Landscape Design Manual

Pima County Development Services
Planning Division

Pima County
Development Services

LANDSCAPE DESIGN MANUAL

THIS MANUAL CONTAINS REFERENCES AND STANDARDS NEEDED TO IMPLEMENT THE REQUIREMENTS OF THE PIMA COUNTY, ARIZONA ZONING CODE; CHAPTER 18.73, LANDSCAPING, BUFFERING AND SCREENING STANDARDS.

PIMA COUNTY DEVELOPMENT SERVICES, PLANNING DIVISION

201 NORTH STONE AVENUE, TUCSON, ARIZONA 85701

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Cover Photo: Plants for Dry Climates,, HP Books, Duffield & Jones

BUFFERYARD REQUIREMENTS FOR SECTION 18.73.040

A. Illustrations I through VI depict the bufferyards required between two uses. The number of plant units required per one hundred linear feet of yard are specified, and options of these plant units are illustrated which vary by alternate permitted width of the yards. The types of plants for each bufferyard are specified. The requirements may be satisfied by any of the options illustrated.

B. The "plant unit multiplier" is a factor by which the basic number of plant materials required for a given bufferyard is determined given a change in the width of that yard.

C. Existing plants may be used to satisfy the requirements.

D. When a wall, fence or berm is required within a bufferyard, it is identified as a "structure required," and its specifications are given. Required structures are the responsibility of the higher intensity use.

E. Within a bufferyard containing a fence or masonry wall:

1. At least fifteen percent of the total plants required shall be located between the fence or wall and the higher intensity use;
2. Suitable species and varied heights of plants shall be chosen to effectively break up and absorb sound; and
3. The wall or fence shall be located between the berm and the higher intensity use.

F. Bufferyard areas not covered with required plants, inorganic groundcover or established ground cover shall be seeded with a desert plant seed mix.

Table 1: BUFFERYARD REQUIREMENTS (Minimum Bufferyard Required)

Proposed Use/Zone	IR	GC	SRa	SR-2	RH	CR-1	ML	GR-1	CR-2	CR-3	SH	CR-4	CR-5	CMH-1	CMH-2	TRa	TH	MR	RVC	CB-1a	CB-2a	MUa	CPI	CI-1	CI-2	CI-3	Public Street - Front Yard	Public Street - Side or Rear Yard	Scenic Route	Gateway Route	Major Highway
IR Institutional Residential[2]	D^2a	D^2	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2			D^2a	D^2a	D^2a					A^2	C^2	D^2	D^2	D^2
GC Golf Course																											B	B	B	B	B
SR Suburban Ranch[2]	D^2a	D^2	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	C^2	C^2	C^2a	C^2a	C^2a	C^2		C^2	C^2a	C^2a	C^2a					B^2	C^2	D^2	D^2	D^2
SR-2 Suburban Ranch Estate[2]	D^2a	D^2	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	C^2	C^2	C^2a	C^2a	C^2a	C^2		C^2	C^2a	C^2a	C^2a					B^2	C^2	D^2	D^2	D^2
RH Rural Homestead[2]	D^2a	D^2	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2		C^2	C^2a	C^2a	C^2a					A^2	C^2	D^2	D^2	D^2
CR-1 Single Residential	D^2a	D^2	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2		C^2	C^2a	C^2a	C^2a					A^2	C^2	D^2	D^2	D^2
ML Mount Lemmon																															
GR-1 Rural Residential[2]	D^2a	D^2	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2		C^2	C^2a	C^2a	C^2a					A^2	C^2	D^2	D^2	D^2
CR-2 Single Residential	D^2a	D^2	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2		C^2	C^2a	C^2a	C^2a					A^2	C^2	D^2	D^2	D^2
CR-3 Single Residential	Ca	C	Ca	Ca	Ca	C	C	C	C	C^2a	C																A^2	C	C	C	C
SH Suburban Homestead	D^2a	D^2	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2a	D^2		C^2	C^2a	C^2a	C^2a					A^2	C^2	D^2	D^2	D^2
CR-4 Mixed Dwelling	Ca	C	Ca	Ca	Ca	C	C	C	C	C	C			C													A	C	D	D	D
CR-5 Multiple Residence	Ca	C	Ca	Ca	Ca	C	C	C	C	C	C	C		C													A	C	D	D	D
CMH-1 Manufactured and Mobile Home[1]	C^1a	C^1	C^1a	C^1a	C^1a	C^1	C^1	C^1a	C^1	C^1	C^1																A	D	D	D	D
CMH-2 Manufactured and Mobile Home[1]	D^1a	D^1	D^1a	D^1a	D^1a	D^1	D^1	D^1a	D^1	D^1	D^1	D^1	D^1	D^1													B	D	D	D	D
TR Transitional	Da	D	Da	Da	Da	D	D	Da	D	D	D	D	D	D	D		D										B	C	D	D	D
TH Trailer Homesite[1]	D^1a	D^1	D^1a	D^1a	D^1a	D^1	D^1	D^1a	D^1	D^1	D^1	D^1	D^1	D^1	D^1	D^1			D^1								B	D	D	D	D
MR Major Resort	Da	D	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	D			Da	Da	Da					B	D	D	D	D
RVC Rural Village Center	Da	D	Da	Da	Da	D	D	Da	Da	Da	Da	Da	Da	Da	Da	Da	D			Ca	Ca	Da					A	D	D	D	D
CB-1 Local Business	D	D	Da	Da	Da	D	D	Da	D	D	D	D	D	D	D	Da	D	D	D	Ca		Da					A	D	D	D	D
CB-2 General Business	D	D	Da	Da	Da	D	D	Da	D	D	D	D	D	D	D	D	D	D	D	Da	Da	Da					B	D	D	D	D
MU Multiple Use	D^2a	D	Da	Da	D^2a	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	D	D	D	Da	Da	Da					A	D	D	D	D
CPI Campus Park Industrial	D	D	Da	Da	Da	D	D	Da	D	D	D	D	D	D	D	Da	D	D	D	Da	Da	Da					B	D	F	F	F
CI-1 Light Industrial	F	F	Fa	Fa	F	F	F	Ea	F	F	F	F	F	F	F	F	F	E	E	E	E	Ea	F				B	E	G	G	F

Existing Adjacent Use/Zone

Streetscape Bufferyards

Table 1: BUFFERYARD REQUIREMENTS (Minimum Bufferyard Required)

	IR	GC	SRa	SR-2	RH	CR-1	ML	GR-1	CR-2	CR-3	SH	CR-4	CR-5	CMH-1	CMH-2	TRa	TH	MR	RVC	CB-1a	CB-2a	MUa	CPI	CI-1	CI-2	CI-3	Public Street - Front Yard	Public Street - Side or Rear Yard	Scenic Route	Gateway Route	Major Highway
CI-2 General Industrial	F	G	Ga	Ga	F	G	G	F	G	G	G	G	G	G	G	G	G	F	F	F	F	F	F	F			B	F	H	H	G
CI-3 Heavy Industrial	G	H	Ha	Ha	G	H	H	G	H	H	H	H	H	H	H	H	H	G	G	G	G	G	F	F	E		B	G	I	I	H
115 KVA Substations	J	I	Ja	Ja	J	J	J	J	J	J	J	J	J	J	J	J	J	H	I	I	I	J	I	H	G	F	J	J	J	J	J

Existing Adjacent Use/Zone

Streetscape Bufferyards

1 – Proposed Mobile Home Park or Subdivision
2 – Proposed Nonresidential Use
a – Adjacent Residential Use/Zone

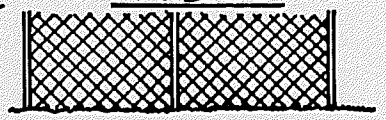
*Notes:
– The letter designations in this table refer to the bufferyard requirements and standards found within the Landscape Design Manual.
– Where adjacent land has the same existing or officially planned residential density or land use intensity as the proposed development, the director of planning and development services may allow a reduction of bufferyard requirements. Reductions will be determined on a site-specific basis.

12-13-94

STRUCTURAL ELEMENTS

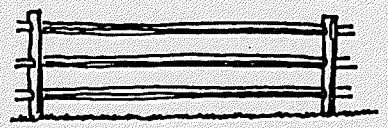
FENCES AND WALLS

SYMBOL	HEIGHT	MATERIAL
CL 40	40"	
CL 60	60"	
CL 72	72"	
CL 84	84"	
CL 96	96"	



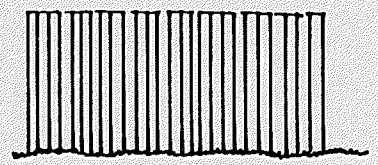
WOOD-SLATED CHAIN LINK

OF 40	40"	
OF 60	60"	
OF 72	72"	



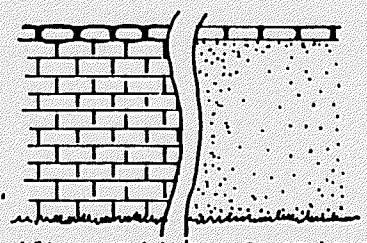
OPEN WOOD

CF 40	40"	
CF 60	60"	
CF 72	72"	
CF 84	84"	



CLOSED WOOD

MW 40	40"	
MW 60	60"	
MW 72	72"	
MW 84	84"	
MW 96	96"	
MW 120	120"	

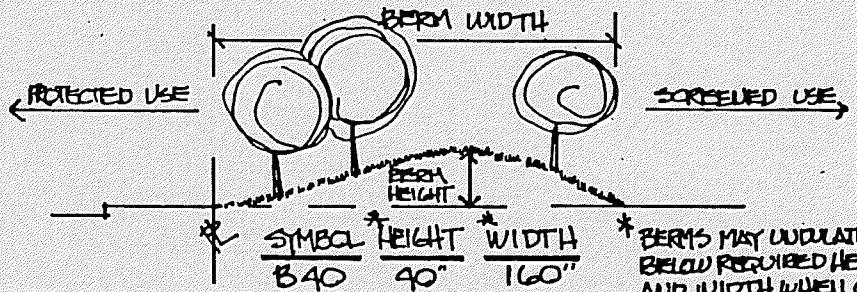


MASONRY WALL: CONCRETE, BRICK, BLOCK, ROCK; PAINTED, STUCCOED, ETC.

D = DECORATIVE*

*DECORATIVE REQUIREMENT FOR MATERIALS, TEXTURE, COLOR, FORM AND ARCHITECTURAL CONTEXT.

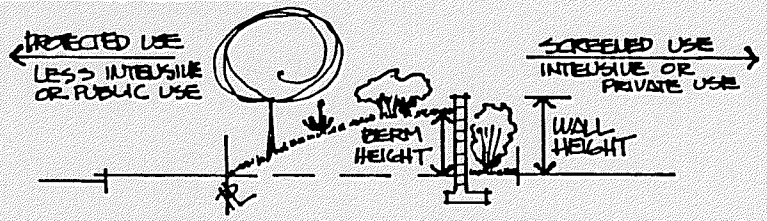
EARTH BERMS



SYMBOL	HEIGHT	WIDTH
B40	40"	160"
B60	60"	240"
B72	72"	288"

*BERMS MAY UNDULATE BELOW REQUIRED HEIGHT AND WIDTH WHEN OTHER LANDSCAPE ELEMENTS COMPENSATE FOR SPATIAL VOIDS TO PROVIDE BUFFERING.

BERM WALLS



SYMBOL	HEIGHT
BW-1	30" BERM WITH 40" MASONRY WALL
BW-2	36" BERM WITH 48" MASONRY WALL
BW-3	48" BERM WITH 60" MASONRY WALL
BW-4	60" BERM WITH 72" MASONRY WALL
BW-5	72" BERM WITH 84" MASONRY WALL

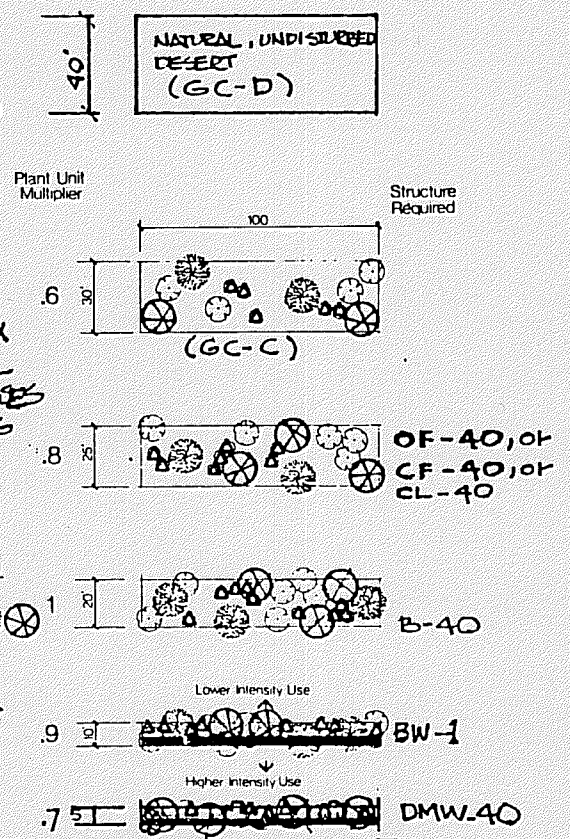
ILLUS. 1

STREETSCAPE BUFFERYARDS

NOTE 1:
BUFFERYARD MAY BE REDUCED BY 10% OF SPECIFIED WIDTH, EACH 100 FEET FOR EACH APPROVED SCULPTURE OR STREET FURNITURE PIECE APPROVED BY THE DESIGN REVIEW COMMITTEE.

NOTE 2:
SINGLY DESIGNATED, OR COMBINATIONS OF LISTED TYPES OF GROUNDCOVER (GC) IS REQUIRED FOR ENTIRE BUFFERYARD AREA.

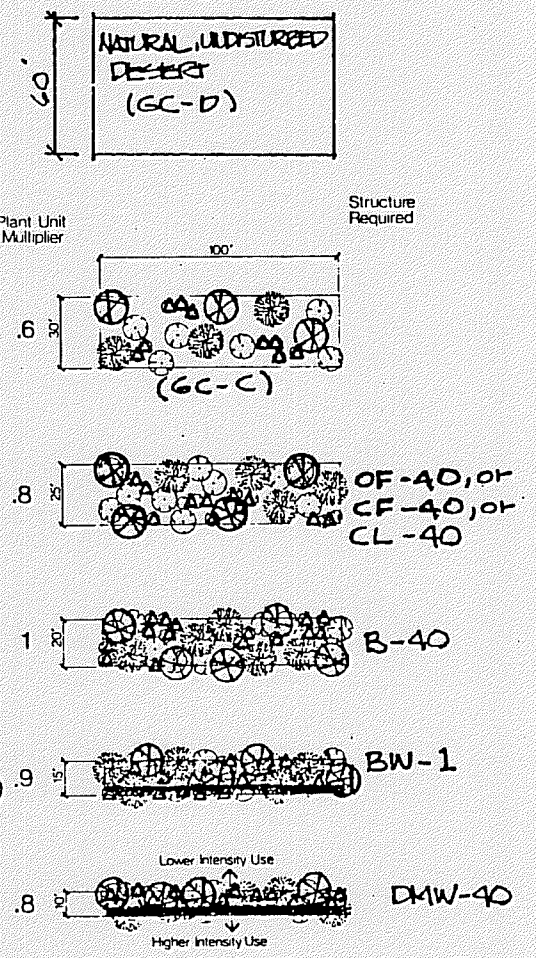
TYPES:
A. INORGANIC G.C.
B. ORGANIC FROM FLATS
C. DESERT PLANT SEED MIX
D. UNDISTURBED NATURAL DESERT PLANTS & GRASSES AT LOCALLY-OCCURRING DENSITIES.



