

# Executive Order B-37-16 and Efforts to Strengthen Local Drought Resilience

Paleo Drought Workshop  
April 19<sup>th</sup>, 2018  
San Pedro, California

Presented By:  
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# Cape Town South Africa: Day Zero



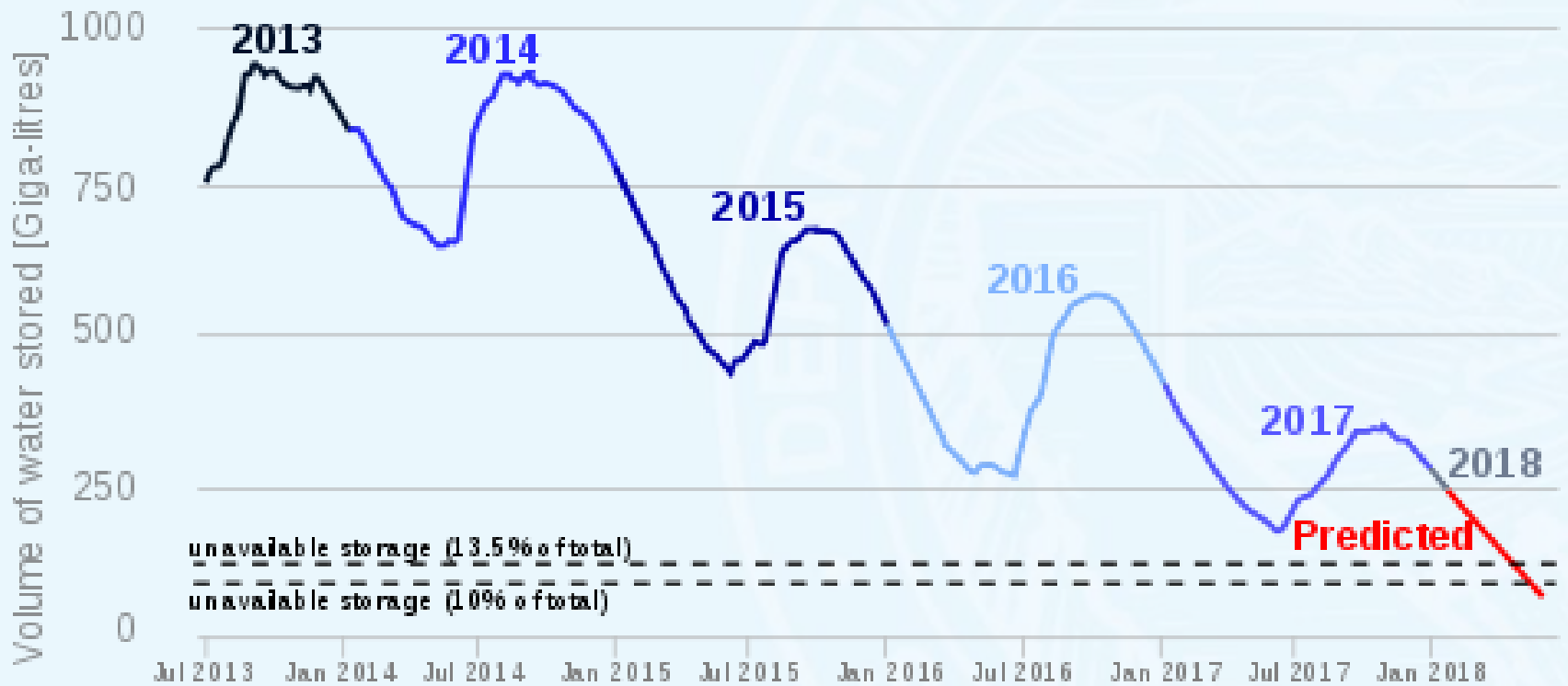
**LEVEL 6B**  
**WATER RESTRICTIONS**  
EFFECTIVE 1 FEB 2018

Cape Town water consumption only 66 million litres  
above target  
2018.04.00 17:52



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# 2015-18:Drought



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# Cape Town: Historic Rainfall

