUBS

APACHE PLUME/*Fallugia paradoxa* - O T N*

BLUE MIST/*Caryopteris clandonensis* - O T

BUSH PENSTEMON/*Penstemon ambiguus* - O T N

BUTTERFLY BUSHES:

DWARF BUTTERFLY BUSH/*Buddleia davidii nanhoensis* - O T

FOUNTAIN BUTTERFLY BUSH/*Buddleia alternifolia* - O T

CHAMISA/*Chrysothamnus nauseosus* – T N*

CLIFF FENDLERBUSH/*Fendlera rupicola* - O T N

CURRENTS:

CRANDALL CURRENT/*Ribes odoratum* - O T

GOLDEN CURRENT/*Ribes aureum* - O T N*

WAX CURRENT/*Ribes cereum* - O T N

CURRY PLANT/*Helichrysum angustifolium* - O T

FALSE INDIGO/*Amorpha fruticosa* - O T N

FENDLER MAHONIA/*Mahonia fendleri* - O T

FERNBUSH/*Chamaebatia millefolium* - O T N

FRINGE SAGE/*Artemisia frigida* - O T N

LEADPLANT/*Amorpha canescens* - O T N

LILACS:

CHINESE LILAC/*Syringa rothomagensis* and *vulgaris* - O

DWARF KOREAN LILAC/*Syringa meyeri* - O T

LITTLE LEAF MOCKORANGE/*Philadelphus microphylla* - O T N*

MONTANE MOUNTAIN MAHOGANY/*Cercocarpus montanus* - O T N

REDTWIG DOGWOOD/*Cornus sericea* - O T*

ROSES:

AUSTRIAN COPPER/*Rosa foetida bicolor* - O T

'Red Cascade' ROSE/*Rosa wichuriana* x '*Fioradora*' - O

WOODS ROSE/*Rosa woodsii* - O T N*

SHRUBBY CINQUEFOIL/*Potentilla fruticosa* - O T

SILVER BUFFALOBERRY/*Shepherdia argentea* - T N*

SNOWBERRY/*Symphoricarpos alba* - O

SQUAW APPLE/*Peraphyllum ramosissimum* - O T N

SUMACS:

DWARF ROCKY MOUNTAIN SUMAC/*Rhus glabra* '*Cistmontana*' - O T N

'Gro Low' SUMAC/*Rhus aromatica* cultivar - O T

LITTLE LEAF SUMAC/*Rhus microphylla* - O T N

PROSTRATE THREE LEAF SUMAC/*Rhus trilobate* '*Prostrate*' - O T N

THREE LEAF SUMAC/*Rhus trilobate* - O T N

UTAH SERVICEBERRY/*Amelanchier utahensis* - O T N

WESTERN SAND CHERRY/*Prunus besseyi* - O T N

WINTER JASMINE/*Jasminum nudiflorum* - O

WOLFBERRY/*Lycium pallidum* or *andersonii* – T N

EVERGREEN SHRUBS

ARTEMISIA SAGES:

BIGLEAF SAGE/*Artemisia tridentata* - O T N

THREAD LEAF SAGE/*Artemisia filifolia* - O T N

BURKWOOD VIBURNUM/*Viburnum burkwoodii* - O

CLIFFROSE/*Cowania* syn. *Purshia mexicana* - O T N

COTONEASTERS/*Cotoneaster dammeri* cultivars - O

FIRETHORN/*Pyracantha lelandii* - O

LAVENDER COTTON/*Santolina chamaecyparissus* and others- O T

LAVENDER/*Lavandula angustifolia* and x *intermedia* cultivars - O T

MAHONIAS:

ALGERITA/Berberis or Mahonia haematocarpa - O T N
BLUE ALGERITA/Berberis fremontii - O T N
COMPACT MAHONIA/Mahonia aquifolia 'Compacta' - O
CREEPING MAHONIA/Mahonia repens - O T

MOUNTAIN MAHOGANY:

CURL LEAF MOUNTAIN MAHOGANY/Cercocarpus ledifolius - O T N
DWARF CURL LEAF MOUNTAIN MAHOGANY/Cercocarpus intricatus - O T N

ROSEMARY/Rosmarinus officinalis 'Arp' - O

SALTBUSHES:

FOURWING SALTBUSH/Atriplex canescens - T N
GARDNER SALTBUSH/Atriplex gardneri - O T N
SHADSCALE/Atriplex confertifolia - O T N

