

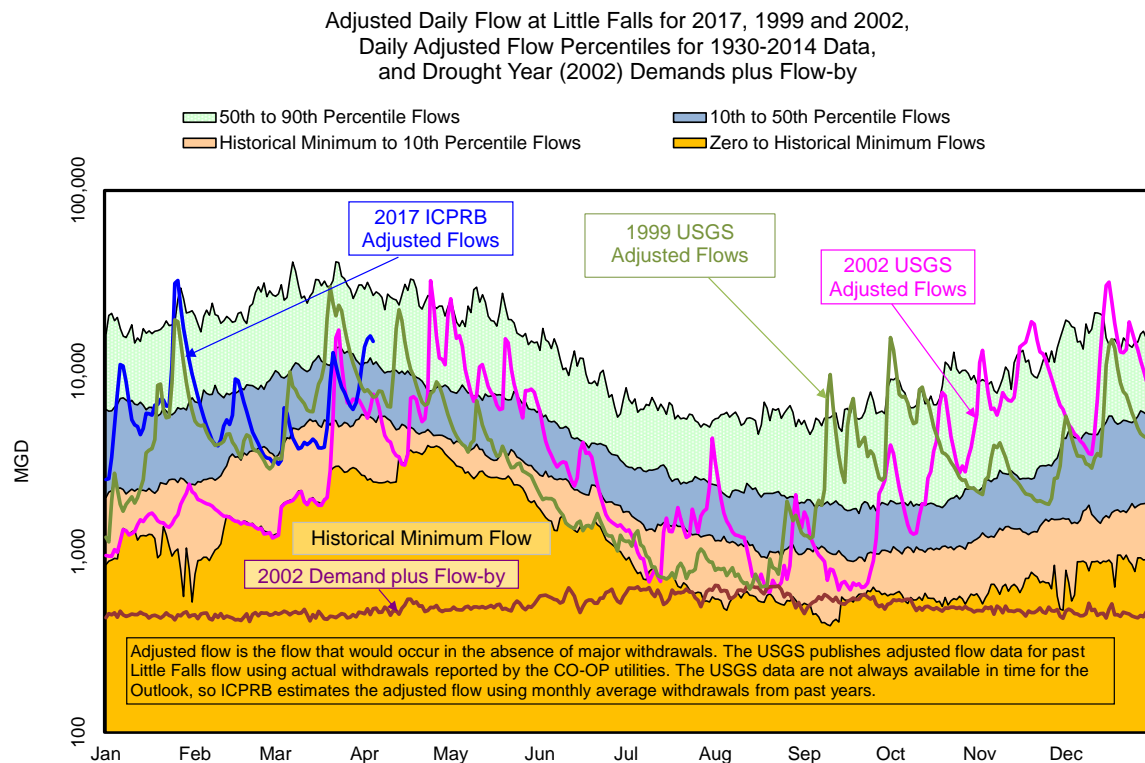
2017 Washington Metropolitan Area Drought Exercise

Scenario and Schedule

September 27, 2017

Exercise Scenario: The 2017 Drought that Wasn't

In April of 2017, many of us were concerned that water suppliers in the Potomac basin could be facing a difficult summer. ICPRB's April Water Supply Outlook predicted a higher than normal probability of water supply releases, and the April Outlook's graph of recent flow at Little Falls, which appears below, showed that recent low flows were uncomfortably similar to those which occurred in the spring of 1999.



The scenario for this year's exercise is a moderate drought occurring in the summer of 2017. For some portions of the exercise, ICPRB staff will be reviewing flow forecasts based on 1999 flow and withdrawal data. The exercise will be used to provide CO-OP staff with experience in using a number of data download and flow forecast tools:

- Existing CO-OP Excel spreadsheet data download and flow forecast tools,
- The new data download and other capabilities of CO-OP's Drupal website, and
- CO-OP's new Shiny/R applications for data download and forecasting (beta versions)

Exercise Schedule

7:30 AM – 8:00 AM

Water suppliers:

- i) Submit recent ACTUAL daily & hourly withdrawals (or Broad Run discharge) using ICPRB's website, icprbcoop.org (this is done via automated email submission by Fairfax Water; manual submission by others). If you have questions, contact Sarah Ahmed (sahmed@icprb.org).
- ii) Submit forecasts of ACTUAL today and tomorrow's demands (or Broad Run discharge), and reservoir storage levels (Occoquan, Patuxent, and Little Seneca) using ICPRB's website, icprbcoop.org (manual submission by all suppliers)

ICPRB: Download ACTUAL recent flows and demands to update inputs for forecast tools – to practice using current data download tools.

8:00 AM – 9:00 AM

ICPRB: Review drought exercise flow forecasts (based on 1999 data) and determine need for change in Jennings Randolph release. Call Corps if change is necessary

9:00 AM – 10:00 AM

ICPRB: i) Review flow forecasts (based on 1999 data) and determine need for Little Seneca release and load shifts between intakes.

ii) Call water suppliers to discuss desired changes in (SIMULATED) operations.

iii) Send out morning email report.

10:00 AM – 10:45 AM

ICPRB: Practice flow forecasts and operational decisions using Excel spreadsheet tools, based on 1999 data.

10:45 AM – 11:30 AM

ICPRB: Presentation on new capabilities of Drupal website (Sarah Ahmed).

11:30 AM – 12:00 PM

ICPRB: Presentation on new Shiny/R apps for data download and flow forecasts (Zachery Smith)

12:30 PM – 1:00 PM

Water suppliers: Submit ACTUAL recent hourly data and PM forecasts.

1:00 PM – 2:00 PM

ICPRB: i) Send out afternoon email report.

ii) Demonstration and discussion of CO-OP reservoir refill tools.