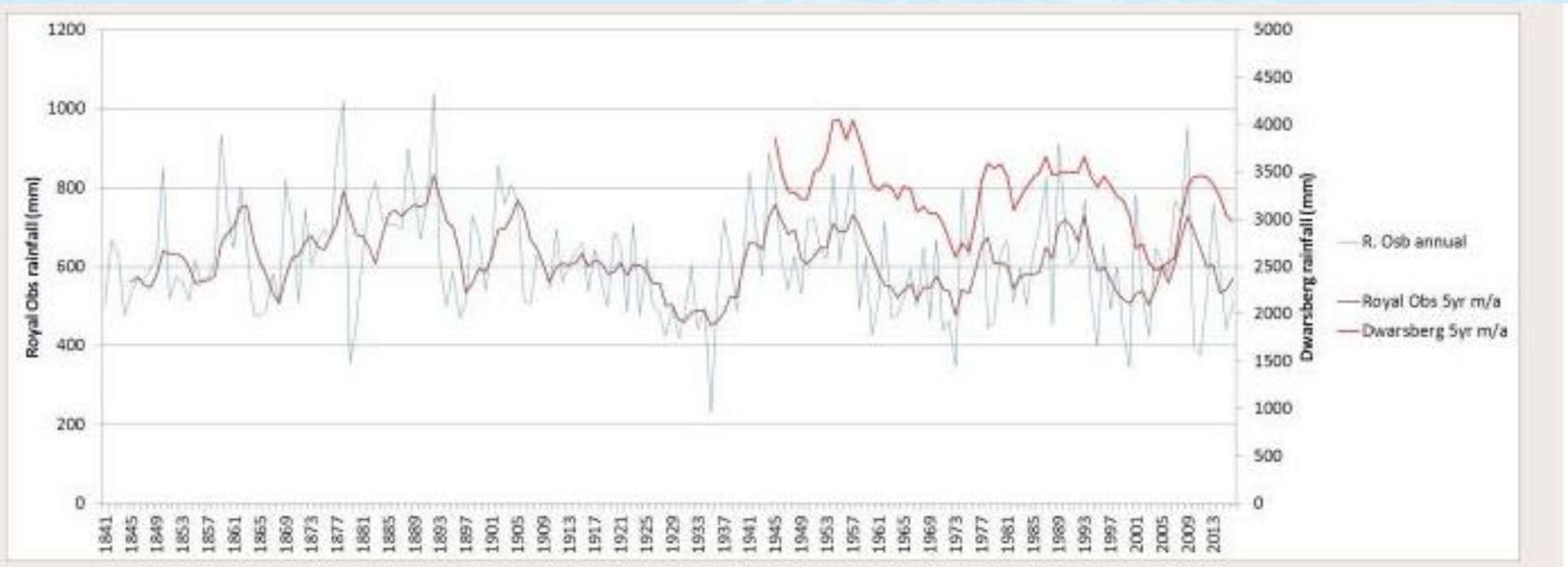


Figure 5. Dwarsberg five-year moving average in perspective (a comparison against Royal Observatory)



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# Capetown, SA: changes in population and water shortage

