

## Northern Delaware Drought Advisory Guidelines

Reported by the Drought Advisory Guidelines Subcommittee (DAGS), which is composed of the Delaware Department of Natural Resources and Environmental Control, Delaware Geological Survey, and University of Delaware Water Resources Agency with input from the water purveyors and representatives from the landscaping industry. These drought operating guidelines are designed to provide guidance to the Delaware Water Supply Coordinating Council (WSCC) and the Governor's Drought Advisory Committee (GDAC). Responsibility for providing technical guidance for a move up to or down from Drought Watch is with the WSCC. Responsibility for providing technical guidance for a move up to or down from Drought Warning or Emergency is with the GDAC. Final declaration of drought advisories rests with the Governor.

| Indicators   | Drought Watch<br>Voluntary Conservation                             | Drought Warning<br>Voluntary Conservation                   | Drought Emergency<br>Mandatory Restrictions      | Status<br>Aug 31, 2019                                    |
|--|---|---|--|---|
| <b>Precipitation</b><br>Wilmington Arprt/Porter Rsvr<br>12-month | -6.00" to -8.99"  | -9.00" to -11.99"   | >-12.00"   | +15.06"   |
| <b>Precipitation</b><br>Wilmington Arprt/Porter Rsvr<br>6-month  | -3.00" to -4.50"  | -4.50" to- 6.00"  | >-6.00"  | +1.79"  |
| <b>Brandywine Creek</b><br>(30-day moving avg)                   | 85 mgd  | 70 mgd  | 48 mgd   | 210 mgd   |
| <b>White Clay Creek - Stanton</b><br>(30-day moving avg)         | 42 mgd  | 37 mgd  | 31 mgd   | 69 mgd  |
| <b>White Clay Creek - Newark</b><br>(30-day moving avg)          | 19 mgd  | 16 mgd  | 13 mgd   | 30 mgd  |
| <b>Well Db24-18</b>  | 14 - 14.99 (fbls)   | 15 - 15.99 (fbls)   | 16 (fbls)  | 10.0 (fbls)<br>(above normal)                             |
| <b>Water Conditions Index</b>                                    | 5.0-4.0   | 3.99-3.00   | <3.00  | 8.85  |
| <b>Chlorides</b>   | WCC ≤ 37 mgd for<br>5 consecutive days<br>at SUEZ Stanton<br>Intake | Cl > 250 ppm for 3 days<br>at Christina River at<br>Newport | Cl > 250 ppm for 3 days<br>at UWD Stanton Intake | 89.04 ppm   |
| <b>Hoopes Reservoir</b><br>(City of Wilmington)                  | -10 ft<br>(68% capacity)  | -12 ft<br>(64% capacity)                                    | -15 ft<br>(57% capacity)                         | -3.5ft<br>(5/8/2019)                                      |
| <b>Newark Reservoir</b>  | - 10 ft<br>(70% capacity)   | -17 ft<br>(52% capacity)                                    | -27 ft<br>(28% capacity)                         | -1.0 ft<br>(5/8/2019)                                     |
| <b>Monitored</b>   |   |   |  |   |
| <b>Aquifer Storage and Recovery</b>                              | Monitor Status  | Monitor Status  | Monitor Status                                   | SUEZ: 16.5 mg<br>(5/8/2019)<br>AWC: 55.9 mg<br>(5/5/2019) |
| <b>Octoraro Reservoir</b><br>(Chester Water Authority)           | Monitor Status  | Monitor Status  | Monitor Status                                   |   |

|  |                |                |                |  |
|--|----------------|----------------|----------------|--|
| <b>Marsh Creek Reservoir</b>                     | Monitor Status | Monitor Status | Monitor Status |  |
| <b>Chlorides on the Delaware River 7/29/2019</b> | Monitor Status | Monitor Status | Monitor Status | Normal RM: 76<br>Current RM: 72                              |
| <b>DRBC Lower Basin Drought Criteria</b>         | Monitor Status | Monitor Status | Monitor Status |  |
| <b>NYC DRB Reservoirs (DRBC 7/29/2019)</b>       | Monitor Status | Monitor Status | Monitor Status | Storage 198.1 bg<br>or 53.6 bg <b>above</b><br>drought watch |

fbls = feet below land surface  
 mg = million gallons  
 mgd = million gallons per day  
 RM = River Mile  
 bg = billion gallons

Delaware Geological Survey:  
<http://www.dgs.udel.edu>

U.S. Geological Survey Streamflows:  
<http://waterdata.usgs.gov/de/nwis/current/?type=flow>

Delaware River Basin Commission:  
<http://www.state.nj.us/drbc>

Delaware Environmental Observing System  
<http://www.deos.udel.edu>