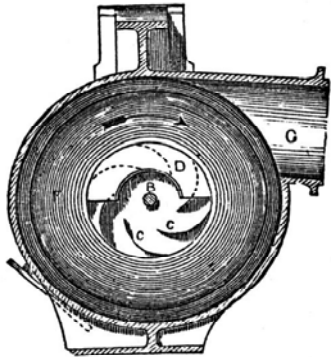


B2.0 Pump and Energy Calculations and Efficiencies



[B2.1 Well Theoretical Operation & Performance Design Model](#)

[B2.2 Well Efficiency and Performance Analysis](#)

[B2.3 Pump or Well "Wire to Water" Efficiency Tests](#)

[B2.40 ENERGY LOGS:](#)

[B2.41 Energy Logs and Efficiencies of Pumps and Plants 1](#)

[B2.42 Energy Logs and Efficiencies of Pumps and Plants 2](#)

[B2.43 Energy Logs and Efficiencies of Pumps and Plants 3](#)

[B2.5 Well Pump Calculations and Model](#)

[B2.6 Standard Pump Calculations and Model \(with Suction Head\)](#)

[B2.7 Pump Curve and Efficiency Modeling](#)

[B2.8 License Agreement](#)

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RATE STRUCTURE and STATISTICS:	
Total Annual Revenue per Customer:	1,393.25
Average per Month per Customer:	116.10
Peak Month Fee per Customer:	263.50
Rate Peaking Factor:	2.27
Base Rate to Peak Month Factor:	4.79
Total Base Rate Revenue per Customer:	660.00
Total Overage Rate Revenue per Customer:	733.25
Annual Rate as a Percent of Median Household Income:	2.53%
Total Revenue for this Type of Customer:	639,502
Total Base Revenue for this Type or Area of Cust:	302,940
Total Overage Revenue for this Type or Area of Cust:	336,562
Potential Revenue Lost from Non-Read Meter Months:	96,390
Average Revenue per 1,000 Gallons:	4.98
Average Revenue per Acre-Foot:	1,621
Base Gallons:	60,000
Base Revenue per 1,000 Gallons:	11.00
Overage Gallons:	158,750
Overage Revenue per 1,000 Gallons:	4.62

USAGE or DEMAND STRUCTURE:	Single Unit	All Units
Gallons per Year:	280,000	128,520,000
Ac-Ft per Year (AYD):	0.86	394
Peak Demand Gallons per Day (PDD):	1,524	699,605
Average Demand Gallons per Day (ADD):	767	352,110
PDD - gpm:	1.06	486
ADD - gpm:	0.53	245
Typical Peak Hour Demand (PHD) gpm:	1.33	611
Typical Peak Instantaneous Demand (PID) gpm:	2.66	1,223
Peaking Factor:	2.03	2.03
Average Winter Non-Read Use per Month (gallons):	13,750	6,311,250
Average Winter Non-Read Use per Year (gallons):	96,250	44,178,750
Estimated Indoor Use (gallons):	147,000	67,473,000
Estimated Outdoor Use (gallons):	133,000	61,047,000

C³ (Cubic Conservation Curve) or Polynomial Rate: $Y = -3.23058E-13 X^3 + 6.14032E-08 X^2 + 0.002395935 X + 55.00$

R²: 0.99968692
 ROOT: 226174.756

