

Plant Water Requirements
Ornamental Trees, Shrubs, Groundcovers, and Grasses
for
Las Vegas, NV
Utilizing WUCOLS IV water use coefficients and
Historical ETo
(index – p. 246)
Prepared by – Jim Borneman
Ewing Outdoor Supply
jamesaborneman@gmail.com



Emitters are not always, clearly marked with GPH flow. Use a 2" cap or ½ cup kitchen measure to test flow with the table at far right. Measure the flow of all emitters that provide flow to the plant.

Calculating Emitter Flow
Time to fill 1/2 cup
(4 ounce measuring cup)

Fill Time	Emitter Flow
8 min 9 sec	0.23
4 min 21 sec	0.40
3 min 45 sec	0.50
3 min 7 sec	0.60
2 min 5 sec	0.90
1 min 52 sec	1.00
56 sec	2.00
22 sec	5.00
11 sec	10.00



Botanical Name	<i>Acacia Aneura</i>
Common Name	Mulga
Type	Tree - Deciduous
Exposure	Full Sun
Width	15 ft
Height	15 ft
Region	High - Intermediate Desert - 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

SNWA - LOW WATER USE COEFFICIENT*

Mulga

0.20

Acacia aneura

* WUCOLS deems this plant to be "inappropriate" for the region

Mulga

Acacia aneura

height 15' width 15'

light na

water reqt. low

foliage deciduous



		Las Vegas	Las Vegas	Las Vegas	Las Vegas											
		ET _o	ET _o	Ornamental	Ornamental	Diameter of Canopy (in feet)										
		Avg	Avg.	Req't	Req't											
		Monthly	daily	daily	daily	Canopy Area	4	6	8	10	12	14	16	18	20	
				(inches)	gal/ft ²		12.56	28	50.2	78.5	113	154	201	254	314	
		GALLONS REQUIRED PER DAY BASED ON CANOPY AREA														
31	Mar	4.99	0.1610	0.0322	0.020		0.25	0.56	1.01	1.57	2.3	3.1	4	5	6	
30	Apr	7.21	0.2403	0.0481	0.030		0.38	0.84	1.50	2.35	3.4	4.6	6	8	9	
31	May	9.18	0.2961	0.0592	0.037		0.46	1.03	1.85	2.90	4.2	5.7	7	9	12	
30	Jun	11.38	0.3793	0.0759	0.047		0.59	1.32	2.37	3.71	5.3	7.3	10	12	15	
31	Jul	11.62	0.3748	0.0750	0.047		0.59	1.31	2.34	3.67	5.3	7.2	9	12	15	
31	Aug	10.11	0.3261	0.0652	0.041		0.51	1.14	2.04	3.19	4.6	6.3	8	10	13	
30	Sep	8.16	0.2720	0.0544	0.034		0.43	0.95	1.70	2.66	3.8	5.2	7	9	11	
31	Oct	5.56	0.1794	0.0359	0.022		0.28	0.63	1.12	1.75	2.5	3.4	4	6	7	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

(702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

(702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

(702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Acacia Gregii</i>
Common Name	Cat Claw Acacia
Type	Tree / Shrub - Deciduous
Exposure	Full Sun
Width	20 ft
Height	15 ft
Region	High and Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Cat Claw Acacia

Acacia gregii

0.20

Mature Size

Cat Claw Acacia

Acacia gregii

height 15'

width 20'

light na

water reqt. low

foliage

deciduous



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)

4	6	8	10	12	14	16	18	20
12.56	28	50.2	78.5	113	154	201	254	314

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.25	0.56	1.01	1.57	2.3	3.1	4	5	6
0.38	0.84	1.50	2.35	3.4	4.6	6	8	9
0.46	1.03	1.85	2.90	4.2	5.7	7	9	12
0.59	1.32	2.37	3.71	5.3	7.3	10	12	15
0.59	1.31	2.34	3.67	5.3	7.2	9	12	15
0.51	1.14	2.04	3.19	4.6	6.3	8	10	13
0.43	0.95	1.70	2.66	3.8	5.2	7	9	11
0.28	0.63	1.12	1.75	2.5	3.4	4	6	7

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Acacia Pendula</i>
Common Name	Weeping Acacia
Type	Tree - evergreen
Exposure	na
Width	up to 20 ft
Height	up to 25 ft
Region	High and Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

SNWA LOW WATER USE COEFFICIENT*

Weeping Acacia

0.20

Acacia pendula

*WUCOLS deems this plant "inappropriate" for the region

Weeping Acacia

Acacia pendula

Mature Size

height 25'

width 20'

light *na*

water reqt. *low*

foliage *evergreen*



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	Canopy Area	Diameter of Canopy (in feet)								
		ET _o	ET _o	Ornamental	Ornamental										
		Avg	Avg.	Req't	Req't										
		Monthly	daily	daily	daily										
				(inches)	gal/ft ²		GALLONS REQUIRED PER DAY BASED ON CANOPY AREA								
							4	6	8	10	12	14	16	18	20
31	Mar	4.99	0.1610	0.0322	0.020		12.56	28	50.2	78.5	113	154	201	254	314
30	Apr	7.21	0.2403	0.0481	0.030		0.25	0.56	1.01	1.57	2.3	3.1	4	5	6
31	May	9.18	0.2961	0.0592	0.037		0.38	0.84	1.50	2.35	3.4	4.6	6	8	9
30	Jun	11.38	0.3793	0.0759	0.047		0.46	1.03	1.85	2.90	4.2	5.7	7	9	12
31	Jul	11.62	0.3748	0.0750	0.047		0.59	1.32	2.37	3.71	5.3	7.3	10	12	15
31	Aug	10.11	0.3261	0.0652	0.041		0.59	1.31	2.34	3.67	5.3	7.2	9	12	15
30	Sep	8.16	0.2720	0.0544	0.034		0.51	1.14	2.04	3.19	4.6	6.3	8	10	13
31	Oct	5.56	0.1794	0.0359	0.022		0.43	0.95	1.70	2.66	3.8	5.2	7	9	11
							0.28	0.63	1.12	1.75	2.5	3.4	4	6	7

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Acacia redolens</i> 'Desert Carpet'
Common Name	Desert Carpet Acacia
Type	Shrub/Groundcover - evergreen
Exposure	Full Sun
Width	up to 12 ft
Height	up to 2 ft
Region	High & Intermediate Desert - 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical Eto - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Desert Carpet Acacia

Acacia redolens 'Desert Carpet'

0.20

Desert Carpet Acacia

Acacia redolens 'Desert Carpet'

height 2' width 12'

light full sun

water reqt. low

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)									
4	6	8	10	12	14	16	18	20	
12.56	28	50.2	78.5	113	154	201	254	314	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA									
0.25	0.56	1.01	1.57	2.3	3.1	4	5	6	
0.38	0.84	1.50	2.35	3.4	4.6	6	8	9	
0.46	1.03	1.85	2.90	4.2	5.7	7	9	12	
0.59	1.32	2.37	3.71	5.3	7.3	10	12	15	
0.59	1.31	2.34	3.67	5.3	7.2	9	12	15	
0.51	1.14	2.04	3.19	4.6	6.3	8	10	13	
0.43	0.95	1.70	2.66	3.8	5.2	7	9	11	
0.28	0.63	1.12	1.75	2.5	3.4	4	6	7	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

(702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

(702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

(702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Acacia stenophylla</i>
Common Name	Shoestring Acacia
Type	Tree
Exposure	na
Width	up to 20 ft
Height	up to 40 ft
Region	High & Intermediate Desert - 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical Eto - Las Vegas, NV

SNWA - LOW WATER USE COEFFICIENT*

Shoestring Acacia

0.20

Acacia stenophylla

*WUCOLS deems this plant "inappropriate" for the region

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Shoestring Acacia

Acacia stenophylla

height 40' width 20'

light na

water reqt. low

foliage evergreen



Diameter of Canopy (in feet)

4	6	8	10	12	14	16	18	20
12.56	28	50.2	78.5	113	154	201	254	314
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA								
0.25	0.56	1.01	1.57	2.3	3.1	4	5	6
0.38	0.84	1.50	2.35	3.4	4.6	6	8	9
0.46	1.03	1.85	2.90	4.2	5.7	7	9	12
0.59	1.32	2.37	3.71	5.3	7.3	10	12	15
0.59	1.31	2.34	3.67	5.3	7.2	9	12	15
0.51	1.14	2.04	3.19	4.6	6.3	8	10	13
0.43	0.95	1.70	2.66	3.8	5.2	7	9	11
0.28	0.63	1.12	1.75	2.5	3.4	4	6	7

