



Water Planning Estimator

Planning for an emergency involves a number of factors and personal preferences. The size of your family or building occupancy, recommended and desired water consumption, and use of water beyond drinking water all impact how much capacity needed in your Constant Water system. And don't forget your pet's water needs.

Emergency Drinking Water

The Department of Homeland Security recommends 1 gallon of emergency drinking water per person per day. The chart below allows you to estimate the emergency water supply you should consider for your family. The basic Constant Water system (one control unit and one system tank) will provide a family of 4 emergency drinking water for up to 10 days.

gallons	number of people														
days	1	2	3	4	5	6	7	8	9	10	15	20	50	100	
1	1	2	3	4	5	6	7	8	9	10	15	20	50	100	
2	2	4	6	8	10	12	14	16	18	20	30	40	100	200	
3	3	6	9	12	15	18	21	24	27	30	45	60	150	300	
4	4	8	12	16	20	24	28	32	36	40	60	80	200	400	
5	5	10	15	20	25	30	35	40	45	50	75	100	250	500	
6	6	12	18	24	30	36	42	48	54	60	90	120	300	600	
7	7	14	21	28	35	42	49	56	63	70	105	140	350	700	
8	8	16	24	32	40	48	56	64	72	80	120	160	400	800	
9	9	18	27	36	45	54	63	72	81	90	135	180	450	900	
10	10	20	30	40	50	60	70	80	90	100	150	200	500	1000	
11	11	22	33	44	55	66	77	88	99	110	165	220	550	1100	
12	12	24	36	48	60	72	84	96	108	120	180	240	600	1200	
13	13	26	39	52	65	78	91	104	117	130	195	260	650	1300	
14	14	28	42	56	70	84	98	112	126	140	210	280	700	1400	
15	15	30	45	60	75	90	105	120	135	150	225	300	750	1500	

Home Fixture Flow Rates

The plumbing industry has complied with federally established standards for flow rates of many home fixtures. Faucets, shower heads, and toilets have standard flow rates incorporated into their design. With these flow rates, you can better estimate the capacity you'll need in your Constant Water system. With insight into these flow rates, you can also better manage your water supply during an emergency.

Bathroom and Kitchen Faucets (gpm)	Shower Heads (gpm)	Toilets (gpf)
2.2	2.5	1994 and later = 1.6 1982-1993 = 3.5 Prior to 1982 = 5-7

gpm=gallons per minute gpf=gallons per flush

However, some homes may have plumbing fixtures that were installed well prior to the development of these standards. These fixtures may have much higher flow rates than newer fixtures. If you are unsure of the flow rates for the fixtures in your home, your plumbing professional can help you determine their rates and estimate your Constant Water system requirements.