CITY OF NEEDLES APPLICATION FOR SPECIAL USE PERMIT

Community Development Department 817 Third Street Needles, California 92363 760-326-3805

Instructions to Applicant

FILING PROCEDURES:

The application and attachments for a Use Permit must be completed as prescribed before it can be accepted for consideration. Required documents:

- 1. Application for Use Permit
- 2. Special Use Permit fee \$538.00. Checks must be payable to the City of Needles.
- 3. Site Plan Review Fee of \$1,033.09 and \$2,000 deposit for City Engineer review, if applicable
- 4. Fire Dept. Application and Fee for Site Plan Review-to be coordinated directly with Fire Dept. (see attached application)

PROCEDURE BY CITY:

- 1. Prepare a dimensioned site plan including the applicable elements identified in the attached checklist for "commercial project" and submit with the application and fees.
- 2. The application packet will be reviewed for adequacy and completion of the site plan drawing for the site plan review. Staff to confirm with Fire dept. application filing and fees paid
- 3. A date for the site plan review will be scheduled, with the applicant provided a follow-up letter identifying any changes to be made to the applicant packet resulting from the meeting. Once the changes have been made, and the application is deemed "complete", the Planning Commission review will be set. The Planning Commission holds public hearings on the 1st and 3rd Wednesday of each month, beginning at 4:00 PM.
- 4. When processing the application, the Planning Commission will consider such factors as:
 - Does the proposal conform to the intent and purpose of the General Plan, zoning regulations and policies for protecting the physical and human environment of the neighborhood and community;
 - The design of the improvements must be in harmony with the neighborhood and community objectives;
 - If the proposal is approved, conditions of approval may be imposed with respect to site design, building design, maintenance, improvements or operation of the use.
- 5. The decision of the Planning Commission is final unless appealed pursuant to the City's zoning regulations.
- 6. Building permits will not be issued until the Use Permit proceeding is concluded, including the appeal period.

1

CITY OF NEEDLES, CALIFORNIA Application For Use Permit

			Phone: (Applicant must be the owner of
		ne lessee in writii	having a lease-hold interest of not less than 5 years, or the agent of any of the foregoing duly
2010111	, (I/V	We) the u	undersigned,(Owner/Lessee/Agent) of the property listed lest that the following stated use be permitted to be constructed and/or operated.
below,	, ner	eby requ	est that the following stated use be permitted to be constructed and/of operated.
1.	Pro	-	ne and address:
2.	Leg	gal Desc	ription of Parcel (attach if necessary):
3.	Bri	iefly Des	scribe: a. Purpose and Intent of proposed project (include acres, square feet, units, etc.).
	b.	Popula	ation projection (project residents):
	c.	Numb	er of persons employed during operation: full timepart time
	d.	Will th	water Serviceno. If so, estimated peak water demand in gallons/minutes:, service requirement.
		ii.	Sewer Serviceno. Any chemical wastes expelled in sewers? If yes, explain:
		iii.	Electric Service: main size; single phase; three phase Attachment to existing electric facilities: load calculations
	e.	Estima	ated daily vehicular traffic generated by the operation:Comment:
	f.	List m	ajor machines – give horsepower and noise rating in decibels:
	g.	Will th	ne project require a permit from the Air Pollution Control District, and if so, describe:
	h.	What	will be the hours of operation:
	i.	Descri	be materials or machinery that will be stored or parked outside:
4.	Att	tached (): Site Plan (); Elevations (); Filing Fee (); Legal (); (site plans folded 8 ½" x 11" reduction)

CITY OF NEEDLES, CALIFORNIA Application For Use Permit

1 1		t:Phone:(Applicant must be the owner
	the lessee ed in writir	having a lease-hold interest of not less than 5 years, or the agent of any of the foregoing duly ng)
, (I ow, he	I/We) the uereby requ	undersigned,(Owner/Lessee/Agent) of the property listed lest that the following stated use be permitted to be constructed and/or operated.
P -	Project nam	ne and address:
L	egal Desc	eription of Parcel (attach if necessary):
B -	Briefly Des	scribe: a. Purpose and Intent of proposed project (include acres, square feet, units, etc.).
_		
b.	. Popula	ation projection (project residents):
c.	Numb	er of persons employed during operation: full timepart time
d.	. Will thi.	he Project require new utility services?yesno Water Serviceno. If so, estimated peak water demand in gallons/minutes:, service requirement. Sewer Serviceno. Any chemical wastes expelled in sewers?
	11.	If yes, explain:
	iii.	Electric Service: main size; single phase; three phase Attachment to existing electric facilities: load calculations
e.		Attachment to existing electric facilities: load calculations
e. f.	Estima	Attachment to existing electric facilities: load calculations ated daily vehicular traffic generated by the operation:Comment:
	Estima List m	Attachment to existing electric facilities: load calculations ated daily vehicular traffic generated by the operation:Comment:
f.	List m	Attachment to existing electric facilities: load calculations ated daily vehicular traffic generated by the operation:Comment: agjor machines – give horsepower and noise rating in decibels:

<u>AUTHORIZATION</u>

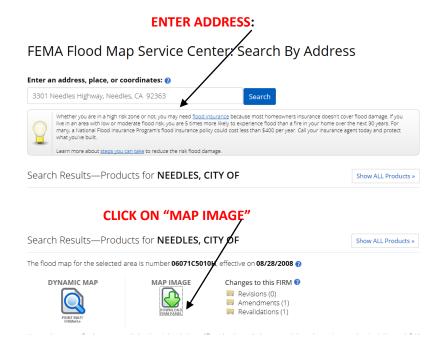
Names and signatures of all persons having an interest in the property whose consent is required (by virtue of such interest) to authorize filing of application. Capacity

Name (print or type)	Address	Owner/Lessee
1		
Signature		
2		
Signature		
3		
Signature		
All signatures represent that they have full Leaseholds must be for at least five years of		do, authorize the filing of this application. It to sign this application.
Subscribed and sworn before me this	day of	, 20
	S ^s :Notary Public	
My Commission Expires:	Notary Public	(or City Staff)
I certify that the information and exhibits I that I am to file this application and act on Name (print):	behalf of the signatories of t	
Address:	-	Telephone:
Capacity:owner:lessee:		
Person(s) to be contacted regarding this ap	plication if other than myself	::
	Address:	
	Address:	
********	**************************************	*********
Date filedRec'		Receipt No.

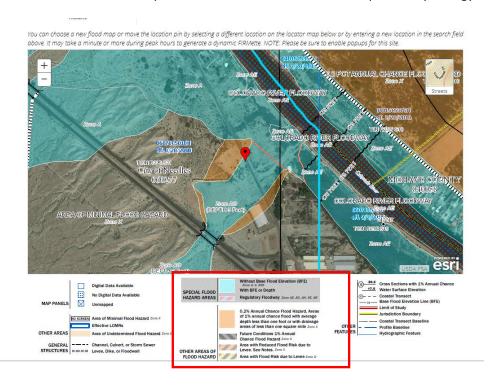
Does Your Project Require a Hydrology Study

1) Go to the FEMA Website for determination - website address:

https://msc.fema.gov/portal/



Determine whether it is in the flood plain by the legend explanations below the graphic. Any area shown with a hatch pattern inside the red box below requires a hydrology study.





City of Needles

817 Third Street • Needles, California 92363 (760) 326-2113 • FAX (760) 326-6765 www.cityofneedles.com Mayor, Jeff Williams
Vice Mayor Edward T. Paget, M.D
Councilmember Shawn Gudmundson
Councilmember Tona Belt
Councilmember Louise Evans
Councilmember Tim Terral
Councilmember Zachery Longacre
City Manager Rick Daniels

WATER EFFICIENT LANDSCAPING REQUIREMENTS STREAMLINED LANDSCAPE METHOD LESS THAN 2500 SQ. FT. OF NEW LANDSCAPE OR REHABILITATED LANDSCAPE

The State of California requires cities to report installation of all new and rehabilitated landscape in Needles on an annual basis. For projects creating less than 2500 square feet of new or rehabilitated landscape, the City has developed a "streamlined" approach that prohibits the use of turf, and instead utilizes a selection of low-water usage plants. The plant lists can be found on the city's website www.cityofneedles.com. Use of other reference guides to identify appropriate plant material can be used as well, including "Low Water-Use Plants for California and the Southwest" by Carol Shuler.

The streamlined landscape packet includes the "Checklist" (Appendix A), the Certificate of Completion (Appendix B), and the Certificate of Installation-Self Inspection (Appendix C).

Projects requiring either a Zoning Permit or a Building Permit for a residential or commercial structure, new construction as well as rehabilitation, are required to submit the completed Appendix "A" Checklist, with the Zoning or Building Permit application. Appendix "A" Checklist requires the submittal of a "landscape plan" drawing that identifies the square footage of the planting area, including the types of plants and their water usage, i.e. low/medium/high usage, as well as any water feature that is part of the landscape project, including swimming pools. Any areas that will be using irrigated recycled water also need to be identified on the drawing.

The streamlined process requires the completion and submittal of Appendix "B" "Certificate of Installation-Self-Inspection" by the applicant or the professional landscape installer once the landscape installation has been completed. Once received, the building official will schedule an inspection on the installation and provide the Certificate of Compliance to the applicant, Appendix "C".

Streamlined Path (Appendix A) Checklist

For projects with less than 2,500 sf of total landscape area.

A. Project Information

Submittal Date		
Application Number		
Project Address		
Project Type*	Residential	Non-residential
Applicant Name		
Applicant Email		
Applicant Phone		
Property Owner Name		
Property Owner Email		
Property Owner Phone		
	·	
Water Supply Type		
Water Supplier		
Total Landscape Area (sf) * †		
Total Turf Area (sf)		
Total Non-turf Planting Area (sf)		

- * Information required in an annual report to the State Department of Water Resources from the permitting agency.
- † Total landscape area equals all the irrigated planting areas, turf and water features and does not include the building footprint or hardscapes such as sidewalks, patios, parking lots or driveways.

