

Arizona Department of Water Resources
Tucson Active Management Area

Low Water Use/
Drought Tolerant
Plant List



Official Regulatory List for the Tucson Active Management Area
Fourth Management Plan

Arizona Department of Water Resources
1110 W. Washington St. Ste. 310
Phoenix, AZ 85007
www.azwater.gov
602-771-8585



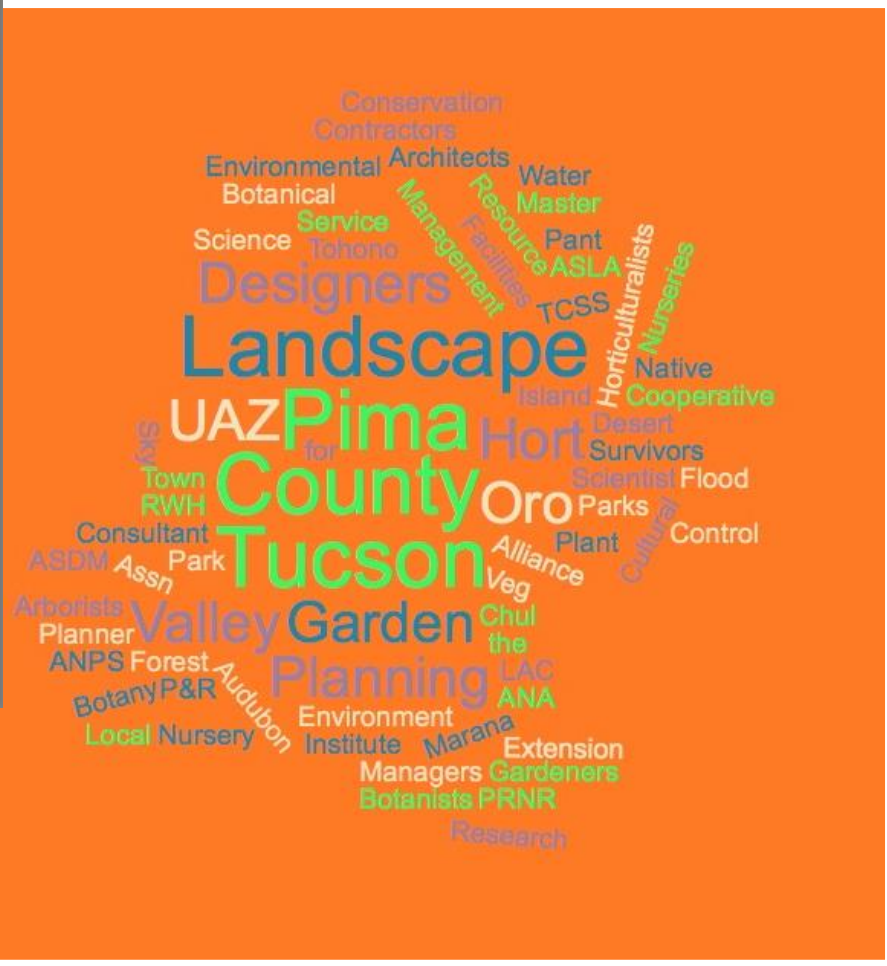
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Landscape Design West (APLD), AAA Landscaping, AMWUA, ANA, Arborist, UA Arboretum Founder, Arc Studio (PLA), Arid Lands Greenhouses, Arid Zone Trees, ASDM, ASDM – Botany, ASDM - horticulturist + LA, ASDM (Cons Research Scientist), ASIC, ASLA, ASLA, ASLA, LAC, Wheat Design Group, Author, Botanist Author, Botanist Author, Plant Biologist Author, RWH Consultant Author, Zona Gardens, AZ Sonora Desert Museum, B&B Cactus Garden/MesqVly, Bachs Greenhouse Cactus Nursery, Botanist, ASDM Curator Nat Hist, Boyce Thompson, Cactus Expert, TCCS Pres., Cactus Expert, TCCS VP, Civano Nursery, Clement Design (PLA), COT P&R, COT, LAC, ASLA Desert Horticulture, Desert Survivors, Desert Survivors (from Jen Becker), Design Collaborations PLA + ASLA Designer Dir., UAZ Arboretum, former TBG Exec. Dir. (& water person & former LAC member), Garden Designer, Artist Gardener, Tucson Botanical Gardens, GreenThings , Groundskeeper - Tucson N., Groundskeeper - Tucson S, Harlows Gardens, Harris Environmental, Hort. Mgr, Tucson Botanical Gardens, Institute of the Environment, Landscape Design West (APLD), LAC , LAC, Architect Lead Gardener, Tucson Botanical Gardens, Magic Garden Nursery, MSWN, Novak Environmental, NPS - Saguaro NP, Ecologist Nursery Owner - P4SW, NW Landscaping Contractor, Oro Valley Park Director, Oro Valley Planning, Oro Valley Water Conservation, P4SW, PC DS, PC RFC, PCMasterGdner, Pima County Coop Extension, Pima County Native Plant Nursery, Plant person, Plant Science, UAZ Prof. Land Arch, Plant Ecology UAZ, RECON, ReCon, Red Bark Design (ASLA), retired Coop Ag agent , SERI, Silverbell Nursery, Sky Island Alliance, Sonoran Oasis Landscaping, SoWestVegMgt Assn. , T4T Tohono Chul Park, Retired TDOT (PLA), TEP, TNC, Plant Ecologist Tohono Chul Park, Town of Marana Parks, Tucson Audubon Society, Tucson Botanical Garden, UA Planning & Facilities (PLA), UAZ Plant Science, USFS, WaterCASA, Westland Resources, Wheat Design Group, WMG