REQUIRED PLANT UNITS / 100

6 Canopy Trees
6 SHRUBS
9 ACCENTS FLOWER VINES
GC – SEE NOTE 2

BUFFERYARD **A**



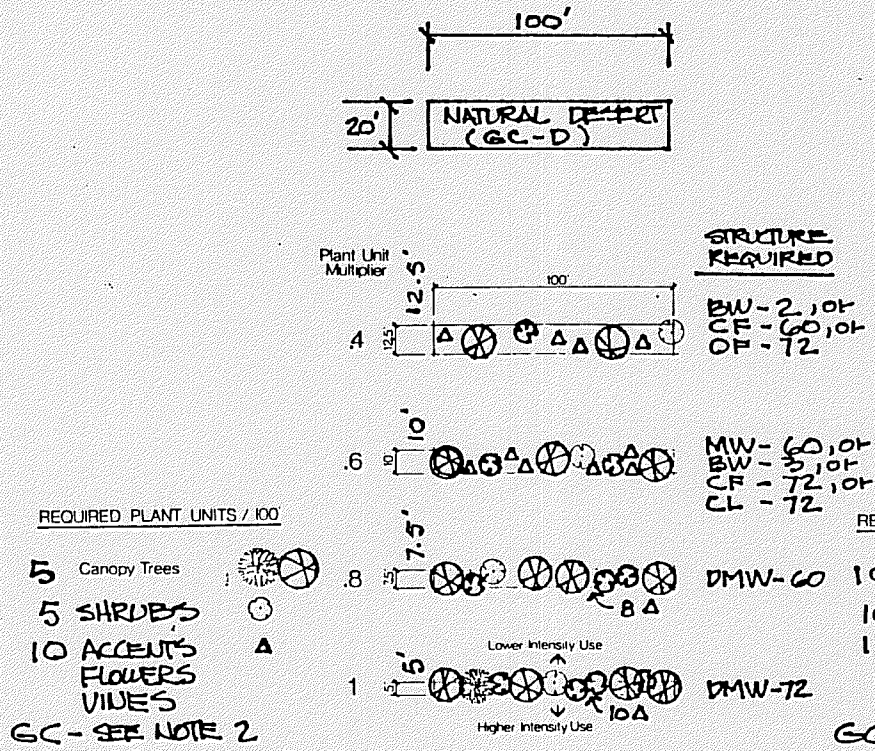
REQUIRED PLANT UNITS / 100

10 Canopy Trees
10 SHRUBS
15 ACCENTS, FLOWER, VINES
GC – SEE NOTE 2

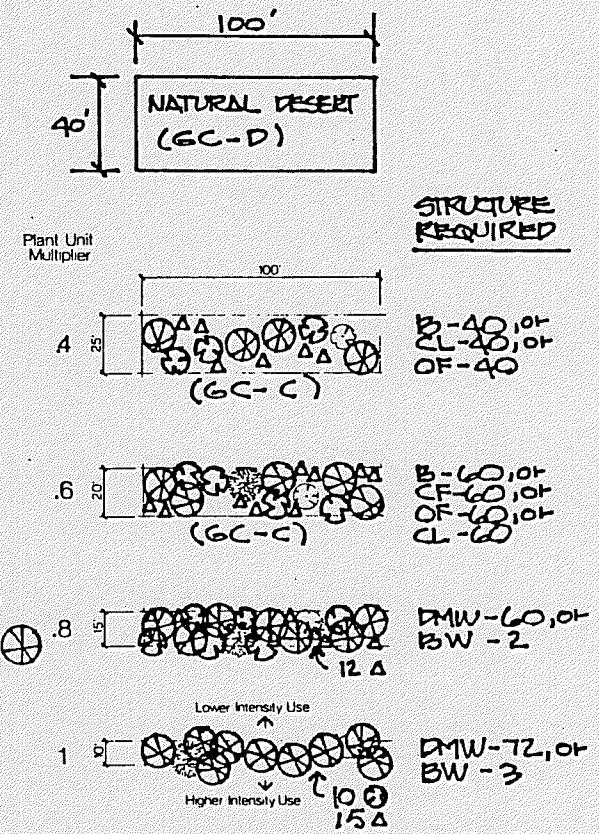
BUFFERYARD **B**

ILLUS. II

MIXED RESIDENTIAL BUFFERYARDS



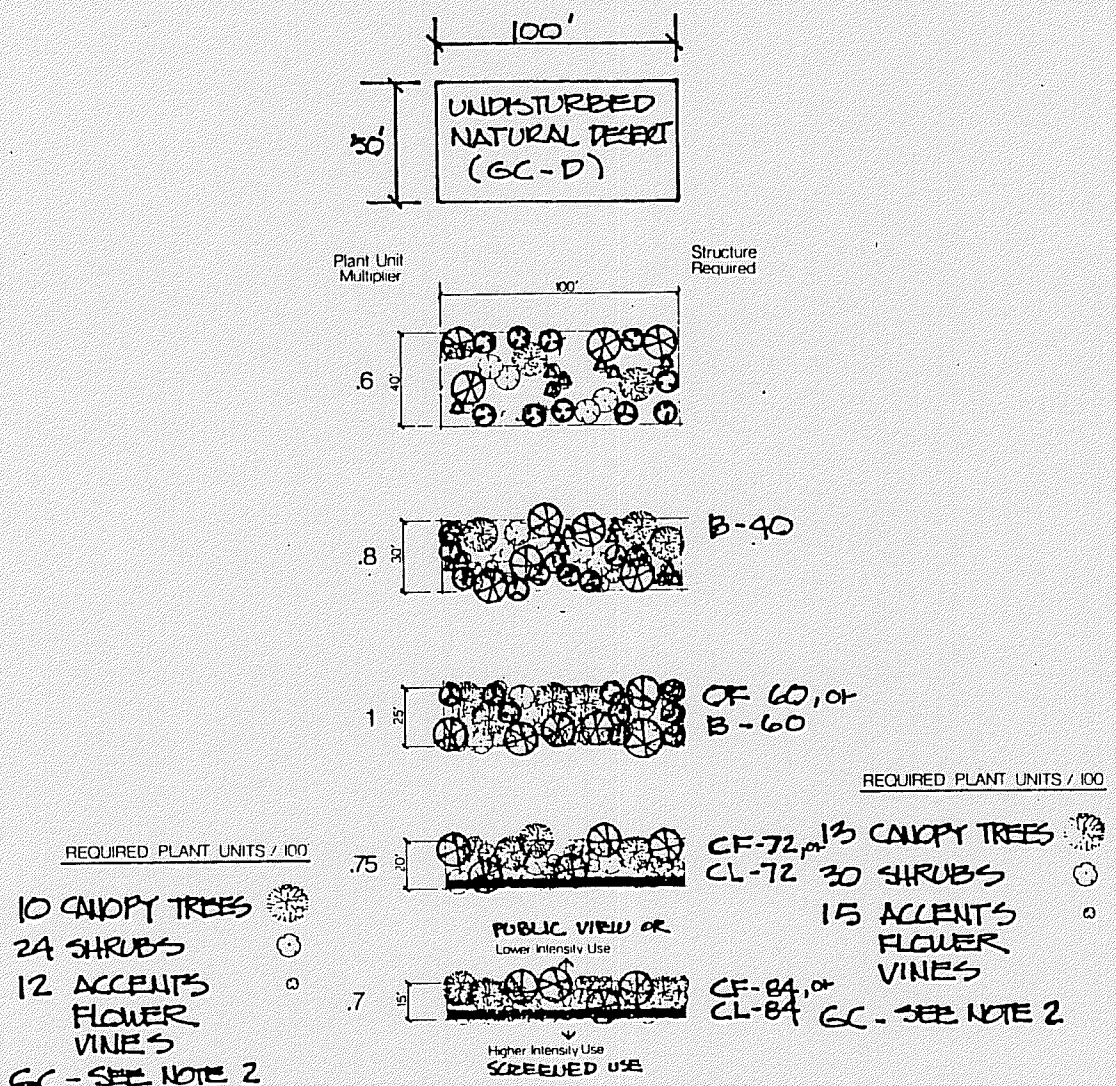
BUFFERYARD **C**



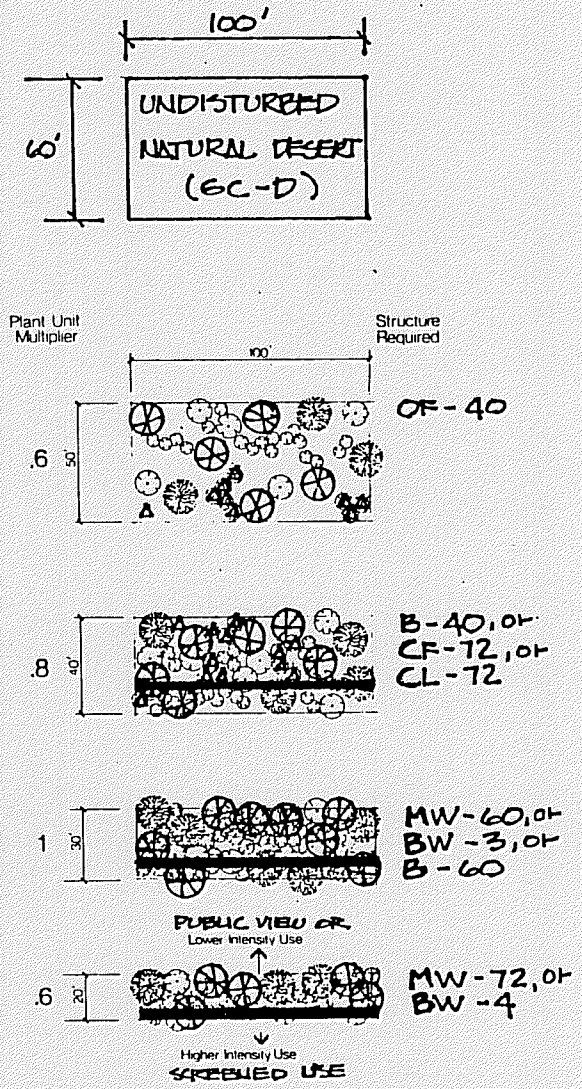
BUFFERYARD **D**

ILLUS. III

COMMERCIAL & INDUSTRIAL BUFFERYARDS



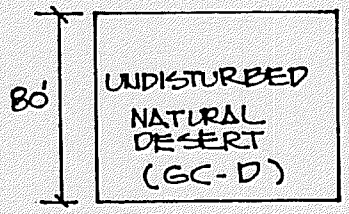
BUFFERYARD **E**

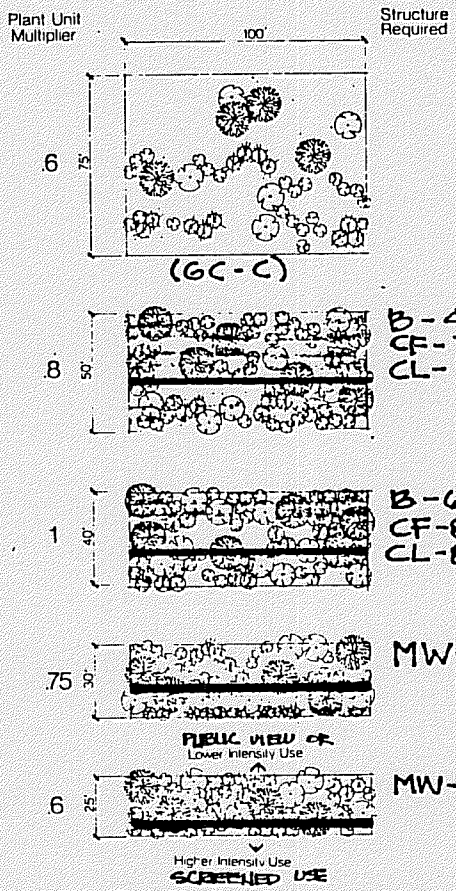


BUFFERYARD **F**

ILLUS. IX

HEAVY INDUSTRY BUFFERYARDS





REQUIRED PLANT UNITS / 100

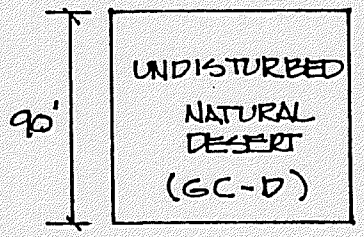
15 CANOPY TREES

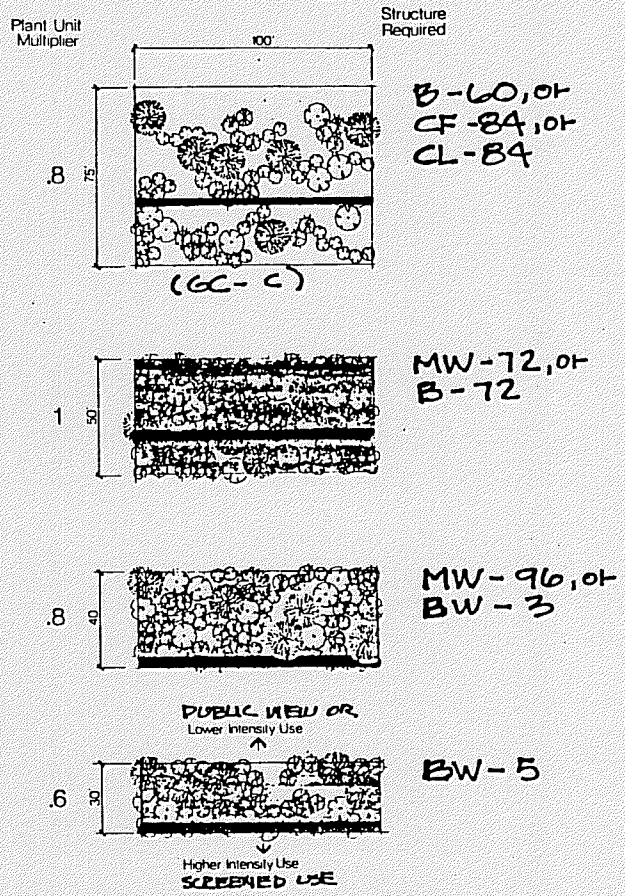
36 SHRUBS

18 ACCENTS
FLOWER
VINES

GC-SEE NOTE 2

BUFFERYARD **G**





REQUIRED PLANT UNITS / 100'