Streamlined Path (Appendix A) Checklist

В.	Lands	sca	pe Design Plan			
AF	PPLICANT ,	ITEM		REVII	EWER	NOTES
				PASS	FAIL	
		1.	Attach a landscape plan indicating the following:			
			a. Turf areas		-	
			b. High water use planting areas			
			c. Moderate water use planting areas			
			d. Low water use planting areas			
			e. Water features including swimming pools			
			f. Edible planting areas			
			g. Areas irrigated with recycled water			
C.	Soil					
AF	PPLICANT	ITEM		REVI	EWER	NOTES
				PASS	FAIL	
		1.	Incorporate compost at a rate of at least 4 cubic yards per 1,000 square feet to a depth of 6 inches into the landscape area (unless contra-indicated by a soil test).			
			This project will apply cubic yards of compost			
		2.	A minimum 3-inch layer of recycled mulch shall be applied on all exposed soil surfaces of planting areas except turf areas, or direct seeding applications where mulch is contraindicated			

D. Plants

APPLICANT	ITEM			REVI	EWER	NOTES
				PASS	FAIL	
	1.	Plan	it material shall comply with the following:			
		a.	Residential projects only:			
			 75% of landscape area shall consist of plants that use little or no summer water (WUCOLS plant factor of 0.3 or lower), excluding edibles or areas using recycled water. 			
			II. No more than 25% of the landscape area will be planted with high water using plants			
		b.	Non-residential projects only (including multifamily residential):			

Streamlined Path (Appendix A) Checklist

D. Pla	nts ((cont'd)			
		 100% of the landscape area shall consist of plants that use little or no summer water (WUCOLS plant factor of 0.3 or lower), excluding edibles or areas using recycled water 			
		c. No invasive plants are planted. No plant species listed by the California Invasive Plant Council's "Don't Plant a Pest" brochure as invasive in the San Francisco Bay Area shall be planted.			
	2.	The use of turf shall comply with all of the following:			
		a. In nonresidential areas, turf is not used			
		b. In residential areas:			
		 Turf, high water use plants, and water features shall, combined, not exceed 25% of the landscape area 			
		II. Turf shall not be planted on slopes which exceed a slope of 1 foot vertical elevation change for every 4 feet or horizontal length			
		III. Turf is prohibited in parkways less than 10 feet wide. Exception: Parkway is adjacent to a parking strip and used to exit and enter vehicles AND turf is irrigated with subsurface irrigation			
		WUCOLS plants database can be found online at: http://ucanr.edu/sites/WUCOLS/			
		"Don't Plant a Pest" brochure can be found at http://cal-ipc.org/landscaping/dpp/			
E. Irriga	atio	n			
APPLICANT	ITEM		REVI	EWER	NOTES
			PASS	FAIL	
	1.	Automatic irrigation controllers are required and must use evapotranspiration or soil moisture data and utilize a rain sensor.			
		Pressure regulators are installed on the irrigation system to ensure dynamic pressure of the components are within the manufacturer's recommended pressure range.			

			PASS	FAIL	
	1.	Automatic irrigation controllers are required and must use evapotranspiration or soil moisture data and utilize a rain sensor.			
	2.	Pressure regulators are installed on the irrigation system to ensure dynamic pressure of the components are within the manufacturer's recommended pressure range.			
	3.	Manual-shut-off valves (such as gate, ball or butterfly valves) are installed as close as possible to the point of connection of the water supply.			4
	4.	All irrigation emission devices must meet the requirements set in the ANSI standard ASABE/ICC 802-2014 "Landscape Irrigation Sprinkler and Emitter Standard." All sprinkler heads installed must have a distribution uniformity low quarter of 0.65 or higher using the protocol defined in ASABE/ICC 802-2014.			
	5.	Areas less than 10 feet in width in any direction shall be irrigated with subsurface irrigation or other means that produces no runoff or overspray.			
	6.	For non-residential projects with landscape areas of 1,000 sf or more, private submeter(s) to measure landscape water use shall be installed.			

Streamlined Path (Appendix A) Checklist (cont'd)

F. Signature
I agree to comply with these Simplified Compliance requirements for the Water Efficient Landscape Plan Revie
Signature of Applicant or Property Owner or authorized representative
Date

Streamlined Path (Appendix B) Certificate of Installation-Self Inspection

To be signed by the applicant, signer of the Landscape Design Plan or the Irrigation Design Plan or by the licensed landscape contractor

"I/we certify that based upon periodic site observations, the work has been completed in accordance with the ordinance and that the landscape planting and irrigation installation conform with the criteria and specifications of the approved Landscape Documentation Package. As-built drawings have been provided to document any major modifications of the approved Landscape Documentation Package. Significant changes made during construction comply with the ordinance."