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

(702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

(702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

(702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





11

Botanical Name	<i>Agave filifera</i>
Common Name	Thread Agave
Type	Shrub / Perennial
Exposure	Full Sun / Partial Sun
Width	up to 2 ft
Height	up to 2 ft
Region	High & Intermediate Desert - 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET₀ - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Thread Agave

agave filifera

0.20

Thread Agave

Agave filifera

height 2' width 2'

light full sun / partial sun

water reqt. low

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.02	0.06	0.14	0.25	0.39	0.57	
0.02	0.09	0.21	0.38	0.59	0.85	
0.03	0.12	0.26	0.46	0.72	1.04	
0.04	0.15	0.33	0.59	0.93	1.34	
0.04	0.15	0.33	0.59	0.92	1.32	
0.03	0.13	0.29	0.51	0.80	1.15	
0.03	0.11	0.24	0.43	0.67	0.96	
0.02	0.07	0.16	0.28	0.44	0.63	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Agave murpheyi</i>
Common Name	Murphy Agave
Type	Shrub / Perennial
Exposure	Full Sun / Partial Sun
Width	up to 3 ft
Height	up to 3 ft
Region	High & Intermediate Desert - 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Murphy Agave

Agave murpheyi

0.20

Murphy Agave

Agave murpheyi



height 3' width 3'

light full sun

water reqt. low

foliage evergreen

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.02	0.06	0.14	0.25	0.39	0.57	
0.02	0.09	0.21	0.38	0.59	0.85	
0.03	0.12	0.26	0.46	0.72	1.04	
0.04	0.15	0.33	0.59	0.93	1.34	
0.04	0.15	0.33	0.59	0.92	1.32	
0.03	0.13	0.29	0.51	0.80	1.15	
0.03	0.11	0.24	0.43	0.67	0.96	
0.02	0.07	0.16	0.28	0.44	0.63	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Agave ovatifolia</i>
Common Name	Whale's Tounge Agave
Type	Shrub / Perennial
Exposure	Full Sun / Partial Sun
Width	up to 4 ft
Height	up to 3 ft
Region	High & Intermediate Desert - 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Whale's Tounge Agave

0.20

Agave ovatifolia

Whale's Tounge Agave

Agave ovatifolia

height 3' width 4'

light full sun / partial sun

water reqt. low

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.02	0.06	0.14	0.25	0.39	0.57	
0.02	0.09	0.21	0.38	0.59	0.85	
0.03	0.12	0.26	0.46	0.72	1.04	
0.04	0.15	0.33	0.59	0.93	1.34	
0.04	0.15	0.33	0.59	0.92	1.32	
0.03	0.13	0.29	0.51	0.80	1.15	
0.03	0.11	0.24	0.43	0.67	0.96	
0.02	0.07	0.16	0.28	0.44	0.63	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Agave salmiana</i>
Common Name	Giant Agave
Type	Shrub / Perennial
Exposure	Full Sun - Partial Sun
Width	up to 8 ft
Height	up to 6 ft
Region	High and Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Giant Agave

Agave salmiana

0.20

Giant Agave

Agave salmiana



height 6' width 8'
light full sun, partial sun
water reqt. low
foliage evergreen

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)						
2	3	4	5	6	7	8
3.14	7.06	12.56	19.6	28	38.46	50.24
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.06	0.14	0.25	0.39	0.56	0.77	1.01
0.09	0.21	0.38	0.59	0.84	1.15	1.50
0.12	0.26	0.46	0.72	1.03	1.42	1.85
0.15	0.33	0.59	0.93	1.32	1.82	2.37
0.15	0.33	0.59	0.92	1.31	1.80	2.35
0.13	0.29	0.51	0.80	1.14	1.56	2.04
0.11	0.24	0.43	0.66	0.95	1.30	1.70
0.07	0.16	0.28	0.44	0.63	0.86	1.12

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Latin Name	Agave vilomoriana
Common Name	Octopus agave
Type	Perennial Shrub
Exposure	Full Sun / Partial Sun
Width	up to 4 ft
Height	up to 4 ft
Region	High & Intermediate Desert - 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Octopus Agave

Agave vilomoriana

0.20

Octopus Agave

Agave vilomoriana



height 4' width 4'

light full sun / partial sun

water reqt. low

foliage evergreen

	Las Vegas	Las Vegas	Las Vegas	Las Vegas	
	ET _o	ET _o	Ornamental	Ornamental	
	Avg	Avg.	Req't	Req't	
	Monthly	daily	daily	daily	Canopy Area
			(inches)	gal/ft ²	

31	Mar	4.99	0.1610	0.0322	0.020
30	Apr	7.21	0.2403	0.0481	0.030
31	May	9.18	0.2961	0.0592	0.037
30	Jun	11.38	0.3793	0.0759	0.047
31	Jul	11.62	0.3748	0.0750	0.047
31	Aug	10.11	0.3261	0.0652	0.041
30	Sep	8.16	0.2720	0.0544	0.034
31	Oct	5.56	0.1794	0.0359	0.022

Diameter of Canopy (in feet)

1	2	3	4	5	6
0.8	3.14	7.06	12.6	20	28

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.02	0.06	0.14	0.25	0.39	0.57
0.02	0.09	0.21	0.38	0.59	0.85
0.03	0.12	0.26	0.46	0.72	1.04
0.04	0.15	0.33	0.59	0.93	1.34
0.04	0.15	0.33	0.59	0.92	1.32
0.03	0.13	0.29	0.51	0.80	1.15
0.03	0.11	0.24	0.43	0.67	0.96
0.02	0.07	0.16	0.28	0.44	0.63

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130 (702) 839-9530

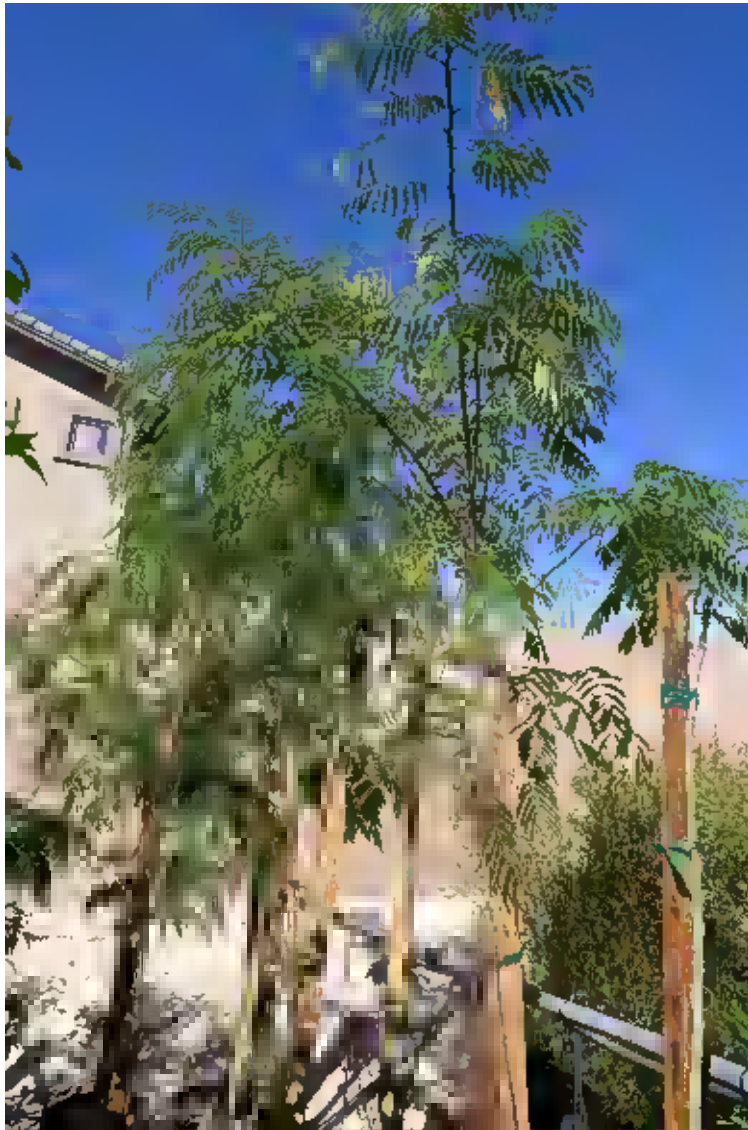
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101 (702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103 (702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120 (702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Latin Name	Albizzia julibrissin
Common Name	Silk Tree (Mimosa)
Type	Tree - Deciduous
Exposure	na
Width	up to 30 ft
Height	up to 25 ft
Region	High & Intermediate Desert - 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Silk Tree (Mimosa)

Albizia julibrissin

0.40

Silk Tree (Mimosa)

Albizia julibrissin

height 25'

width 30'

light na

water reqt.

