

Estimates of water use by exempt wells under different scenarios (Nazy, 2005)

**Assumptions**

Water Duty 12 inches per irrigation season  
 Indoor Use 65 gpd/person  
 People/Home 2.1  
 Consumptive Use 10% of indoor use, 90% of outdoor use

123-Day Irrigation Season

Area (acres)	Size	Area (ft <sup>2</sup> )	Irrigation Requirement (feet)	Irrigation Water Duty	Irrigation Water Duty	Irrigation Water Duty	Irrigation requirement	Domestic Requirement	Total Requirement	Total Requirement	Total Requirement	Consumptive Use	Consumptive Use	Consumptive Use	Consumptive Use	Consumptive Use
							May 15-Sept. 15	Year-round	May 15-Sept. 15	Annual	Annual Average	May 15-Sept. 15	Sept. 16-May14	May 15-Sept. 15	Sept. 16-May14	Annual Average
							123 days	Gallons/day	Gallons/day	Gallons/year	Gallons/day	Gallons/day	242 days	123 days	242 days	Percent of Total
1/12	60.25' x 60.25'	3,630.00	1	3,630.00	27,154.29	0.083	220.77	136.5	357.27	76,976.79	210.90	212.34	13.65	59.43%	10.00%	38.22%
1/6	85.20' x 85.20'	7,260.00	1	7,260.00	54,308.57	0.167	441.53	136.5	578.03	104,131.07	285.29	411.03	13.65	71.11%	10.00%	51.72%
1/3	120.5' x 120.5'	14,520.00	1	14,520.00	108,617.15	0.333	883.07	136.5	1,019.57	158,439.65	434.08	808.41	13.65	79.29%	10.00%	64.84%
1/2	147.58' x 147.58'	21,780.00	1	21,780.00	162,925.72	0.500	1,324.60	136.5	1,461.10	212,748.22	582.87	1205.79	13.65	82.53%	10.00%	71.27%
1	208.71' x 208.71'	43,560.00	1	43,560.00	325,851.44	1.000	2,649.20	136.5	2,785.70	375,673.94	1029.24	2397.93	13.65	86.08%	10.00%	79.39%

100-Day Irrigation Season

Area (acres)	Size	Area (ft <sup>2</sup> )	Irrigation Requirement (feet)	Irrigation Water Duty	Irrigation Water Duty	Irrigation Water Duty	Irrigation requirement	Domestic Requirement	Total Requirement	Total Requirement	Total Requirement	Consumptive Use	Consumptive Use	Consumptive Use	Consumptive Use	Consumptive Use
							June 8-Sept. 15	Year-round	June 8-Sept. 15	Annual	Annual Average	June 8-Sept. 15	Sept. 16-May14	June 8-Sept. 15	Sept. 16-May14	Annual Average
							100 days	Gallons/day	Gallons/day	Gallons/year	Gallons/day	Gallons/day	265 days	100 days	265 days	Percent of Total
1/12	60.25' x 60.25'	3,630.00	1	3,630.00	27,154.29	0.083	271.54	136.5	408.04	76,976.79	210.90	258.04	13.65	63.24%	10.00%	38.22%
1/6	85.20' x 85.20'	7,260.00	1	7,260.00	54,308.57	0.167	543.09	136.5	679.59	104,131.07	285.29	502.43	13.65	73.93%	10.00%	51.72%
1/3	120.5' x 120.5'	14,520.00	1	14,520.00	108,617.15	0.333	1,086.17	136.5	1,222.67	158,439.65	434.08	991.20	13.65	81.07%	10.00%	64.84%
1/2	147.58' x 147.58'	21,780.00	1	21,780.00	162,925.72	0.500	1,629.26	136.5	1,765.76	212,748.22	582.87	1479.98	13.65	83.82%	10.00%	71.27%
1	208.71' x 208.71'	43,560.00	1	43,560.00	325,851.44	1.000	3,258.51	136.5	3,395.01	375,673.94	1029.24	2946.31	13.65	86.78%	10.00%	79.39%