Ар	plicant	Contractor/Professional Signature			
Da	ite				
Pr	int Nam	e			
Lic	ense N	umber			
Propert	y Owne	r:			
	onsibili	at I/we have received copies of all the documents within the Landscape ty to see that the project is maintained in accordance with the Landscap			
Δr	plicant				
Da					
	int Nam				
ri	int ivan	<u> </u>			
A. Irr	igatic	on Scheduling			
APPLICA	NT ITEN		REVI	EWER	NOTES
			PASS	FAIL	
	1.	Irrigation scheduling is regulated by automatic irrigation controller			
	2.	Overhead irrigation is scheduled between 8 p.m. and 10 a.m.			
	3.	Settings for the irrigation controller for each station include the following:			
		a. Irrigation days			
		b. Run times			
		c. Number of cycle starts per watering event to avoid run off			
		d. Amount of applied water on a monthly basis			

Streamlined Path (Appendix B) Certificate of Installation-Self Inspection

B. Schedule of Landscape and Irrigation Maintenance

APPLICANT	ITEN		REVIE	EWER	NOTES
			PASS	FAIL	
	1.	Attach schedule of maintenance for the landscape and irrigation system per ordinance to ensure water efficiency. The attached schedule of landscape maintenance includes:			
		a. Routine inspection, auditing, adjusting and repair of the irrigation system			
		b. Aerating and dethatching turf areas		and the same of th	
		c. Topdressing planting areas with compost as needed			
		d. Replenishing mulch			
		e. Pruning and weeding			
		f. Routine inspection, auditing, adjusting and repair of the irrigation system			
		(Bay-Friendly Landscape maintenance manual used for the site would satisfy this requirement)			
	2.	Attach landscape irrigation audit report			
	3.	Attach landscape irrigation audit checklist			
	4.	The irrigation audit was conducted by a third-party certified Irrigation Auditor professional who is not a part of the design team			
	5.	Irrigation items identified for repair in the audit are fixed			
	6.	In large project or projects with multiple landscape installations (i.e. production home developments) an auditing rate of 1 in 7 lots or 15% is conducted			
•		ollowing sections ONLY if project has submitted the Landscape Documen	tation P	ackage.	
APPLICANT	ITEN		REVI	EWER	NOTES
			PASS	FAIL	
	1.	Audit completed			
	2.	Any recommended repairs have been completed			
	3.	The Irrigation Audit Report includes:			
		a. Inspection for leaks			
		b. System tune-up			
		c. Reporting overspray or run off			
		d. An irrigation schedule including configuring controller with application rate, soil types, plant factors, slope, exposure and other factors needed to increase water efficiency			

Streamlined Path (Appendix B) Certificate of Installation-Self Inspection

D. Soil Management Report

APPLICANT	ITEM		REVI	EWER	NOTES
			PASS	FAIL	
	1.	Attach soil analysis report of the soil in planting areas from a soil lab if not previously submitted with the Landscape Documentation Package per ordinance.			
	2.	The soil sample follows laboratory protocol and includes:			
		a. Soil texture			
		b. Infiltration rate			
		c. pH			
		d. Total soluble salts			
		e. Sodium			
		f. Percent organic matter			
		g. Amendment recommendations			
	3.	Attach document(s) showing that soil analysis report recommendations were used to amend the planting soil, such as delivery tags and receipts for compost and mulch.			
E. Lan	dsc	ape Diversion Report			
APPLICANT	ITEM	spe situation to the second			
	I I LIV		REVI	EWER	NOTES
	11214		REVI PASS	EWER FAIL	NOTES
	1.				NOTES
		Attach a construction waste management report for the project that shows at least 50% diversion of construction and demolition debris and 100% diversion of excavated soil and land clearing debris through recycling or reuse. Building			NOTES
☐ ☐ ☐ F. Addi	 2. 	Attach a construction waste management report for the project that shows at least 50% diversion of construction and demolition debris and 100% diversion of excavated soil and land clearing debris through recycling or reuse. Building debris can be used in calculations. Confirm that diversion facilities where collected construction waste material			NOTES
	1. 2.	Attach a construction waste management report for the project that shows at least 50% diversion of construction and demolition debris and 100% diversion of excavated soil and land clearing debris through recycling or reuse. Building debris can be used in calculations. Confirm that diversion facilities where collected construction waste material was taken are identified in the waste management report.	PASS	FAIL	
Applicant:	1. 2. tior	Attach a construction waste management report for the project that shows at least 50% diversion of construction and demolition debris and 100% diversion of excavated soil and land clearing debris through recycling or reuse. Building debris can be used in calculations. Confirm that diversion facilities where collected construction waste material was taken are identified in the waste management report.	PASS	FAIL	

