Water System Capacity Calculation Scenario 1 — **Fable Haven Town**

PWS Type:  Community, NTNC, or TNC? _Community_____

## 1.  Indoor Water Use
Number of Residential Connections = 600

Number of other connections = 3 (peak day demand 32,000 gallons, 4,000 gallons, and 24,000 gallons each.)
=> Total peak day demand = _60,000_ gallons per day = _75_ equivalent residential connections (ERCs)
        60,000 gpd / 800 gpd per ERC => 75 ERCs

## 2.  Outdoor Water Use
Located in Weber County near Huntsville =>  Map Zone _3_

40 % of residential connections are connected to the secondary irrigation system.
=> _60_% of residential connections uses drinking water system for outdoor irrigation.
=> _360_ residential connections uses drinking water system for outdoor irrigation.
        600 connections x 60% = 360 connections

Typically residential lot size has approximately 0.05 acres of irrigated area.

Town Park has 10 acres of irrigated area. Three Fable Haven schools have a total of 20 acres of irrigated area.  Town cemetery has 5 acres of irrigated area.  => Total irrigated acreage of other connections = _35_ acres
        10 + 20 + 5 = 35 acres total

## 3.  Fire Flow Requirements
Required fire flow = 1,500 gpm & duration = 2 hours
Local fire authority name _____        Contact Info _____

## 4.  Existing source capacity = 560 gpm

## 5.  Existing storage capacity = 520,000 gallons