20 CANOPY TREES

48 SHRUBS

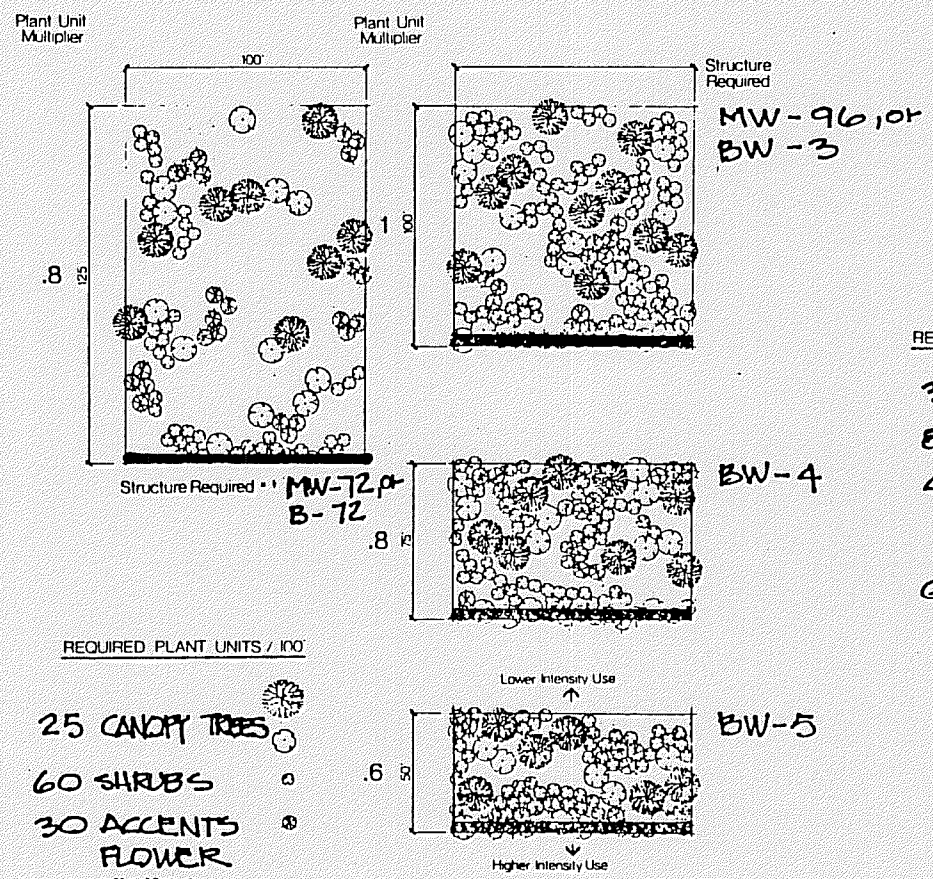
24 ACCENTS
FLOWER
VINES

GC-SEE NOTE 2

BUFFERYARD **H**

ILLUS. X

SPECIAL BUFFERYARD APPLICATIONS



REQUIRED PLANT UNITS / 100'

25 CANOPY TREES

60 SHRUBS

30 ACCENTS

FLOWER

VINES

GC- SEE NOTE 2

BUFFERYARD I

REQUIRED PLANT UNITS / 100'

30 CANOPY TREES

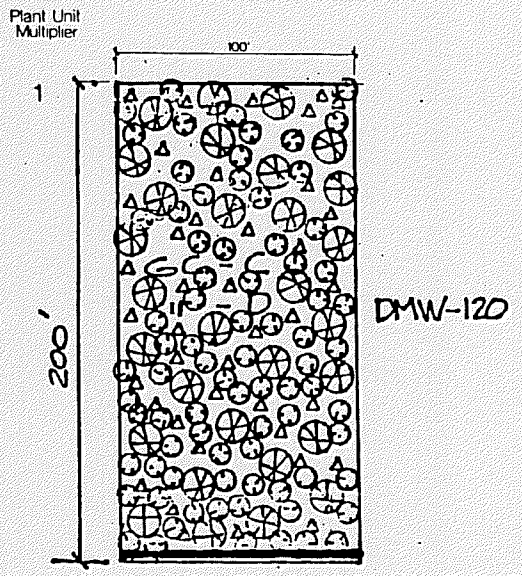
80 SHRUBS

40 ACCENTS

FLOWER

VINES

GC- SEE NOTE 2



BUFFERYARD J

ILLUS. VI

STREETSCAPE SCULPTURE AND FURNITURE STANDARDS

A. Sculpture and furniture should:

1. Contain materials, textures, colors and shapes that promote and enhance the cultural and historic context of the region.
2. Be vandal-resistant.
3. Be appropriately scaled to the site.
4. Be functionally located for ease of public access or experience.
5. Be of a design and of materials that are safe to the general public.

MINI-OASIS DESIGN STANDARDS

A. Mini-oases shall be reviewed to conform to the following standards and may be approved when the proposed mini-oasis:

1. Is functionally oriented on the site near main buildings or assembly areas where pedestrian activities are designed to occur;
2. Is designed for maximum, close exposure to proposed users;
3. Is part of an area of repose, such as a seating, assembly, rest, dining, or employee break area, or is designed to enhance a main pedestrian entryway;
4. Is located in an area of relative low evaporation potential from wind and heat;
5. Contains plant materials from the County approved lists that have compatible watering requirements and that are compatible with the environmental zone selected;
6. Is irrigated to a substantial degree by a water harvesting system or storm water runoff.

PIMA COUNTY, ARIZONA

OFFICIAL PLANTS LISTS

REFERENCE CHAPTER 18.73

LANDSCAPING, BUFFERING AND SCREENING STANDARDS

1. PROHIBITED PLANTS (HEALTH DEPARTMENT)
2. OFFICIAL REGULATORY PLANTS (LOW WATER USE)
3. GENERAL RESOURCE PLANTS (DESIGN-SPECIFIC USE)
4. BUFFER OVERLAY ZONE (BOZO) USE

PROHIBITED PLANTS

COUNTY OF PIMA } ss. Instrument was filed for record in Pima County, State of Arizona
Witness my hand and Official Seal. RICHARD J. KENNEDY
County Recorder
Book 7245 Page 1105-11
Date: MAR 22 '84 - 3 00 PM
Request of: CLERK BOARD OF SUPERVISORS
By ..... Deputy
Fee:

Indexed	Paged	Blotted

ORDINANCE NO. 1984 - 29 ,
AMENDING TITLE 23 OF THE PIMA COUNTY CODE, REGULATING THE MAINTENANCE, SALE AND PLANTING OF CERTAIN POLLEN PRODUCING PLANTS AND DECLARING SAME TO BE A NUISANCE AND PROVIDING FOR THE REMOVAL THEREOF

WHEREAS, the Pima County Board of Supervisors has found that common bermuda grass, mulberry trees and olive trees produce large amounts of allergenic, wind-borne pollens which are noxious and contribute to human disease; and

WHEREAS, the Pima County Board of Supervisors has determined that common bermuda grass should be maintained so as not to freely pollinate, and that failure to do so shall constitute a nuisance; and

WHEREAS the Pima County Board of Supervisors has determined that the planting and sale of mulberry and olive trees shall constitute a nuisance;

NOW THEREFORE, the Pima County Board of Supervisors ordains as follows, amending Title 23 of the Pima County Code by adding Chapter 23.44:

23.44.01 The following plants produce large amounts of allergenic, wind-borne pollens which are noxious and contribute to human disease:

1. Common bermuda grass
2. Mulberry tree
*3. Olive tree *NOTE: "SWAN Hill" variety is permissable.

23.44.02 Common bermuda grass control

.021 Any person maintaining lawn or open space planted in common bermuda grass shall mow that grass frequently enough to prevent pollination.

.022 Any person owning land on which common bermuda grass has become established shall cause that grass to be cut or removed.

.023 In no case shall bermuda grass be allowed to grow unchecked. Bermuda grass which is freely pollinating shall constitute a nuisance.

23.44.03 Mulberry tree and *olive tree control

.031 No mulberry trees or *olive trees shall be sold in Pima County

.032 The sale of mulberry trees or *olive trees in Pima County shall constitute a nuisance.

.033 No mulberry trees or *olive trees shall be planted in Pima County.

.034 The planting of mulberry trees or *olive trees in Pima County shall constitute a nuisance.

23.44.04 Abatement of nuisances

.041 When a nuisance exists on private property, the Health Director shall order the owner or occupant to remove said nuisance within twenty-four hours at his/her own expense. The order may be given to the owner or occupant in person or left at his usual place of abode. If the order is not complied with, the Health Director may cause such nuisance to be removed, and the expenses of removal shall be paid by the owner or occupant who caused the nuisance.

.042 When a nuisance exists on public property, the Health Director shall notify the responsible public official, who shall cause said nuisance to be removed within twenty-four hours.

23.44.05 Effective date

This ordinance shall take effect January 1, 1985.

March 6 1984
DATE

Chairman, Board of Supervisors

ATTEST:

Clerk of the Board of Supervisors

APPROVED AS TO FORM:

Civil Deputy County Attorney

7215 PG 1106

OFFICIAL REGULATORY PLANT LIST

LOW WATER USE / DROUGHT TOLERANT PLANT LIST

THIS LIST OF DROUGHT RESISTANT, LOW-WATER USING PLANTS WAS COMPILED WITH THE COOPERATION OF RECOGNIZED EXPERTS IN THE PLANT NURSERY, RESEARCH AND LANDSCAPE DESIGN PROFESSIONS.

IT IS RECOMMENDED BY PIMA COUNTY, THE CITY OF TUCSON, THE ARIZONA DEPARTMENT OF WATER RESOURCES, THE UNIVERSITY OF ARIZONA AND THE SOUTHERN ARIZONA WATER RESOURCES ASSOCIATION FOR ALL REGULATORY AND PRIVATELY INITIATED LANDSCAPING REQUIREMENTS.

ALL PLANT MATERIALS ON THIS LIST ARE APPROVED FOR USE IN COMPLYING WITH THE LANDSCAPING, BUFFERING AND SCREENING REQUIREMENTS OUTLINED IN THIS ORDINANCE.

THE MATERIALS ARE FURTHER RECOMMENDED TO INDIVIDUAL PROPERTY OWNERS DESIRING LOCALLY AVAILABLE PLANT MATERIALS WHICH OFFER COST-EFFECTIVE AND AESTHETICALLY PLEASING QUALITIES, AND THAT HAVE BEEN CONSISTENTLY USED AND PROVED SUCCESSFUL IN THE EASTERN PIMA COUNTY AND TUCSON AREA.

LOW WATER USE/DROUGHT TOLERANT PLANT LIST

ARIZONA DEPARTMENT OF WATER RESOURCES

OFFICIAL REGULATORY LIST FOR:

Arizona Department of Water Resources,
Tucson Active Management Area
City of Tucson
Pima County

The plants on this list can be grown with moderate to no supplemental irrigation once they are established. Occasionally, for good appearance, supplemental irrigation may be applied during the growing season. In addition to the cacti on this list, any cacti salvaged and tagged in compliance with state agricultural and horticultural regulations may be used.

Even though all of the plants on the Low Water Use/Drought Tolerant Plant List meet the ADWR standard for low consumption, please check the regulations of the governing jurisdiction to determine whether a particular plant selection meets all locational, aesthetic, or functional requirements. For example, plants used for screening may have to be evergreen, have dense foliage, and grow to required heights. On the other hand, plants used within sight visibility triangles may have height restrictions. In some applications, there may be a requirement for native materials or a "desert or natural appearance."

Some plants on the list may be fall under more than one plant type category and this is noted (i.e. Acacia constricta can be grown as a tree or a shrub depending upon the growth habit that is preferred).

Applications for additions, deletions or exceptions to the list may be submitted to the Department of Water Resources, Tucson Active Management Area Office for consideration. Phone: (602) 628-6758; Fax: (602) 628-6759.

Key to symbols:

A	Accent Plant	*	Toxic; may be harmful if eaten. For more information call Arizona Poison Control Center at 626-6016.
C	Cactus		
Gc	Groundcover	I	Invasive -- may spread and intrude into natural areas.
Gr	Ornamental Grass	(sh)	Semi-hardy -- some dieback in a hard frost
S	Shrub	(t)	Tender -- severely damaged or killed in a hard frost
Sc	Succulent (other than cacti)	#	Exceptions to the nomenclature in Hortus III.
T	Tree	an	Annual
V	Vine	p	Perennial
		cl	Seasonal Color (showy flowers, fall color or berries).

CD Chihuahuan Desert Region - broadly interpreted to include a large area of north central and northwest Mexico, southwest Texas, southern New Mexico and extreme southeast Arizona.

SD Sonoran Desert Region - broadly interpreted to include the arid and semi-arid areas of northwest Mexico, southeast California and most of Arizona south of the Mogollon Rim.

Note: Chihuahuan and Sonoran Desert Regions annotated by Matt Johnson, Native Plant Society.

Approximate Watering Needs (depending on soil and climate conditions)

1 No supplemental irrigation once established.
2 Once a month during the growing season once established.
3 Twice a month during the growing season once established.
4 Once a week during the growing season once established.

List Sorted Alphabetically by Botanical Name

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		BOTANICAL NAME			COMMON NAME
Gc,an	SD	Abronia villosa	1		Sand verbena
T	Africa	Acacia abyssinica	3	(sh)	Abyssinian Acacia
T	Austr.	Acacia aneura	2	(sh)	Mulga
S	SD	Acacia angustissima	2	(sh)	White Ball Acacia
S,T	CD	Acacia berlandieri	3		Guajillo
T,S*	SD,CD	Acacia constricta	1		Whitethorn Acacia, Mescat
T,S	Austr.	Acacia crasspedocarpa	1		Waxleaf Acacia
T,S	Austr.	Acacia cultriformis	2	(sh)	Knife-Leaf Acacia
T,S	SD,CD	Acacia greggii	1		Cat's Claw Acacia
T,S,cl	SD,CD	Acacia minuta (smallii)	2		Southwestern Sweet Acacia
S	Austr.	Acacia notabilis	2		Acacia
S,Gc	Austr.	Acacia redolens	2		Prostrate Acacia
S,T	CD	Acacia rigidula	3		Black Brush Acacia
T,cl	Austr.	Acacia salicina	2	(sh)	Weeping Wattle
T	Austr.	Acacia saligna	1-2	(sh)	Wattle Tree
T	CD	Acacia schaffneri	1-2		Twisted Acacia
T	Austr.	Acacia stenophylla	1-2		Pencilleaf Acacia
T	SD	Acacia willardiana	1-2	(sh)	Palo Blanco
Sc	CD	Agave americana	1-2		Century Plant
Sc	SD	Agave colorata	1		Agave
Sc	CD	Agave filifera	1-2		Agave
Sc	SD	Agave huachucensis	1-2		Huachuca Agave
Sc	CD	Agave lophantha (univittata)	2		Agave
Sc	SD	Agave ocahui	1-2		Ocahui Agave
Sc	SD	Agave palmeri	1		Palmer Agave
Sc	CD	Agave victoriae-reginae	1-2		Victoria Regina Agave
Sc	SD	Agave vilmoriniana	1-2	(sh)	Octopus Agave
Sc,cl	Africa	Aloe barbadensis	2-3	(sh)	Barbados Aloe
Sc,cl	Africa	Aloe ferox	2-3	(sh)	Cape Aloe
Sc,cl	Africa	Aloe saponaria	2-3	(sh)	Mediterranean Aloe
S	SD,CD	Aloysia gratissimma	2		Fragrant Bush, Bee Brush
S	SD,CD	Aloysia wrightii	2		Wright's Oregano, Lemon Verbena
S	SD	Ambrosia (Franseria) deltoidea	1		Triangle-leaf Bursage
S	SD	Ambrosia (Franseria) dumosa	1		White Bursage
S	SD	Anisacanthus thurberi	2		Desert Honeysuckle
V,cl	SD	Antigonon leptopus	2-3	(t)	Queen's Wreath
Gr,cl	SD,CD	Aristida purpurea	1		Purple three-awn
S	SD,CD	Asclepias linaria	2		Pine-Leaf Milkweed
A	SD	Asclepias subulata	2	(sh)	Desert Milkweed
an	SD	Aster bigelovii	1	(t)	Aster
an	SD,CD	Aster tanacetifolius	1	(t)	Aster
S	SD,CD	Atriplex canescens	1		Four-Wing Saltbush
S	SD	Atriplex lentiformis	1		Quail Bush
S	SD	Atriplex lentiformis breweri	1-2		Brewer Saltbush
S	Austr.	Atriplex nummularia	1		Old Man Saltbush
S	SD	Atriplex polycarpa	1		Desert Saltbush
S	Austr.	Atriplex semibaccata	2		Australian Saltbush
S,I	SD	Baccharis sarothroides (male plants only)	1-2		Desert Broom
S,Gc	SD	Baccharis sarothroides 'Centennial'	2-3		Centennial
p,cl	SD	Bahia absinthifolia	2		Desert Daisy
p,cl*	SD,CD	Baileya multiradiata	1-2		Desert Marigold
S	SD	Berberis harrisoniana	3		Barberry