Streamlined Path (Appendix C) Landscape Installation Certificate of Completion

A.	Project Information	
	Date	
	Project Name	
	Project Street Address, City and Zip	
	Parcel or Lot Number(s) (if available)	
	Applicant Name	
	Applicant Job Title	
	Applicant Company Name	
	Phone Number	
	Email Address	
	Street Address, City and Zip	
	Property Owner Name	
	Phone Number	
	Email Address	
	Street Address, City and Zip	
Bui	lding Inspector Sign-off	
		Date:
N	larc Scott, Building Inspector	

Streamlined Path (Appendix C) Landscape Installation Certificate of Completion

A.	Project Information	
	Date	
	Project Name	
	Project Street Address, City and Zip	
	Parcel or Lot Number(s) (if available)	
	Applicant Name	
	Applicant Job Title	
	Applicant Company Name	
	Phone Number	
	Email Address	
	Street Address, City and Zip	
	Duen outer Orreson Name	
	Property Owner Name	
	Phone Number	
	Email Address	
	Street Address, City and Zip	
Bui	lding Inspector Sign-off	
		Date:
N	larc Scott, Building Inspector	

	(Needles) WUCOLS - Low Desert Region	on	
Туре	Botanical Name	Common Name	Water Use
PS	Agave americana (and thick-leaved relatives)(CA native and non-native	agave	Very Low
S	Ambrosia monogyra (Hymenoclea monogyra)	burrow bush	Very Low
Gc S N	Atriplex CA native species	saltbush	Very Low
Gc S N	Atriplex semibaccata	Australian saltbush	Very Low
Bu N	Calochortus spp.	Mariposa lily	Very Low
SN	Encelia californica	coast sunflower	Very Low
SN	Encelia farinosa	brittle bush	Very Low
SN	Ephedra nevadensis	Nevada ephedra	Very Low
SN	Eriogonum fasciculatum and cvs. (not listed above)	California buckwheat	Very Low
S Su	Fouquieria columnaris	boojum	Very Low
S Su N	Fouquieria splendens	ocotillo	Very Low
S N	Isocoma spp. (Haplopappus)	goldenbush	Very Low
SN	Justicia californica (Beloperone californica)	chuparosa	Very Low
SN	Larrea tridentata	creosote	Very Low
P Su	Mammillaria geminispina	cactus	Very Low
P Su	Mammillaria melanocentra	cactus	Very Low
S Su N	Opuntia spp. & cvs. (CA natives and non-natives)	prickly pear/cholla	Very Low
S Su	Pachycereus marginatus	Mexican fence post cactus	Very Low
PSN	Psilostrophe cooperi	paper flower	Very Low
S N	Psorothamnus spinosus (Dalea spinosa)	smoke tree	Very Low
SN	Senna covesii	desert senna	Very Low
P N	Sphaeralcea spp. (CA native and non-native spp.)	desert/globe mallow	Very Low
S Su	Stenocereus thurberi (Lemaireocereus)	organ pipe cactus	Very Low
T	Tamarix aphylla	salt cedar	Very Low
S	Tamarix pentaphylla	tamarisk	Very Low
S Su N	Yucca brevifolia	Joshua tree	Very Low
S Su N	Yucca schidigera (Y. californica, Y. mohavensis)	Mojave yucca	Very Low
	7	donart zinnia	Low
	Zinnia acerosa	desert zinnia	Low
Bu	Amaryllis belladonna	naked lady daffodil	Low
Bu	Narcissus spp.		Low
Bu	Polianthes tuberosa	tuberose	Low
G	Pennisetum setaceum	fountain grass	Low
G N	Bouteloua gracilis and cvs.	blue grama	Low
G N	Sporobolus airoides	alkalai sacaton	Low
G N	Bouteloua curtipendula	sideoats grama	Low
Gc	Carpobrotus spp.	ice plant (Carpobrotus)	Low
Gc	Dalea greggii	trailing indigo bush	Low