moderate

foliage

deciduous



		Las Vegas	Las Vegas	Las Vegas	Las Vegas			Diameter of Canopy (in feet)													
		ET ₀	ET ₀	Ornamental	Ornamental	4	6	8	10	12	14	16	18	20	22	24	26	28	30		
		Avg	Avg.	Req't	Req't	12.56	28	50.2	78.5	113	154	201	254	314	380	452	531	615	706		
		Monthly	daily	daily	daily	Canopy Area		GALLONS REQUIRED PER DAY BASED ON CANOPY AREA													
				(inches)	gal/ft ²																
31	Mar	4.99	0.1610	0.0644	0.040	0.50	1.12	2.01	3.15	4.5	6.2	8.1	10.2	12.6	15.2	18.1	21.3	24.7	28.3		
30	Apr	7.21	0.2403	0.0961	0.060	0.75	1.68	3.01	4.70	6.8	9.2	12.0	15.2	18.8	22.8	27.1	31.8	36.8	42.3		
31	May	9.18	0.2961	0.1185	0.074	0.93	2.07	3.70	5.79	8.3	11.4	14.8	18.7	23.2	28.0	33.4	39.2	45.4	52.1		
30	Jun	11.38	0.3793	0.1517	0.095	1.19	2.65	4.75	7.42	10.7	14.6	19.0	24.0	29.7	35.9	42.7	50.2	58.1	66.7		
31	Jul	11.62	0.3748	0.1499	0.093	1.17	2.62	4.69	7.33	10.6	14.4	18.8	23.7	29.3	35.5	42.2	49.6	57.4	65.9		
31	Aug	10.11	0.3261	0.1305	0.081	1.02	2.28	4.08	6.38	9.2	12.5	16.3	20.6	25.5	30.9	36.7	43.2	50.0	57.4		
30	Sep	8.16	0.2720	0.1088	0.068	0.85	1.90	3.40	5.32	7.7	10.4	13.6	17.2	21.3	25.8	30.6	36.0	41.7	47.9		
31	Oct	5.56	0.1794	0.0717	0.045																

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

(702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

(702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

(702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Aloe vera</i>
Common Name	Barbados Aloe (Medicinal Aloe)
Type	Shrub / Succulent
Exposure	Full Sun / Partial Sun
Width	up to 2 ft
Height	up to 2 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

SNWA - LOW WATER USE COEFFICIENT*

Barbados Aloe (Medicinal Aloe) 0.20

Aloe vera

*WUCOLS deems this plant as "inappropriate" for the region

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.

Barbados Aloe (Medicinal Aloe)

Aloe vera

height 2' width 2'
light full sun / partial sun
water reqt. low
foliage evergreen



Diameter of Canopy (in feet)					
1	2	3	4	5	6
0.8	3.14	7.06	12.6	20	28

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.02	0.06	0.14	0.25	0.39	0.57
0.02	0.09	0.21	0.38	0.59	0.85
0.03	0.12	0.26	0.46	0.72	1.04
0.04	0.15	0.33	0.59	0.93	1.34
0.04	0.15	0.33	0.59	0.92	1.32
0.03	0.13	0.29	0.51	0.80	1.15
0.03	0.11	0.24	0.43	0.67	0.96
0.02	0.07	0.16	0.28	0.44	0.63





Botanical Name	<i>Alogyne huegeli</i>
Common Name	Blue Hibiscus
Type	Shrub
Exposure	Full Sun
Width	up to 6 ft
Height	up to 6 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

SNWA - LOW WATER USE COEFFICIENT*

Blue Hibiscus

0.20

Alogyne huegeli

*WUCOLS has deemed this plant "inappropriate" for the region

		Las Vegas ET _o Avg Monthly	Las Vegas ET _o Avg. daily	Las Vegas Ornamental Req't daily (inches)	Las Vegas Ornamental Req't daily gal/ft ²	Canopy Area
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130 (702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101 (702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103 (702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120 (702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.

Blue Hibiscus

Alogyne huegeli

height 6' width 6'

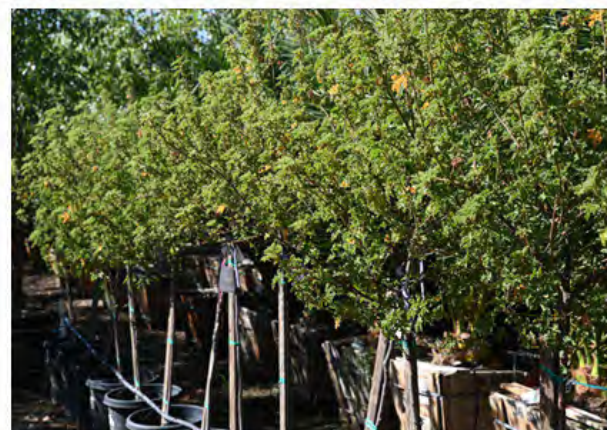
light full sun

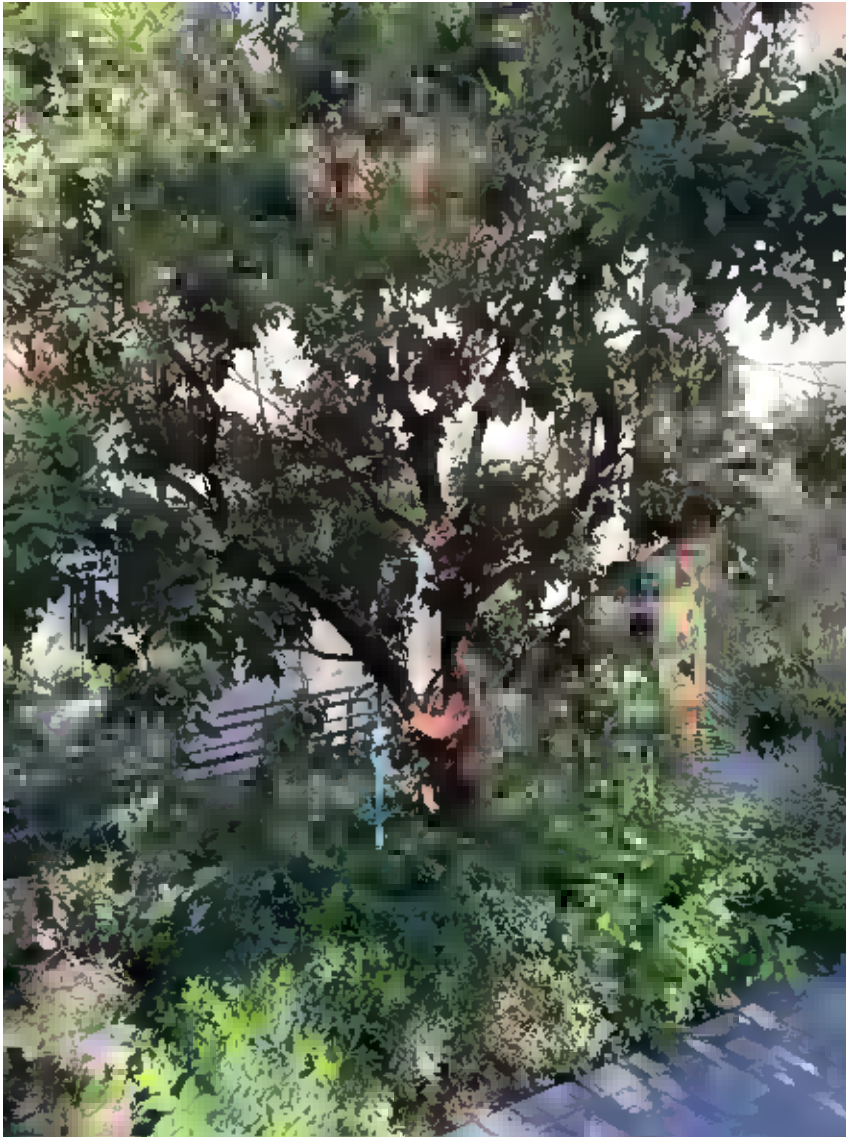
water reqt. low

foliage evergreen



Diameter of Canopy (in feet)						
2	3	4	5	6	7	8
3.14	7.06	12.56	19.6	28	38.46	50.24
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.06	0.14	0.25	0.39	0.56	0.77	1.01
0.09	0.21	0.38	0.59	0.84	1.15	1.50
0.12	0.26	0.46	0.72	1.03	1.42	1.85
0.15	0.33	0.59	0.93	1.32	1.82	2.37
0.15	0.33	0.59	0.92	1.31	1.80	2.35
0.13	0.29	0.51	0.80	1.14	1.56	2.04
0.11	0.24	0.43	0.66	0.95	1.30	1.70
0.07	0.16	0.28	0.44	0.63	0.86	1.12





Botanical Name	<i>Arbutus x andrachnoides</i> 'Marina'
Common Name	Marina Strawberry Tree
Type	Tree
Exposure	na
Width	up to 10 ft
Height	up to 15 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical Eto - Las Vegas, NV

SNWA - MODERATE WATER USE COEFFICIENT*

Marina Strawberry Tree

0.40

Arbutus x andrachnoides 'Marina'

*WUCOLS has deemed this plant inappropriate for the region

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0644	0.040	
30	Apr	7.21	0.2403	0.0961	0.060	
31	May	9.18	0.2961	0.1185	0.074	
30	Jun	11.38	0.3793	0.1517	0.095	
31	Jul	11.62	0.3748	0.1499	0.093	
31	Aug	10.11	0.3261	0.1305	0.081	
30	Sep	8.16	0.2720	0.1088	0.068	
31	Oct	5.56	0.1794	0.0717	0.045	

