Delaware River Basin Commission

Additional Review of Existing DO Data

Water Quality Advisory Committee

May 14, 2019 John Yagecic, P.E.









Presented to an advisory committee of the DRBC on May 14, 2019. Contents should not be published or re-posted in whole or in part without permission of DRBC.



Additional Review of Existing DO data

Objective

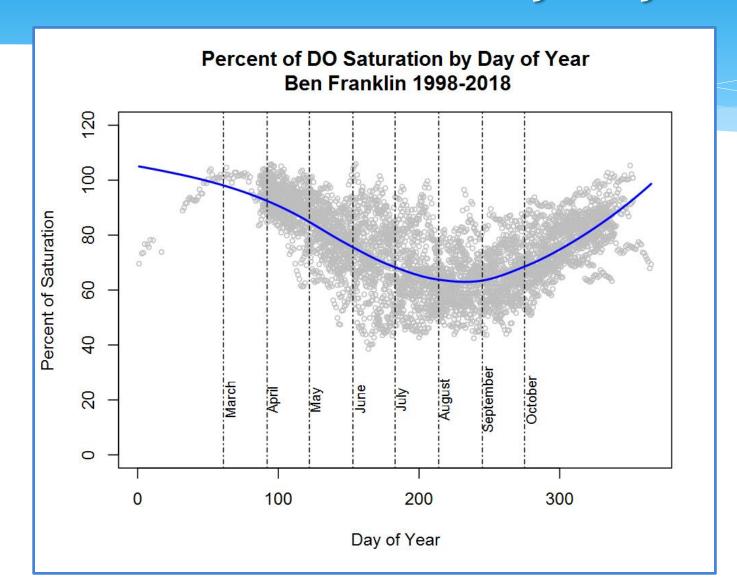
- More in depth review of existing DO data at USGS monitors
- Better understand DO & how close we might be to candidate criteria
 - % of DO Saturation by Day of year at USGS monitors
 - 2. Proportion exceedances at candidate criteria
 - 3. Proportion exceedances by Day of Year
 - 4. Impact of flow on DO at fixed temperature bands

Caveats

- Existing WWTP treatment levels
- Existing conditions (1998-2018 data)
- * Not an indication of what is achievable