Bu - bult

G - grass GC - groundcover

P - perennial Pm - palm cycad

S - shrub

Su - succulent

T - tree

V - vine

	(Needles) WUCOLS - Low Desert Region		
Туре	Botanical Name	Common Name	Water Use
	Dalaman William Manifer and William	Daio indiae hugh	Low
Gc	Dalea orcuttii (now Marina orcuttii)	Baja indigo bush	Low
Gc	Delosperma spp.	ice plant (Delosperma)	Low
Gc V	Antigonon leptopus	coral vine	Low
Gc S	Acacia redolens	prostrate acacia	Low
Gc S	Artemisia spp. (shrubby)	sagebrush	Low
Gc S N	Baccharis "Starn"	Starn coyote brush	Low
Gc P	Achillea millefolium (non-native hybrids)	yarrow (non-native hybrids)	Low
Gc P	Oenothera stubbei	Baja evening primrose	Low
Gc P	Zinnia grandiflora	prairie zinnia	Low
Gc P	A - Lill Will fall was (AA a aking a sikingan)	Varrou	Low
N C+ D C	Achillea millefolium (CA native cultivars)	yarrow lavender cotton	Low
Gc P S	Santolina spp.	desert rose	Low
P	Adenium obesum	scarlet milkweed	Low
P	Asclepias curassavica Berlandiera lyrata	chocolate scented daisy	Low
P		dyckia	Low
P	Dyckia spp.	blackfoot daisy	Low
P	Melampodium leucanthum Poliomintha longiflora	Rosemary mint	Low
P	Ruellia squarrosa	water bluebell	Low
P	Thymophylla acerosa (Dyssodia acerosa)	shrubby dogweed	Low
P A	Bulbine frutescens	stalked bulbine	Low
PN	Argemone corymbosa	prickly poppy	Low
P N	Asclepias (CA native species)	milk/silk weed	Low
PN	Asclepias subulata	desert milkweed	Low
PN	Baileya multiradiata	desert marigold	Low
F IN	Balleya Mulli adiata	tufted (white) evening	LOW
P N	Oenothera caespitosa	primrose	Low
P N	Oenothera californica	California evening primrose	Low
P N	Penstemon SW native spp. and cvs.	penstemon (SW natives)	Low
P N	Tetraneuris acaulis (Hymenoxys acaulis)	stemless four-nerve daisy	Low
P N	Thymophylla pentachaeta (Dyssodia pentachaeta)	golden fleece	Low
P N	Verbena gooddingii (Glandularia gooddingii)	Goodding verbena	Low
P Su	Echinopsis spp. (Trichocereus spp.)	torch cactus	Low
P Su	Euphorbia antisyphilitica	candelilla	Low
P Su	Euphorbia rigida	gopher spurge	Low
P Su	Haworthia spp.	haworthia	Low
PS	Agave attenuata (and thin-leaved relatives) (Ca native and non-native)	agave	Low
PS	Perovskia spp. & cvs.	Russian sage	Low
PS	Psilostrophe tagetina	paper flower	Low
PS	Ruellia brittoniana	Mexican petunia	Low

Bu - bult

G - grass

GC - groundcover P - perennial

Pm - palm cycad S - shrub

Su - succulent

T - tree

V - vine

	(Needles) WUCOLS - Low Desert Region		
Туре	Botanical Name	Common Name	Water Use
PS N	Eriogonum spp. (CA native and non-native spp.)	buckwheat	Low
PS N	Nolina spp. (CA natives and non-natives)	bear grass	Low
PSN	Romneya coulteri	Matilija poppy	Low
PS N	Salvia "Gayle Nielson" (also Trident as registered trademark name)	Gayle Nielson/Trident sage	Low
P S Su	Portulacaria afra & cvs.	elephant"s food	Low
S	Acacia aneura	mulga	Low
S	Acalypha monostachya	raspberry fuzzies	Low
S .	Aloysia macrostachya	aloysia	Low
S	Aloysia triphylla	lemon verbena	Low
S	Ambrosia deltoidea	triangleleaf bursage	Low
S	Anisacanthus spp.	desert honeysuckle	Low
S	Artemisia filifolia	sand sagebrush	Low
S	Bahiopsis deltoidea (Viguiera deltoidea)	goldeneye	Low
S	Buddleja marrubiifolia	woolly butterfly bush	Low
S	Caesalpinia gilliesii	desert bird of paradise	Low
S	Caesalpinia mexicana	Mexican bird of paradise	Low
S	Caesalpinia pulcherrima (deciduous in desert)	dwarf poinciana	Low
S	Calliandra "Sierra Star"	fairy duster hybrid	Low
S	Calliandra peninsularis	Baja fairy duster	Low
S	Cephalocereus spp.	old man cactus	Low
S	Chamelaucium cvs	wax flower	Low
S	Chrysactinia mexicana	damianita daisy	Low
S	Convolvulus cneorum	bush morning glory	Low
S	Dalea bicolor	dalea (bicolor)	Low
S	Dalea frutescens	black dalea	Low
S	Dalea pulchra	indigo/pea bush	Low
S	Dalea versicolor	dalea (versicolor)	Low
S	Eremophila glabra	emu bush	Low
S	Eremophila maculata	spotted emu bush	Low
S	Eremophila racemosa	Easter egg bush	Low
S	Eremophila x "Summertime Blue"	Summertime Blue emu	Low
S	Espostoa lanata	Peruvian old man cactus	Low
S	Eucalyptus "Moon Lagoon"	fine-leafed mallee	Low
S	Furcraea spp.	furcraea	Low
S	Gossypium harknessii	otterbossie	Low
s	Gossypium thurberi	Thurber"s cotton/desert cotton	Low
S	Justicia spicigera	Mexican honeysuckle	Low
	ομοιίσια σρισίμοτα	purple sage, Texas ranger	
s	Leucophyllum spp. & cvs.	etc.	Low
S	Ruellia "Little Katie"	dwarf ruellia	Low
S	Ruellia californica	rama parda	Low