		BOTANICAL NAME			COMMON NAME
S	SD	Berberis trifoliata	3		Agritos
Gr,cl	SD,CD	Bothriochloa barbinodis	1		Cane beardgrass
V,S,cl	Brazil	Bougainvillea spp.	3	(t)	Bougainvillea
Gr	SD,CD	Bouteloua chondrosioides	2		Sprucetop grama
Gr,cl	SD,CD	Bouteloua curtipendula	2		Sideoats grama
Gr,cl	SD	Bouteloua eriopoda	3		Black Grama
Gr	SD,CD	Bouteloua gracilis	2		Blue grama
Gr	SD	Bouteloua hirsuta	2		Hairy grama
Gr	SD,CD	Bouteloua rothrockii	1		Rothrock grama
T	Austr.	Brachychiton populneus	2-3		Bottle Tree
T	SD	Brahea (Erythea) armata	2-3		Mexican Blue Palm
Gr	CD	Buchloe dactyloides	2-3		Buffalo grass
S,cl	CD	Buddleia marrubifolia	2-3		Wooly Butterfly Bush
S,cl*	CD	Caesalpinia (Poinciana) mexicana	2		Mexican Bird of Paradise (yellow)
S,cl*	Argent.	Caesalpinia (Poinciana) gilliesii	1-2		Yellow Bird of Paradise
S,cl*	Carib.	Caesalpinia pulcherrima	3	(sh)	Red Bird of Paradise
S,cl	SD	Calliandra californica	2-3		Red Fairy Duster, Baja Fairy Duster
S,cl	SD	Calliandra eriophylla	1		Fairy Duster, False Mesquite
S,cl	SD	Calliandra peninsularis	2-3	(sh)	Red Calliandra, Baja Fairy Duster
T,S,cl	Austr.	Callistemon citrinus	3	(sh)	Lemon Bottlebrush
Gc,cl	CD	Calylophus hartwegii	3		Calylophus
V,cl	SD,CD	Campsis radicans	2-3		Common Trumpet Creeper
C	SD	Carnegiea gigantea	1		Saguaro
Gc,Sc,cl	Africa	Carpobrotus edulis	3	(t)	Ice Plant
S,cl	Austr.	Cassia artemisioides	2-3	(sh)	Wormwood Senna, Feathery Cassia
S,cl	Austr.	Cassia nemophila (eremophila)	2		Green Cassia
S,cl	Austr.	Cassia phyllodinea	2-3		Silvery Cassia
T	Austr.	Casuarina cunninghamiana	3		Australian Pine
T	Austr.	Casuarina stricta	2-3		Coast Beefwood
Gr,cl	SD	Cathostecum erectum	1		False grama
S	SD,CD	Celtis pallida	1-2		Spiny or Desert Hackberry
T	SD,CD	Celtis reticulata	2		Netleaf or Western Hackberry
p,cl	Medit.	Centaurea cineraria	3		Dusty Miller
Gc,Sc,cl		Cephalophyllum 'Red Spike'	2		Red Spike Ice Plant
T	Medit.	Ceratonia siliqua	3	(sh)	Carob, St. John's Bread Tree
T,cl	SD	Cercidium floridum	2-3		Blue Palo Verde
T,cl	SD	Cercidium microphyllum	1		Littleleaf or Foothill Palo Verde
T,cl	SD	Cercidium praecox	2	(sh)	Palo Brea
T,cl	SD	Cercidium sonorae	1-2		Sonoran Palo Verde
T,S	CD	Cercis canadensis var. mexicana	3		Mexican Redbud
C	S. Am.	Cereus peruvianus 'Monstrosus'	1-2	(sh)	Peruvian Cereus
T	Spain	Chamaerops humilis	2-3		Mediterranean Fan Palm
T,S,cl	SD,CD	Chilopsis linearis	2-3		Desert Willow
V,I	CD	Cissus incisa	1-2		Desert Grape Ivy
V	SD	Cissus trifoliata	1-2		Desert Grape Ivy
S	SD,CD	Condalia warnockii var. kearneyana	1		Condalia
S,Gc,cl*	Medit.	Convolvulus cneorum	1-2		Bush Morning Glory
Gc,cl	Africa	Convolvulus mauritanicus	3	(sh)	Ground Morning Glory
T,S,cl	CD	Cordia boissieri	2-3	(sh)	Anacahuita, Texas Olive
S,cl	SD,CD	Cordia parvifolia	1-2		Littleleaf Cordia
Gr	Arg.	Cortaderia selloana	3		Pampas Grass
T	SD,CD	Cupressus arizonica	2		Arizona Cypress

		BOTANICAL NAME			COMMON NAME
T	SD	Cupressus glabra	2-3		Smooth Bark Cypress
T	India	Dalbergia sissoo	3	(sh)	Rosewood
S	SD	Dalea bicolor var. argyrea	2-3		Silver Dalea
S,cl	CD	Dalea frutescens	2-3		Black Dalea
Gc	CD	Dalea greggii	2-3		Trailing Indigo Bush
S,cl	SD	Dalea pulchra	2-3		Indigo Bush
S,cl	SD	Dalea versicolor var. sessilis	3		Indigo Bush, Dalea
A	CD	Dasylirion acrotriche	1		Green Desert Spoon
A	SD,CD	Dasylirion wheeleri	1		Sotol, Desert Spoon
Gc,p,cl*	SD	Datura wrightii	3	(sh)	Sacred Datura
Gr	SD,CD	Digitaria californica	1		Arizona cottontop
an,cl	S. Africa	Dimorphotheca sinuata	4		African Daisy, Cape Marigold
S	SD,CD	Dodonaea viscosa	1-2	(sh)	Hopbush
Gc,p,cl	SD,CD	Dyssodia acerosa	2-3		Dogweed
Gc,an,p,cl	SD,CD	Dyssodia pentachaeta	2-3		Dyssodia
C,cl	SD	Echinocactus grusonii	1-2		Golden Barrel
C,cl	CD,SD	Echinocereus spp.	1		Hedgehog, Rainbow Cactus
C,cl	S. Am.	Echinopsis spp.	1		Easter Lily, Sea Urchin Cactus
S,cl	SD	Encelia californica	1-2	(sh)	California Brittlebush (green)
S,cl	SD	Encelia farinosa	1-2	(sh)	Brittlebush
S	SD	Ephedra nevadensis	3		Ephedra
Gr	SD,CD	Eragrostis intermedia	1		Plains lovegrass
S,cl	Austr.	Eremophila decipiens	1		Emu Bush
Gr	SD,CD	Erioneuron pulchellus	1		Fluffgrass
an,cl	SD	Eschscholtzia californica	2-3		California Poppy
an,cl	SD	Eschscholtzia mexicana	3		Mexican Gold Poppy
T	Austr.	Eucalyptus camaldulensis	2		Red River Gum
T	Austr.	Eucalyptus campaspe	2-3	(sh)	Silver Gimlet
T	Austr.	Eucalyptus formanii	2		Eucalyptus
T,cl	Austr.	Eucalyptus leucoxylon (rosea)	2		White Iron Bark
T	Austr.	Eucalyptus microtheca	1-2		Tiny Capsule Eucalyptus
T	Austr.	Eucalyptus polyanthemos	2		Silver Dollar Gum
T	Austr.	Eucalyptus rudis	2		Desert Gum
T	Austr.	Eucalyptus spathulata	3		Swamp Mallee
S	CD	Euphorbia antisyphilitica	1		Wax Plant, Candelilla
Gc		Euphorbia myrsinites	2		Euphorbia
A,Sc,cl*	Africa	Euphorbia rigida (biglandulosa)	2		Gopher Plant
T,S,cl	S. Am.	Feijoa sellowiana	3		Pineapple Guava
C,cl	SD,CD	Ferocactus spp.	1		Barrel Cactus
A,cl	SD,CD	Fouquieria splendens	1		Ocotillo
an,cl	CD	Gaillardia pulchella	3		Fire Wheel, Blanket Flower
Gc,cl	Africa	Gazania rigens 'Copper King'	3-4		Copper King Gazania
Gc,cl		Gazania rigens	3-4		Treasure Flower Gazania
Gc,cl		Gazania rigens leucolaena	3-4	(t)	Trailing Gazania
T,cl	S. Am.	Geoffreya (Gourleia) decorticans	1		Chilean Palo Verde
S,cl	SD	Gossypium harknessii	2	(t)	Gossypium
S,cl	SD,CD	Haplopappus (Ericameria) laricifolius	1		Turpentine Bush
A	CD	Hesperaloe funifera	1-2		Giant Hesperaloe
A,cl	CD	Hesperaloe parviflora	1-2		Red Yucca, Red Flowered Hesperaloe
Gr	SD	Hetropogon contortus	3		Tanglehead
S	SD,CD	Hibiscus coulteri	2		Yellow Hibiscus, Coulter's Hibiscus
Gr	SD,CD	Hilaria berlangeri	2		Curly mesquite

		BOTANICAL NAME			COMMON NAME
Gr	SD,CD	Hilaria mutica	1		Tobosa grass
Gr	SD,CD	Hilaria rigida	2		Big galleta grass
S	SD	Hyptis emoryi	3	(sh)	Desert Lavendar
S	SD	Jatropha cardiophylla	1		Limberbush
S,cl	CD	Jatropha dioica	1	(t)	Jatropha
T,S	Asia	Juniperus chinensis	3		Juniper (many culitvars)
T	SD,CD	Juniperus deppeana	3		Alligator Bark Juniper
S		Juniperus sabina 'Arcadia'	3		Arcadia Juniper
S,cl	SD	Justicia (Beloperone) californica	2-3	(t)	Chuparosa
S,cl	SD	Justicia candicans	3	(sh)	Red Jacobinia
S,cl	SD	Justicia spicigera	3	(sh)	Mexican Honeysuckle, Firecracker Bush
S,cl*	Amer.	Lantana camara	3-4	(t)	Bush Lantana (many cultivars)
Gc,cl*	S. Am.	Lantana montevidensis	3-4	(t)	Trailing Lantana
S,cl	SD,CD	Larrea tridentata (divaricata)	1		Creosote Bush, Greasewood
Gr	CD	Leptochloa dubia	3		Green Sprangle-Top
T,S,cl	CD	Leucaena retusa	1-2		Golden Leadball
S,cl	CD	Leucophyllum spp.	2		Texas Ranger (all cultivars)
Gc,an,cl		Linum grandiflorum 'Rubrum'	3		Scarlet Flax
an,cl	SD,CD	Linum lewisii	3		Blue Flax
an,cl	SD	Lupinus arizonicus	1		Lupine
an,cl	SD	Lupinus sparsiflorus	1		Desert Lupine
an,cl	SD	Lupinus succulentus	1		Arroyo Lupine
S	SD	Lycium exsertum	1		Lycium
S	SD	Lycium fremontii	1		Wolfberry
T,S	SD	Lysiloma thornberi	2-3	(sh)	Feather Tree
V,cl	Amer.	Macfadyena unguis-cati	2-3		Cat's Claw Vine
Gc,Sc,cl		Malephora crocea	2-3		Croceum, Ice Plant
C,cl	SD,CD	Mamillaria spp.	1-2		Mamillaria Cactus
V,cl	CD	Mascagnia lilacina	2-3		Lavender Orchid Vine
V,cl	SD,CD	Mascagnia macroptera	2-3	(sh)	Yellow Orchid Vine
S	SD,CD	Maytenus phyllanthoides	2		Mangle Dulce
Gc,p,cl	SD,CD	Melampodium leucanthum	2		Blackfoot Daisy
V,cl	SD	Merremia aurea	2-3	(t)	Yellow Merremia
S,cl	SD	Mimosa dysocarpa	2		Velvetpod
Gr	SD	Muhlenbergia dumosa	3-4		Bush Muhlenbergia, Bamboo Muhly
Gr,cl	SD	Muhlenbergia emersleyi	1		Bullgrass
Gr,cl	SD,CD	Muhlenbergia porteri	1		Bush muhly
Gr	SD	Muhlenbergia rigens	3		Deer grass
Gr,cl	SD	Muhlenbergia rigida	3		'Nashville' ™
Gc	Austr.	Myoporum parvifolium	3		Myoporum
S	Medit.	Myrtus communis	3		True Myrtle, Roman Myrtle
S#	Medit.	Myrtus communis 'Boetica'	3		Twisted Myrtle
S	Medit.	Myrtus communis 'Compact	3		Dwarf Myrtle
S,cl		Nandina domestica	3		Heavenly Bamboo (many cultivars)
S,cl*	Asia	Nerium oleander	2-3		Oleander (many cultivars)
A	SD	Nolina bigelovii	1-2		Beargrass
A,T	SD	Nolina matapensis	1-2		Tree Beargrass
A	SD	Nolina microcarpa	1-2		Beargrass
A	SD	Nolina parryi	1-2		Parry's Beargrass
Gc,cl	CD	Oenothera berlandieri (speciosa childsii)	3		Mexican Evening Primrose
p,cl	SD	Oenothera caespitosa	2-3		Tufted Evening Primrose
Gc,cl	CD	Oenothera stubbei	2-3		Chihuahuan Primrose, Baja Primrose