Marina Strawberry Tree

Arbutus x andrachnoides 'Marina'

height 15' width 10'

light na

water reqt. moderate

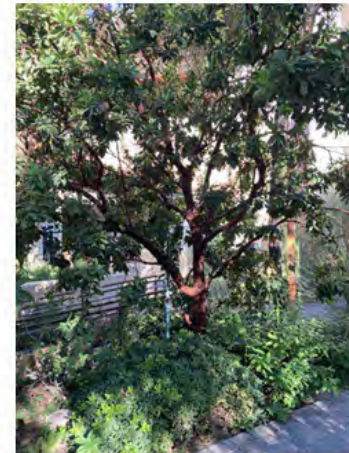
foliage evergreen



Diameter of Canopy (in feet)									
4	6	8	10	12	14	16	18	20	
12.56	28	50.2	78.5	113	154	201	254	314	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA									
0.50	1.12	2.01	3.15	4.5	6.2	8	10	13	
0.75	1.68	3.01	4.70	6.8	9.2	12	15	19	
0.93	2.07	3.70	5.79	8.3	11.4	15	19	23	
1.19	2.65	4.75	7.42	10.7	14.6	19	24	30	
1.17	2.62	4.69	7.33	10.6	14.4	19	24	29	
1.02	2.28	4.08	6.38	9.2	12.5	16	21	26	
0.85	1.90	3.40	5.32	7.7	10.4	14	17	21	
0.56	1.25	2.24	3.51	5.1	6.9	9	11	14	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Asclepias subulata</i>
Common Name	Desert Milkweed
Type	Shrub / Evergreen
Exposure	Full Sun
Width	up to 6 ft
Height	up to 5 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET₀ - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Desert Milkweed

0.20

Asclepias subulata

Desert Milkweed

Asclepias subulata



height 5' width 6'

light full sun

water reqt. low

foliage evergreen

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)							
2	3	4	5	6	7	8	
3.14	7.06	12.56	19.6	28	38.46	50.24	

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.06	0.14	0.25	0.39	0.56	0.77	1.01
0.09	0.21	0.38	0.59	0.84	1.15	1.50
0.12	0.26	0.46	0.72	1.03	1.42	1.85
0.15	0.33	0.59	0.93	1.32	1.82	2.37
0.15	0.33	0.59	0.92	1.31	1.80	2.35
0.13	0.29	0.51	0.80	1.14	1.56	2.04
0.11	0.24	0.43	0.66	0.95	1.30	1.70
0.07	0.16	0.28	0.44	0.63	0.86	1.12

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Baileya multiradiata</i>
Common Name	Desert Marigold
Type	Perennial
Exposure	Full Sun
Width	up to 2 ft
Height	up to 1 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV
WUCOLS IV - LOW WATER USE COEFFICIENT

Desert Marigold

Baileya multiradiata

0.20

Desert Marigold
Baileya multiradiata

height 1' width 2'
light full sun
water reqt. low
foliage deciduous



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)					
------------------------------	--	--	--	--	--

1	2	3	4	5	6
0.8	3.14	7.06	12.6	20	28

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.02	0.06	0.14	0.25	0.39	0.57
0.02	0.09	0.21	0.38	0.59	0.85
0.03	0.12	0.26	0.46	0.72	1.04
0.04	0.15	0.33	0.59	0.93	1.34
0.04	0.15	0.33	0.59	0.92	1.32
0.03	0.13	0.29	0.51	0.80	1.15
0.03	0.11	0.24	0.43	0.67	0.96
0.02	0.07	0.16	0.28	0.44	0.63

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130 (702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101 (702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103 (702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120 (702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Brachychiton populneus</i>
Common Name	Bottle Tree
Type	Tree / Evergreen
Exposure	na
Width	up to 20 ft
Height	up to 30 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Bottle Tree

Brachychiton populneus

0.40

Mature Size

Bottle Tree

Brachychiton populneus

height 30'

width 20'

light na

water reqt. moderate

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	foliage evergreen									
		ET ₀	ET ₀	Ornamental	Ornamental	Diameter of Canopy (in feet)									
		Avg	Avg.	Req't	Req't										
		Monthly	daily	daily	daily	Canopy Area	4	6	8	10	12	14	16	18	20
				(inches)	gal/ft ²		12.56	28	50.2	78.5	113	154	201	254	314
				GALLONS REQUIRED PER DAY BASED ON CANOPY AREA											
31	Mar	4.99	0.1610	0.0644	0.040		0.50	1.12	2.01	3.15	4.5	6.2	8	10	13
30	Apr	7.21	0.2403	0.0961	0.060		0.75	1.68	3.01	4.70	6.8	9.2	12	15	19
31	May	9.18	0.2961	0.1185	0.074		0.93	2.07	3.70	5.79	8.3	11.4	15	19	23
30	Jun	11.38	0.3793	0.1517	0.095		1.19	2.65	4.75	7.42	10.7	14.6	19	24	30
31	Jul	11.62	0.3748	0.1499	0.093		1.17	2.62	4.69	7.33	10.6	14.4	19	24	29
31	Aug	10.11	0.3261	0.1305	0.081		1.02	2.28	4.08	6.38	9.2	12.5	16	21	26
30	Sep	8.16	0.2720	0.1088	0.068		0.85	1.90	3.40	5.32	7.7	10.4	14	17	21
31	Oct	5.56	0.1794	0.0717	0.045		0.56	1.25	2.24	3.51	5.1	6.9	9	11	14

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130 (702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101 (702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103 (702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120 (702) 547-9530



Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.



Botanical Name	<i>Buddleja davidii</i>
Common Name	Black Knight'
Type	Shrub / deciduous / semi dec.
Exposure	Full Sun - Partial Sun
Width	up to 6 ft
Height	up to 8 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Black Knight Butterfly Bush 0.40

Buddleja davidii 'Black Knight'

Black Knight Butterfly Bush

Buddleja davidii 'Black Knight'



height 8' width 6'
light full sun, partial sun
water reqt. moderate
foliage deciduous semi-deciduous

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0644	0.040	
30	Apr	7.21	0.2403	0.0961	0.060	
31	May	9.18	0.2961	0.1185	0.074	
30	Jun	11.38	0.3793	0.1517	0.095	
31	Jul	11.62	0.3748	0.1499	0.093	
31	Aug	10.11	0.3261	0.1305	0.081	
30	Sep	8.16	0.2720	0.1088	0.068	
31	Oct	5.56	0.1794	0.0717	0.045	

Diameter of Canopy (in feet)						
2	3	4	5	6	7	8
3.14	7.06	12.56	19.6	28	38.46	50.24

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.13	0.28	0.50	0.79	1.12	1.54	2.02
0.19	0.42	0.75	1.17	1.68	2.30	3.01
0.23	0.52	0.93	1.45	2.07	2.84	3.71
0.30	0.67	1.19	1.85	2.65	3.64	4.75
0.29	0.66	1.17	1.83	2.62	3.59	4.69
0.26	0.57	1.02	1.59	2.28	3.13	4.08
0.21	0.48	0.85	1.33	1.90	2.61	3.41
0.14	0.32	0.56	0.88	1.25	1.72	2.25

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Buddleja utahensis</i>
Common Name	Utah Butterfly Bush
Type	Shrub
Exposure	Full Sun / Partial Sun
Width	up to 2 ft
Height	up to 2 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

SNWA - LOW WATER USE COEFFICIENT*

Utah Butterfly Bush

0.20

Buddleja utahensis

*coefficient for this plant and region not provided by WUCOLS

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Utah Butterfly Bush

Buddleja utahensis

height 2' width 2'

light full sun / partial sun

water reqt. low

foliage evergreen



Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.02	0.06	0.14	0.25	0.39	0.57	
0.02	0.09	0.21	0.38	0.59	0.85	
0.03	0.12	0.26	0.46	0.72	1.04	
0.04	0.15	0.33	0.59	0.93	1.34	
0.04	0.15	0.33	0.59	0.92	1.32	
0.03	0.13	0.29	0.51	0.80	1.15	
0.03	0.11	0.24	0.43	0.67	0.96	
0.02	0.07	0.16	0.28	0.44	0.63	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Butita capitata</i>
Common Name	Pindo Palm
Type	Tree / Palm & Cycad
Exposure	na
Width	up to 15 ft
Height	up to 20 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical Eto - Las Vegas, NV

WUCOLS - MODERATE WATER USE COEFFICIENT*

Pindo Palm

Butita capitata

0.40

Pindo Palm

Butita capitata

height 20' width 15'

light na

water reqt. moderate

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0644	0.040	
30	Apr	7.21	0.2403	0.0961	0.060	
31	May	9.18	0.2961	0.1185	0.074	
30	Jun	11.38	0.3793	0.1517	0.095	
31	Jul	11.62	0.3748	0.1499	0.093	
31	Aug	10.11	0.3261	0.1305	0.081	
30	Sep	8.16	0.2720	0.1088	0.068	
31	Oct	5.56	0.1794	0.0717	0.045	