Bu - bult

G - grass GC - groundcover P - perennial

Pm - palm cycad

S - shrub

Su - succulent

T - tree

V - vine

	(Needles) WUCOLS - Low Desert Region		
Туре	Botanical Name	Common Name	Water Use
S	Ruellia peninsularis	Baja ruellia	Low
S	Senna artemisioides (Cassia artemisioides)	feathery cassia/senna	Low
S	Senna bicapsularis (Cassia candolleana)	New Zealand cassia/senna	Low
s	Senna lindheimeriana (Cassia lindheimeriana)	Lindheimer"s senna/cassia	Low
S	Senna nemophila (Cassia nemophila)	desert cassia	Low
S	Senna odorata (Cassia odorata)	southern senna	Low
S	Senna phyllodinea (Cassia phyllodinea)	silver leaf cassia/senna	Low
S	Senna sturtii (Cassia sturtii)	Sturt"s cassia/senna	Low
S	Senna wislizeni (Cassia wislizeni)	shrubby senna	Low
S	Vauquelinia californica	Arizona rosewood	Low
S	Vauquelinia corymbosa var. heterodon	narrow leaf rosewood	Low
S A	Acacia boormanii	Snowy River wattle	Low
-	7,0000 0001110111	Lynn"s everblooming texas	
S A	Leucophyllum langmaniae "Lynn"s legacy"	sage	Low
S A	Viguiera parishii	desert goldeneye	Low
SN	Ambrosia dumosa	white bursage	Low
SN	Baccharis "Centennial"	Centennial baccharis	Low
SN	Baccharis sarothroides	desert broom	Low
SN	Calliandra californica	Baja fairy duster	Low
SN	Calliandra eriophylla	fairy duster	Low
SN	Carnegiea gigantea	saguaro	Low
SN	Chrysothamnus nauseosus	rabbit brush	Low
SN	Cleome isomeris	bladder pod	Low
SN	Cneoridium dumosum	bushrue	Low
SN	Condea emoryi (Hyptis emoryi)	desert lavender	Low
SN	Ericameria laricifolia	turpentine bush	Low
SN	Fallugia paradoxa	Apache plume	Low
SN	Forestiera pubescens	desert olive	Low
SN	Gutierrezia sarothrae	matchweed	Low
SN	Lycium fremontii	wolfberry	Low
S N	Pluchea sericea	Coville arrow weed	Low
SN	Rhus ovata	sugar bush	Low
SN	Salvia "Allen Chickering"	Allen Chickering sage	Low
SN	Senna armata (Cassia armata)	spicy senna	Low
SN	Simmondsia chinensis	jojoba	Low
SN	Trixis californica	trixis	Low
SNA	Peritoma arborea (Isomeris arborea)	bladderpod	Low
SNA	Salvia apiana	white sage	Low
S NA	Salvia clevelandii & hybrids	salvia Cleveland/Alan Chickering etc.	Low
ST	Acacia abyssinica	Abyssinian acacia	Low

Bu - bult

G - grass

GC - groundcover P - perennial

Pm - palm cycad

S - shrub

Su - succulent

T - tree

V - vine

(Needles) WUCOLS - Low Desert Region			
Туре	Botanical Name	Common Name	Water Use
ST	Acacia berlandieri	guajillo	Low
ST	Acacia constricta	whitethorn acacia	Low
ST	Acacia craspedocarpa	leatherleaf acacia	Low
ST	Acacia saligna	blue leaf wattle	Low
ST	Cordia parvifolia	little leaf cordia	Low
ST	Lysiloma candida	palo blanca	Low
ST	Maytenus phyllanthoides	mangle dulce	Low
ST	Sophora secundiflora	Texas mountain laurel	Low
ST	Ungnadia speciosa	Mexican buckeye	Low
STN	Acacia greggii	catclaw acacia	Low
STN	Comarostaphylis diversifolia (Arctostaphylos diversifolia)	summer holly	Low
S Su	Cereus hildmannianus	night blooming cereus	Low
S Su	Cereus peruvianus	Peruvian apple cactus	Low
S Su	Euphorbia milii	crown of thorns	Low
S Su	Euphorbia pulcherrima	poinsettia	Low
S Su	Euphorbia tirucalli	milk bush	Low
S Su	Fouquieria macdougalii	Mexican tree ocotillo	Low
S Su	Hesperaloe campanulata	bell flower hesperaloe	Low
S Su	Hesperaloe funifera	Coahuilan hesperaloe	Low
S Su	Pedilanthus bracteatus	tall slipper plant	Low
S Su	Pedilanthus macrocarpus	slipper plant	Low
S Su	Yucca aloifolia	Spanish bayonet	Low
S Su	Yucca decipiens	palma China	Low
S Su	Yucca elata	soaptree yucca	Low
S Su	Yucca faxoniana	giant white yucca	Low
S Su	Yucca gloriosa	Spanish dagger	Low
S Su	Yucca rigida	blue yucca	Low
S Su	Yucca rostrata	beaked yucca	Low
S Su	Yucca rupicola	twisted yucca	Low
S Su	Yucca schottii	mountain yucca	Low
S Su	Yucca thompsoniana	Thompson's yucca	Low
S Su A	Dasylirion spp.	desert spoon	Low
S Su A	Hesperaloe parviflora	red/ yellow yucca	Low
S Su N	Echinocactus spp. (CA native and non-native spp.)	barrel cactus	Low
S Su N	Ferocactus spp. (CA native and non-native spp.)	barrel cactus	Low
S Su N	Hesperoyucca spp. (Yucca whipplei, Yucca californica)	yucca	Low
S Su N	Yucca baccata	banana yucca	Low
S Su T N	Aloe spp. (CA native and non-native)	aloe	Low
Su T	Euphorbia ingens	candelabra tree	Low
Т	Acacia pendula	weeping acacia	Low
Т	Acacia pennatula	pennatula acacia	Low