		BOTANICAL NAME			COMMON NAME
T	Medit.	Olea europaea 'Swan Hill'	3		Swan Hill Olive
T	SD,CD	Olneya tesota	1		Desert Ironwood, Tesota
C	SD,CD	Opuntia spp.	1		Prickly Pear, Cholla
Gr	SD,CD	Oryzopsis hymenoides	3		Indian ricegrass
Gc,cl	Africa	Osteospermum fruticosum	3-4	(sh)	Trailing African Daisy
Gr	SD	Pappophorum mucronulatum	1		Pappusgrass
T,I,cl	SD,CD	Parkinsonia aculeata	1-2		Mexican Palo Verde
V	SD	Passiflora foetida	3	(sh)	Passion Flower
A,Sc,cl*	SD	Pedilanthus macrocarpus	2		Slipper Flower
Gr	Africa	Pennisetum setaceum 'Cupreum'	1-2		Purple fountain grass
p,cl	CD	Penstemon baccharifolius	1		Cutleaf Penstemon
p,cl	SD,CD	Penstemon barbatus	1		Beardtongue Penstemon
p,cl	SD	Penstemon eatoni	1		Eaton's Penstemon
p,cl	SD	Penstemon parryi	1		Parry Penstemon
p,cl	SD	Penstemon pseudospectabilis	1		Canyon Penstemon, Mohave Beardtongue
p,cl	CD	Penstemon superbus	1		Superb Penstemon
Gc	Africa	Pentzia incana	1-2		Karoo Bush
an,cl	SD	Phacelia campanularia	2-3		Desert Canterbury Bells
an,cl	SD	Phacelia tanacetifolia	2-3		Tansy Phacelia
T		Phoenix canariensis	3		Canary Island Date Palm
T	Asia	Phoenix dactylifera	3		Date Palm
Gc,cl		Phyla nodiflora	3-4		Lippia
T		Pinus edulis	2-3		Piñon Nut Pine
T#	Asia	Pinus eldarica	2		Afghan Pine
T	Medit.	Pinus halepensis	2		Aleppo Pine
T	Mojave	Pinus monophylla	2		Singleleaf Piñon Pine
T	Medit.	Pinus pinea	2-3		Italian Stone Pine
T	Asia	Pinus roxburghii	3		Chir Pine
T	Africa	Pistacia atlantica	2		Mt. Atlas Pistache
T,cl	Asia	Pistacia chinensis	3		Chinese Pistache
T,cl		Pistacia terebinthus x integerrima	3		Pistache hybrid terebinthus x integerrima
T	Asia	Pistacia vera	2-3		Pistachio
T	CD	Pithecellobium flexicaule	2	(sh)	Texas Ebony
T	SD	Pithecellobium mexicanum	3		Mexican Ebony
T	CD	Pithecellobium pallens	2	(sh)	Tenaza
T	Austr.	Pittosporum phillyraeoides	2		Willow Pittosporum
an	SD,CD	Plantago spp.	1-2		Indian Wheat
T#	S. Am.	Prosopis (So. Am. hybrid)	2		Thornless Mesquite (So. Am. hybrid)
T#	S. Am.	Prosopis alba	2		Argentine Mesquite
T#	S. Am.	Prosopis chilensis	2		Chilean Mesquite
T#	CD	Prosopis glandulosa glandulosa	2		Honey or Texas Mesquite
T	SD,CD	Prosopis pubescens	2		Screwbean Mesquite
T#	SD	Prosopis velutina	2		Velvet Mesquite
p,cl	SD,CD	Psilostrophe cooperi	2		Paper Flower
S,T,cl	India	Punica granatum	2-3		Pomegranate
S,cl		Pyracantha (red berried types)	3		Pyracantha (many cultivars)
T	SD,CD	Quercus arizonica	3		Arizona White Oak
T	SD,CD	Quercus emoryi	3		Emory Oak
T		Quercus ilex	3		Holly Oak
T*	Medit.	Quercus suber	2		Cork Oak
T	SE U.S.	Quercus virginiana 'Heritage'	3		Heritage Live Oak
T,I	Africa	Rhus lancea	2		African Sumac

		BOTANICAL NAME			COMMON NAME
S,cl	CD	Rhus microphylla	2		Littleleaf Sumac
S	SD	Rhus ovata	2		Sugar Bush, Sugar Sumac
S,cl	CD	Rhus virens	2		Evergreen Sumac
S,Gc,V		Rosa banksiae	3		Lady Banks Rose, Tombstone Rose
S,cl	Medit.	Rosmarinus officinalis	2-3		Bush Rosemary
Gc,cl	Medit.	Rosmarinus officinalis 'Prostratus'	2-3		Dwarf or Trailing Rosemary
S,cl	SD	Ruellia californica	3	(t)	Ruellia
S,cl	SD	Ruellia peninsularis	3	(t)	Ruellia
Sc,Gc		Ruschia uncinatus	2		Ruschia
S,p,cl	CD	Salvia chamaedryoides	2-3		Blue Sage
S,cl		Salvia clevelandii	3		Cleveland Sage
an,cl	SD	Salvia columbariae	3		Chia
S,cl	CD	Salvia farinacea	3-4		Mealy Blue Sage
S,cl	CD	Salvia greggii	2-3		Texas Red Salvia, Autumn Sage
S,cl	SD	Salvia mohavensis	2		Mohave Sage
T	SD,CD	Sambucus mexicana	2		Mexican Elderberry
S,Gc	Medit.	Santolina chamaecyparissus	2-3		Lavendar Cotton
Gc,S,cl	Medit.	Santolina virens	3-4		Green Santolina
T*	SD,CD	Sapindus saponaria	3-4		Soapberry
T	S. Am.	Schinus molle	2-3		California Pepper Tree
p,cl*		Senecio cineraria	3		Dusty Miller, Silver Plant
p,cl	SD	Senna covesii	1-2		Desert Senna
S	CD	Senna lindheimeriana	4	(sh)	Senna
S,p,cl	SD,CD	Senna wislizenii	2		Cassia, Shrubby Senna
Gc	Africa	Sesuvium verrucosum	2	(t)	Sea Purslane, Ice Plant
Gr	SD,CD	Setaria macrostachya	3		Plains Bristle Grass
S	SD	Simmondsia chinensis	1-2		Jojoba, Goat Nut
S,T,cl*	CD	Sophora secundiflora	2-3		Mescal Bean, Texas Mountain Laurel
p,cl	SD,CD	Sphaeralcea spp.	1		Globe-Mallow
Gr	SD,CD	Sporobolus airoides	3		Alkali Sacaton
Gr	SD,CD	Sporobolus contractus	1		Spike dropseed
Gr	SD,CD	Sporobolus cryptandrus	3		Sand Drops
Gr	SD,CD	Sporobolus flexuosus	2		Mesa dropseed
Gr	SD,CD	Sporobolus wrightii	1		Sacaton
C	SD	Stenocereus (Lemaireocereus) thurberi	1	(t)	Organ Pipe Cactus
Gr	SD,CD	Stipa neomexicana	2		New Mexico feathergrass
p,cl	SD	Tagetes lemmoni	3-4		Mountain Marigold
T	Asia	Tamarix aphylla	1		Athel Tree, Tamarisk
T,S,I	Asia	Tamarix parviflora or chinensis	2		Spring Flowering Salt Cedar
S,cl	SD,CD	Tecoma stans var. angustata	2-3	(sh)	Trumpet-Bush
S,cl	Africa	Tecomaria capensis	4	(sh)	Cape Honeysuckle
Gc,p	Medit.	Teucrium chamaedrys (prostratum)	2-3		Prostrate Germander
S		Teucrium fruticans	3		Bush Germander
Gr	SD,CD	Trichloris crinita	2		Two-feather trichloris
C		Trichocereus spp.	1-2		Trichocerius Cactus
Gr	SD,CD	Tridens muticus	2		Slim tridens
T,cl	CD	Ungnadia speciosa	3		Mexican Buckeye
S,T#	SD	Vauquelinia californica	2		Arizona Rosewood
p,cl	SD	Verbena gooddingii	3-4		Goodding Verbena
p,cl	S. Am.	Verbena peruviana	4		Peruvian Verbena
p,cl	S. Am.	Verbena tenuisecta (pulchella)	3		Moss Verbena, Fineleaf Verbena
an,cl	SD,CD	Verbesina encelioides	2		Crown Beard

		BOTANICAL NAME		COMMON NAME
p,cl	SD	Viguiera deltoidea	2	Golden Eye
T,S,cl		Vitex agnus-castus	2	Chaste Tree, Monk's Pepper
T	SD	Washingtonia filifera	2	California Fan Palm
T	SD	Washingtonia robusta	2-3 (sh)	Mexican Fan Palm
T,S	China	Xylosma congestum	3-4	Xylosma
A	SD	Yucca aloifolia	1	Spanish Bayonet Yucca
A	SD,CD	Yucca baccata	1	Banana Yucca
A	CD	Yucca brevifolia	1	Joshua Tree
A	CD	Yucca carnerosana	1	Giant Dagger Yucca
A	SD,CD	Yucca elata	1	Soaptree Yucca
Sc	U.S.	Yucca glauca	1	Small Soapweed Yucca
A	U.S.	Yucca recurvifolia (pendula)	2	Pendulous or Curveleaf Yucca
A,cl	CD	Yucca rigida	1	Blue Dagger Yucca
A	CD	Yucca rostrata	1	Beaked Yucca
Sc	SD	Yucca schottii	1	Mountain Yucca
A	CD	Yucca treculeana	1	Tree Yucca
A	SD	Yucca whipplei	1	Our Lord's Candle
Gc,cl	SD	Zauschneria californica	3	Hummingbird Trumpet
p,cl	SD,CD	Zinnia acerosa	1	Desert Zinnia
p,cl	CD	Zinnia grandiflora	2	Rocky Mountain Zinnia
T,I	Asia	Zizyphus jujuba	2	Chinese Date

GENERAL RESOURCE PLANTS

GENERAL RESOURCE PLANTS LIST

This list includes the majority of plants found on the "Recommended Plants List", but also contains plants that are successful in the Tucson area when used in appropriate design applications and are properly located, planted, maintained and irrigated. Plants not on the "Recommended" list require additional care, water, soil conditioning or environmental exposure that renders them less useful for the purposes of Chapter 18.73. Feasibility of the use of plant materials included on this list but which are not included on the "Recommended" list shall be carefully evaluated in the context of the specific site, plant location, function, exposure, the design concept and the irrigation scheme presented. The Environmental Zone Design Concept principles must be especially applied in the use of materials from this list. (Reference 18.73.030)

Abelia grandiflora	Glossy Abelia
Abelia grandiflora 'Prostrata' & al. cvs.	Prostrate Abelia & other cultivars
Acacia constricta	Mescat, Whitethorn Acacia
Acacia greggi	Catclaw Acacia
Acacia farnesiana	Sweet Acacia
Acacia smalli	Southwestern Sweet Acacia
Acacia stenophylla	Pencilleaf Acacia
Acanthus mollis	Soft Acanthus, Bear's Breech, Artist's Acanthus
Agave americana	Century Plant
Agave vilmoriniana	Octopus Agave
Ageratum houstonianum	Floss Flower
Ailanthus altíssima	Tree of Heaven
Ajuga reptans 'Purpurea'	Bronzeleaf Ajuga, Bronze Ajuga
Albizia julibrissin	Silk Tree, Mimosa
*Alocasia macrorrhiza	Elephant's Ear
Aloe barbadensis	Medicinal Aloe, Aloe Vera
Aloe ferox	Cape Aloe
Aloe saponaria	Mediterranean Aloe
*Anemone coronaria	Poppy Flowered Anemone, St. Brigid A.
Antigonon leptopus	Mountain Rose, Coral Vine, Queen's Wreath
Antirrhinum majus—many cvs.	Snapdragon—many cultivars
Aquilegia chrysantha	Golden Columbine
Araucaria bidwilli	Bunya-bunya
Arctostaphylos pungens	Pointleaf or Mexican Manzanita
Arecastrum romanzoffianum	Queen Palm
Arundinaria pygmaea (Sasa pygmaea)	Dwarf Bamboo
Arundo donax	Giant Reed
Asparagus densiflorus 'Sprengeri'	Sprenger's Asparagus
Asparagus falcatus	Sickle Thorn Asparagus
Aspidistra elatior	Common Aspidistra, Cast Iron Plant
Aster novae-angliae & cvs.	New England Aster & cultivars
Atriplex canescens	Four-wing Saltbush
Atriplex hymenelytra	Desert Holly
Atriplex lentiformis breweri	Brewer Saltbush
Atriplex semibaccata	Prostrate Australian Saltbush
Aucuba japonica 'Variegata' & al. cvs.	Japanese Aucuba, Gold Dust A. & other cvs
*Azalea—See Rhododendron	
Baccharis pilularis	Dwarf Coyote Bush
Baccharis pilularis 'Twin Peaks'	Twin Peaks Dwarf Coyote Bush
Baccharis sarothroides	Desert Broom
*Baileya multiradiata	Desert Marigold
Bambusa glaucescens cvs. (B.multiplex)	Hedge Bamboo cultivars
Bambusa oldhami	Giant Bamboo

Bauhinia forficata	White Butterfly Orchid Tree
Bauhinia variegata	Purple Orchid Tree, Buddhist Bauhinia
Bauhinia variegata ´Candida´	White Orchid Tree, White Buddhist Bauhinia
Beaumontia grandiflora	Herald´s Trumpet, Easter Lily Vine
Begonia semperflorens	Bedding Begonia, Perpetual Begonia, Wax-leaf Begonia
+Beloperone guttata—See Justicia brandegeana	
Bergenia cordifolia	Heartleaf Bergenia
# Bougainvillea (Named cultivar) (B.glabra X B.peruviana)	Cultivars: Barbara Karst; Orange King; California Gold; Texas Dawn
Bougainvillea spectabilis (B.brasilensis)	Purple Bougainvillea
Brachychiton populneus	Bottle Tree, Kurrajong
Brahea armata (Erythea armata)	Mexican Blue Palm
Brassaia actinophylla—See Schefflera	
Brunfelsia pauciflora ´Floribunda´	Yesterday-Today-and-Tomorrow
Butia capitata	Brazilian Butia, Pindo Palm
-Buxus microphylla japonica	Japanese Boxwood
*Buxus sempervirens ´Suffruticosa´	True Dwarf Boxwood, English Boxwood
*Caesalpinia gilliesi (Poinciana)	Bird of Paradise Bush, Mexican B. of P.
*Caesalpinia pulcherrima (Poinciana)	Dwarf Poinciana, Barbados Pride
Calendula officinalis cvs.	Calendula, Pot Marigold cultivars
Calliandra californica	Fairy Duster, False Mesquite
Calliandra eriophylla	Lemon Bottlebrush
Callistemon citrinus	Weeping Bottlebrush
Callistemon viminalis	Japanese Camellia—many cultivars
Camellia japonica—many cvs.	Sasanqua Camellia—many cultivars
Camellia sasanqua-many cvs.	Bellflower, Serbian Bellflower
Campanula poscharskyana	Common Trumpet Creeper
Campsis radicans	Canna Lily cultivars
Canna cvs.	Natal Plum
Carissa grandiflora	Prostrate Natal Plum & other cultivars
Carissa grandiflora ´Prostrata´ & al. cvs.	Saguaro, Sahuaro
Carnegiea gigantea	Ice Plant, Hottentot Fig
Carpobrotus edulis (Mesembryanthemum)	Pecan—many cultivars
Carya illinoinensis—many cvs.	Wormwood Senna, Feathery Cassia
Cassia artemisioides	Desert Cassia
Cassia eremophila (C.nemophila)	Golden Wonder Senna
Cassia splendida	
Cassia wislizeni	
Casuarina cunninghamiana	Cunningham Beefwood, River She-Oak
Casuarina stricta	Coast Beefwood
Catalpa speciosa	Western Catalpa, Cigar Tree
Catharanthus roseus (Vinca rosea) & cvs.	Madagascar Periwinkle & cultivars
Cedrus atlantica ´Glauca´	Blue Atlas Cedar
Cedrus deodara	Deodara Cedar
Celosia ´Plumosa´	Chinese Wool Flower
Celtis pallida	Spiny or Desert Hackberry
Celtis reticulata (C.douglasii)	Netleaf or Western Hackberry
Centaurea cineraria	Dusty Miller
Cephalophyllum ´Red Spike´	Red Spike Ice Plant
Ceratonia siliqua	Carob, St. John´s Bread Tree
Cercidium floridum	Blue Palo Verde
Cercidium microphyllum	Littleleaf or Foothill Palo Verde

