

Town of Purcellville  
**Weekly Water Demand Report**  
 06/5/2017- 06/11/2017

**Notes:**

Flushed the raw water line from 8:30 p.m. June 6th through 3:35 a.m. June 7, 2017.

| 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                 | 6/5  | 113,900          | 29,985         | 60,858         | 0        | 30,000         | 53,400         | 288,143                | 312,200          | 600,343          | 0              | 0.0%               | 70.3%               |
| Tue                 | 6/6  | 116,800          | 29,688         | 60,164         | 0        | 33,400         | 44,300         | 284,352                | 306,300          | 590,652          | 0              | 0.0%               | 69.2%               |
| Wed                 | 6/7  | 118,300          | 29,201         | 59,037         | 0        | 31,600         | 55,000         | 293,138                | 242,500          | 535,638          | 0              | 0.0%               | 62.7%               |
| Thu                 | 6/8  | 116,100          | 28,529         | 58,891         | 0        | 31,400         | 53,400         | 288,320                | 284,400          | 572,720          | 0              | 0.0%               | 67.1%               |
| Fri                 | 6/9  | 115,800          | 34,195         | 66,815         | 0        | 33,000         | 53,500         | 303,310                | 295,000          | 598,310          | 0              | 0.0%               | 70.1%               |
| Sat                 | 6/10 | 117,100          | 35,242         | 67,525         | 0        | 30,300         | 70,000         | 320,167                | 243,600          | 563,767          | 0              | 0.0%               | 66.0%               |
| Sun                 | 6/11 | 114,000          | 31,776         | 60,525         | 0        | 27,700         | 79,300         | 313,301                | 255,000          | 568,301          | 0              | 0.0%               | 66.5%               |
| <b>Weekly Total</b> |      | <b>812,000</b>   | <b>218,616</b> | <b>433,815</b> | <b>0</b> | <b>217,400</b> | <b>408,900</b> | <b>2,090,731</b>       | <b>1,939,000</b> | <b>4,029,731</b> | <b>0</b>       |                    |                     |
| <b>Daily Avg's</b>  |      | <b>116,000</b>   | <b>31,231</b>  | <b>61,974</b>  | <b>0</b> | <b>31,057</b>  | <b>58,414</b>  | <b>298,676</b>         | <b>277,000</b>   | <b>575,676</b>   | <b>0</b>       | <b>0.0%</b>        | <b>67.4%</b>        |
| <b>Weekly Max's</b> |      | <b>118,300</b>   | <b>35,242</b>  | <b>67,525</b>  | <b>0</b> | <b>33,400</b>  | <b>79,300</b>  | <b>320,167</b>         | <b>312,200</b>   | <b>600,343</b>   | <b>0</b>       | <b>0.0%</b>        | <b>70.3%</b>        |

|                              | Wells          | Reservoir ONLY | WTP Total      | Wells + WTP    | Gallons in Reservoir (As of Sunday) |
|------------------------------|----------------|----------------|----------------|----------------|-------------------------------------|
| <b>Daily Average Usages:</b> | <b>298,676</b> | <b>277,000</b> | <b>277,000</b> | <b>575,676</b> | <b>30,844,008</b>                   |

| Day                 | Date | Front Lake (5.3' = Full) | Back Lake (5.0' = Full) | Rainfall (Inches) |
|---------------------|------|--------------------------|-------------------------|-------------------|
| Mon                 | 6/5  | 5.54                     | 5.10                    |                   |
| Tue                 | 6/6  | 5.50                     | 5.10                    |                   |
| Wed                 | 6/7  | 5.46                     | 5.08                    |                   |
| Thu                 | 6/8  | 5.50                     | 5.10                    | 0.22              |
| Fri                 | 6/9  | 5.52                     | 5.00                    |                   |
| Sat                 | 6/10 | 5.51                     | 4.90                    |                   |
| Sun                 | 6/11 | 5.50                     | 4.76                    |                   |
| <b>Weekly Total</b> |      |                          |                         | <b>0.22</b>       |

**Days of Water Storage in Reservoir**

**Based on Current Daily Average WTP Production**      **111.35**

**Based on Current Daily Average WTP Production Using Jefferies**      **111.35**

**Based on Current (Permitted) Maximum Reservoir Safe Yield**      **102.81**

| <b>Bulk Water Usage</b> |                         |
|-------------------------|-------------------------|
| Date                    |                         |
| 6/5                     | 4,700 Bulk Water Sales  |
| 6/6                     | 25,600 Bulk Water Sales |
| 6/7                     | 4,200 Bulk Water Sales  |
| 6/8                     | 27,800 Bulk Water Sales |
| 6/9                     |                         |
| 6/10                    |                         |
| 6/11                    |                         |
| <b>Total</b>            | <b>62,300</b>           |

Exceeds safe yield or permitted capacity