Diameter of Canopy (in feet)

4	6	8	10	12	14	16	18	20
12.56	28	50.2	78.5	113	154	201	254	314
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA								
0.50	1.12	2.01	3.15	4.5	6.2	8	10	13
0.75	1.68	3.01	4.70	6.8	9.2	12	15	19
0.93	2.07	3.70	5.79	8.3	11.4	15	19	23
1.19	2.65	4.75	7.42	10.7	14.6	19	24	30
1.17	2.62	4.69	7.33	10.6	14.4	19	24	29
1.02	2.28	4.08	6.38	9.2	12.5	16	21	26
0.85	1.90	3.40	5.32	7.7	10.4	14	17	21
0.56	1.25	2.24	3.51	5.1	6.9	9	11	14

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 839-9530

(702) 459-9530

(702) 895-7612

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





41	Botanical Name	<i>Caesalpinia mexicana</i>
	Common Name	Mexican Bird of Paradise
	Type	Shrub
	Exposure	Full Sun - Partial Sun
	Width	up to 6 ft
	Height	up to 12 ft
	Region	High & Intermediate Desert 5
	Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET₀ - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Mexican Bird of Paradise

0.20

Caesalpinia mexicana

Mexican Bird of Paradise

Caesalpinia mexicana



height 12' width 6'

light full sun, partial sun

water reqt. low

foliage evergreen, deciduous

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)						
2	3	4	5	6	7	8
3.14	7.06	12.56	19.6	28	38.46	50.24

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.06	0.14	0.25	0.39	0.56	0.77	1.01
0.09	0.21	0.38	0.59	0.84	1.15	1.50
0.12	0.26	0.46	0.72	1.03	1.42	1.85
0.15	0.33	0.59	0.93	1.32	1.82	2.37
0.15	0.33	0.59	0.92	1.31	1.80	2.35
0.13	0.29	0.51	0.80	1.14	1.56	2.04
0.11	0.24	0.43	0.66	0.95	1.30	1.70
0.07	0.16	0.28	0.44	0.63	0.86	1.12

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Calamagrostis acutiflora</i> - 'Karl Foerster'
Common Name	Korean Feather Reed Grass
Type	Ornamental Grass
Exposure	Full Sun / Partial Sun
Width	up to 3 ft
Height	up to 3 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET₀ - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Korean Feather Reed Grass

0.40

Calamagrostis acutiflora - 'Karl Foerste'

Korean Feather Reed Grass

Calamagrostis acutiflora - 'Karl Foerste'

height 3' width 3'

light full sun / partial sun

water reqt. moderate

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0644	0.040	
30	Apr	7.21	0.2403	0.0961	0.060	
31	May	9.18	0.2961	0.1185	0.074	
30	Jun	11.38	0.3793	0.1517	0.095	
31	Jul	11.62	0.3748	0.1499	0.093	
31	Aug	10.11	0.3261	0.1305	0.081	
30	Sep	8.16	0.2720	0.1088	0.068	
31	Oct	5.56	0.1794	0.0717	0.045	

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.03	0.13	0.28	0.50	0.79	1.14	
0.05	0.19	0.42	0.75	1.18	1.69	
0.06	0.23	0.52	0.93	1.45	2.09	
0.08	0.30	0.67	1.19	1.86	2.68	
0.07	0.29	0.66	1.17	1.83	2.64	
0.07	0.26	0.57	1.02	1.60	2.30	
0.05	0.21	0.48	0.85	1.33	1.92	
0.04	0.14	0.32	0.56	0.88	1.26	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





45

Botanical Name	<i>Callistemon citrinus</i>
Common Name	Lemon Bottlebrush
Type	Tree / Shrub
Exposure	Full Sun
Width	up to 8 ft
Height	up to 8 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

SNWA - MODERATE WATER USE COEFFICIENT*

Lemon Bottlebrush

0.40

Callistemon citrinus

*WUCOLS deems this plant inappropriate for the region

Lemon Bottlebrush

Callistemon citrinus



height 8' width 8'

light full sun

water reqt. moderate

foliage evergreen

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0644	0.040	
30	Apr	7.21	0.2403	0.0961	0.060	
31	May	9.18	0.2961	0.1185	0.074	
30	Jun	11.38	0.3793	0.1517	0.095	
31	Jul	11.62	0.3748	0.1499	0.093	
31	Aug	10.11	0.3261	0.1305	0.081	
30	Sep	8.16	0.2720	0.1088	0.068	
31	Oct	5.56	0.1794	0.0717	0.045	

Diameter of Canopy (in feet)						
2	3	4	5	6	7	8
3.14	7.06	12.56	19.6	28	38.46	50.24

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.13	0.28	0.50	0.79	1.12	1.54	2.02
0.19	0.42	0.75	1.17	1.68	2.30	3.01
0.23	0.52	0.93	1.45	2.07	2.84	3.71
0.30	0.67	1.19	1.85	2.65	3.64	4.75
0.29	0.66	1.17	1.83	2.62	3.59	4.69
0.26	0.57	1.02	1.59	2.28	3.13	4.08
0.21	0.48	0.85	1.33	1.90	2.61	3.41
0.14	0.32	0.56	0.88	1.25	1.72	2.25

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Callistemon 'Little John'</i>
Common Name	Little John Dwarf Bottlebrush
Type	Shrub
Exposure	Full Sun
Width	up to 3 ft
Height	up to 2 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Little John Dwarf Bottlebrush 0.40

Callistemon 'Little John'

Little John Dwarf Bottlebrush

Callistemon 'Little John'

height 2' width 3'

light full sun

water reqt. moderate

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0644	0.040	
30	Apr	7.21	0.2403	0.0961	0.060	
31	May	9.18	0.2961	0.1185	0.074	
30	Jun	11.38	0.3793	0.1517	0.095	
31	Jul	11.62	0.3748	0.1499	0.093	
31	Aug	10.11	0.3261	0.1305	0.081	
30	Sep	8.16	0.2720	0.1088	0.068	
31	Oct	5.56	0.1794	0.0717	0.045	

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.03	0.13	0.28	0.50	0.79	1.14	
0.05	0.19	0.42	0.75	1.18	1.69	
0.06	0.23	0.52	0.93	1.45	2.09	
0.08	0.30	0.67	1.19	1.86	2.68	
0.07	0.29	0.66	1.17	1.83	2.64	
0.07	0.26	0.57	1.02	1.60	2.30	
0.05	0.21	0.48	0.85	1.33	1.92	
0.04	0.14	0.32	0.56	0.88	1.26	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Carnegiea gigantea</i>
Common Name	Saguaro Cactus (with Arms)
Type	Shrub / Cactus
Exposure	Full Sun / Partial Sun
Width	up to 6 ft
Height	up to 20 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

SNWA - LOW WATER USE COEFFICIENT*

Saguaro Cactus (with arms) 0.20

Carnegiea gigantea

*WUCOLS deems this plant inappropriate for the region

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.

Saguaro Cactus (with arms)

Carnegiea gigantea

height 20' width 6'

light full sun / partial sun

water reqt. low

foliage evergreen



Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.02	0.06	0.14	0.25	0.39	0.57	
0.02	0.09	0.21	0.38	0.59	0.85	
0.03	0.12	0.26	0.46	0.72	1.04	
0.04	0.15	0.33	0.59	0.93	1.34	
0.04	0.15	0.33	0.59	0.92	1.32	
0.03	0.13	0.29	0.51	0.80	1.15	
0.03	0.11	0.24	0.43	0.67	0.96	
0.02	0.07	0.16	0.28	0.44	0.63	





Botanical Name	<i>Celtis occidentales</i>
Common Name	Common Hackberry
Type	Tree - Deciduous
Exposure	na
Width	up to 30 ft
Height	up to 45 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET₀ - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Common Hackberry