LOW WATER PLANT LIST - DROP RECOMMENDATIONS

TREES

DROP	WU*	Botanical Name	Common Name	Plant Type	Origin	
XX	1	<i>Acacia (Racosperma) craspedocarpa</i>	Leather-Leaf Acacia	T/S	Aust	This is an old
XXX	2	<i>Acacia aneura</i>	Mulga	T	Aust	not cold hardy
XXX	2	<i>Acacia cultriformis</i>	Knife Acacia	T/S	Aust	not cold hardy
XXXXXXXX	2	<i>Acacia salicina</i>	Cooba	T	Aust	not cold hardy
XXXX	2	<i>Acacia saligna</i>	Orange Wattle	T	Aust	Short-lived, h
XXX	2	<i>Acacia stenophylla</i>	Dalby Myall, Shoestring Acacia	T	Aust	Scabby lookir
XXXX	3	<i>Acca (Feijoa) sellowiana</i>	Feijoa, Pineapple Guava	T/S	SA	high water; M
XXX	2	<i>Allocasuarina verticillata</i>	Drooping She-Oak	T	Aust	Scabby lookir
XX	2	<i>Brachychiton populneus</i>	Bottle Tree	T	Aust	
X	3	<i>Brahea armata</i>	Mexican Blue Palm	T	SD	change WU to
XXXX	3	<i>Callistemon citrinus</i>	Crimson Bottlebrush	T/S	Aust	Lemon Bottle
XXXX	2	<i>Casuarina cunninghamiana</i>	River She-Oak	T	Aust	not cold hardy
X	3	<i>Celtis reticulata</i>	Netleaf Hackberry	T	SD, CD	change WU to
XXXX	3	<i>Ceratonia siliqua</i>	St. John's Bread Tree, Carob	T	Med	not cold hardy
XXXX	3	<i>Cercis canadensis var. mexicana</i>	Mexican Redbud	T/S	CD	Underused w
XXX	3	<i>Chamaerops humilis</i>	European Fan Palm	T, AC	EU	change WU to
XX	3	<i>Chilopsis linearis</i>	Desert Willow	T/S	SD, CD	Use native va
X	2	<i>Condalia globosa</i>	Bitter Snakewood	T/S	SD	not cold hardy
XX	2	<i>Cordia boissieri</i>	Anacahuita, Texas Olive	T/S	CD	aka Texas Oli
XXXX	3	<i>Cupressus arizonica</i>	AZ Cypress	T	SD, CD	High water, bi
X	3	<i>Cupressus arizonica var. glabra</i>	Smooth Bark Cypress	T	SD	High water, bi
XXXXXXXXXX	3	<i>Dalbergia sissoo</i>	Indian Rosewood	T	India	not cold hardy somewhat inv
XX	2	<i>Dermatophyllum secundiflorum</i>	Mescal Bean	T/S	CD	Bot. Name? T
XX	2	<i>Ebenopsis ebano</i>	TX Ebony	T	CD	excellent ever
XXXXXXXXXXXXXX	3	<i>Eucalyptus camaldulensis</i>	River Redgum	T	Aust	Very large, ca
XXXXXXX	2	<i>Eucalyptus campaspe</i>	Silver-Top Gimlet	T	Aust	not cold hardy
XXXXXXX	2	<i>Eucalyptus formanii</i>	Forman's Eucalyptus	T	Aust	not cold hardy
XXXXXXX		<i>Eucalyptus leucoxylon 'Rosea'</i>	Pink Ironbark			Change WU to
XXXXXX	2	<i>Eucalyptus microtheca</i>	Coolibah	T	Aust	
XXXXXX	2	<i>Eucalyptus papuana</i>	Ghost Gum	T	Aust	not cold hardy
XXXXXX	2	<i>Eucalyptus polyanthemos</i>	Redbox	T	Aust	too large, limt
XXXXXXX	2	<i>Eucalyptus rudis</i>	Western Austrn Floodedgum	T	Aust	not cold hardy
XXXXXXX	2	<i>Eucalyptus sargentii</i>	Salt River Mallee	T	Aust	not cold hardy
XXXXXX	2	<i>Eucalyptus spathulata</i>	Swamp Mallee	T	Aust	not cold hardy
X	2	<i>Eysenhardtia orthocarpa</i>	Tahitian Kidneywood	T	SD, CD	Tahitian, rally
YY	3	<i>Eysenhardtia texana</i>	TX Kidneywood	T	CD	1

