

Water Calcs: Desert Hot Springs Landscape Design Project

Plan 1: Arid Design Option

ET Adjustment Factor: 0.5

Maximum Applied Annual Water Allowance (MAAWA)					
Landscape Type	ET	ETAF	Lands Area	Conversion	CCF
Conventional	93.9	0.5	1040	0.62	40.47
Recreational	93.9	0.82		0.62	0.00
		Total	1040		40.47

Estimated Annual Applied Water Use (EAAWU)						
Water Use Class	ET**	Plant Factor	Lands Area	Conversion	Irrig Eff.	CCF
Low - Drip						
Spring	18.99	0.2	1040	0.62	0.9	3.64
Summer	54.87	0.2	1040	0.62	0.9	10.51
Fall/Winter	15.86	0.2	1040	0.62	0.9	3.04
Mod. - Drip						
Spring	18.99	0.5	0	0.62	0.9	0.00
Summer	54.87	0.5	0	0.62	0.9	0.00
Fall/Winter	15.86	0.5	0	0.62	0.9	0.00
High - Drip						
Spring	18.99	0.8	0	0.62	0.9	0.00
Summer	54.87	0.8	0	0.62	0.9	0.00
Fall/Winter	15.86	0.8	0	0.62	0.9	0.00
Turf* - Spray						
Spring	18.99	0.7	0	0.62	0.75	0.00
Summer	54.87	0.7	0	0.62	0.75	0.00
Fall/Winter	15.86	0.7	0	0.62	0.75	0.00
		Total	1040			17.19

Analysis:

EAAWU < MAAWA

23.29 CCF

Monthly ET						
Inches	Season		Months		ET (in.)	
18.99	Spring		Feb, Mar, Apr		4.08, 6.35, 8.56	
54.87	Summer		May, Jun, Jul, Aug, Sept		10.98, 12.10, 12.45, 10.25, 9.09	
15.86	Fall/Winter		Oct, Nov, Dec, Jan		6.35, 3.90, 2.56, 3.05	

Landscaped Area	Percentage	Sq Ft
Drip - Shrubs & Trees	100.00%	1040
Spray - Turf	0.00%	0
Total	100.00%	1040

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Plan 2: Semi-Arid Design Option
ET Adjustment Factor: 0.5

Maximum Applied Annual Water Allowance (MAAWA)					
Landscape Type	ET	ETAF	Lands Area	Conversion	CCF
Conventional	93.9	0.5	1450	0.62	56.43
Recreational	93.9	0.82		0.62	0.00
		Total	1450		56.43

Estimated Annual Applied Water Use (EAAWU)						
Water Use Class	ET**	Plant Factor	Lands Area	Conversion	Irrig Eff.	CCF
Low - Drip						
Spring	18.99	0.2	450	0.62	0.9	1.57
Summer	54.87	0.2	450	0.62	0.9	4.55
Fall/Winter	15.86	0.2	450	0.62	0.9	1.31
Mod. - Drip						
Spring	18.99	0.5	1000	0.62	0.9	8.74
Summer	54.87	0.5	1000	0.62	0.9	25.27
Fall/Winter	15.86	0.5	1000	0.62	0.9	7.30
High - Drip						
Spring	18.99	0.8	0	0.62	0.9	0.00
Summer	54.87	0.8	0	0.62	0.9	0.00
Fall/Winter	15.86	0.8	0	0.62	0.9	0.00
Turf* - Spray						
Spring	18.99	0.7	0	0.62	0.75	0.00
Summer	54.87	0.7	0	0.62	0.75	0.00
Fall/Winter	15.86	0.7	0	0.62	0.75	0.00
		Total	1450			48.75

Analysis:

EAAWU < MAAWA

7.68 CCF

Monthly ET						
Inches	Season		Months		ET (in.)	
18.99	Spring		Feb, Mar, Apr		4.08, 6.35, 8.56	
54.87	Summer		May, Jun, Jul, Aug, Sept		10.98, 12.10, 12.45, 10.25, 9.09	
15.86	Fall/Winter		Oct, Nov, Dec, Jan		6.35, 3.90, 2.56, 3.05	

Landscaped Area	Percentage	Sq Ft
Drip - Shrubs & Trees	100.00%	1450
Spray - Turf	0.00%	0
Total	100.00%	1450

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Plan 3: Lush & Efficient Design Option

ET Adjustment Factor: 0.5

Maximum Applied Annual Water Allowance (MAAWA)					
Landscape Type	ET	ETAF	Lands Area	Conversion	CCF
Conventional	93.9	0.5	1040	0.62	40.47
Recreational	93.9	0.82		0.62	0.00
		Total	1040		40.47

Estimated Annual Applied Water Use (EAAWU)						
Water Use Class	ET**	Plant Factor	Lands Area	Conversion	Irrig Eff.	CCF
Low - Drip						
Spring	18.99	0.2	500	0.62	0.9	1.75
Summer	54.87	0.2	500	0.62	0.9	5.05
Fall/Winter	15.86	0.2	500	0.62	0.9	1.46
Mod. - Drip						
Spring	18.99	0.5	252	0.62	0.9	2.20
Summer	54.87	0.5	252	0.62	0.9	6.37
Fall/Winter	15.86	0.5	252	0.62	0.9	1.84
High - Drip						
Spring	18.99	0.8	0	0.62	0.9	0.00
Summer	54.87	0.8	0	0.62	0.9	0.00
Fall/Winter	15.86	0.8	0	0.62	0.9	0.00
Turf* - Spray						
Spring	18.99	0.7	288	0.62	0.75	4.23
Summer	54.87	0.7	288	0.62	0.75	12.23
Fall/Winter	15.86	0.7	288	0.62	0.75	3.53
		Total	1040			38.66

Analysis:

EAAWU < MAAWA

1.81 CCF

Monthly ET						
Inches	Season		Months		ET (in.)	
18.99	Spring		Feb, Mar, Apr		4.08, 6.35, 8.56	
54.87	Summer		May, Jun, Jul, Aug, Sept		10.98, 12.10, 12.45, 10.25, 9.09	
15.86	Fall/Winter		Oct, Nov, Dec, Jan		6.35, 3.90, 2.56, 3.05	

Landscaped Area	Percentage	Sq Ft
Drip - Shrubs & Trees	72.31%	752
Spray - Turf	27.69%	288
Total	100.00%	1040