Celtis occidentales

0.40

Common Hackberry

Celtis occidentales

height 45'

width 30'

light na

water reqt. moderate

foliage deciduous



		Las Vegas	Las Vegas	Las Vegas	Las Vegas			Diameter of Canopy (in feet)															
		ET ₀	ET ₀	Ornamental	Ornamental			4	6	8	10	12	14	16	18	20	22	24	26	28	30		
		Avg	Avg.	Req't	Req't			12.6	28	50.2	78.5	113	154	201	254	314	380	452	531	615	706		
		Monthly	daily	daily	daily	Canopy Area		GALLONS REQUIRED PER DAY BASED ON CANOPY AREA															
				(inches)	gal/ft ²																		
31	Mar	4.99	0.1610	0.0644	0.040	0.50	1.12	2.01	3.15	4.5	6.2	8.1	10.2	12.6	15.2	18.1	21.3	24.7	28.3				
30	Apr	7.21	0.2403	0.0961	0.060	0.75	1.68	3.01	4.70	6.8	9.2	12.0	15.2	18.8	22.8	27.1	31.8	36.8	42.3				
31	May	9.18	0.2961	0.1185	0.074	0.93	2.07	3.70	5.79	8.3	11.4	14.8	18.7	23.2	28.0	33.4	39.2	45.4	52.1				
30	Jun	11.38	0.3793	0.1517	0.095	1.19	2.65	4.75	7.42	10.7	14.6	19.0	24.0	29.7	35.9	42.7	50.2	58.1	66.7				
31	Jul	11.62	0.3748	0.1499	0.093	1.17	2.62	4.69	7.33	10.6	14.4	18.8	23.7	29.3	35.5	42.2	49.6	57.4	65.9				
31	Aug	10.11	0.3261	0.1305	0.081	1.02	2.28	4.08	6.38	9.2	12.5	16.3	20.6	25.5	30.9	36.7	43.2	50.0	57.4				
30	Sep	8.16	0.2720	0.1088	0.068	0.85	1.90	3.40	5.32	7.7	10.4	13.6	17.2	21.3	25.8	30.6	36.0	41.7	47.9				
31	Oct	5.56	0.1794	0.0717	0.045																		

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130 (702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101 (702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103 (702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120 (702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Chamaerops humilis</i>
Common Name	Mediterranean Fan Palm
Type	Shrub / Palm & Cycad
Exposure	na
Width	up to 15 ft
Height	up to 15 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical Eto - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Mediterranean Fan Palm

Chamaerops humilis

0.40

Mediterranean Fan Palm

Chamaerops humilis

height 15' width 15'

light na

water reqt. moderate

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0644	0.040	
30	Apr	7.21	0.2403	0.0961	0.060	
31	May	9.18	0.2961	0.1185	0.074	
30	Jun	11.38	0.3793	0.1517	0.095	
31	Jul	11.62	0.3748	0.1499	0.093	
31	Aug	10.11	0.3261	0.1305	0.081	
30	Sep	8.16	0.2720	0.1088	0.068	
31	Oct	5.56	0.1794	0.0717	0.045	

Diameter of Canopy (in feet)								
4	6	8	10	12	14	16	18	20
12.56	28	50.2	78.5	113	154	201	254	314
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA								
0.50	1.12	2.01	3.15	4.5	6.2	8	10	13
0.75	1.68	3.01	4.70	6.8	9.2	12	15	19
0.93	2.07	3.70	5.79	8.3	11.4	15	19	23
1.19	2.65	4.75	7.42	10.7	14.6	19	24	30
1.17	2.62	4.69	7.33	10.6	14.4	19	24	29
1.02	2.28	4.08	6.38	9.2	12.5	16	21	26
0.85	1.90	3.40	5.32	7.7	10.4	14	17	21
0.56	1.25	2.24	3.51	5.1	6.9	9	11	14

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

(702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

(702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

(702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Chilopsis linearis</i>
Common Name	Desert Willow
Type	Tree / Deciduous
Exposure	na
Width	up to 20 ft
Height	up to 25 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET₀ - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Desert Willow

Chilopsis linearis

0.40

Mature Size

Desert Willow

Chilopsis linearis

height 25' width 20'

light na

water reqt. moderate

foliage deciduous



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0644	0.040	
30	Apr	7.21	0.2403	0.0961	0.060	
31	May	9.18	0.2961	0.1185	0.074	
30	Jun	11.38	0.3793	0.1517	0.095	
31	Jul	11.62	0.3748	0.1499	0.093	
31	Aug	10.11	0.3261	0.1305	0.081	
30	Sep	8.16	0.2720	0.1088	0.068	
31	Oct	5.56	0.1794	0.0717	0.045	

Diameter of Canopy (in feet)								
4	6	8	10	12	14	16	18	20
12.56	28	50.2	78.5	113	154	201	254	314
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA								
0.50	1.12	2.01	3.15	4.5	6.2	8	10	13
0.75	1.68	3.01	4.70	6.8	9.2	12	15	19
0.93	2.07	3.70	5.79	8.3	11.4	15	19	23
1.19	2.65	4.75	7.42	10.7	14.6	19	24	30
1.17	2.62	4.69	7.33	10.6	14.4	19	24	29
1.02	2.28	4.08	6.38	9.2	12.5	16	21	26
0.85	1.90	3.40	5.32	7.7	10.4	14	17	21
0.56	1.25	2.24	3.51	5.1	6.9	9	11	14

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Convolvulus cneorum</i>
Common Name	Bush Morning Glory
Type	Shrub
Exposure	Full Sun
Width	up to 4 ft
Height	up to 2 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Bush Morning Glory

0.20

Convolvulus cneorum

Bush Morning Glory

Convolvulus cneorum



height 2' width 4'

light full sun

water reqt. low

foliage evergreen

		Las Vegas ET _o Avg Monthly	Las Vegas ET _o Avg. daily	Las Vegas Ornamental Req't daily (inches)	Las Vegas Ornamental Req't daily gal/ft ²	Canopy Area
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.02	0.06	0.14	0.25	0.39	0.57	
0.02	0.09	0.21	0.38	0.59	0.85	
0.03	0.12	0.26	0.46	0.72	1.04	
0.04	0.15	0.33	0.59	0.93	1.34	
0.04	0.15	0.33	0.59	0.92	1.32	
0.03	0.13	0.29	0.51	0.80	1.15	
0.03	0.11	0.24	0.43	0.67	0.96	
0.02	0.07	0.16	0.28	0.44	0.63	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

(702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

(702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

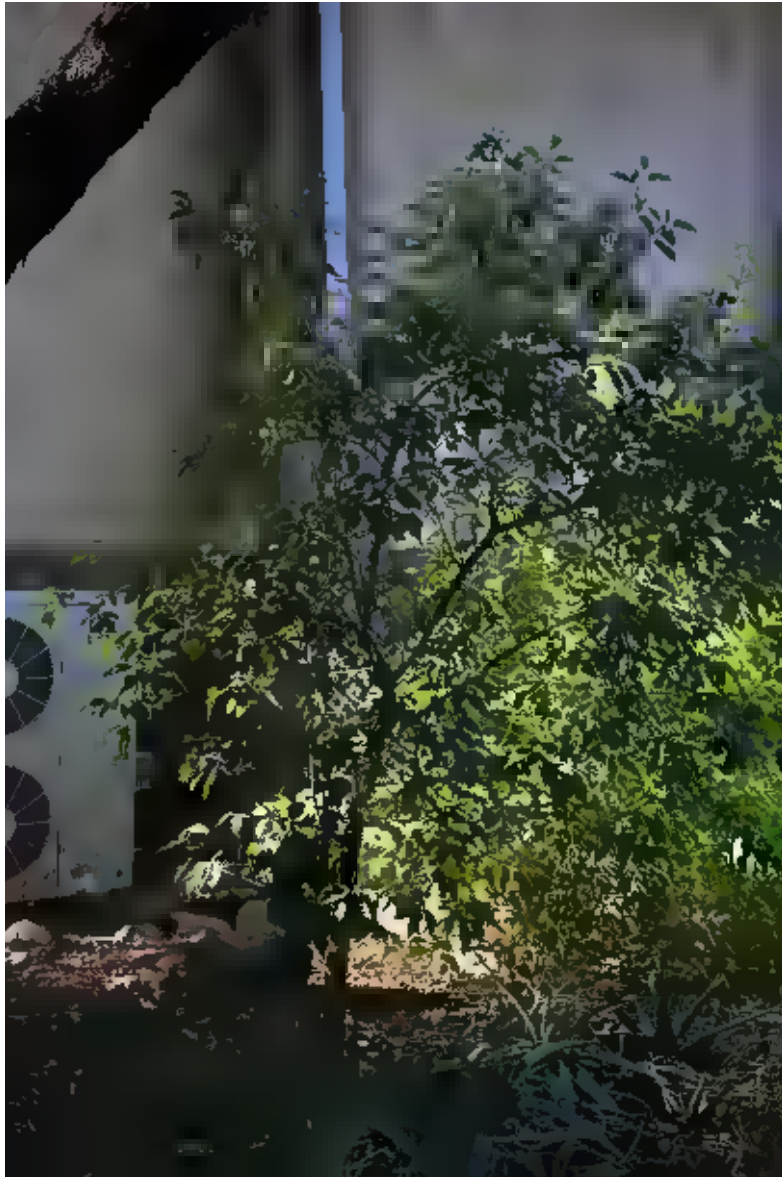
(702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





59

Botanical Name	<i>Cordia boissieri</i>
Common Name	Texas Olive
Type	Tree / Semi Deciduous
Exposure	na
Width	up to 15 ft
Height	up to 20 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical Eto - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Texas Olive

Cordia boissieri

0.20

Texas Olive

Cordia boissieri

height 20' width 15'

light na

water reqt. low

foliage semi deciduous



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)