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XXX	2	<i>Acacia cultriformis</i>	Knife Acacia	T/S	Aust	not cold hard
XXXXXXXX	2	<i>Acacia salicina</i>	Cooba	T	Aust	not cold hard
XXXX	2	<i>Acacia saligna</i>	Orange Wattle	T	Aust	Short-lived, h
XXX	2	<i>Acacia stenophylla</i>	Dalby Myall, Shoestring Acacia	T	Aust	Scabby lookir
XXXX	3	<i>Acca (Feijoa) sellowiana</i>	Feijoa, Pineapple Guava	T/S	SA	high water; M
XXX	2	<i>Allocasuarina verticillata</i>	Drooping She-Oak	T	Aust	Scabby lookir
XX	2	<i>Brachychiton populneus</i>	Bottle Tree	T	Aust	
X	3	<i>Brahea armata</i>	Mexican Blue Palm	T	SD	change WU to
XXXX	3	<i>Callistemon citrinus</i>	Crimson Bottlebrush	T/S	Aust	Lemon Bottle
XXXX	2	<i>Casuarina cunninghamiana</i>	River She-Oak	T	Aust	not cold hard
X	3	<i>Celtis reticulata</i>	Netleaf Hackberry	T	SD, CD	change WU to
XXXX	3	<i>Ceratonia silqua</i>	St. John's Bread Tree, Carob	T	Med	not cold hard
XXXX	3	<i>Cercis canadensis var. mexicana</i>	Mexican Redbud	T/S	CD	Underused w
XXX	3	<i>Chamaerops humilis</i>	European Fan Palm	T, AC	EU	change WU to
XX	3	<i>Chilopsis linearis</i>	Desert Willow	T/S	SD, CD	Use native va
X	2	<i>Condalia globosa</i>	Bitter Snakewood	T/S	SD	not cold hard
XX	2	<i>Cordia boissieri</i>	Anacahuita, Texas Olive	T/S	CD	aka Texas Oli
XXXX	3	<i>Cupressus arizonica</i>	AZ Cypress	T	SD, CD	High water, bi
X	3	<i>Cupressus arizonica var. glabra</i>	Smooth Bark Cypress	T	SD	High water, bi
XXXXXXXX	3	<i>Dalbergia sissoo</i>	Indian Rosewood	T	India	not cold hard; somewhat inv
XX	2	<i>Dermatophyllum secundiflorum</i>	Mescal Bean	T/S	CD	Bot. Name? T
XX	2	<i>Ebenopsis ebano</i>	TX Ebony	T	CD	excellent ever