Bu - bult

G - grass
GC - groundcover
P - perennial
Pm - palm cycad
S - shrub

Su - succulent

T - tree

V - vine

(Needles) WUCOLS - Low Desert Region			
Туре	Botanical Name	Common Name	Water Use
<i>J</i> 1			
Т	Acacia schaffneri	twisted acacia	Low
	Accein stoppybylle	eumong/shoestring acacia	Low
T	Acacia stenophylla Acacia willardiana	palo blanco	Low
T	Allanthus altissima	tree of heaven	Low
T	Caesalpinia cacalaco	cascalote	Low
T	Caltis pallida	desert hackberry	Low
T	Ceratonia siliqua	carob	Low
T	Cordia boissieri	Texas olive	Low
<u> </u>	Dalbergia sissoo	indian rosewood	Low
	Ebenopsis ebano (Pithecellobium flexicaule)	Texas ebony	Low
T	Eucalyptus formanii	Forman's mallee	Low
	Eucalyptus iormanii	long flowered marlock	Low
T	- I I I I I I I I I I I I I I I I I I I	Salt River mallet	Low
T	Eucalyptus sargentii Eucalyptus woodwardii	lemon flowered gum	Low
		kidneywood	Low
T	Eysenhardtia orthocarpa Gleditsia triacanthos	honey locust	Low
 		Mexican ebony	Low
<u></u>	Havardia mexicana (Pithecellobium mexicana)	tenaza	Low
 	Havardia pallens (Pithecellobium pallens)		Low
	Leucaena retusa	golden leadball tree	Low
T	Lysiloma watsonii	feather bush	
T	Melia azedarach	chinaberry olive	Low
T	Olea europaea		Low
T	Pachycormus discolor	elephant tree	Low
Т	Parkinsonia "Sonorae"	Sonoran palo verde Mexican palo verde/	Low
т	Parkinsonia aculeata	Jerusalem thorn	Low
Т	Parkinsonia praecox (Cercidium praecox)	palo brea tree	Low
T	Prosopis alba	Argentine mesquite	Low
Т	Prosopis glandulosa (P. chilensis)	Chilean mesquite	Low
Т	Prosopis hybrids and cvs.	prosopis hybrids	Low
T	Prosopis juliflora	Arizona mesquite	Low
T	Prosopis velutina	velvet mesquite	Low
Т	Quercus suber	cork oak	Low
Т	Rhus lanceolata	prairie flameleaf sumac	Low
T	Vachellia farnesiana (Acacia farnesiana)	sweet acacia	Low
Ť	Vachellia farnesiana var. farnsiana (Acacia farnesiana farnesiana)	desert sweet acacia	Low
T	Vitex agnus-castus	chaste tree	Low
T	X Chitalpa tashkentensis	chitalpa	Low
TN	Bursera microphylla	little elephant tree	Low
TN	Celtis reticulata	western hackberry	Low
TN	Hesperocyparis stephensonii (Cupressus arizonica ssp. arizonica, C. arizonica var. glabra))	Cuyamaca cypress	Low

Bu - bult

G - grass

GC - groundcover P - perennial

Pm - palm cycad S - shrub

Su - succulent

T - tree

V - vine

	(Needles) WUCOLS - Low Desert Region		
Туре	Botanical Name	Common Name	Water Use
TN	Olneya tesota	desert ironwood	Low
T N	Parkinsonia "Desert Museum") (Cercidium)	Desert Museum palo verde	Low
TN	Parkinsonia florida (Cercidium florida)	blue palo verde	Low
TN	Parkinsonia microphylla (Cercidium microphyllum)	little leaf palo verde	Low
TN	Prosopis glandulosa var. torreyana	honey mesquite	Low
TN	Prosopis pubescens	screwbean mesquite	Low
V	Cissus trifoliata	treebine	Low
V	Macfadyena unguis-cati	cat"s claw	Low

Bu - bult

G - grass

GC - groundcover P - perennial

Pm - palm cycad

S - shrub

Su - succulent

T - tree

V - vine