

Division of Drinking Water Water System Capacity Calculation Sheet (revised June 23, 2011)

Enter the green cells only.

System Name: Copycat Company

System Number: 22222

1. Indoor Water Use

Convert "Number of other connections" (Cell E9) to ERCs here. (ERCs of other connection = peak day demand of other connections / 800 gal per day)

Number of residential connections ----- 0

Number of other connections --- 1 ERCs of other connections 20.0 (Example: water use of 2 factory is equivalent to 30 homes.)

Enter number of non-residential connections (e.g., 2 factory connections).

Total Equivalent Residential Connections (ERCs) 20

MINIMUM REQUIREMENTS FOR INDOOR WATER USE					
Source		Storage		Water Rights	
Per ERC (gpd/ERC)	Total (gpm)	Per ERC (gallons/ERC)	Total (gallons)	Per ERC (ac-ft/yr)	Total (ac-ft/yr)
800	11.1	400	8,000	0.45	9.00

2. Outdoor Water Use

Enter estimated irrigated acre

Is the drinking water used for outdoor irrigation? Yes No

Residential ERCs using drinking water for irrigation ----- >>> 0

Percentage of Residential ERCs using DW for irrigation ----- >>> #DIV/0!

Average irrigated acreage per residential connection ----- >>> 0.00

Total irrigated acreage of other connections. ----- >>> 5.00

(Enter notes here. Check whether and what % of outdoor irrigation is supplied by drinking water.)

Enter total irrigated acres of other connections here.

Irrigation zone 2

Select Irrigated Zone # from the list (see "Irrigation Demands & Map" tab on the bottom of the screen).

MINIMUM REQUIREMENTS FOR OUTDOOR WATER USE					
Source		Storage		Water Rights	
Per ERC (gpd/ERC)	Total (gpm)	Per ERC (gallons/ERC)	Total (gallons)	Per ERC (ac-ft/yr)	Total (ac-ft/yr)
0	14.0	0	9,365	0.00	6.15

3. Fire Flow Requirement

Enter fire flow in gpm.

Does the water system provide fire protection? Yes No

Maximum fire suppression **demand** for water system or pressure zone (gpm) ----- >>> 500

Maximum fire suppression **duration** for water system or pressure zone (hours) ----- >>> 1

Required Fire Suppression Storage (gallons) ----- >>> 30,000

(Enter notes here. Verify minimum fire flow and duration with local fire authority.)

Enter duration in hours.

Total Water System Requirements (= indoor use + outdoor use + fire flow demand)

MINIMUM REQUIREMENTS FOR WATER SYSTEM					
Source		Storage		Water Rights	
Per ERC (gpd/ERC)	Total (gpm)	Per ERC (gallons/ERC)	Total (gallons)	Per ERC (ac-ft/yr)	Total (ac-ft/yr)
800	25.1	400	47,365	0.45	15.15

Does this system have adequate source capacity per R309-510-7?

IPS points may be assessed for lacking adequate source capacity to meet peak day and/or average yearly flow requirements.

Existing Sources:	25.0	gpm	Linked to Cell I99 below.
Required Source Capacity:	25.1	gpm	Linked to Cell C51 above.
% of Req'd Capacity:	99.6%		Negative number means (1) additional source capacity is needed, and (2) IPS points should be assessed.
Difference:	0	gpm	

Does this system have adequate storage capacity per R309-510-8?

IPS points may be assessed for lacking adequate storage capacity.

Existing Storage:	200,000	gal	Linked to Cell I118 below.
Required Storage Capacity:	47,365	gal	Linked to Cell E51 above.
% of Req'd Capacity:	422.3%		Negative number means (1) additional storage volume is needed, and (2) IPS points should be assessed.
Difference:	152,635	gal	

Non-Community Water Systems, ERCs for Indoor Water Use (*See R309-510, Tables 510-1, 2, and 4, for other facility type calc.)							
Facility Type	MINIMUM REQUIREMENTS FOR INDOOR USE		ERC/site or pad	# of Sites or pads	ERCs		
	Source	Storage					
	GPD/person*	Calculated GPD/site or pad	GPD/person	Gallon/site or pad			
Modern Recreation Camp	60	0	30	0	0.00	0	0.0
Semi-Developed Camp w/ flush toilets	20	0	10	0	0.00	0	0.0
Semi-Developed Camp w/o flush toilets	5	0	2.5	0	0.00	0	0.0
RV Park	N/A	100	N/A	50	0.13	0	0.0
*Number of people per camp site	0	If applicable, enter number of people per camp site here.					
	Source (GPD/vehicle)	Storage (Gal./vehicle)	ERC/1000 vehicles served	# of Vehicles served	ERCs		
Roadway Rest Stop w/ flushometer valves	7	3.5	8.75	0	0.00		

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Equivalent Residential Connection Calc.	
Existing Residential Connections	0
Number of Obligated Future ERCs	0
Total Projected Number of ERCs	0

Linked to Cell I8 above.

Source (in gallons per minute)		
WS001	Company Well	25
Total Source Capacity		25
Max. ERC allowed (for indoor use only)		45

Storage (in gallons)		
ST001	South Tank	100,000
ST002	East Tank	100,000
Total Storage Capacity		200,000

If you need to calculate projected future demand (including existing & future connections), insert this number to Cell I8 "Number of residential connection."

(Enter notes here if needed.)

Diaphragm or air pressure tanks shall not be considered effective storage volume for community systems or NTNC with significant demand.