DROP	WU*	Botanical Name	Common Name	Plant Type	Origin	
XXXXXXXXXXXX	3	<i>Eucalyptus car</i>				though; This tree is also having some issues, i
XXXXXXXX	2	<i>Eucalyptus car</i>				disease prone (witches broom); This hybrid is
XXXXXXXX	2	<i>Eucalyptus for</i>				though; scale is killing this tree; stop planting!
XXXXXXXX		<i>Eucalyptus leu</i>				and cured, it should not be used in the landsc
XXXXXXXX	2	<i>Eucalyptus mic</i>				
XXXXXXXX	2	<i>Eucalyptus pag</i>				Change WU to 1; Usually called Foothill or Litt
XXXXXXXX	2	<i>Eucalyptus pol</i>				This tree is also having some issues, similar to
XXXXXXXX	2	<i>Eucalyptus pol</i>				Change WU to 1; PV disease problems
XXXXXXXX	2	<i>Eucalyptus rud</i>				
XXXXXXXX	2	<i>Eucalyptus ser</i>				not cold hardy enough
XXXXXXXX	2	<i>Eucalyptus sps</i>				Trash Tree, bark and insect issues that can ca
X	2	<i>Eysenhardtia o</i>				
YY	3	<i>Eysenhardtia t</i>				
XXXX	2	<i>Parkinsonia hybrid "Desert Museum"</i>	Desert Museum Palo Verde	T	SD, CD	
X	1	<i>Parkinsonia microphylla</i>	Yellow Palo Verde	T	SD	
XX	2	<i>Parkinsonia praecox</i>	Palo Brea	T	SD	
XXX	1	<i>Parkinsonia x sonorae</i>	Sonoran Palo Verde	T	SD	
XXX	2	<i>Phoenix canariensis</i>	Canary Island Date Palm	T	No AF	
XX	2	<i>Phoenix dactylifera</i>	Date Palm	T	Asia	
XXXXXXXX	2	<i>Pinus brutia var. eldarica</i>	Afghan Pine	T	Asia	
XXX	2	<i>Pinus edulis</i>	Two Needle Pinyon	T	AZ, NM	Pinon
XXXXXXXX	2	<i>Pinus halepensis</i>	Aleppo Pine	T	Med	Disease prone (beetle) due to high water need
XXX	2	<i>Pinus monophylla</i>	Singleleaf Pinyon Pine	T	NAZ	Singleleaf Pinon Pine
XXXX	2	<i>Pinus pinea</i>	Italian Stone Pine	T	Med	
XXXXX	3	<i>Pinus roxburghii</i>	Chir Pine	T	Asia	
XXXX	2	<i>Pistacia atlantica</i>	Mt. Atlas Mastic Tree	T	Med	Change WU to 2; Mt. Atlas Pistacia
XXXX	3	<i>Pistacia atlantica x integerrima</i>	Red Push Pistache	T	Asia	I would change this to a 2 for water
XXXX	3	<i>Pistacia chinensis</i>	Chinese Pistache	T	Asia	
X	2	<i>Pistacia vera</i>	Pistachio Nut	T	Asia	
XXX	2	<i>Pittosporum phillyraeoides</i>	Willow Pittosporum	T	Aust	
XXX	2	<i>Prosopis hybrid</i>	San Mesquite	T	SA	and cultivars; Hybrid mesquites are invasive; i
X	2	<i>Prosopis glandulosa</i>	Honey Mesquite	T	CD	
XX	2	<i>Prosopis pubescens</i>	Screwbean Mesquite	T	SD, CD	
	2	<i>Prosopis velutina</i>	Velvet Mesquite	T	SD	1??; best native tree in our region
X	3	<i>Punica granatum</i>	Pomegranate	T/S	India	
X	3	<i>Quercus arizonica</i>	AZ White Oak	T	SD, CD	Super high water usage
XXXXXX	3	<i>Quercus buckleyi</i>	TX Red Oak	T	W TX	I would think the WU for these oaks would var

