

Worksheets to determine economic feasibility of installing second meter

The decision to install a second water meter is a decision that each homeowner must make for themselves. The Southington Sewer Department provides these worksheets for illustrative purposes only.

Calculation to determine if it is economically feasible to install an irrigation meter

Use last year's water bill to determine quarterly usage.

1	Sum of the two highest quarters (100CF) =	
2	Sum of the two lowest quarters (100CF) =	
3	Approx. Water used to Irrigate (100CF) = Subtract line 2 from line 1	
4	Approximate Annual Savings Multiply line 3 by \$3.00	
5	Time for return on investment: divide the estimated installation costs by line 4.	

Example: Assume your last year's water bill was as follows:

1st Quarter Reading	29	Winter
2nd Quarter Reading	98	Spring
3rd Quarter Reading	65	Summer
4th Quarter Reading	27	Fall

1	Sum of the two highest quarters (100CF) =	163	98+65=163
2	Sum of the two lowest quarters (100CF) =	56	29+27=56
3	Approx. Water used to Irrigate (100CF) = Subtract line 2 from line 1	107	163-56=107
4	Estimated Annual Savings with irrigation meter installed. Multiply line 3 by \$3.00	\$321	107x\$3.00=\$321
5	It is estimated that the installation price of a second meter will be in the range of \$500- \$600. Divide the estimated installation price by line 4 to determine the number of years for a Return on Investment (ROI)	1.7 yr.	\$550 / \$321 = 1.7 Less than 2 year ROI, Install second meter

Calculation to determine if it is economically feasible to install a well meter

1	Number of residents in your house	
2	According to the US Dept. of the Interior the typical person uses between 80 and 100 gallons of water per day. Estimate your water usage per person. Enter a number between 80 and 100.	
3	Calculate your annual water use: multiply line 1 x line 2 x 365 days	
4	To convert Gallon/year to 100CF/year divide line 3 by 748 gallons per 100CF	
5	Calculate your annual water bill after installing a meter. Multiply line 4 by \$3.00 and add \$180	
6	If line 5 is greater than \$400 then you will not save money by installing a water meter	

Example:

2 residents using an average of 80 gallons of water per day.

1	Number of residents in your house	2	# of residents
2	According to the US Dept. of the Interior the typical person uses between 80 and 100 gallons of water per day. Estimate your water usage per person. Enter a number between 80 and 100.	80	Use low average
3	Calculate your annual water use: multiply line 1 x line 2 x 365 days	58400	2 x 80 gpd x 365 days
4	To convert Gallon/year to 100CF/year, divide line 3 by 748 gallons per 100CF	78.1	(58400 gal/yr) / 748
5	Calculate your annual water bill after installing a meter. Multiply line 4 by \$3.00 and add \$180	\$414.22	78.1 x \$3.00 + \$180
6	If line 5 is greater than \$400 then you will not save money by installing a water meter		Not feasible