The Most Important Liquid: Water



VCU Performance Management Group Virginia Executive Institute Spring 2016 Class (Group 3)





The Most Important Liquid: Water

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Virginia's Water Resources

- 43 inches average annual state-wide rainfall
- 52,232 miles of freshwater streams and rivers part of nine major watersheds
- 22.5 billion gallons per day total combined flow of all freshwater streams in the state
- 955 user facilities for 2257 withdrawal points exceed 7 billion gallons per day for all use types. Excluding power generation, 2013 withdrawals totaled approximately 1.2 billion gallons per day

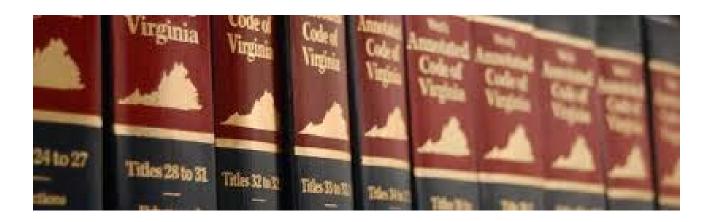






Virginia's Statutory Authority for Water Resources

- The Virginia Water Control Board is responsible for planning the development, conservation, and utilization of Virginia's water resources.
- DEQ manages state water resources; VDH regulates drinking water
- VA Code requires 5-yr state and 10-yr local water supply plans that address the issues listed above





Examples of State Plans to address Drought

- Georgia Predrought Mitigation Strategies
 - Limiting irrigation for certain purposes to 4 pm − 10 am
 - Investments for water efficiency
- Texas Ongoing information disseminated to stakeholders
- Colorado Plan includes mitigation of long-term drought impacts, vulnerability assessments and previous drought impacts
 - Hazard Mitigation Goals
 - State Drought Mitigation Capacity Assessments
 - Local Capacity Assessments (water conservation, drought response, drought management)
 - Impacts of prior droughts are a part of the plan



Examples of State Plans to address Drought

- California Incorporated lessons learned from Australia
 - Adopted regulations to incorporate water efficiency and conservation
 - Understanding communication is key especially with the public and localities
 - Include businesses when addressing conservation or the replacement of inefficient appliances and fixtures
 - Diversify supply including desalination and recycling water
 - Undertake least-cost planning for alternative supplies and adopt a readiness based plan



Lessons Learned From Other U.S. States

■ Two tier approach — State Management Planning with regional, basin or sub-basin involvement.

Need for dependable, dedicated funding sources

sufficient to meet the need for:

- improved infrastructure,
- water storage,
- data collection and education.
- Increased public interest and involvement (driven by years of drought and water resources competition)



On-going planning

- Continued adherence to 5-year
 Commonwealth water plan and 10-year local water supply plan updates
- Encourage more frequent local water supply plan updates potentially with grant funding to PDCs to explore regional approaches to water supply needs
- Drought Monitoring Task Force meet more frequently, even in non-drought periods aid with planning processes
- Incorporate VEDP input on Commonwealth Water Supply planning to identify potential 'targeted regional solutions' to attract business investment in Virginia





- Increasing water supply redundancy and promoting regionalism where appropriate
 - Identify systems that are in need of or would significantly benefit from redundant water supplies



 Incentivize regional approaches to long-term water supply needs, possibly through a grant reimbursement program





- Diversifying water supply infrastructure financing options for local and regional water projects
 - Dedicated funding source for reservoir projects (possibly with a dedicated revolving loan fund to create a perpetual funding vehicle)

Loan excess capacity in Clean Water Revolving Loan Fund to the Drinking Water Revolving Loan Fund for critical water supply projects in VA





- Enhance water conservation measures, incentives and water resource sustainability investments
 - DEQ prioritization of water re-use projects, possibly with a deeper interest rate subsidy through the CWRLF
 - Explore expanded use of green infrastructure and water saving technologies in state facilities
 - Education of water conservation best management practices and new technologies.