SALVIA SAGES:

'Berg garten' SAGE/Salvia officinalis- O
GARDEN SAGE/Salvia officinalis - O
GIANT FLOWERED DESERT SAGE/Salvia pachyphylla - O T N
LAVENDER SAGE/Salvia lavandulifolia - O
PURPLE SAGE/Salvia officinalis 'Purpurascens' - O

SCOTCH BROOM/Cytisus scoparius 'Moonlight' and others - O

SHRUB-LIKE CACTUS AND SUCCULENTS

AGAVE/Agave parryi or neomexicana - O T N
BEARGRASS/Nolina texana - O T N
CANDLE CHOLLA/Opuntia kleiniae - O T N
CANE CHOLLA/Opuntia imbricate - T N
ENGELMANN PRICKLY PEAR/Opuntia engelmannii - O T N
PENCIL CHOLLA/Opuntia leptocaulis - O T N
PURPLE PRICKLY PEAR/Opuntia macrocentra - O T N
SPANISH DAGGER/Yucca baccata - O T N

WILDFLOWERS AND GARDEN PERENNIALS

ANGELITA DAISY aka PERKY SUE/Tetraneuris syn. Hymenoxys acaulis - O T N

ARTEMISIAS:

BEACH WORMWOOD/Artemisia stelleriana - O
'Powis Castle' ARTEMISIA/Artemisia hybrid - O
PRAIRIE SAGE/Artemisia ludoviciana - O T N*

ASPARAGUS - O T N*

'Basket of Gold' ALYSSUM/ Aurinia saxatile - O
BATH'S PINKS/Dianthus gratianopolitanus - O
BEARDED IRIS/Iris cultivars - O T
BLANKET FLOWER/Gaillardia species and hybrids - O T N
BLUE BUSH MINT/Zizophora clinopodiodes - O T

BLUE FLAX/*Linum lewisii* - O T N

BUBBLEGUM MINT/*Agastache cana* - O T N*

BUCKWHEATS:

JAMES BUCKWHEAT/*Eriogonum jamesii* - O T N

SULFUR BUCKWHEAT/*Eriogonum umbellatum* - O T N

WRIGHT'S BUCKWHEAT/*Eriogonum wrightii* - O T N

BUSH MORNING GLORY/*Ipomoea leptophylla* - O T N

CATMINTS:

CATMINT/*Nepeta mussini* - O T

'Six Hills Giant' and 'Walker's Low' - O T

CATMINT/*Nepeta x faassenii* cultivars - O T

CHIVES/*Allium schoenoprasum* - O

CHOCOLATE FLOWER/*Berlandiera lyrata* - O T N

'Colorado Gold' GAZANIA/*Gazania linearis* cultivar - O

CONEFLOWER or MEXICAN HAT/*Ratibida columnifera* - O T N

CORSICAN VIOLA/*Viola Corsica* - O

CREEPING BABY'S BREATH/*Gypsophila repens* - O

CREEPING GERANIUM/*Geranium macrorrhizum* - O

CROCUS/*Crocus* species and hybrids - O

CROWNSBEARD or COWPEN DAISY/*Verbesina encelioides* - O T N*

DESERT ZINNIA/*Zinnia grandiflora* - O T N

WHITE DESERT ZINNIA/*Zinnia acerosa* - O T N

DWARF GOLDENROD/*Solidago spathulata nona* - O T N*

ENGELMANN DAISY/*Engelmannia bipinnatifida* - O T N

EVENING PRIMROSES:

MEXICAN EVENING PRIMROSE/*Oenothera speciosa* - O T N*

ORGAN MOUNTAIN EVENING PRIMROSE/*Oenothera organensis* - O T N*

YELLOW EVENING PRIMROSE/*Oenothera macrocarpa* - O T

WHITE TUFTED EVENING PRIMROSE/*Oenothera caespitosa* - O T N

FERN VERBENA/*Gianularia bipinnatifida* and *wrightii* - O T N

FLAME FLOWER/*Talinum calycinum* - O T N

FRENCH TARRAGON/*Artemisia dranunculus* - O

GERMANDERS:

CUTLEAF GERMANDER/*Teucrium laciniatum* - O T N*

GERMANDER/*Teucrium chamaedrys* - O T

GREEK GERMANDER/*Teucrium aroanium* - O

GIANT FOUR O'CLOCK/*Mirabilis multiflora* - O T N

GAURA/*G. lindheimeri* - O T N

GAYFEATHER/*Liatris punctata* - O T N

GLOBEMALLOW:

DESERT GLOBEMALLOW/*Sphaeralcea ambigua* - O T N

GOOSEBERRY-LEAF GLOBEMALLOW/*Sphaeralcea grossularifolia* - O T N

SCARLET GLOBEMALLOW/*Sphaeralcea coccinea* - O T N

GOLDEN COLUMBINE/*Aquilegia chrysantha* - O T

GRAPE HYACINTH/*Muscari armeniacum* and others - O

HARDY AFRICAN DAISY/*Osteospermum baberiae* 'Compactum' - O

HOLLYHOCKS/*Alcea rosea* - O T

HORNED POPPY/*Giaucium flavum* - O T

HUMMINGBIRD TRUMPET/*Epilobium* syn. *Zauschneria canum* - O T

ICEPLANTS:

PURPLE ICEPLANT/*Delosperma cooperii* - O

YELLOW ICEPLANT/*Delosperma nubigenum* - O

INDIAN PAINTBRUSH/*Castilleja integra* and others - O T N

LAMB'S EAR/*Stachys lanata* - O T

LICORICE MINT/*Agastache rupestris* - O T N

MANFREDA aka TEXAS TUBEROSE/*Manfreda maculosa* - O T N*

MAXIMILIAN SUNFLOWER/*Helianthus maximiliani* - O T N*

ORNAMENTAL ONIONS:

GARLIC CHIVES/*Allium tuberosum* - O T

'SUMMER BEAUTY' ALLIUM/*Allium tanguticum* - O T

SWIRLING ONION/*Allium senescens* 'Glauco' - O

PAPERFLOWER/*Psilostrophe tagetes* - O T N

PARTRIDGE FEATHER/*Tanacetum densum amani* - O

PENSTEMON:

CARDINAL PENSTEMON/*Penstemon cardinalis* - O T N

DESERT PENSTEMON/*P. pseudospectabilis* - O T N

JAMES' PENSTEMON/*P. jamesii* - O T N

NARROWLEAF PENSTEMON/*P. angustifolius* - O T N

PALMER PENSTEMON/*P. palmeri* - O T N

PINELEAF PENSTEMON/*Penstemon pinifolius* - O T N

ROCKY MOUNTAIN PENSTEMON/*Penstemon strictus* - O T N

SCARLET BUGLER/*Penstemon barbatus* - O T N

SIDEBELLS PENSTEMON/*P. secundiflorus* - O T N

YELLOW PINELEAF PENSTEMON/*P. pinifolius* 'Mersea Yellow' - O T N

PERSIAN CORNFLOWER/*Centaurea dealbata* - O T

PRAIRIE SKULLCAP/*Scutellaria wrightii* - O T N

PRICKLY POPPY/*Argemone pheiakantha* - O T N

PURPLE ASTER/*Machaeranthera bigelovii* - T N

PURPLE CONEFLOWER/*Echinacea purpurea* - O T

PURPLE PRAIRIE CLOVER/*Dalea purpurea* - O T N

PUSSYTOES/*Antennaria species* - O T N

RUE/*Ruta graveolens* - O T

SALVIAS:

DWARF SILVER SAGE/*Salvia daghestanica* - O T

GRASS SAGE/*Salvia reptans* - O T

PITCHER SAGE/*Salvia azurea grandiflora* - O T N

SEDUMS:

'Autumn Joy ' SEDUM/*Sedum telephium* - O

BIG BLUE SEDUM/*S. hybrid* - O

'Matrona' SEDUM/*Sedum hybrid* - O

'Rosy Glow ' SEDUM/*Sedum x 'Rosy glow'* - O

SERBIAN BELLFLOWER/*Campanula poscharskyana* - O

SHOWY GOLDENEYE/*Viguiera multiflora* - O T N

SOAPWORT/*Saponaria ocymoides* - O

SUNDROPS/*Calylophus hartwegii* - O T N

SUNROSES/*Helianthemum nummularium* - O

THYMES:

COMPACT THYME/*Thymus minus* - O

ENGLISH THYME/*Thymus vulgaris* - O T

WOOLY THYME/*Thymus pseudolanuginosus* - O

TORCH LILY/*Kniphofia uvaria* - O T

VALERIAN/*Centranthus ruber* - O T

VARIEGATED BISHOP'S WEED/*Aegopodium podagraria* 'Variegatum' - O

VERONICAS:

'Blue Reflections' VERONICA/*Veronica pectinata* x *liwanensis* - O

SILVER SPEEDWELL/*Veronica incana* - O

WOOLY VERONICA/*Veronica pectinata* - O

WHIPLASH DAISY/*Erigeron flagellaris* - O T N*

WILD MARIGOLD/*Thymophylla pentachaeta* syn. *Dyssodia acerosa* - O T N

WILD PETUNIA/*Ruellia humilis* - O T N*

WINECUPS/*Callirhoe involucrata* - O T N

YARROWS:

'Cerise Queen', 'Red Beauty' and others/*Achillea millefolium* cultivars - O T

GREEK YARROW/*Achillea ageratifolia* - O T

'Moonshine' YARROW/*Achillea taygetea* - O T

WILD YARROW/*Achillea lanulosa* - T N*

YERBA MANSA/*Anemopsis californica* - O T N*

GRASSES

ALKALI SACATON/*Sporobolus airoides* - O T N

BIG BLUESTEM/*Andropogon gerardii* - O T N*

BLUE AVENA/*Helictotrichon sempervirens* - O T

BLUE FESCUE/*Festuca ovina* 'Glaucous' - O T N

'Siskiyou Blue' IDAHO FESCUE/*Festuca idahoensis* cultivar - O T N

BLUE GRAMA/*Bouteloua gracilis* - O T N

BUSH MUHLY/*Muhlenbergia porteri* - O T N

CANE BLUESTEM/*Bothriochloa barbinoides* - O T N

FEATHER REED GRASS/*Calamagrostis arundinacea* 'Karl Foerster' - O

GIANT SACATON/*Sporobolus wrightii* - O T N

INDIANGRASS/*Sorghastrum nutans* - O T N*

INDIAN RICEGRASS/*Achnatherum* syn. *Oryzopsis hymenoides* - O T N

'Jose Select' TALL WHEATGRASS/*Elytrigia elongata* cultivar - O T N*

JUNEGRASS/*Koeleria nitida* or *macrantha* - O T N

LITTLE BLUESTEM/*Schizachyrium scoparium* - O T N

PINE DROPSEED/*Biepharneuron tricollepis* - O T N

'Prairie Sky' SWITCHGRASS/*Panicum virgatum* cultivar - O T N*

PURPLE THREEAWN/*Aristida purpurea* - O T N

SAND BLUESTEM/*Andropogon hallii* - O T N

SAND LOVEGRASS/*Eragrostis tricoles* - O T N

SIDEOATS GRAMA/*Bouteloua curipendula* - O T N

WESTERN WHEAT/*Andropogon smithii* - O T N

PLANT SELECTION

The living landscape is the refinement of the built space, makes outdoor living more comfortable and compelling by evaporative cooling filtering wind and sun, scenting the air and attracting pollinators and songbirds that animate the shared habitat.

Physical attributes: size and shape of plants

- X=smaller trees; compact, mounded shrubs; deeper roots seasonal color: foliage/flowers

- X=small, thick leaves; waxy cuticles; light-reflective surfaces;

- fade-resistant bright flower colors attract and conceal pollinators;

- night blooming fragrant flowers attract moth pollinators

Adaptations: heat, cold, light intensity, wind, soil type

- X=deep roots buffered from surface temperatures

- X=self-shading glaucous/glabrous foliage

- X=limber stems flex in wind

- X=extensive root network captures available water

Plant roles in the landscape: developing a plant community

- Begin at the top and work down as the largest plants define the space available around them and set the moisture regime for their companions

- Canopy: trees and vines

- X=place the plants that need the most moisture in or near rainfall catchments

- X=as the canopy develops the space beneath is more protected

Screening and enclosure: trees and large shrubs (6ft+)

- X=buffer wind and reduce evaporation

Defining space: small shrubs and large perennials (1ft to 5ft)

- X=generally the most water-efficient plants

Groundcovers: low-spreading shrubs, herbaceous perennials, and prairie grasses

- X=shade the soil, reduce glare heat absorbed by and reflected from the soil

- X=large areas of small individual plants watered with sprinklers lose more water to evaporation

Accent specimens: sculptural small trees and succulents and cacti and large grasses

- X=provide focus with little water

- X=filter runoff in catchments