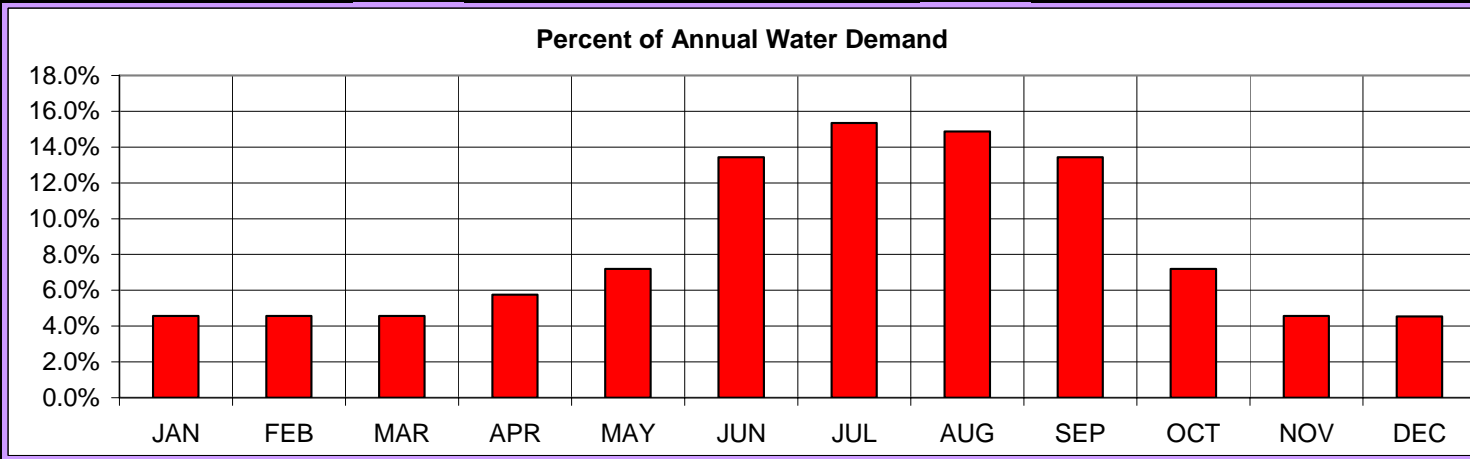


## A12.0 System or User Profile and Demand Curve

|                                                   |                                                 |                                                     |
|---------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|
| System or Source: <b>[system or source name]</b>  | Peak Month: <b>July</b>                         | Minimum to Peak Multiplier: <b>3.38</b>             |
| Demand or Sources (GPM): <b>100</b>               | Calc. Monthly Peaking Factor (pfC): <b>1.84</b> | Ac-Ft to GPM Multiplier: <b>1.42</b>                |
| Maximum Month Duty Cycle (0.0 - 1.0): <b>0.80</b> | Continuous Ac-Ft @ Duty Cycle: <b>129</b>       | System Wide Mean Peaking Factor (pfM): <b>2.000</b> |
| Annual Continuous Ave. Acre-Feet: <b>161</b>      | Effective Annual Operational Yield: <b>70</b>   | Ac-Ft Demand Factor (df): <b>0.919</b>              |

### Pre-set Peaking Factors:

- Golf C.
- 3.0 X
- 2.66 X
- 2.33 X
- 2.0 X
- 1.66 X
- 1.33 X
- 1.0 X



### Custom and Actual Factors:

- Chart Custom (Below) Values
- Chart Real Supply Values
- Chart Real Demand Values

|                             |       |       |       |       |       |       |        |       |       |       |       |       |             |
|-----------------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------------|
| Operational Duty Cycle:     | 0.24  | 0.24  | 0.24  | 0.30  | 0.37  | 0.70  | 0.80   | 0.77  | 0.70  | 0.37  | 0.24  | 0.24  | 0.44        |
| Effective Average GPM:      | 24    | 24    | 24    | 30    | 37    | 70    | 80     | 77    | 70    | 37    | 24    | 24    | 44          |
| Acre-Feet per Month:        | 3     | 3     | 3     | 4     | 5     | 9     | 11     | 11    | 9     | 5     | 3     | 3     | 70          |
| Monthly % of Peak Flow:     | 29.7% | 29.7% | 29.7% | 37.5% | 46.8% | 87.5% | 100.0% | 96.9% | 87.5% | 46.8% | 29.7% | 29.6% |             |
| Mo. % of Annual Demand:     | 4.6%  | 4.6%  | 4.6%  | 5.8%  | 7.2%  | 13.4% | 15.4%  | 14.9% | 13.4% | 7.2%  | 4.6%  | 4.5%  | 100.0%      |
| Demand MONTHS:              | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   | OCT   | NOV   | DEC   | TOT. / AVE. |
| Monthly Demand Adjustments: | UP    | ▲     | ▲     | ▲     | ▲     | ▲     | ▲      | ▲     | ▲     | ▲     | ▲     | ▲     | UP          |
|                             | DOWN  | ▼     | ▼     | ▼     | ▼     | ▼     | ▼      | ▼     | ▼     | ▼     | ▼     | ▼     | DOWN        |
| Custom Profile Mo. %'s:     | 4.6%  | 4.6%  | 4.6%  | 5.8%  | 7.2%  | 13.4% | 15.4%  | 14.9% | 13.4% | 7.2%  | 4.6%  | 4.5%  | 100.0%      |

|                         |       |       |       |       |        |        |        |        |        |        |        |       |           |
|-------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-----------|
| Cust. Demand Calculator | JAN   | FEB   | MAR   | APR   | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC   | Total/pfC |
| Monthly Meter Readings: | 8,927 | 5,920 | 8,117 | 7,948 | 11,273 | 25,472 | 32,520 | 25,765 | 25,680 | 16,325 | 11,055 | 7,425 | 186,427   |
| Mo.% of Annual Demand:  | 4.79% | 3.18% | 4.35% | 4.26% | 6.05%  | 13.66% | 17.44% | 13.82% | 13.77% | 8.76%  | 5.93%  | 3.98% | 2.09      |

NOTE: The peaking factor of a system, a user or a source of water is a very important value to know and model. It tells the supplier the difference or extent of a peak month or day demand (PDD), as related to an average day demand (ADD) calculated typically over a year. By knowing the peaking factor and related annual profile of a system, a source can be better provided to meet the demands of the system. Since a source can only meet a peak day demand (usually over a peak month), its annual capacity is determined by a very short period of time - in which the source will be running at possibly 100 percent of the time at the peak period. This would equate to a duty cycle of 1.0 or less (1.0 being 100%). Other months of the year, the source would run proportionally less, as can be viewed in this model.