Cercis canadensis	Eastern Redbud
Cercis chinensis	Chinese Redbud
Chaenomeles speciosa—many cvs.	Flowering Quince—many cultivars
Chamaedorea costaricana	Costa Rica Palm
Chamaedorea elegans	Cane Palm, Parlor Palm
Chamaedorea erumpens	Bamboo Palm
Chamaedorea seifrizi	Slender Leaf Bamboo Palm
Chamaerops humilis	Mediterranean Fan Palm
Chilopsis linearis	Desert Willow
Chorisia insignis	White Floss Silk Tree
Chorisia speciosa	Floss Silk Tree
Chrysanthemum morifolium cvs.	Forists' Chrysanthemum cultivars, Mum
Citrus aurantium	Sour Orange
Citrus aurantium bergamia 'Bouquet'	Bergamot Orange, Bouquet Orange
#Citrus calamondin	Calamondin
Citrus limon 'Eureka' & 'Improved Meyer'	Lemon cvs. Eureka & Improved Meyer
Clivia miniata	Kaffir Lily
Cocculus laurifolius	Laurel Leaf Cocculus
Codiaeum variegatum—many cvs.	Croton—many cultivars
Coleus X hybridus--many cultivars	Coleus--many cultivars
Condalia globosa pubescens	Squaw Bush
Condalia mexicana	Mexican Condalia
Consolida ambigua (Delphinium ajacis)	Annual Delphinium, Larkspur
*Convolvulus cneorum	Bush Morning Glory
Convolvulus mauritanicus	Morocco Glorybind, Ground Morning Glory
Cordia boissieri	Anacahuita, Texas Olive
Cordyline australis	Dracaena
Cortaderia selloana	Pampas Grass
Cosmos bipinnatus	Common Cosmos
Cosmos sulphureus	Yellow Cosmos
Cotinus coggygria	Common Smoke Tree
Cotinus coggygria 'Purpureus'	Purple Smoke Tree
#Cotoneaster glaucophyllus	Bright Bead Cotoneaster
Cotoneaster lacteus (C.parneyi)	Parney Cotoneaster
#Cotoneaster pannosus	Silverleaf Cotoneaster
#Cupressus arizonica	Rough Barked Arizona Cypress
Cupressus glabra	Smooth Barked Arizona Cypress
Cupressus sempervirens	Italian Cypress
Cupressus sempervirens 'Stricta'	Columnar Italian Cypress
Cycas revoluta	Sago Palm
*Cyclamen persicum—many cvs.	Ivyleaf or Florist Cyclamen—many cultivars
Cynodon dactylon	Bermuda Grass
Cynodon dactylon 'Hybrid'	Hybrid Bermuda Grass
Cyperus alternifolius	Umbrella Plant
Cytisus racemosus	Easter Broom
Dasylirion wheeleri	Sotel, Desert Spoon
+*Delphinium ajacis—See Consolida ambigua	
Delphinium elatum	Candle Delphinium, Candle Larkspur
Dichondra micrantha (D.carolinensis)	Ponyfoot, Dichondra
*Dieffenbachia maculata cvs.	Dumb Cane cultivars
Dietes vegeta (Moraea iridoides)	Fortnight Lily, African Iris
Dimorphotheca sinuata	Blue-eyed Cape Marigold, African Daisy
Diospyros kaki	Kaki, Japanese Persimmon

Dodonaea viscosa	Clammy Hop Bush
Dodonaea viscosa ´Purpurea´	Purple Hop Bush
+ Doxantha unguis-cati—See Macfadyena	
Dracaena fragrans	Cornplant
Dracaena marginata	Hawaiian Money Plant
Elaeagnus X ebbingei	Bigleaf Silverberry
Elaeagnus pungens	Thornleaf Elaeagnus, Silverberry
Encelia farinosa	White Brittle Bush
Epipremnum aureum (Pothos)	Variegated Heart Leaf Philodendron
Eriobotrya deflexa	Bronze Loquat
Eriobotrya japonica	Loquat
+ Erythea armata—See Brahea	
Eucalyptus camaldulensis	Red Gum, Red River Gum
Eucalyptus cinerea	Ash Mountain Gum
Eucalyptus microtheca	Tiny Capsule Eucalyptus
Eucalyptus polyanthemos	Silver Dollar Gum
Eucalyptus polyanthemos ´Poly-dan´	Poly-dan Silver Dollar Gum
Eucalyptus pulverulenta	Silver Mountain Gum
Euonymus fortunei radicans	Common Winter Creeper
Euonymus japonica—many cvs.	Japanese Euonymus many cultivars
Euonymus japonica ´Microphylla´	Boxleaf Euonymus
* Euphorbia mili	Crown of Thorns
* Euphorbia pulcherrima	Common Poinsettia
Fatshedera lizei	Fatshedera
Fatsia japonica	Japanese Aralia
Feijoa sellowiana	Pineapple Guava
* Festuca elatior	Alta Fescue
* Festuca ovina glauca	Blue Fescue
Ficus benjamina	Weeping Fig, Chinese Banyan, Benjamin Fig
Ficus carica	Common Edible Fig
Ficus elastica ´Decora´	Indian Rubber Tree
Ficus lyrata	Fiddleleaf Fig
# Ficus microcarpa (F.retusa)	Indian Laurel Fig
# Ficus microcarpa (retusa) nitida	Dwarf Upright Indian Laurel
Ficus pumila (F.repens)	Creeping Fig
Fortunella margarita	Nagami Kumquat
Fouquieria splendens	Ocotillo
Fraxinus uhdei	Mexican Ash, Evergreen Ash, Shamel Ash
Fraxinus velutina	Arizona Ash
# Fraxinus velutina ´Modesto´	Modesto Ash
# Fraxinus velutina ´Rio Grande´	Fan-Tex Ash
Gardenia jasminoides ´Mystery´	Mystery Gardenia
Gardenia jasminoides ´Veitchi´	Veitch Gardenia
Gardenia jasminoides ´Radicans´	Dwarf Gardenia
Garrya wrighti	Wright Silk-tassel
Gazania ringens	Treasure Flower, Gazania
Gazania ringens ´Copper King´	Copper King Gazania
Gazania ringens leucolaena	Trailing Gazania
Geijera parviflora	Australian Willow

*Gelsemium sempervirens	Carolina Jessamine
Gleditsia triacanthos inermis & cvs.	Thornless Honey Locust & cultivars
Gomphrena globosa	Globe Amaranth
#Grevillea 'Noelli'	Noel Grevillea
Grevillea robusta	Silk Oak
Hedera canariensis & H.c. 'Variegata'	Algerian & Variegated Algerian Ivy
*Hedera helix—many cvs.	English Ivy—many cultivars
Hedera helix 'Baltica'	Baltic Ivy—small leaf types
Hedera helix 'Baltica' 'Hahn's Self-Branching'	Hahn's Ivy
Hesperaloe parviflora	Red Aloe
Heteromeles arbutifolia	Toyon, California Holly
Heuchera sanquinea	Coral Bells
Hibiscus rosa-sinensis—many cvs.	Chinese Hibiscus—many cultivars
*Hypericum calycinum	Creeping St. Johnswort, Aaron's Beard
Iberis amara	Rocket Candytuft
Iberis sempervirens	Evergreen Candytuft
Ilex X altaclarensis 'Wilsoni'	Wilson Holly
Ilex cornuta	Chinese Holly
Ilex cornuta 'Burfordi'	Burford Holly
Iris X germanica	Bearded or German Iris, Orris
Jacaranda mimosifolia	Jacaranda
-Jacobinia ghiesbreghtiana--See Justicia spicigera	
Jasminum grandiflorum	Spanish Jasmine
Jasminum humile	Italian Jasmine
Jasminum mesnyi	Primrose Jasmine
Jasminum nitidum	Angelwing Jasmine
Jasminum polyanthum	Cluster Jasmine
*Juglans major	Arizona Black Walnut
Juniperus chinensis 'Columnaris'	Blue Column Juniper
#Juniperus chinensis 'Hetz's Columnaris'	Green Columnar Juniper
#Juniperus chinensis 'Mint Julep'	Mint Julep Juniper
Juniperus chinensis 'Pfitzerana'	Pfitzer Juniper
Juniperus chinensis 'Pfitzerana Glauca'	Blue Pfitzer
#Juniperus chinensis 'Robusta Green'	Robusta Green Juniper
#Juniperus chinensis 'San Jose'	San Jose Juniper
#Juniperus chinensis 'Seaspray'	Sea Green Juniper
Juniperus chinensis 'Torulosa'	Twisted or Hollywood Juniper
Juniperus conferta	Shore Juniper
Juniperus deppeana	Alligator Juniper
Juniperus horizontalis 'Bar Harbor'	Bar Harbor Juniper
Juniperus horizontalis 'Wiltoni'	Wilton Carpet Juniper
#Juniperus sabina 'Arcadia'	Arcadia Juniper
#Juniperus sabina 'Broadmoor'	Broadmoor Juniper
Juniperus sabina 'Tamariscifolia'	Tamarix or Tam Juniper
#Juniperus scopulorum 'Gray Gleam'	Gray Gleam Juniper
#Juniperus scopulorum 'Pathfinder'	Pathfinder Juniper
*Justicia brandegeana (Beloperone guttatta)	Shrimp Plant
Justicia spicigera (Jacobinia g.)	Mexican Honeysuckle

#Koeberlinia spinosa	Spiny All Thorn, Corona-de-Cristo
Lagerstroemia indica-many cvs.	Crape Myrtle--many cultivars
*Lantana camara--many cvs.	Bush Lantana--many cultivars
Lantana montevidensis	Trailing Lantana
Larrea tridentata	Creosote Bush
*Lathyrus odoratus--many cvs.	Sweet Pea--many cultivars
Laurus nobilis	True Bay, Grecian Laurel
Leucophyllum frutescens & L.f. ´Compactum´	Texas Silverleaf or Ranger & Compact T.R.
*Ligustrum japonicum (L.texanum)	Japanese Privet, Waxleaf Privet
*Ligustrum lucidum	Glossy Privet, Chinese Privet
Liriope muscari ´Munroe´	Big Blue Lily Turf
Liriope muscari ´White´ & al.cvs.	White Flowered Lily Turf & other cultivars
Lobularia maritima--many cvs.	Sweet Alyssum--many cultivars
Lolium multiflorum	Winter Rye
Lonicera japonica ´Halliana´	Hall´s Honeysuckle
Lysiloma thornberi	Feather Bush
Macfadyena unguis-cati (Doxantha u.)	Cat´s Claw, Funnel Creeper
Magnolia grandiflora	Southern Magnolia
Magnolia grandiflora ´St. Mary´	St. Mary´s Magnolia
Magnolia X soulangiana	Saucer Magnolia
Mahonia aquifolium	Oregon Grape
Mahonia aquifolium ´Compacta´	Compact Oregon Grape
Malephora crocea	Croccum, Ice Plant
Matthiola incana--many cvs.	Stock--many cultivars
Melampodium leucanthum	Blackfoot Daisy
*Melia azedarach & M.a. ´Umbraculifera´	Chinaberry & Texas Umbrella Tree
Monstera deliciosa	Splitleaf Philodendron
+Moraea iridoides--See Dietes vegeta	
Musa X paradisiaca	Common Fruiting Banana
Myrtus communis	True Myrtle, Roman Myrtle
#Myrtus communis ´Boetica´	Twisted Myrtle
Myrtus communis ´Compacta´	Dwarf Myrtle
Nandina domestica	Heavenly Bamboo, Nandina
#Nandina domestica ´Compacta´	Compact Heavenly Bamboo, Compact Nandina
#Nandina domestica ´Nana´	Dwarf Nandina, Dwarf Heavenly Bamboo
Nerium oleander--many cultivars	Common Oleander--many cultivars
Nerium oleander ´Petite´--many cultivars	Dwarf Oleander--many cultivars
Oenothera berlandieri (O. speciosa childisii)	Mexican Evening Primrose
Olneya tesota	Ironwood, Tesota
Ophiopogon japonicus	Mondo Grass
Opuntia acanthocarpa	Buckhorn Cholla
Opuntia bigelovi	Teddy Bear Cholla
Opuntia ficus-indica	Tuna Cactus, Spineless Cactus

Opuntia fulgida	Jumping Cholla, Chain Fruit Cholla
Opuntia phaeacantha discata (O.engelmanii)	Engelmann Prickly Pear
Opuntia phaeacantha major (O.mojavensis)	Prostrate Common Prickly Pear
Osmanthus fragrans	Sweet Olive
Osteospermum fruticosum	Trailing African Daisy
#Osteospermum fruticosum ´White Hybrid´, O.f. ´White Cloud,´ O.f. ´Snow White´	White Trailing African Daisy
Pandanus veitchi	Veitch Screw Pine
Papaver nudicaule	Iceland Poppy
# Papaver nudicaule ´Champagne Bubbles´	Champagne Bubbles Poppy
Parkinsonia aculeata	Mexican Palo Verde, Jerusalem Thorn
* Parthenocissus quinquefolia	Virginia Creeper
Parthenocissus tricuspidata	Boston Ivy, Japanese Creeper
Pelargonium X hortorum—many cultivars	Geranium—many cultivars
Pennisetum setaceum	Fountain Grass
Pennisetum setaceum ´Cupreum´	Purple Fountain Grass
Petunia X hybrida—many cvs.	Petunia—many cultivars
Philodendron bipinnatifidum	Selloum Hybrid
Philodendron erubescens	Red Leaf Philodendron
Philodendron scandens oxycardium (P.cordatum)	Heart Leaf Philodendron
Philodendron selloum	Philodendron, Selloum
Phoenix canariensis	Canary Island Date Palm
Phoenix dactylifera	Date Palm
Phoenix roebeleni	Pigmy Date Palm
Photinia X fraseri	Photinia
Photinia serrulata	Chinese Photinia
Photinia serrulata ´Aculeata´ (P.s.´Nova´)	Compact Chinese Photinia
Phyla nodiflora	Lippia
Phyllostachys aurea	Golden Bamboo
Phyllostachys aureosulcata	Yellow Grove Bamboo
Phyllostachys nigra	Black Bamboo
Pinus canariensis	Canary Island Pine
Pinus cembroides	Mexican Pinon Pine
Pinus coulteri	Coulter Pine
# Pinus eldarica	Mondel Pine
Pinus edulis	Colorado Pinon Nut Pine
Pinus halepensis	Aleppo Pine
Pinus monophylla	Singleleaf Pinon Pine
Pinus pinaster	Cluster Pine, Maritime Pine
Pinus pinea	Italian Stone Pine
Pinus ponderosa	Ponderosa Pine
Pinus radiata	Monterey Pine
Pinus roxburghi	Chir or Longleaf Pine
Pinus thunbergiana	Japanese Black Pine
Pinus torreyana	Torrey Pine
Pistacia atlantica	Mr. Atlas Pistache
Pistacia chinensis	Chinese Pistache
Pistacia lentiscus	Lentish or Evergreen Pistache
Pithecellobium flexicaule	Texas Ebony
Pittosporum phillyraeoides	Willow Pittosporum
Pittosporum tobira & P.t.´Variegata´	Tobira, Japanese Mock Orange & Variegated P.T
Pittosporum tobira ´Wheeler´s Dwarf´	Compact Pittosporum