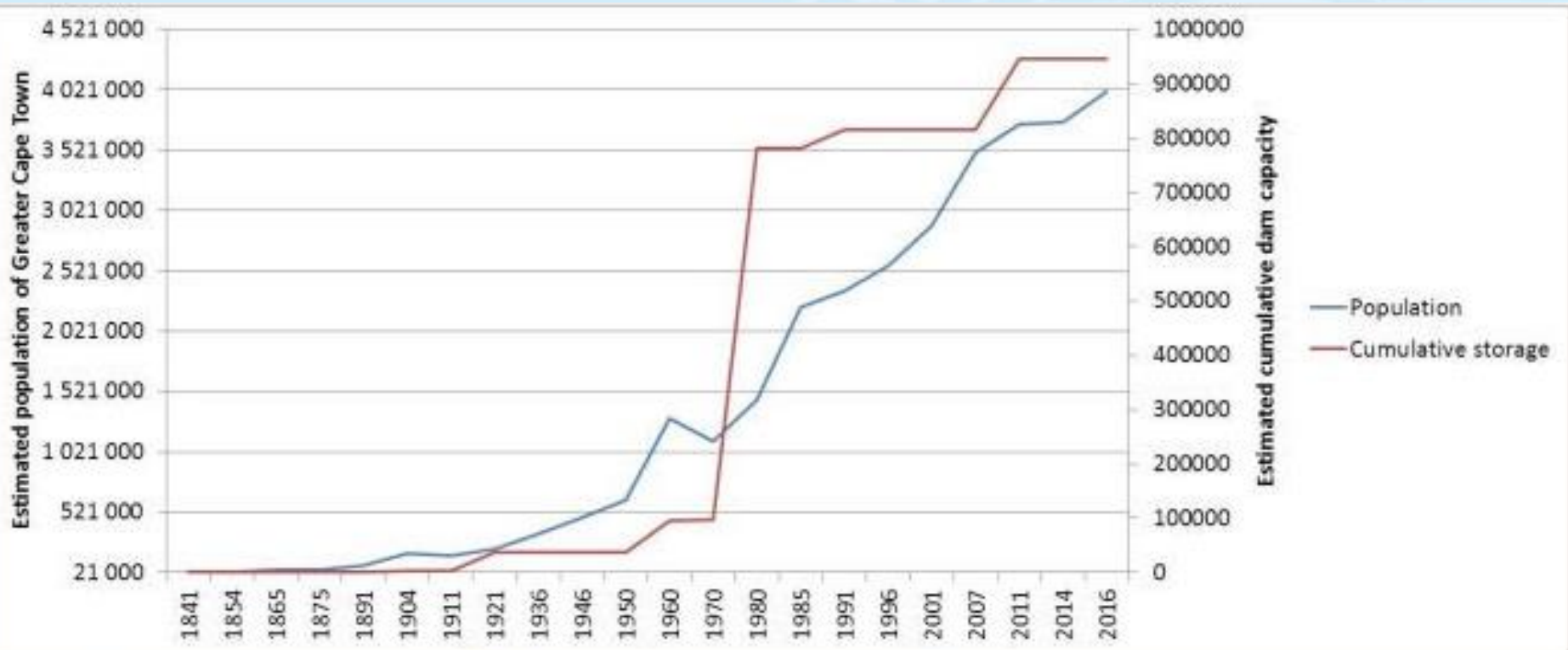


Figure 1. Population and water storage capacity (in megalitres) growth of greater Cape Town



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# Capetown Water Supply

- 95% - Surface Water

## Next Steps: Diversify Supply

- Develop groundwater
- Desalination
- Recycled water



# Marin: 1976-77 Drought



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# Water Management Steps Taken

- Diversified supply-
  - Brought in Russian River Supply
  - Built additional supply
  - Developed recycled water programs
- Invested in conservation to decrease demand





# Executive Order B-37-16: Making Conservation a California Way of Life

- Signed May 2016
- Directed 5 state agencies to develop a long term conservation framework
- Framework Plan released May 2017
- Two legislative Bills:
  - SB 606
  - AB 1668

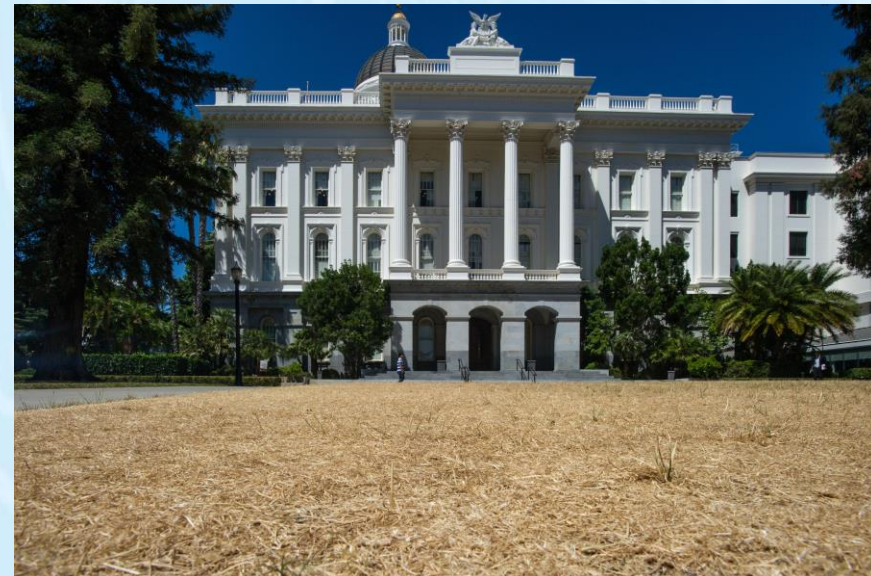


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# Proposed Legislation: 3 Parts

- Urban Water Use Targets
- Improved Drought Resilience
- Agricultural Water Management



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# Proposed Drought Resilience Measures

- Small Community
- Annual Water Supply Assessment
- Drought Risk Assessment- in UWMP
- Standardization of water shortage stages



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# Small Community Drought Resilience

- Proposed legislation directs DWR to:
  - Identify small water suppliers and rural communities at risk of drought
  - Develop recommendations for county drought and water shortage plans to be included as part of county hazard mitigation plans



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# Annual Water Supply Assessment

- Supply and demand analysis completed in the spring of each year
  - Each supplier defines the process to be used in 2020 UWMP.
  - Submit to DWR by June 1 each year
  - Report includes supply assessment and if necessary shortage stage to be implemented



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# Standardized Water Shortages Stages

- **10632.2:** *An urban water supplier shall follow, where feasible and appropriate, the prescribed procedures and implement determined shortage response actions in its water shortage contingency plan, as identified in subdivision (a) of Section 10632, or reasonable alternative actions, provided that descriptions of the alternative actions are submitted with the annual water shortage assessment report pursuant to Section 10632.1*
- Six stages: 10, 20, 30, 40, 50 and greater than 50% reductions
- Can use existing stages, but create a way to cross reference to state standard



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# UWMP Drought Risk Assessment

- In UWMP, determine the reliability of supply for a five year drought
  - Evaluate the reliability of each supply source
  - Consider changes in supply due to climate change



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# Implementation

- DWR and SWRCB have a significant number of reports and guidance to develop.
- All work to be completed through a public process





# Questions?

## Contact Information

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