**Assumptions**

Water Duty 16 inches per irrigation season  
 Indoor Use 65 gpd/person  
 People/Home 2.1  
 Consumptive Use 10% of indoor use, 90% of outdoor use

123-Day Irrigation Season

Area (acres)	Size	Area (ft <sup>2</sup> )	Irrigation Requirement (feet)	Irrigation Water Duty	Irrigation Water Duty	Irrigation Water Duty	Irrigation requirement	Domestic Requirement	Total Requirement	Total Requirement	Total Requirement	Consumptive Use	Consumptive Use	Consumptive Use	Consumptive Use	Consumptive Use
							May 15-Sept. 15	Year-round	May 15-Sept. 15	Annual	Annual Average	May 15-Sept. 15	Sept. 16-May14	May 15-Sept. 15	Sept. 16-May14	Annual Average
							123 days	Gallons/day	Gallons/day	Gallons/year	Gallons/day	Gallons/day	242 days	123 days	242 days	Percent of Total
1/12	60.25' x 60.25"	3,630.00	1.33	4,827.90	36,115.20	0.111	293.62	136.5	430.12	85,937.70	235.45	277.91	13.65	64.61%	10.00%	43.62%
1/6	85.20' x 85.20"	7,260.00	1.33	9,655.80	72,230.40	0.222	587.24	136.5	723.74	122,052.90	334.39	542.17	13.65	74.91%	10.00%	57.34%
1/3	120.5' x 120.5"	14,520.00	1.33	19,311.60	144,460.81	0.443	1,174.48	136.5	1,310.98	194,283.31	532.28	1070.68	13.65	81.67%	10.00%	69.48%
1/2	147.58' x 147.58"	21,780.00	1.33	28,967.40	216,691.21	0.665	1,761.72	136.5	1,898.22	266,513.71	730.17	1599.20	13.65	84.25%	10.00%	75.04%
1	208.71' x 208.71"	43,560.00	1.33	57,934.80	433,382.42	1.330	3,523.43	136.5	3,659.93	483,204.92	1323.85	3184.74	13.65	87.02%	10.00%	81.75%

100-Day Irrigation Season

Area (acres)	Size	Area (ft <sup>2</sup> )	Irrigation Requirement (feet)	Irrigation Water Duty	Irrigation Water Duty	Irrigation Water Duty	Irrigation requirement	Domestic Requirement	Total Requirement	Total Requirement	Total Requirement	Consumptive Use	Consumptive Use	Consumptive Use	Consumptive Use	Consumptive Use
							June 8-Sept. 15	Year-round	June 8-Sept. 15	Annual	Annual Average	June 8-Sept. 15	Sept. 16-May14	June 8-Sept. 15	Sept. 16-May14	Annual Average
							100 days	Gallons/day	Gallons/day	Gallons/year	Gallons/day	Gallons/day	265 days	100 days	265 days	Percent of Total
1/12	60.25' x 60.25"	3,630.00	1.33	4,827.90	36,115.20	0.111	361.15	136.5	497.65	85,937.70	235.45	338.69	13.65	68.06%	10.00%	43.62%
1/6	85.20' x 85.20"	7,260.00	1.33	9,655.80	72,230.40	0.222	723.30	136.5	858.80	122,052.90	334.39	663.72	13.65	77.28%	10.00%	57.34%
1/3	120.5' x 120.5"	14,520.00	1.33	19,311.60	144,460.81	0.443	1,444.61	136.5	1,581.11	194,283.31	532.28	1313.80	13.65	83.09%	10.00%	69.48%
1/2	147.58' x 147.58"	21,780.00	1.33	28,967.40	216,691.21	0.665	2,166.91	136.5	2,303.41	266,513.71	730.17	1963.87	13.65	85.26%	10.00%	75.04%
1	208.71' x 208.71"	43,560.00	1.33	57,934.80	433,382.42	1.330	4,333.82	136.5	4,470.32	483,204.92	1323.85	3914.09	13.65	87.56%	10.00%	81.75%