TREE ADDITIONS

	WU*	Botanical Name	Common Name	Plant Type	Origin	
	2	<i>Acacia aneura</i> 'Cold Snap'	Cold Snap Mulga	T	Aust	
	2	<i>Acacia brachystachya</i>	Umbrella Wattle	T/S	Aust	
	2	<i>Acacia cavenia</i>	Cavenia Acacia	T	SD, CD	
		<i>Acacia constricta</i>				
	1	<i>Acacia eburnia</i>	Needle Acacia	T	SD, CD	
XX	2	<i>Acacia farnesiana</i> Sweet Sierra™	Sweet Sierra Acacia (podless)	T		
	2	<i>Acacia minuta</i> (smallii)	Southwestern Sweet Acacia	T,S,	SD, CD	
		<i>Acacia occidentalis</i>	Big Acacia	T	Son and s.	
XX	3	<i>Acacia pendula</i>	Weeping Myall	T	Aust	
	2	<i>Acacia pruinocarpa</i>	Black Gidgee	T/S	Aust	
	1 or 2	<i>Acacia schaffneri</i>	Twisted Acacia	T	CD	
XX	1 or 2	<i>Acacia willardiana</i>	Palo Blanco	T	SD	
	2	<i>Bauhinia forticata</i>	White Butterfly Orchid Tree		SA	
	2	<i>Bauhinia lunarioides</i>	Anacaho Orchid	T		
		<i>Brachychyton rupestris</i>	Queensland Bottle Tree	T	Aus	
	1	<i>Bulnesia retama</i>	Retama	T/S	SA	
XX	1 or 2	<i>Bursera microphylla</i>	Elephant Tree	T/S	SD	
	2	<i>Caesalpinia mexicana</i> 'Big Bird'	Big Bird Mexican Bird of Paradise	T	SD	
		<i>Celtis palida</i>	Desert Hackberry			
	2	<i>Cercis canadensis</i> var. <i>texensis</i>	Texas red bud	T		
	2	<i>Chil. linearis</i> LOPUR PPAF	Desert Diva™	T		
	3	<i>Chitalpa</i> 'Morning Cloud'	Morning Cloud Chitalpa	T		
		<i>Chodala</i> <i>occidentalis</i> and <i>C. linearis</i>	Silk flag tree	T	Ball, Aus	

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	2	<i>Acacia brachystachya</i>	Umbrella Wattle	T/S	Aust
	2	<i>Acacia cavenia</i>	Cavenia Acacia	T	SD, CD
		<i>Acacia constricta</i>			
	1	<i>Acacia eburnia</i>	Needle Acacia	T	SD, CD
XX	2	<i>Acacia farnesiana</i> Sweet Sierra™	Sweet Sierra Acacia (podless)	T	
	2	<i>Acacia minuta</i> (smallii)	Southwestern Sweet Acacia		
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		<i>Brachychyton rupestris</i>	Queensland Bottle Tree		
	1	<i>Bulnesia retama</i>	Retama		
XX	1 or 2	<i>Bursera microphylla</i>	Elephant Tree		
	2	<i>Caesalpinia mexicana</i> 'Big Bird'	Big Bird Mexican Bird of Paradise		
		<i>Celtis palida</i>	Desert Hackberry		
	2	<i>Cercis canadensis</i> var. <i>texensis</i>	Texas red bud		
	2	<i>Chil. linearis</i> LOPUR PPAF	Desert Diva™		
	3	<i>Chitalpa</i> 'Morning Cloud'	Morning Cloud Chitalpa		
		<i>Chorisia speciosa</i> and <i>C. insignis</i>	Silk floss tree		