Platanus X acerifolia	European Sycamore, London Plane Tree
Platanus racemosa	California Sycamore or Plane Tree
Platanus wrighti	Arizona Sycamore or Plane Tree
Platycladus orientalis (Thuja)—many cvs.	Oriental Arborvitae—many cultivars
Platycladus orientalis 'Aureus'	Golden Arborvitae
Plumbago auriculata	Cape Plumbago
Podocarpus macrophyllus	Yew Pine
Populus alba	White Poplar
Populus fremonti	Fremont Cottonwood
Potentilla crantzi	Spring Cinquefoil
Primula malacoides	Fairy Primrose
Primula X polyantha	English Primrose—many hybrids
#Prosopis alba	Argentine Mesquite
#Prosopis chilensis	Chilean Mesquite
#Prosopis glandulosa glandulosa	Honey or Texas Mesquite
#Prosopis velutina	Velvet Mesquite
#Prosopis So.Am.hybrid sold as P.chilensis	Hybrid South American Mesquite, Algarrobo
*Prunus caroliniana	Carolina Laurel Cherry
*Prunus cerasifera	Cherry Plum
	Purpleleaf Cultivars: 'Atropurpurea', 'Hollywood', 'Thundercloud'
*Prunus persica—many cvs.	Flowering & Fruiting Peach—many cultivars
Punica granatum	Pomegranate
Pyracantha coccinea & P.c.'Lalandei'	Orange-Red Berry Pyracantha
#Pyracantha 'Duvali', 'Rosedale', 'Santa Cruz', 'Victory'	Red Berry Pyracantha Hybrids
Pyrus kawakami	Evergreen Pear
*Quercus agrifolia	California or Coast Live Oak
*Quercus emoryi	Emory Oak
*Quercus ilex	Holly Oak, Holm Oak
*Quercus suber	Cork Oak
*Quercus virginiana	Southern Live Oak
*Ranunculus asiaticus	Persian Ranunculus, Tecolote Ranunculus
Raphiolepis indica	Indian Hawthorn
Rhapis excelsa	Lady Palm
Rhapis humilis	Slender Lady Palm
*Rhododendron indicum hybrids	Southern Indica Azalea Hybrids
#Rhus choriophylla	Southern Arizona Sumac
Rhus lancea	African Sumac
Rhus ovata	Sugar Bush, Sugar Sumac
Rhus virens	Evergreen Sumac
*Ricinus communis	Castor Bean
Rosa banksiae	Lady Banks' Rose
Rosmarinus officinalis	Rosemary
Rosmarinus officinalis 'Prostratus'	Dwarf Rosemary
Rudbeckia hirta	Gloriosa Daisy, Black-Eyed Susan
Sabal domingensis (S.blackburniana)	Hispaniolan Palmetto
Sabal palmetto	Cabbage Palm
Sabal uresana	Sonoran Palmetto
Salix babylonica	Weeping Willow
Salix matsudana 'Navajo'	Globe Navajo Willow

Salvia splendens	Scarlet Sage
#Sambucus mexicana	Mexican Elderberry
Santolina chamaecyparissus	Lavender Cotton
Santolina virens	Green Santolina
Sasa pygmaea—See Arundinaria pygmaea	
Schefflera actinophylla	Octopus Tree
Schinus molle	California Pepper Tree
Schinus polygamus	Peruvian Pepper Tree
Schinus terebinthifolius	Brazilian Pepper Tree
*Senecio cineraria	Dusty Miller, Silver Groundsel
Setcreasea pallida 'Purple Heart'	Purple Heart
Simmondsia chinensis	Jojoba, Goat Nut
Sophora secundiflora	Mescal Bean, Texas Mountain Laurel
Spathiphyllum 'Clevelandi'	White Anthurium
Stenolobium stans—See Tecoma stans	
Stenotaphrum secundatum	St. Augustine Grass
*Strelitzia reginae	Queen's Bird of Paradise, African B.of P.
Syngonium podophyllum (Nephthytis afzeli)	Arrowhead Vine
Syringa X persica	Persian Lilac
#Syringa vulgaris 'Lavender Lady'	Lavender Lady Lilac
Tagetes spp.—many cvs.	Marigold—many cultivars
Tamarix aphylla	Athel Tree, Tamarisk
Tamarix parviflora	Spring Flowering Salt Cedar
Taxodium mucronatum	Montezuma Cypress
Tecoma stans (Stenolobium stans)	Trumpet Bush, Yellow Trumpet
Tecomaria capensis	Cape Honeysuckle
Ternstroemia gymnanthera	Waxy Ternstroemia
Teucrium chamaedrys	Chamaedry Germander
Teucrium chamaedrys 'Prostratum'	Prostrate Germander
Teucrium fruticans	Bush Germander
*Thevetia peruviana	Yellow Oleander
Thuja orientalis—See Platycladus	
Trachelospermum asiaticum (Rhynchospermum)	Dwarf Star Jasmine
Trachelospermum jasminoides (Rhynchospermum)	Star Jasmine
Trachycarpus fortunei (Chamaerops)	Windmill Palm
Trifolium repens	White Clover
Tulipa cvs & hybrids	Tulip—many cultivars and hybrids
Tupidanthus calyptratus	Tupidanthus
Ulmus parvifolia	Chinese Elm
Ulmus pumila	Siberian Elm
#Vauquelinia californica	Arizona Rosewood, Torrey Vauquelinia
Verbena peruviana	Peruvian Verbena
Viburnum X burkwoodi	Burkwood Viburnum
Viburnum japonicum	Japanese Viburnum
Viburnum suspensum	Sandankwa Viburnum
Viburnum tinus 'Lucidum'	Shining Laurustinus
Vinca major & V.m.'Variegata'	Bigleaf Periwinkle & Variegated Bglf.Per.
Vinca minor	Dwarf or Common Periwinkle
Viola cornuta—many cvs.	Viola, Tufted Pansy—many cultivars

Viola odorata	Sweet Violet
Viola tricolor	Johnny Jump-Up, Wild Pansy
#Viola wittrockiana cultivars	Garden Pansy—many cultivars
Vitex agnus-castus	Chaste Tree, Monk's Pepper
Vitis vinifera—many cvs	European Grape—many cultivars
Washingtonia filifera	California Fan Palm
Washingtonia robusta	Mexican Fan Palm
*Wisteria floribunda--many cvs.	Japanese Wisteria--many cultivars
*Wisteria sinensis—many cvs.	Chinese Wisteria—many cultivars
Xylosma congestum	Xylosma
Yucca aloifolia	Spanish Bayonet
Yucca brevifolia	Joshua Tree
Yucca elata	Soaptree Yucca
Yucca gloriosa	Spanish Dagger, Soft Tip Yucca
Yucca recurvifolia (Yucca pendula)	Pendulous Yucca, Curveleaf Yucca
Zauschneria californica latifolia	Hummingbird Flower
Zinnia elegans—many cvs.	Common Zinnia—many cultivars
*Ziziphus jujuba	Chinese jujube, Common Jujube
Zoysia japonica	Zoysia Grass

NOMENCLATURE Genus species subspecies 'Cultivar'

Each scientific plant name is unique to that plant. It is made up of a genus name, which is always first and always capitalized, representing the name of a group of plants; the species, which is always second and never capitalized, (following the lead of Western Garden Book) designating the individual within that group. Either one or both may be abreviated by its (their) first initial, if and only if it is immediately preceded by the name in full for reference.

Variations and subspecies within a species are designated by a third name which is never capitalized. Named cultivars are designated by the capitalized name in single quotes after the scientific name.

Sometimes hybrids attain sufficient standing to be assigned a scientific name and then the genus and species are separated by a capital X, e.g. Genus X species.

In the case of a species name which ends with a double 'i' (ii), many authorities are dropping the second 'i' because it is poor Latin. This class will also use the single 'i' ending.

Key to symbols

#Exceptions to the nomenclature in Hortus III

*Poisonous. For information call Arizona Poison Control Center 626-6016

+Still carried under an obsolete name in nurseries

()Obsolete name, for reference only

BUFFER OVERLAY ZONE PLANT LIST

CHAPTER 18.67, PIMA COUNTY ZONING CODE

Resolution No. 1988-151

A RESOLUTION OF THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA, PURSUANT TO ZONING CODE SECTION 18.73.030 AND CHAPTER 18.67, AMENDING THE LANDSCAPE DESIGN MANUAL, ADDING APPROVED AND PROHIBITED PLANT LISTS; AMENDING SITE ANALYSIS REQUIREMENTS:

BE IT RESOLVED BY THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA:

SECTION 1. That the Landscape Design Manual is hereby amended, pursuant to Zoning Code Chapter 18.67 and Section 18.73.030 to add a Buffer Overlay Zone Approved Plant List:

Buffer Overlay Zone Approved Plant List

1. Abutilon californicum (California abutilon)
2. Acacia species (acacias)
3. Agave species (Century plants, Spanish daggers)
4. Aloysia lycioides (White brush)
5. Amaranthus palmeri (Palmers amaranth)
6. Ambrosia ambrosioides (Canyon ragweed)
7. Ambrosia deltoidea (Bursage)
8. Anisacanthus thurberi (Chiparosa, Desert honeysuckle)
9. Arctostaphylos pungeus (Pointleaf manzanita)
10. Artemesia ludoviciana (A. Dracunculoides)

Planning and Development Services

11. Asclepias subulata (Desert milkweed)

12. Atriplex species (Saltbush)

13. Bebbia juncea (Bebbia)

14. Beloperone californica (Chuparosa)

15. Berber is haematocarpa (Red barberry)

16. Buddleja marrubifolia (Wooly butterfly bush, Summer lilac, Elephant tree)

17. Calliandra species (Fairy duster)

18. Canotia holacantha (Crucifixion-thorn)

19. Carlowrightia arizonica (Carlowrightia)

20. Carnegiea gigantea (Saguaro)

21. Cassia species (Cassias and Sennas)

22. Ceanothus species (Buckbrush)

23. Celtis pallida (Desert hackberry)

24. C. reticulata (Netleaf or western hackberry, Palo blanco)

25. Cercidium floridum (Blue palo verde)

26. C. microphyllum (Foothill palo verde)

27. Cercocarpus montanus (Mountain mahogany)

28. Chilopsis linearis (Desert willow, Desert catalpa)

29. Clianthus formosus (Sturts desert pea)

30. Condalia warnockii (Graythorn)

31. C. spathulata (Mexican crucillo)

32. Cordia parviflora (Littleleaf cordia)

33. Crossosoma bigelovii (Crossosoma)

34. Cupressus arizonica (Arizona cypress)

35. Dalea species (Indigo bush)

36. Dasyliron wheeleri (Desert spoon)

37. Dodonea viscosa (Hop bush)

38. Echinocereus Englemannii (Hedgehog cactus)

39. E. triglochidiatus (Claret cup hedgehog)

40. Encelia farinosa (Brittle bush)

41. Ephedra trifurca (Mormon tea)

42. E. nevadensis var. aspera (Boundary ephedra)

43. Eriogonum spp (Buckwheats)

44. Eysenhardtia polystachya (Kidneywood)

45. Fallugia paradoxa (Apache plume)

46. Fendlera rupicola (Fendlerbush, Cliff)

47. Ferocactus wislizenii (Barrel cactus)

48. Forestieria neomexicana (Desert olive)

49. Fouquieria splendens (Ocotillo)

50. Fraxinus velutina (Arizona ash)

51. Haplopappus laricifolia (Turpentine bush)

52. H. tenuisectus (Burro weed)

53. Hedcoma nanum (Mockpenny royal)

54. Holacantha emoryi (Crucifixion-thorn)

55. Hyptis emoryi (Desert lavender)

56. Janusia gracilis (Janusia)

57. Jatropha cardiophylla (Limber bush)

58. Juglans mucrocarpa var. major (Arizona walnut)

59. Krameria species (Ratany)

60. Larrea tridentata (Creosote bush)

61. Lippia species (Lippia)

62. Lupine species (Lupine)

63. Lycium species (Wolfberry, Tomatillo)

64. Lysiloma candida (Palo blanco)

65. L. thornberi (Featherbush, Fern of the desert)

66. Mammilaria species (Fish-hook)

67. Mimosa biuncifera (Catclaw, Wait-a-minute bush)

68. M. dysocarpa (Velvet pod mimosa)

69. Mendora scabra (Twin-berry)

70. Mimulus species (Monkey flowers)

71. Nicotiana spp (Wild tobacco)

72. Nolina bigelovii (Bear grass, Bigelow nolina)

73. N. microcarpa (Bear grass)

74. Olneya tesota (Ironwood)

75. Opuntia species (Chollas and Prickly pears)

76. Penstemon species (Penstemon)

77. Platanus Racemosa var. wrightii (Arizona sycamore)

78. Populus fremontii (Fremont cottonwood)

79. Psilostrophe cooperi (Paperflower)

80. Prosopsis juliflora (Western honey mesquite)

81. P. juliflora var. velutina (Velvet mesquite)

82. P. pubescens (Fremont screwbean)

83. Quercus species (Live oaks)

84. Rhamnus species (Buckthorn)

85. Rhus ovata (Mountain laurel)

86. R. trilobata (Squaw bush, Skunk bush)

87. Rose arizonica (Arizona wild rose)

88. Ruellia nudiflora

89. Salix species (Willow)

90. Salvia species (Mint/Chia)

91. Sambucus caerulea var. mexicana (Mexican elderberry)

92. Simmondsia chinesis (Jojoba)

93. Sophora formosa

94. Tecoma stans (Trumpetbush, Arizona yellow bells)

95. Vauquelina californica (Arizona rosewood)

96. Viguieria deltoidea (Golden eye)

97. Vitis arizonica (Arizona grape)

98. Yucca species (Yucca)

99. Zauschneria latifolia (Hummingbird flower)

100. Zinnia acerosa (Desert zinnia)

101. Ziziphus obtusifolia (Greythorn, White crucillo)

SECTION 2. That the Landscape Design Manual is hereby amended, pursuant to Zoning Code Chapter 18.67 and Section 18.73.030, to add a Buffer Overlay Zone Prohibited Plant List:

<u>Buffer Overlay Zone Prohibited Plant List</u>

1. Baccharis species (Desert Broom)

2. Casuarina species (Beefwood)

3. Cedrus species (Cedar)

4. Cupressus semperviren (Italian cypress)

5. Eucalyptus species

6. Gleditsia triacanthus inermis (Honey locust)

7. Grevillea robusta (Silk oak)

8. Oleanders (Nerium oleander)

9. Pennisetum species

10. Phoenix dactylifera (Date palm)

11. Pinus species (Pines)

12. Populus species except Populus fremontii (Poplar)

13. Tamarix aphylla (Tamarisk or Salt cedar)

14. Thevetia (Thevitia species)

15. Washingtonia specias (Fan palm)

SECTION 3. That the Pima County Site Analysis Requirements are hereby amended as follows to add guidelines to be utilized when property is affected by Chapter 18.67 of the Pima County Zoning Code:

BUFFER OVERLAY ZONE REQUIREMENTS

Requirements marked with an asterisk (*) shall be used in conjunction with Chapter 18.67 of the Pima County Zoning Code when preparing a site analysis for rezoning, specific plan or cluster option. They are otherwise optional for site analysis.