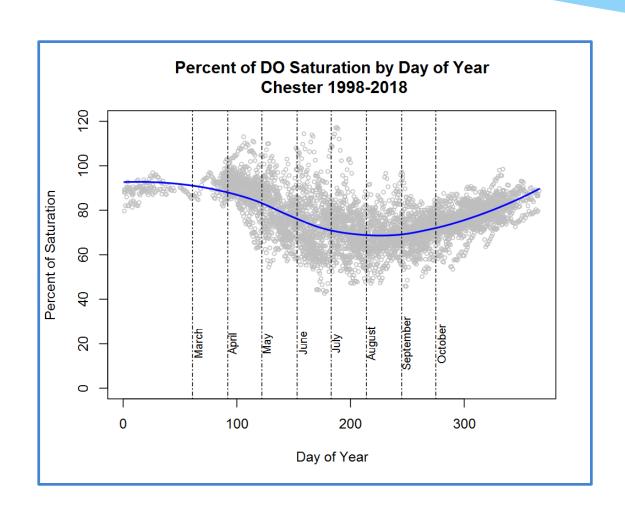


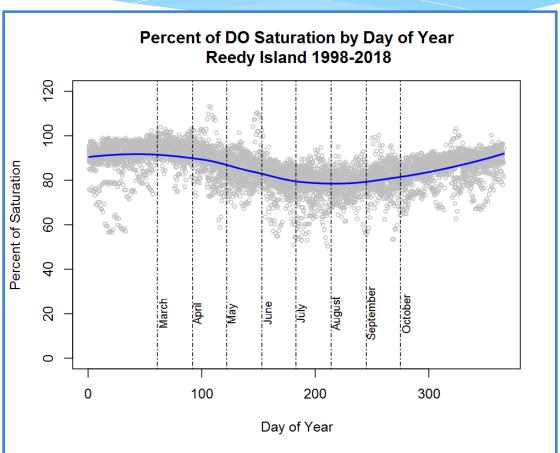
Percent of DO Saturation by Day of Year





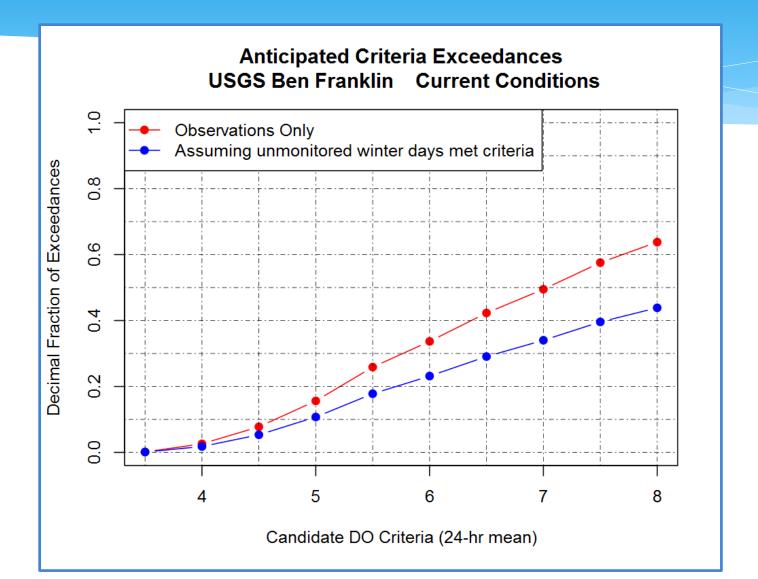
Percent of DO Saturation by Day of Year





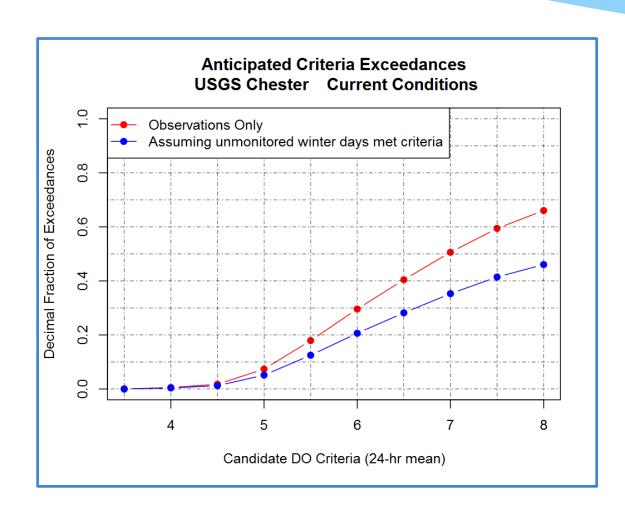


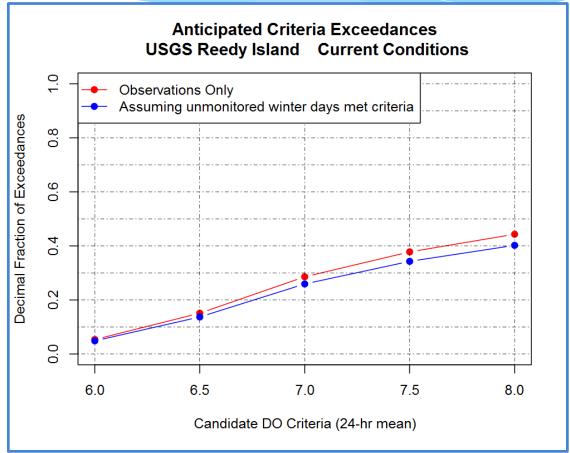
Exceedances per Candidate Criteria





