



Table 1. Research-defined water needs for selected landscape groundcovers and shrubs to provide acceptable landscape performance after establishment as a percentage of reference evapotranspiration and as recommended by WUCOLS^{z, y}.

Scientific Name	Common Name	Research Defined	Percent of Reference ET (ET _o)					
			WUCOLS Climate Zone ^u					
			1	2	3	4	5	6
<i>Arbutus unedo</i> 'Compacta', L.	compact strawberry tree	18-36	20-30	20-30	20-30	20-30	40-60	40-60
<i>Arctostaphylos uva-ursi</i> 'Pacific Mist', (L.) Spreng.	bearberry	18-36	<10	20-30	20-30	20-30	NA	NA
<i>Artemisia</i> x 'Powis Castle', L.	wormwood	0-36 ^{x, y}	<10	20-30	20-30	20-30	20-30	20-30
<i>Baccharis pilularis</i> 'Twin peaks', (L.) DC.	Twin Peaks coyote bush	20	20-30	20-30	20-30	20-30	<10	<10
<i>Calliandra haematocephala</i> , Hassk.	pink powder puff	18-36	<10	<10	40-60	40-60	NA	70-90
<i>Cassia artemisioides</i> , Gaud.	feathery cassia	0-36 ^{w, x}	20-30	20-30	20-30	20-30	20-30	20-30
<i>Cerastium tomentosum</i> , L.	snow-in-summer	25	40-60	40-60	40-60	40-60	40-60	40-60
<i>Cistus</i> x <i>purpureus</i> , Lam.	orchid spot rock rose	0-36 ^x	20-30	20-30	20-30	20-30	20-30	20-30
<i>Correa alba</i> 'Ivory Bells', Andr.	white australian correa	18-36	20-30	20-30	20-30	20-30	NA	40-60
<i>Drosanthemum hispidum</i> , (L.) Schwant.	pink iceplant	20	20-30	20-30	20-30	20-30	NA	20-30
<i>Echium fastuosum</i> , Jacq.	pride of madeira	0-36 ^x	20-30	20-30	20-30	20-30	NA	40-60
<i>Escallonia</i> x <i>exoniensis</i> 'Fradesii', Veitch.	Frades escallonia	18-36	40-60	40-60	40-60	40-60	NA	40-60
<i>Galvezia speciosa</i> , Gray.	bush snapdragon	0-36 ^{w, x}	20-30	20-30	<10	20-30	?	40-60



<i>Gazania rigens</i> v. <i>leucolaena</i> , (DC.) Roessler.	yellow trailing gazania	50-80 ^v	40-60	40-60	40-60	40-60	40-60	40-60	40-60
<i>Grevillea</i> x 'Noell', Knight.	Noell grevillea	0-36 ^x	20-30	20-30	20-30	20-30	NA	40-60	
<i>Hedera helix</i> 'Needlepoint', L.	Needlepoint english ivy	20-30	40-60	40-60	40-60	40-60	40-60	40-60	40-60
<i>Heteromeles arbutifolia</i> , M. J. Roemer.	toyon	0-36 ^x	<10	<10	20-30	20-30	NA	NA	
<i>Hibiscus rosa-sinensis</i> , L.	rose of china	40-60	40-60	40-60	40-60	40-60	NA	70-90	
<i>Lantana montevidensis</i> , Briq.	trailing lantana	18-36	20-30	20-30	20-30	20-30	NA	40-60	
<i>Leptospermum scoparium</i> , J. R. Forst & G. Forst	new zealand tea tree	18-36	40-60	40-60	40-60	40-60	NA	NA	
<i>Leucophyllum frutescens</i> 'Green Cloud', I. M. Johnst.	Green Cloud texas ranger	0-36 ^{w, x}	20-30	20-30	20-30	20-30	20-30	20-30	20-30
<i>Ligustrum japonicum</i> 'Texanum', Thunb.	texas privet	40-60	40-60	40-60	40-60	40-60	40-60	30-50	
<i>Myoporum</i> x 'Pacificum', Banks & Sol. ex Forst. F.	prostrate myoporum	0-36 ^x	20-30	20-30	20-30	40-60	NA	NA	
<i>Otatea acuminata</i> , (Munro) C.E. Calderon & Soderstr.	mexican bamboo	18-36	40-60	?	40-60	40-60	NA	70-90	
<i>Phormium tenax</i> , J. R. Forst & G. Forst.	new zealand flax	18-36	20-30	20-30	20-30	40-60	NA	40-60	
<i>Pittosporum tobira</i> , Ait.	mock orange	18-36	20-30	40-60	40-60	40-60	40-60	40-60	
<i>Potentilla tabernaemontanii</i> , Asch.	spring cinquefoil	70-80	40-60	40-60	40-60	40-60	NA	40-60	
<i>Prunus caroliniana</i> , Ait.	carolina laurel cherry	0-36 ^x	20-30	20-30	40-60	40-60	40-60	40-60	
<i>Pyracantha koidzumii</i> 'Santa Cruz', Rehd.	Santa Cruz firethorn	0-36 ^x	20-30	20-30	20-30	40-60	40-60	40-60	
<i>Rhaphiolepis indica</i> , Lindl.	indian hawthorne	18-36	20-30	20-30	40-60	40-60	40-60	40-60	
<i>Sedum acre</i> , L.	goldmoss	0-25	20-30	20-30	20-30	20-30	20-30	20-30	
<i>Teucrium chamaedrys</i> , L.	germander	18-36	20-30	20-30	20-30	20-30	40-60	40-60	
<i>Vinca major</i> , L.	periwinkle; myrtle	30-40	40-60	40-60	40-60	40-60	40-60	40-60	

<i>Westringia rosamarinaformis</i> , L.	rosemary bush	18-36	20-30	20-30	20-30	20-30	20-30	NA	40-60
<i>Xylosma congestum</i> , Merrill.	shiny xylosma	18-36	20-30	20-30	40-60	40-60	40-60	40-60	40-60

^z WUCOLS = Water Use Classification of Landscape Species (Costello and Jones, 2000).

^y References:

Costello, L. R. and K. S. Jones. 2000. A guide to estimating irrigation water needs of landscape plantings in California – the landscape coefficient method and water use classification of landscape species III (WUCOLS III). Available at <<http://www.owue.water.ca.gov/docs/wucols00.pdf>>. Viewed May 29, 2008.

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^x Acceptable landscape performance with no summer irrigation shown only at the immediate coast. Inland plantings may require summer irrigation applied infrequently near the maximum amount listed for the species.

^w Species typically provides unacceptable landscape performance in summer and fall months irrespective of irrigation amount.

^v Requires renovation about every 2 to 3 years to maintain acceptable performance.

^u Key to WUCOLS California climate zones

- 1: North-Central Coastal
- 2: Central Valley
- 3: South Coastal
- 4: South Inland Valleys and Foothills
- 5: High and Intermediate Desert
- 6: Low Desert
- NA: Plant not appropriate for the zone