	2	<i>Eremophila hygrophana</i>	Blue Belts™ Emu	S	Austr.
XX		<i>Erythrina flabelliformis</i>	Coralbean	S	CD
		<i>Evolvulus arzonica</i>	Arizona blue eyes	S	SD
XXXX	1 or 2	<i>Fallugia paradoxa</i>	Apache plume	S	SD
	1 or 2	<i>Forestiera neomexicana</i>	Desert Olive	S	SD
		<i>Fouquieria splendens</i>			
XXXX		<i>Gossypium thurberi</i>	Desert cotton	S	SD
		<i>Guardiola platyphylla</i>	Apache plant	S	SW
		<i>Haplophyton crockallii</i>	Cockroach plant	S	SD
		<i>Hibiscus biseptis</i>			
XX		<i>Hibiscus coulteri</i>	Coulter's hibiscus	S/P	SD
XXX	2	<i>Hibiscus denudatus</i>	Rock Hibiscus	S	SD
		<i>Isocoma tenuisecta</i>	Burroweed	S	
		<i>Jacquemontia pringlei</i>	Pringle's clustervine	S	SD
		<i>Jatropha cuneata</i>	Limberbush	S	SD
		<i>Justicia californica</i>			
		<i>Justicia longii</i>			
		<i>Justicia sonora</i>			
		<i>Koeberlinia spinosa</i>			
XX		<i>Lycium berlandieri</i>	Berlandier's wolfberry	S	
	1	<i>Lycium brevipes</i>	Baja Wolfberry	S	SD
		<i>Lysitoma watsoni</i>			
	3	<i>Malvastrum arborea</i>	Turk's Cap	S	TX
		<i>Nerium oleander</i>			
		<i>Parthenium incanum</i>	Marioia		
	3	<i>Phlomis fruticosa</i>	Jerusalem sage	S	Med
XX		<i>Pluchea sericea</i>	Arrowweed	S	SD
		<i>Plumbago scandens</i>	White Desert Plumbago	S	
		<i>Psoralea argyrea</i>			
	1	<i>Salvia apiana</i>	White Sage	S	SD, CA
		<i>Salvia parryi</i>			
	1	<i>Salvia X</i>	Carl Nielson Sage	S	
	1	<i>Senna aphylla</i>	Leafless Senna	S	SA
XX	2	<i>Solanum hindianum</i>	Baja/Sonoran Nightshade	S	SD
XX	2	<i>Tecoma hybrids</i>		S	
XX	2	<i>Tithonia fruticosa</i>	Mexican Tree Sunflower	S	SD, Mex
	2	<i>Vachellia schottii</i>	Schott's Acacia	S	CD
	2	<i>Vachellia vermicosa</i>	Chihuahuan whitethorn	S	CD
XXXX		<i>Vauquelinia californica</i>	Arizona rosewood	S	SD
	3	<i>Viguiera deltoidea</i>	Goldeneye	S	SD
XXXXXX	1	<i>Ziziphus obtusifolia</i>	Graythorn	S	SD, SW
		<i>Leucophyllum laevigatum</i>	Chihuahuan Sage		
	1	<i>Courseletia glandulosa</i>	Courseletia		
		<i>Aravia berlandieri</i>	Resilla		

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Telephone (602) 771-8585

APPLICATION FOR MODIFICATION OF THE
LOW WATER USE/DROUGHT TOLERANT PLANT LIST

Please type or print clearly. Send signed original and applicable botanical references to the AMA office at the address listed above.