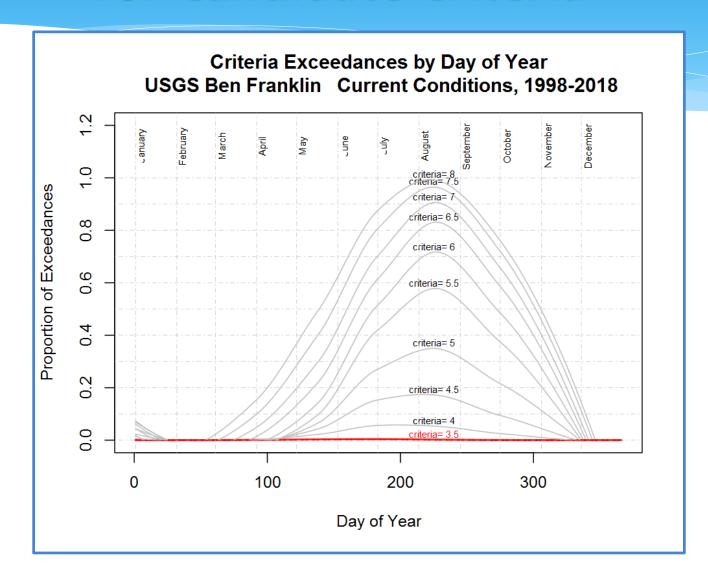
Exceedances per Candidate Criteria





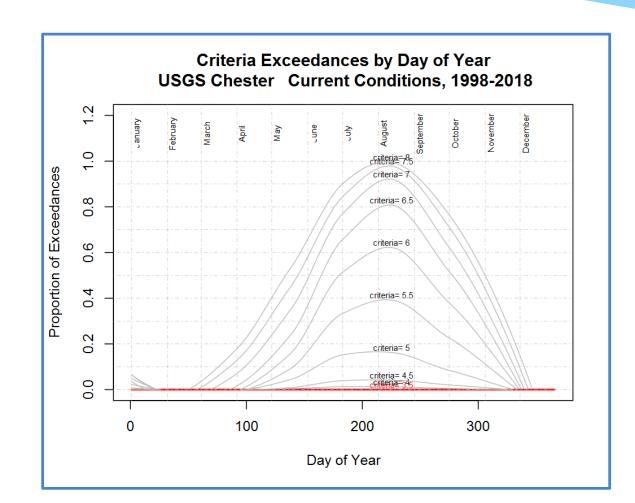


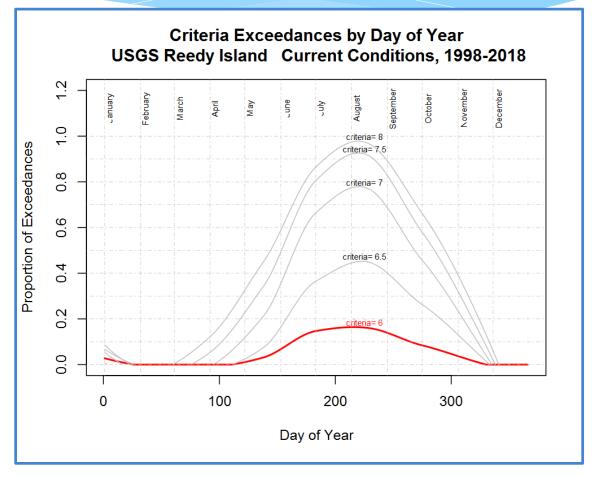
Exceedances by Day of Year for Candidate Criteria





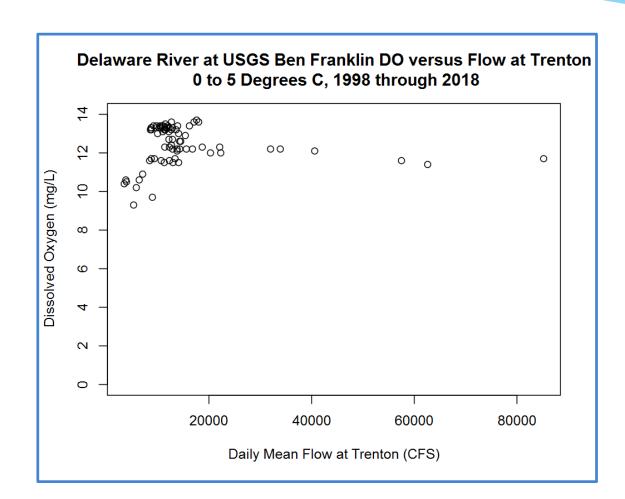
Exceedances by Day of Year for Candidate Criteria