PLANTING IN THE PIMA COUNTY RIGHT-OF-WAY

BOARD OF SUPERVISORS POLICY

PIMA COUNTY, ARIZONA

BOARD OF SUPERVISORS POLICY

Subject:	Policy Number	Page
PLANTING IN PIMA COUNTY RIGHT-OF-WAY	F 54.1	1 of 5

Purpose

The purpose of this policy is to assist in furthering the community goal of increasing vegetative cover with the associate benefits as promoted by organizations such as *Global Re-leaf*, *Trees for Tucson*, and *Tucson Clean and Beautiful*.

Policy

The Pima County Department of Transportation and Flood Control District will allow planting in County right-of-way under the conditions described below:

1. A plan conforming to the guidelines illustrated and described in Exhibit A, is submitted with the permit application. Permits are available through the Pima County Department of Transportation and Flood Control District, Permit Section.

2. Pima County may remove or trim plants in the County right-of-way at any time for road or shoulder widening, or if they become a safety hazard.

3. Adjacent property owners are responsible for trimming plants so that they do not interfere with pedestrian or vehicular traffic.

4. An understandable plan that shows all objects within 25 feet of the proposed planting must be presented with the permit application. The plan must include pavement, curb, sidewalk, shoulder, utility locations (water, sewer, gas, electric, cable), and proposed planting. For utility setbacks, see Exhibit B.

5. State law requires location of underground utilities prior to excavation in public streets and easements. Blue Stake (792-2211) must be called at least two working days prior to excavation so that utility locations can be marked.

6. Root barriers shall be installed where trees are planted within four feet of curb or sidewalk.

7. A list of trees for use within the clear zone that meets the County's requirement that trunk size not exceed 4", or be multi-trunked, is contained in Exhibit C. Low water use native or arid adapted plants are recommended for use in County right-of-ways.

8. A right-of-way use permit will be required, and associated permit fees existing at the time of application will be charged.

Program Responsibilities

Pima County Departments

The Pima County Department of Transportation and Flood Control District, Permits Section, shall be responsible for the review and approval of plans prior to issuance of permit applications in accordance with the guidelines set forth in Exhibits A, B, and C.

Responsible Department

Pima County Department of Transportation and Flood Control District

A. Clear Zone
Uses: Bike lane, curb and gutter, shoulder, traffic signs, pedestrian paths (4' wide min.), 6:1 slopes max., ground covers, organic and inorganic shrubs, trees with trunks less than 4" diameter measured at 18" above grade, multi-trunked trees.

B. Non Restricted Planting Zone (To Right-of-Way Limit)
Uses: Pedestrian path (4' wide min.) 3:1 slopes max. (slopes exceeding 3:1 may be allowed if revegetated or stabilized in accordance with Section 18.81 Pima County Zoning Code, ground covers, shrubs, trees (all sizes), saguaro cacti, existing vegetation,

C. Intersection Sight Visibility
Intersection sight visibility must conform to sight visibility triangle standards as described in the Pima County Department of Transportation & Flood Control District Subdivision Street Standards.

* Clear Zone Requirement
Up to 25 MPH - 10'
26 to 35 MPH - 15'
Over 36 MPH - 20'

** Shoulder
Eight feet no planting zone

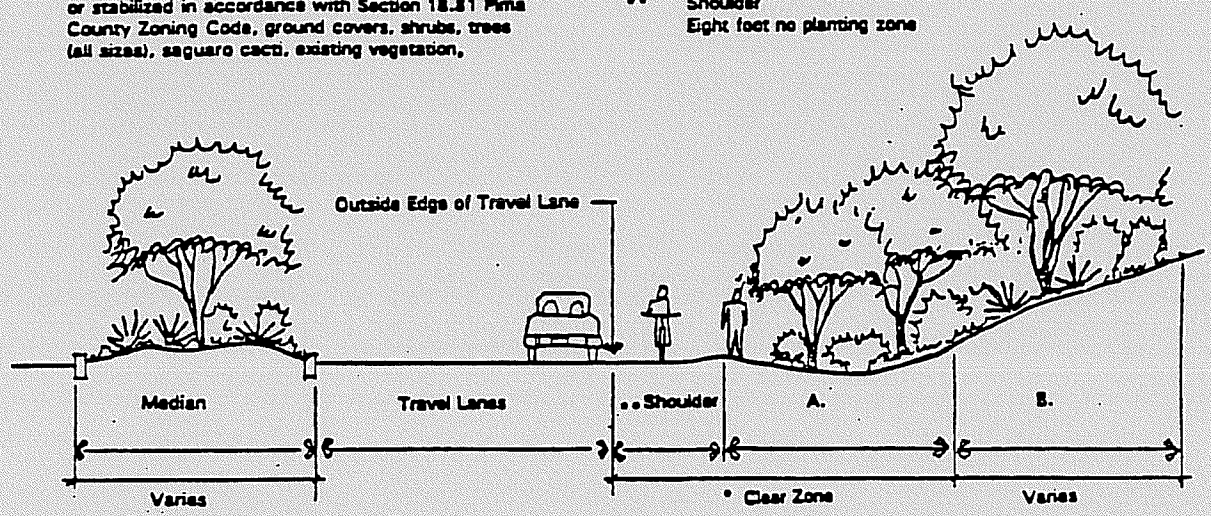

EXHIBIT A

EXHIBIT B
UTILITY SETBACK FOR TREES

Setbacks to utility lines are for the protection of the person(s) performing excavation near the utility. Damage to a utility line could result in charges for repair, or possible injury to the excavator. State law requires that underground utilities must be located prior to excavation in public right-of-way. Call Blue Stake (792-2211) at least 2 working days prior to excavation so the area can be marked for utility locations.

Underground Lines	Minimum Setback	Recommended Setback by Utility
Water Main Lines	3 feet	5 feet
Water Service Lines	3 feet	5 feet
Natural Gas Line	3 feet	3 feet
Electric/Telephone Lines	3 feet	3 feet
Cable TV	2 feet	3 feet
Sewer Main Lines	3 feet	10 feet
Sewer House Connections	3 feet	10 feet
Note: Sewer house connections are private and are not marked by Blue Stake.		
Telephone & Electric Vaults & Pullboxes	50 feet	50 feet
Aboveground Utilities		
Any utility equipment with doors	3 feet	5 feet
Water Meters/Fire Hydrants	5 feet	10 feet
Utility Poles		
7'-15' trees	5 feet	---
15'-25' trees	5 feet	---
25'-60' trees	8 feet	15 feet

Electric & Telephone Lines Trees should not be planted directly under overhead lines. If planting under an overhead line is unavoidable, only low growing trees should be used. Contact the appropriate utility for more details.

Planting near street lights can obscure the light and create a safety hazard. Locate the tree so as not to create a hazard.

Do not obscure utility meters.

EXHIBIT C

APPROVED TREES FOR CLEAR ZONE

Botanical Name	Common Name
Acacia minute (smallii)	Southwestern Sweet Acacia
Acacia saligna	Wattle tree
Acacia stenophylla	Shoestring Acacia
Chilopsis linearis	Desert Willow
Lysiloma thornberi	Feather Brush
Pittosporum phillyraeoides	Willow Pittosporum
Acacia salicina	Bottle Tree
Cercidium floridum	Blue Palo Verde
Cercidium praecox	Palo Brea
Acacia abyssinica	Abyssinian Acacia
Acacia constricta	Whitethorn Acacia
Acacia greggii	Catclaw Acacia
Acacia shaffneri	Twisted Acacia
Cercidium microphyllum	Foothills Palo Verde
Cordia boissieri	Texas Olive
Leucaena retusa	Golden Ball Lead Tree
Pithecellobium fexicaule	Texas Ebony
Pithecellobium mexicanum	Mexican Ebony
Prosopis pubescens	Screwbean Mesquite
Prosopis velutina	Velvet Mesquite
Punica granatum	Pomegranate
Albizia julbrissin	Mimosa

REQUIREMENTS FOR LANDSCAPE PLANS

Landscape Plans shall include the following:

1. Project name, Co12 reference number, plan title, and where applicable, Co9 or other special-case reference number.

2. Name, address and phone number of preparer.

3. North arrow, scale and location map.

4. Property lines, project limits, topographic lines and elevations.

5. Existing and/or conditionally approved zoning of project, existing and approved use and zoning of adjacent properties; names and right-of-way width of adjacent roads.

6. Bufferyards:

   a. The specific bufferyards required; the specific bufferyards provided;
   b. All materials provided to satisfy bufferyard requirements: plants, berms, walls, heights, etc.; and
   c. Square footage of total bufferyard area provided.

7. Where applicable, parking area screening and planting, per Chapter 18.75.

8. Where applicable, a response to all conditions of rezoning or Design Review Committee approval that pertain to landscaping, vegetation preservation, revegetation, buffering, screening or other environmental concerns.

9. Address irrigation requirements in accordance with Section 18.73.030-B.8. Specifically describe the method(s) and system(s) used.

10. Address maintenance requirements in accordance with Section 18.73.080. Specifically describe the maintenance and include a statement assuring the continued maintenance program of the required landscaping and assigning the responsibility of the maintenance to the property owner or agent, a homeowners' association or other liable entity.

11. Graphically show the extent of disturbed/graded areas and all materials and elements provided for the revegetation and/or slope stabilization of these areas (including detention/retention basins) as required by the Grading Ordinance, Grading Design Manual and the Stormwater Detention/Retention Manual. For those projects requiring a Type II Grading Permit, provide a copy of the grading plan, or superimpose the landscape plan information on the grading plan.

12. Graphic representation of all landscape elements, including significant existing, preserved, relocated and introduced plant materials, inorganic groundcover, architectural features and their functions.

13. A plant list and legend, indicating the scientific and common name of each plant, plant size, location and symbol and whether preserved, transplanted or introduced.

14. The square footage should be provided for the following: the site, the building and storage yard footprints, gross parking area, amenity landscaping required and amenity landscaping provided.

15. All easements (utility, drainage, access, sewer, etc.) Provide a letter of permission from holders of easements rights to allow for any landscaping within easements. When landscaping or bufferyards are required or used within or near sewer easements, elements such as walls, fences, boulders and trees should be placed so as not to interfere with access to manholes and sewer lines.

16. A design concept statement, plan notes or sketches that contain:

    a. Plant selection.

    b. Environmental zone and mini-oasis concepts, and where applicable.

    c. Irrigation: groundwater, effluent and stormwater runoff detention and use; temporary or permanent systems.

    d. Site grading and how it benefits landscaping.

    e. Use of groundcover, both organic and inorganic, and

    f. Use or disposal of existing, on-site vegetation and a statement indicating compliance with ARS Section 3-904 **(Native Plant Law)**.

17. If the plan is a phase or portion of an overall landscape plan the following shall apply:

    a. Boundary limits of the phase must be clearly noted on a copy of the overall plan.

    b. Plant selection and design of the subsequent phases must conform to the overall plan.

18. Provide cross-corner sight distance triangles. Landscape materials must be selected and placed so as not to interfere

with drivers' visibility within cross-corner sight distance triangles and within a visibility plane described by two horizontal lines located 30 inches and 72 inches above finished grade of the roadway surface.

19. Plant materials with intrusive root systems shall not be placed within drainage basins with engineered bottoms.

20. When grading plans or a combination paving/grading plan is required, the landscaping plans shall be submitted (to SCO) concurrently with the first submittal of the grading plans (to Transportation Planning and Development).

21. A revised landscape plan must be submitted if slope treatments, etc., are modified on the approved paving/grading plans.

NOTE: An extra copy of the landscape plan must be submitted to the Subdivision Coordination Office for review by Floodplain Control Planning and Development <u>if</u> there is landscaping located within a detention/retention basin or channels.

Reference Chapter 18.73, LANDSCAPING, BUFFERING AND SCREENING STANDARDS, the Landscape Design Manual and Chapter 18.75, OFF-STREET PARKING AND LOADING STANDARDS, Chapter 18.81, GRADING STANDARDS, the Grading Design Manual and the Stormwater Detention/Retention Manual for further information.

<u>REQUIRED NOTES</u>

1. Materials within sight visibility triangles shall be placed so as not to interfere with a visibility plane described by two horizontal lines located 30 inches and 72 inches above finished grade of the roadway surface.

NOTE: An itemized transmittal letter must be attached to ALL plans that are resubmitted addressing ALL comments and revisions made.

PROCLAMATION

WHEREAS, environmental issues such as global warming, acid rain, depletion of the ozone layer and rainforest destruction are of global concern, and require local action; and

WHEREAS, trees are environmental wonders that remove carbon dioxide from the air, absorb other pollutants, offer shade and cool our cities, conserve energy, provide food and control erosion and storm water; and

WHEREAS, the number of trees in our cities is declining and growing space is often inadequate; and

WHEREAS, Arizonans can act together to improve their local environments and combat the global environmental crisis by planting trees and developing urban forestry programs; and

WHEREAS, Trees for Tucson - Global ReLeaf exemplifies this spirit through planting of 500,000 desert-adapted trees to improve environmental quality, conserve natural resources, and enhance civic pride and the beauty of our region.

BE IT, THEREFORE, RESOLVED, that the Pima County Board of Supervisors do hereby proclaim the week of October 21 through 28, 1989 as

TREES FOR TUCSON - GLOBAL ReLEAF WEEK

and urge the residents of Pima County to join together with other Arizonans to improve environmental quality, conserve natural resources, increase civic pride and beautify our community through tree planting with a goal of planting and nurturing one water-thrifty tree for each citizen of this State by December 31, 1995.

PASSED AND ADOPTED this 17th day of October, 1989.

PIMA COUNTY BOARD OF SUPERVISORS

By _____
Dan Eckstrom, Chairman

ATTEST:

_____
Jane S. Williams, Clerk of
the Board of Supervisors

RESOLUTION NO. 1987-193

RESOLUTION OF THE PIMA COUNTY BOARD OF SUPERVISORS RELATING TO THE ADOPTION OF THE "XERISCAPE" LANDSCAPING PROGRAM

WHEREAS, "Xeriscape" is a program designed to conserve water in the landscape, and

WHEREAS, the principles of "Xeriscape" are currently incorporated in Pima County's Landscape Ordinance, and

WHEREAS, the "Xeriscape" program is endorsed nationally by the National Xeriscape Council, Inc., and locally by the Southern Arizona Water Resources Association (SAWARA), and

WHEREAS, the "Xeriscape" program further promotes the public awareness of water conservation,

The Pima County Board of Supervisors does hereby resolve as follows:

To adopt, by name, "XERISCAPE";

To adopt and continue to promote the seven principles of "Xeriscape" which include:

1. Water conserving design,

2. Low water use/drough tolerant plants,

3. Reduction in turf,

4. Water harvesting techniques,

5. Appropriate irrigation methods,

6. Soil improvements and use of mulches, and

7. Proper maintenance practices;

To take appropriate action to join the National Xeriscape Council, Inc., which was organized to "promote, encourage, assist, and establish community programs for water conservation achieved through sound landscaping practices, and to promote research, educational, social or cultural activities to advance the purposes of its organization"; and,

To take appropriate action to incorporate the name "Xeriscape" into Chapter 18.73 of the Pima County Zoning Code, Landscaping, Buffering and Screening Standards, and the Landscape Design Manual.

PASSED, ADOPTED AND APPROVED by the Pima County Board of Supervisors on this 13th day of October, 1987.

PIMA COUNTY BOARD OF SUPERVISORS

by _____
Chairman

ATTEST:

_____
Clerk, Pima County Board of Supervisors

APPROVED AS TO FORM:

_____
Deputy County Attorney

October 5, 1987

Pima County

Development Services