1. Active Management Area which application for modification is being made:
 Prescott Phoenix Pinal Tucson Santa Cruz

2. Plant to be considered for addition or deletion:

GENUS	SPECIES	CULTIVAR	COMMON NAME
_____	_____	_____	_____

3. ADDITION DELETION

4. Type of Plant

- Groundcover
 Annual Wildflower
 Grass
 Shrub
 Succulent
 Perennial Wildflower
 Vines

5. Hardiness in Phoenix:

- Tender
 Tolerates Frost
 Semi-Tender

6. Light Requirements:

- Full Sun
 Partial Shade
 Total Shade

7. Area of Intended Use:

- Rest Stop
 Other _____
 Median Strip

10. How soon do you intend to use this plant? _____

11. Describe your past experience in working with this plant. How long has it been grown in Phoenix? _____

12. How is the plant propagated? _____

13. Is the plant generally available? YES NO

14. Briefly describe why you feel this plant should be added/deleted from the low water using plant list. _____

Name of Applicant (Print) _____ Address _____
Title and Organization _____ Phone _____

8. Irrigation Requirements:

- Requires no supplemental irrigation (normal rainfall sufficient)
 Requires deep irrigation several times each year for best growth and appearance
 Requires regular but widely spaced irrigation for growth and acceptable appearance.

9. Intended Irrigation Method:

- Drip
 Flood
 Natural Precipitation
 Sprinkler
 Other _____
(Specify) _____

Signature _____	Date _____
Signature _____	Date _____

RESOURCES
T AREA
LIST
IN PROCESS

resources as a regulatory document in both the

at Plan: 2000 - 2010, "The municipal provider or landscaping plants planted on or after January 1, 1987 curb or shoulder that is used for travel in any section 5-L. The director may waive this requirement if the municipal provider or individual user can demonstrate that the plant is on the 2000-2010 Low Water Use Plant List for the Phoenix area and that the plant is currently not on the publicly owned or managed list. This requirement does not apply to..."

The purpose of the requirement is twofold. First, to reduce the amount of water used for right-of-way landscaping. Second, to set an example for the public by landscaping these highly visible areas with low water use plant materials.

LIST DEVELOPMENT

The Low Water Using Plant List for the Phoenix AMA was compiled by the Department in cooperation with the Arizona Municipal Water Users' Landscape Technical Committee (AMWUA LTC). The committee is comprised of experts from the Desert Botanical Garden, Arizona Department of Transportation and various nurseryman and landscape specialists from the Phoenix AMA.

MODIFICATION

A person who seeks to add a plant or plants to the Low Water Using Plant List for an AMA or to delete a plant or plants from the list may apply at any time to the Director of the Department of Water Resources for a modification of the list. Application forms for modification to the list are available from the AMA. Applications are reviewed by the AMWUA LTC for possible addition or deletion to the list. The applicant is invited to attend the meeting to discuss their proposed addition(s) or deletion(s).

Information on actual consumptive use of landscape plants is currently not available. Therefore, the recommendation of the AMWUA LTC is based on a review of how the plant performs in limited water use conditions and its ability to rejuvenate itself when more water is available.

Recommendations from the AMWUA LTC are forwarded to the Director for determination. The revisions to the list are then published in an addendum and/or incorporated into the list. The modification process takes 30-60 days upon receipt of the application.

Request to Waive the Requirement

Pursuant to the Fourth Management Plan for the Tucson Active Management Area sections 5-709(A)(3) and 6- 1302(4), the director may waive the requirement to use plants on the low water use/drought tolerant plant list if the water user demonstrates to the satisfaction of the director that the plants on the list cannot grow in a publicly owned right-of-way because of high elevation or low light conditions, such as a freeway underpass. Those who wish to request a waiver should submit their request in writing or by email to:

Einav Henenson, AMA Director

Arizona Department of Water Resources

1110 W. Washington St., Ste. 310 Phoenix, AZ 85007

ehenenson@azwater.gov

The following information should be included:

Description of the location of the publicly owned right-of way

Map showing the location of the right-of way and the place where plants will be located

Scientific and common name of the plant under consideration

Description of plant's water needs, including references