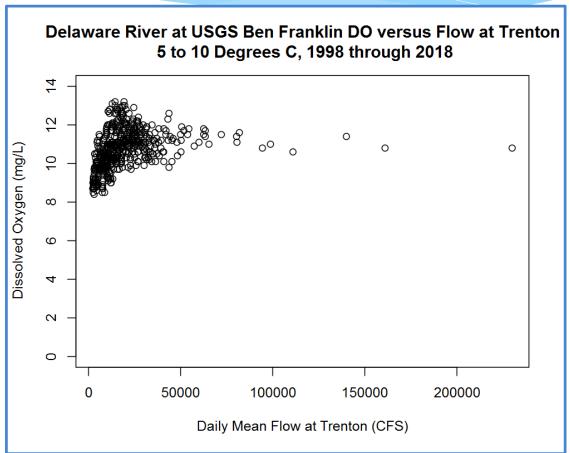




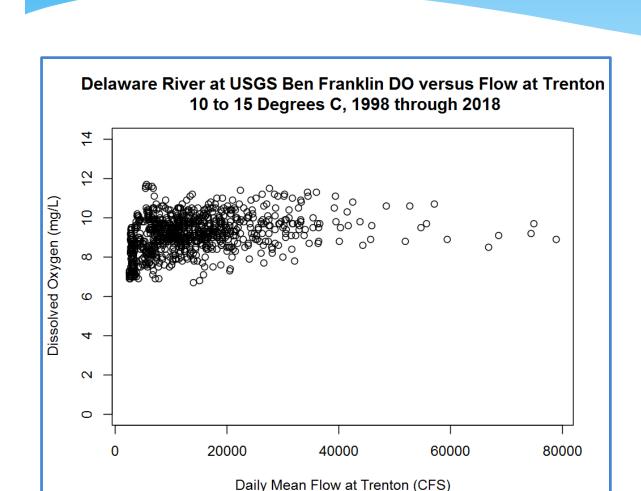


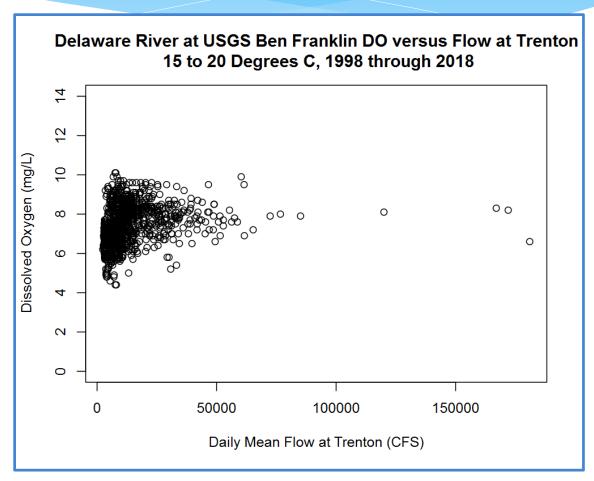
Impact of Flow at Trenton on DO at Ben Franklin by Temperature Band



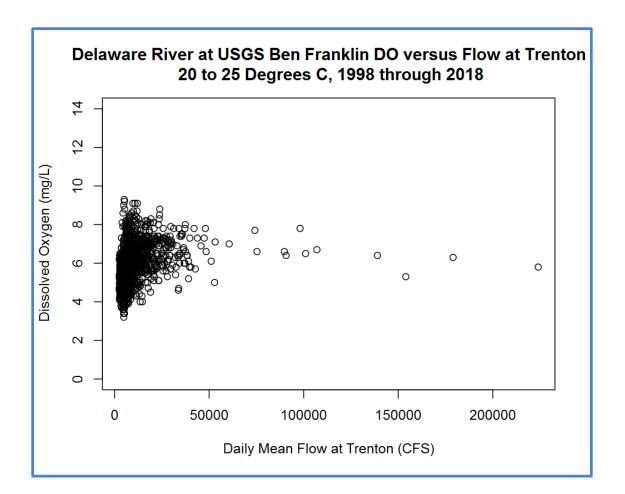


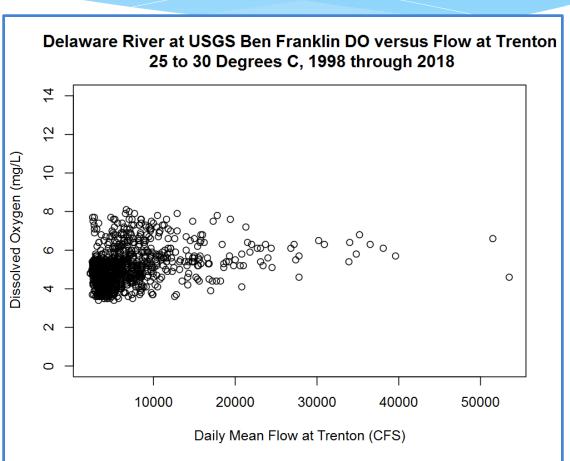
Impact of Flow at Trenton on DO at Ben Fran by Temperature Band (continued)





Impact of Flow at Trenton on DO at Ben Fran by Temperature Band (continued)









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