

Town of Purcellville
Weekly Water Demand Report
 01/11/2016- 01/17/2016

Notes:

Repairs were conducted on Marsh Well on 1/11/2016 through 1/12/2016.

| Day | Date | Main St. Complex | Forbes | Cornwell | Hirst | Mtn View | Marsh Well | Total Wells Production | Water Plant | TOTAL Production | Jefferies Well | Jefferies % of WTP | In-Service Capacity* |
|---------------------|------|------------------|----------------|----------------|----------|----------------|----------------|------------------------|------------------|------------------|----------------|--------------------|----------------------|
| Mon | 1/11 | 121,800 | 32,664 | 62,916 | 0 | 44,700 | 20,300 | 282,380 | 279,000 | 561,380 | 0 | 0.0% | 66.6% |
| Tue | 1/12 | 81,000 | 27,783 | 51,338 | 0 | 38,000 | 0 | 198,121 | 299,000 | 497,121 | 0 | 0.0% | 59.0% |
| Wed | 1/13 | 114,100 | 36,207 | 66,278 | 0 | 38,700 | 57,900 | 313,185 | 270,700 | 583,885 | 0 | 0.0% | 69.3% |
| Thu | 1/14 | 93,500 | 31,270 | 53,653 | 0 | 22,700 | 53,600 | 254,723 | 209,600 | 464,323 | 0 | 0.0% | 55.1% |
| Fri | 1/15 | 111,000 | 36,970 | 67,151 | 0 | 38,600 | 59,500 | 313,221 | 225,700 | 538,921 | 0 | 0.0% | 63.9% |
| Sat | 1/16 | 111,700 | 40,364 | 71,860 | 0 | 0 | 75,100 | 299,024 | 161,000 | 460,024 | 0 | 0.0% | 54.6% |
| Sun | 1/17 | 103,600 | 38,116 | 64,533 | 0 | 0 | 75,900 | 282,149 | 189,800 | 471,949 | 0 | 0.0% | 56.0% |
| Weekly Total | | 736,700 | 243,374 | 437,729 | 0 | 182,700 | 342,300 | 1,942,803 | 1,634,800 | 3,577,603 | 0 | | |
| Daily Avg's | | 105,243 | 34,768 | 62,533 | 0 | 26,100 | 48,900 | 277,543 | 233,543 | 511,086 | 0 | 0.0% | 60.6% |
| Weekly Max's | | 121,800 | 40,364 | 71,860 | 0 | 44,700 | 75,900 | 313,221 | 299,000 | 583,885 | 0 | 0.0% | 69.3% |

| | Wells | Reservoir ONLY | WTP Total | Wells + WTP | Gallons in Reservoir (As of Sunday) |
|------------------------------|----------------|----------------|----------------|----------------|-------------------------------------|
| Daily Average Usages: | 277,543 | 233,543 | 233,543 | 511,086 | 30,850,727 |

| Day | Date | Front Lake (5.3' = Full) | Back Lake (5.0' = Full) | Rainfall (Inches) |
|---------------------|------|--------------------------|-------------------------|-------------------|
| Mon | 1/11 | 5.39 | 5.14 | |
| Tue | 1/12 | 5.31 | 5.20 | |
| Wed | 1/13 | 5.30 | 5.20 | |
| Thu | 1/14 | 5.20 | 5.20 | |
| Fri | 1/15 | 5.25 | 5.20 | |
| Sat | 1/16 | 5.30 | 5.21 | 0.45 |
| Sun | 1/17 | 5.29 | 5.26 | |
| Weekly Total | | | | 0.45 |

Days of Water Storage in Reservoir

Based on Current Daily Average WTP Production **132.10**

Based on Current Daily Average WTP Production Using Jefferies **132.10**

Based on Current (Permitted) Maximum Reservoir Safe Yield **102.84**

| Unusual Usage | |
|----------------------|---------------------------------------|
| Date | |
| 1/11 | 1,600 Filling Mayfair water line |
| 1/12 | |
| 1/13 | |
| 1/14 | |
| 1/15 | |
| 1/16 | |
| 1/17 | |
| Total | 1,600 |