4	6	8	10	12	14	16	18	20
12.56	28	50.2	78.5	113	154	201	254	314

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.25	0.56	1.01	1.57	2.3	3.1	4	5	6
0.38	0.84	1.50	2.35	3.4	4.6	6	8	9
0.46	1.03	1.85	2.90	4.2	5.7	7	9	12
0.59	1.32	2.37	3.71	5.3	7.3	10	12	15
0.59	1.31	2.34	3.67	5.3	7.2	9	12	15
0.51	1.14	2.04	3.19	4.6	6.3	8	10	13
0.43	0.95	1.70	2.66	3.8	5.2	7	9	11
0.28	0.63	1.12	1.75	2.5	3.4	4	6	7

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

(702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

(702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

(702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





61

Botanical Name	<i>Cotoneaster parneyi</i>
Common Name	Red Clusterberry
Type	Shrub
Exposure	Full Sun - Partial Sun
Width	up to 6 ft
Height	up to 6 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Red Clusterberry

0.40

Cotoneaster parneyi

Red Clusterberry

Cotoneaster parneyi



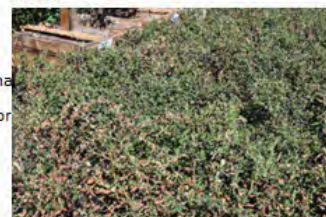
height 6' width 6'
light full sun, partial sun
water reqt. moderate
foliage evergreen

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0644	0.040	
30	Apr	7.21	0.2403	0.0961	0.060	
31	May	9.18	0.2961	0.1185	0.074	
30	Jun	11.38	0.3793	0.1517	0.095	
31	Jul	11.62	0.3748	0.1499	0.093	
31	Aug	10.11	0.3261	0.1305	0.081	
30	Sep	8.16	0.2720	0.1088	0.068	
31	Oct	5.56	0.1794	0.0717	0.045	

Diameter of Canopy (in feet)						
2	3	4	5	6	7	8
3.14	7.06	12.56	19.6	28	38.46	50.24
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.13	0.28	0.50	0.79	1.12	1.54	2.02
0.19	0.42	0.75	1.17	1.68	2.30	3.01
0.23	0.52	0.93	1.45	2.07	2.84	3.71
0.30	0.67	1.19	1.85	2.65	3.64	4.75
0.29	0.66	1.17	1.83	2.62	3.59	4.69
0.26	0.57	1.02	1.59	2.28	3.13	4.08
0.21	0.48	0.85	1.33	1.90	2.61	3.41
0.14	0.32	0.56	0.88	1.25	1.72	2.25

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130 (702) 839-9530
 Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101 (702) 459-9530
 West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103 (702) 895-7612
 South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120 (702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





63

Botanical Name	<i>Cylindropuntia ramosissima</i>
Common Name	Diamond Cholla
Type	Shrub / Cactus
Exposure	Full Sun
Width	up to 5 ft
Height	up to 3 ft
Region	High & Intermediate Desert 5
Water Use Category	Very Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET₀ - Las Vegas, NV

WUCOLS IV - VERY LOW WATER USE COEFFICIENT

Diamond Cholla

0.10

Cylindropuntia ramosissima

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0161	0.010	
30	Apr	7.21	0.2403	0.0240	0.015	
31	May	9.18	0.2961	0.0296	0.018	
30	Jun	11.38	0.3793	0.0379	0.024	
31	Jul	11.62	0.3748	0.0375	0.023	
31	Aug	10.11	0.3261	0.0326	0.020	
30	Sep	8.16	0.2720	0.0272	0.017	
31	Oct	5.56	0.1794	0.0179	0.011	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.

Diamond Cholla

Cylindropuntia ramosissima



height 3' width 5'
light full sun
water reqt. very low
foliage evergreen

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.01	0.03	0.07	0.13	0.20	0.28
0.01	0.05	0.11	0.19	0.29	0.42
0.01	0.06	0.13	0.23	0.36	0.52
0.02	0.07	0.17	0.30	0.46	0.67
0.02	0.07	0.16	0.29	0.46	0.66
0.02	0.06	0.14	0.26	0.40	0.57
0.01	0.05	0.12	0.21	0.33	0.48
0.01	0.04	0.08	0.14	0.22	0.32





65

Botanical Name	<i>Dasylirion acrotriche</i>
Common Name	Green Desert Spoon
Type	Shrub
Exposure	Full Sun
Width	up to 6 ft
Height	up to 5 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Green Desert Spoon

0.20

Dasyllirion acrotriche

Green Desert Spoon

Dasyllirion acrotriche

height 5' width 6'

light full sun

water reqt. low

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)

1	2	3	4	5	6
0.8	3.14	7.06	12.6	20	28

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.02	0.06	0.14	0.25	0.39	0.57
0.02	0.09	0.21	0.38	0.59	0.85
0.03	0.12	0.26	0.46	0.72	1.04
0.04	0.15	0.33	0.59	0.93	1.34
0.04	0.15	0.33	0.59	0.92	1.32
0.03	0.13	0.29	0.51	0.80	1.15
0.03	0.11	0.24	0.43	0.67	0.96
0.02	0.07	0.16	0.28	0.44	0.63

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





67

Botanical Name	<i>Dodonaea viscosa</i>
Common Name	Hopseed Bush
Type	Shrub
Exposure	Full Sun
Width	up to 6 ft
Height	up to 10 ft
Region	High & Intermediate Desert 5
Water Use Category	Moderate

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - MODERATE WATER USE COEFFICIENT

Hopseed Bush

Dodonaea viscosa

0.40

Hopseed Bush

Dodonaea viscosa



height 10' width 6'

light full sun

water reqt. moderate

foliage evergreen

	Las Vegas	Las Vegas	Las Vegas	Las Vegas	
	ET _o	ET _o	Ornamental	Ornamental	
	Avg	Avg.	Req't	Req't	
	Monthly	daily	daily	daily	Canopy Area
			(inches)	gal/ft ²	

Shrub/Cac

31	Mar	4.99	0.1610	0.0644	0.040
30	Apr	7.21	0.2403	0.0961	0.060
31	May	9.18	0.2961	0.1185	0.074
30	Jun	11.38	0.3793	0.1517	0.095
31	Jul	11.62	0.3748	0.1499	0.093
31	Aug	10.11	0.3261	0.1305	0.081
30	Sep	8.16	0.2720	0.1088	0.068
31	Oct	5.56	0.1794	0.0717	0.045

Diameter of Canopy (in feet)

1	2	3	4	5	6
0.8	3.14	7.06	12.6	20	28

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.03	0.13	0.28	0.50	0.79	1.14
0.05	0.19	0.42	0.75	1.18	1.69
0.06	0.23	0.52	0.93	1.45	2.09
0.08	0.30	0.67	1.19	1.86	2.68
0.07	0.29	0.66	1.17	1.83	2.64
0.07	0.26	0.57	1.02	1.60	2.30
0.05	0.21	0.48	0.85	1.33	1.92
0.04	0.14	0.32	0.56	0.88	1.26

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Ebenopsis ebano</i>
Common Name	Texas Ebony
Type	Tree / Semi Deciduous
Exposure	na
Width	up to 20 ft
Height	up to 25 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical Eto - Las Vegas, NV

SNWA - LOW WATER USE COEFFICIENT*

Texas Ebony**0.20***Ebenopsis ebano*

*WUCOLS does not provide a water use coefficient for this plant

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET ₀	ET ₀	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Texas Ebony

Ebenopsis ebano

height 25' width 20'

light na

water reqt. low

foliage semi deciduous

**Diameter of Canopy (in feet)**

4	6	8	10	12	14	16	18	20
12.56	28	50.2	78.5	113	154	201	254	314

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.25	0.56	1.01	1.57	2.3	3.1	4	5	6
0.38	0.84	1.50	2.35	3.4	4.6	6	8	9
0.46	1.03	1.85	2.90	4.2	5.7	7	9	12
0.59	1.32	2.37	3.71	5.3	7.3	10	12	15
0.59	1.31	2.34	3.67	5.3	7.2	9	12	15
0.51	1.14	2.04	3.19	4.6	6.3	8	10	13
0.43	0.95	1.70	2.66	3.8	5.2	7	9	11
0.28	0.63	1.12	1.75	2.5	3.4	4	6	7

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

(702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

(702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

(702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Echinocereus grusonii</i>
Common Name	Golden Barrel Cactus
Type	Shrub / Cactus
Exposure	Full Sun
Width	up to 3 ft
Height	up to 3 ft
Region	Intermediate Desert 5
Water Use Ca	

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

SNWA- LOW WATER USE COEFFICIENT*

Golden Barrel Cactus

0.20

Echinocereus grusonii

*WUCOLS deems this plant inappropriate for the region

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130

(702) 839-9530

Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101

(702) 459-9530

West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103

(702) 895-7612

South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120

(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.

