

# CITY OF SUSANVILLE PROPOSED WATER SERVICE RATE CHANGE SAMPLE CALCULATIONS

## BASE RATE

Base Rate	
Meter Size	Cost
5/8" X 3/4"	\$23.65
1"	\$31.93
1.5"	\$41.60
2"	\$54.11
3"	\$81.37
4"	\$124.84
6"	\$217.27
8"	\$289.69
10"	\$362.10

The most common residential meter is the 5/8" meter. The most common commercial meter is the 2" meter.

## QUANTITY RATE

NON IRRIGATION SEASON – OCTOBER - MARCH	\$.0113 / CUBIC FOOT
IRRIGATION SEASON – APRIL - SEPTEMBER	\$.0163 / CUBIC FOOT

To determine quantity rate, first find the total number of cubic feet used on your monthly water bill. Next subtract 300 cubic feet (300 cubic feet are included in the base rate). Multiply the remaining cubic feet by the cost for the appropriate irrigation season, either \$.0113 or \$.0163. This is your quantity rate.

### Example Quantity Rate Calculation

A family used 1500 cubic feet (CF) of water in the month of May. To calculate the quantity rate portion of their bill they would perform the following calculation.

$$3500 \text{ CF} - 300 \text{ CF} = 3200 \text{ CF}$$

$$3200 \text{ CF} \times \$0.0163 / \text{CF} = \$52.16$$

## INFRASTRUCTURE SURCHARGE

Infrastructure Surcharge	
Meter Size	Cost
5/8" X 3/4"	\$15.00
1"	\$15.00
1.5"	\$20.00
2"	\$25.00
3"	\$35.00
4"	\$45.00
6"	\$65.00
8"	\$85.00
10"	\$105.00

**TOTAL MONTHLY BILL CALCULATION**

The family above has a standard residential meter (5/8 X 3/4) and used 1500 CF of water in May. To calculate their monthly bill they would perform the following calculation.

$$\begin{array}{rccccccc}
 \underline{\$23.65} & & + & & \underline{\$52.16} & & + & & \underline{\$15.00} & & = & & \underline{\$90.81} \\
 \text{BASE RATE} & & & & \text{QUANTITY RATE} & & & & \text{INFRASTRUCTURE SURCHARGE} & & & & \text{MONTHLY BILL}
 \end{array}$$

**DROUGHT SURCHARGE:**

During times of water shortage or state mandated water conservation the following drought surcharge will be added to the quantity rate. Stage I, II, and III are defined in the City’s Water Shortage Contingency Plan.

Drought Stage	Cost per cubic foot (CF)
Stage I	\$.0025
Stage II	\$.0041
Stage III	\$.0066

**ADDITIONAL EXAMPLES**

- 1) A commercial property with a 2” water meter uses 10,000 CF of water in the month of August.

BASE RATE = \$54.11  
 QUANTITY RATE = 10,000 CF – 300 CF = 9700 CF  
 9700 CF X \$.0163/CF = \$ 158.11

$$\begin{array}{rccccccc}
 \underline{\$54.11} & & + & & \underline{\$158.11} & & + & & \underline{\$25.00} & & = & & \underline{\$237.22} \\
 \text{BASE RATE} & & & & \text{QUANTITY RATE} & & & & \text{INFRASTRUCTURE SURCHARGE} & & & & \text{MONTHLY BILL}
 \end{array}$$

2) A residential property uses 2500 CF of water in July at a time that Stage II of the City's Water Shortage Contingency Plan is in effect.

BASE RATE = \$23.65

QUANTITY RATE = 2500 CF – 300 CF = 2200 CF

2200 CF X (\$0.0163 + \$0.0041)/CF = \$44.88

$$\begin{array}{ccccccc} \frac{\$23.65}{\text{BASE RATE}} & + & \frac{\$44.88}{\text{QUANTITY RATE}} & + & \frac{\$15.00}{\text{INFRASTRUCTURE SURCHARGE}} & = & \frac{\$128.41}{\text{MONTHLY BILL}} \end{array}$$