Golden Barrel Cactus

Echinocereus grusonii



height 2' width 3'

light full sun

water reqt. low

foliage evergreen

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.02	0.06	0.14	0.25	0.39	0.57	
0.02	0.09	0.21	0.38	0.59	0.85	
0.03	0.12	0.26	0.46	0.72	1.04	
0.04	0.15	0.33	0.59	0.93	1.34	
0.04	0.15	0.33	0.59	0.92	1.32	
0.03	0.13	0.29	0.51	0.80	1.15	
0.03	0.11	0.24	0.43	0.67	0.96	
0.02	0.07	0.16	0.28	0.44	0.63	





73

Botanical Name	<i>Echinopsis pachanoi</i>
Common Name	San Pedro Cactus
Type	Shrub / Cactus
Exposure	Full Sun
Width	up to 6 ft
Height	up to 8 ft
Region	High & Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ET_o - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

San Pedro Cactus

0.20

Echinopsis pachanoi

San Pedro Cactus

Echinopsis pachanoi



height 8' width 6'

light full sun

water reqt. low

foliage evergreen

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	Canopy Area
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.02	0.06	0.14	0.25	0.39	0.57
0.02	0.09	0.21	0.38	0.59	0.85
0.03	0.12	0.26	0.46	0.72	1.04
0.04	0.15	0.33	0.59	0.93	1.34
0.04	0.15	0.33	0.59	0.92	1.32
0.03	0.13	0.29	0.51	0.80	1.15
0.03	0.11	0.24	0.43	0.67	0.96
0.02	0.07	0.16	0.28	0.44	0.63

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Encelia forinosa</i>
Common Name	Brittlebush
Type	Shrub
Exposure	Full Sun
Width	up to 4 ft
Height	up to 3 ft
Region	High & Intermediate Desert 5
Water Use Category	Very Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - VERY LOW WATER USE COEFFICIENT

Brittlebush

0.10

Encelia forinosa

Brittlebush

Encelia forinosa

height 3' width 4'

light full sun

water reqt. very low

foliage deciduous



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg.	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0161	0.010	
30	Apr	7.21	0.2403	0.0240	0.015	
31	May	9.18	0.2961	0.0296	0.018	
30	Jun	11.38	0.3793	0.0379	0.024	
31	Jul	11.62	0.3748	0.0375	0.023	
31	Aug	10.11	0.3261	0.0326	0.020	
30	Sep	8.16	0.2720	0.0272	0.017	
31	Oct	5.56	0.1794	0.0179	0.011	

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.01	0.03	0.07	0.13	0.20	0.28	
0.01	0.05	0.11	0.19	0.29	0.42	
0.01	0.06	0.13	0.23	0.36	0.52	
0.02	0.07	0.17	0.30	0.46	0.67	
0.02	0.07	0.16	0.29	0.46	0.66	
0.02	0.06	0.14	0.26	0.40	0.57	
0.01	0.05	0.12	0.21	0.33	0.48	
0.01	0.04	0.08	0.14	0.22	0.32	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130 (702) 839-9530
 Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101 (702) 459-9530
 West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103 (702) 895-7612
 South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120 (702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Ephedra viridis</i>
Common Name	Green Ephedra
Type	Shrub
Exposure	Full Sun / Partial Sun
Width	up to 3 ft
Height	up to 3 ft
Region	High & Intermediate Desert 5
Water Use Category	Very Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV -VERY LOW WATER USE COEFFICIENT

Green Ephedra

Ephedra viridis

0.10

Green Ephedra

Ephedra viridis



height 3' width 3'

light full sun

water reqt. very low

foliage evergreen

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0161	0.010	
30	Apr	7.21	0.2403	0.0240	0.015	
31	May	9.18	0.2961	0.0296	0.018	
30	Jun	11.38	0.3793	0.0379	0.024	
31	Jul	11.62	0.3748	0.0375	0.023	
31	Aug	10.11	0.3261	0.0326	0.020	
30	Sep	8.16	0.2720	0.0272	0.017	
31	Oct	5.56	0.1794	0.0179	0.011	

Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.01	0.03	0.07	0.13	0.20	0.28
0.01	0.05	0.11	0.19	0.29	0.42
0.01	0.06	0.13	0.23	0.36	0.52
0.02	0.07	0.17	0.30	0.46	0.67
0.02	0.07	0.16	0.29	0.46	0.66
0.02	0.06	0.14	0.26	0.40	0.57
0.01	0.05	0.12	0.21	0.33	0.48
0.01	0.04	0.08	0.14	0.22	0.32

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





Botanical Name	<i>Eremophila maculata</i> 'Valentine'
Common Name	Valentine Bush
Type	Shrub
Exposure	Full Sun
Width	up to 5 ft
Height	up to 4 ft
Region	High and Intermediate Desert 5
Water Use Category	Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

WUCOLS IV - LOW WATER USE COEFFICIENT

Valentine Bush

Eremophila maculata 'Valentine'

0.20

Valentine Bush

Eremophila maculata 'Valentine'

height 4' width 5'

light full sun

water reqt. low

foliage evergreen



		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0322	0.020	
30	Apr	7.21	0.2403	0.0481	0.030	
31	May	9.18	0.2961	0.0592	0.037	
30	Jun	11.38	0.3793	0.0759	0.047	
31	Jul	11.62	0.3748	0.0750	0.047	
31	Aug	10.11	0.3261	0.0652	0.041	
30	Sep	8.16	0.2720	0.0544	0.034	
31	Oct	5.56	0.1794	0.0359	0.022	

Diameter of Canopy (in feet)					
1	2	3	4	5	6
0.8	3.14	7.06	12.6	20	28

GALLONS REQUIRED PER DAY BASED ON CANOPY AREA

0.02	0.06	0.14	0.25	0.39	0.57
0.02	0.09	0.21	0.38	0.59	0.85
0.03	0.12	0.26	0.46	0.72	1.04
0.04	0.15	0.33	0.59	0.93	1.34
0.04	0.15	0.33	0.59	0.92	1.32
0.03	0.13	0.29	0.51	0.80	1.15
0.03	0.11	0.24	0.43	0.67	0.96
0.02	0.07	0.16	0.28	0.44	0.63

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.





81

Botanical Name	<i>Eriogonum corymbosum</i> var. <i>nileseii</i>
Common Name	Las Vegas Buckwheat
Type	Shrub
Exposure	Full Sun
Width	up to 3 ft
Height	up to 3 ft
Region	High and Intermediate Desert 5
Water Use Category	Very Low

Water Use Requirement (gallons per day) - Las Vegas, NV

Based on Historical ETo - Las Vegas, NV

SNWA - VERY LOW WATER USE COEFFICIENT*

Las Vegas Buckwheat

0.10

Eriogonum corymbosum var. nilseii

*WUCOLS does not provide a coefficient for this plant

		Las Vegas	Las Vegas	Las Vegas	Las Vegas	
		ET _o	ET _o	Ornamental	Ornamental	
		Avg	Avg.	Req't	Req't	
		Monthly	daily	daily	daily	Canopy Area
				(inches)	gal/ft ²	
31	Mar	4.99	0.1610	0.0161	0.010	
30	Apr	7.21	0.2403	0.0240	0.015	
31	May	9.18	0.2961	0.0296	0.018	
30	Jun	11.38	0.3793	0.0379	0.024	
31	Jul	11.62	0.3748	0.0375	0.023	
31	Aug	10.11	0.3261	0.0326	0.020	
30	Sep	8.16	0.2720	0.0272	0.017	
31	Oct	5.56	0.1794	0.0179	0.011	

North Las Vegas - 3521 N. Rancho Dr - Las Vegas, NV 89130	(702) 839-9530
Las Vegas - 72 Spectrum Blvd - Las Vegas, NV 89101	(702) 459-9530
West Las Vegas - 4705 S. Valley View Blvd - Las Vegas, NV 89103	(702) 895-7612
South Las Vegas - 6330 Annie Oakley Dr. - Las Vegas, NV 89120	(702) 547-9530

Information contained in this watering guide is based on generally accepted plant water requirement calculations and trade practices. Ewing Irrigation, its subsidiaries and affiliates shall not be responsible or liable therefore if any problems, difficulties or injuries should arise from or in connection with the use or application of this information, or if there is any error herein, typographical or otherwise.

Las Vegas Buckwheat

Eriogonum corymbosum var. nilseii

height 3' width 3'

light full sun

water reqt. very low

foliage deciduous



Diameter of Canopy (in feet)						
1	2	3	4	5	6	
0.8	3.14	7.06	12.6	20	28	
GALLONS REQUIRED PER DAY BASED ON CANOPY AREA						
0.01	0.03	0.07	0.13	0.20	0.28	
0.01	0.05	0.11	0.19	0.29	0.42	
0.01	0.06	0.13	0.23	0.36	0.52	
0.02	0.07	0.17	0.30	0.46	0.67	
0.02	0.07	0.16	0.29	0.46	0.66	
0.02	0.06	0.14	0.26	0.40	0.57	
0.01	0.05	0.12	0.21	0.33	0.48	
0.01	0.04	0.08	0.14	0.22	0.32	

