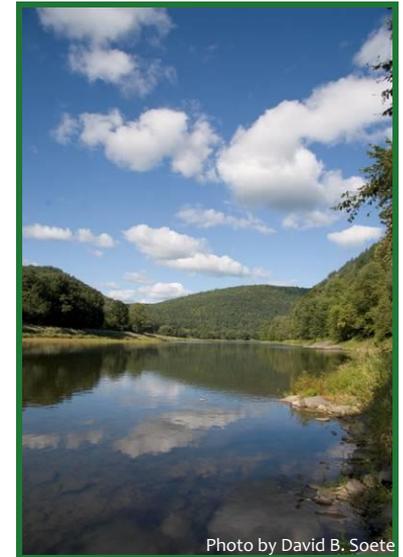


Plenary: Water Use in the Delaware Reliance & Risks

**2015 Delaware River
Watershed Forum
Newark, DE**

***Steve Tambini, P.E.,
Delaware River Basin
Commission***

October 5, 2015



Delaware River Basin Commission

DELAWARE • NEW JERSEY
PENNSYLVANIA • NEW YORK
UNITED STATES OF AMERICA

What if...?



Imagine a Day Without Water

October 6-8, 2015

Participate

Sign Up

Events

Resources

Imagine:

Could you go a day without water? No water to drink or make coffee. No water to shower, flush the toilet, or do laundry. Firefighters couldn't put out fires and farmers couldn't water their crops.

October 6 - 8 we are joining together to raise awareness about the most essential resource we have: Water.

[Read the Event FAQ.](#)



<http://www.imagineadaywithoutwater.org/>

Delaware River @ Trenton 1960's drought



Delaware River @Trenton

November 2014



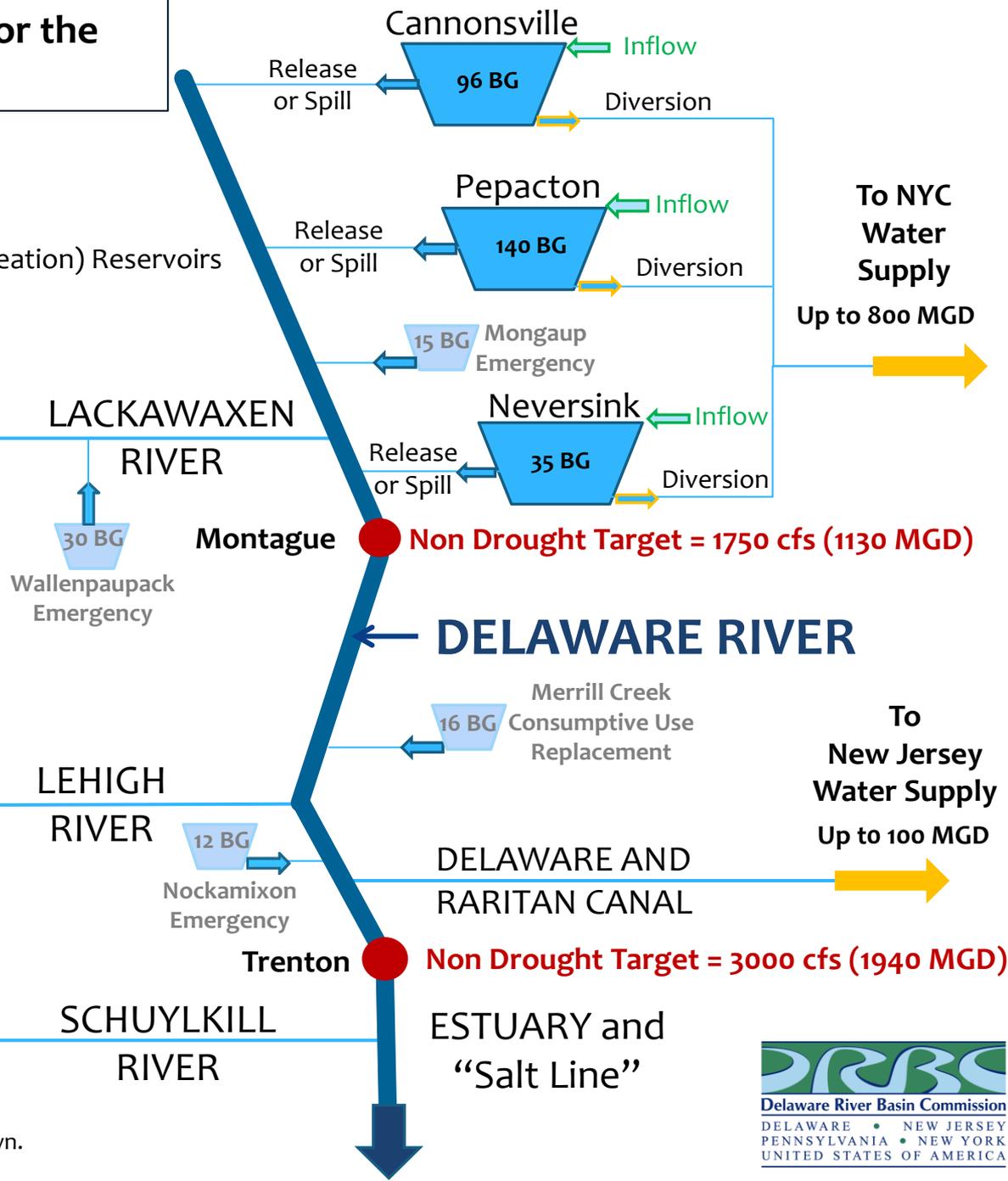
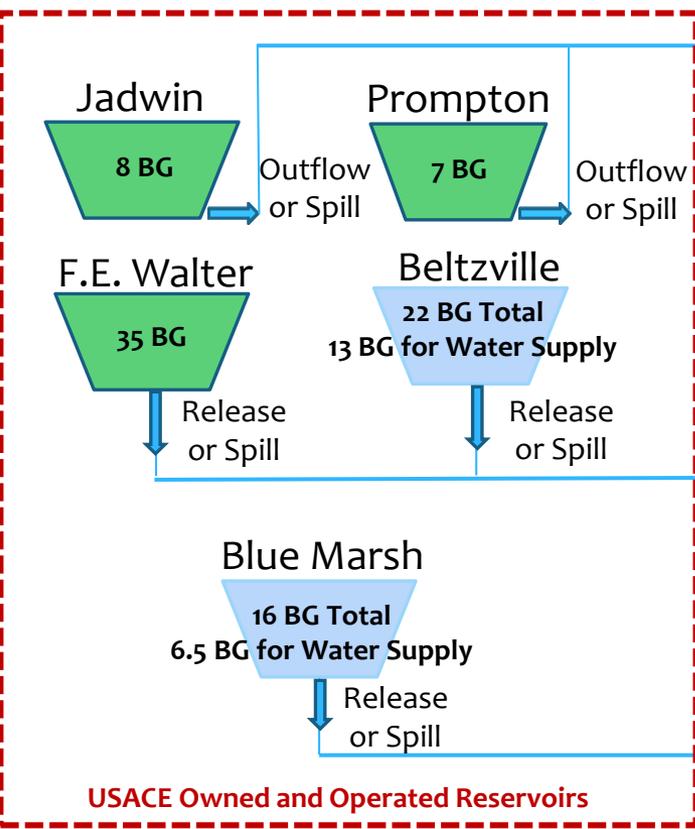
Photo: DRBC Staff, 11/9/2014



Photo Credit: Nicholas A. Tonelli

Water Management Schematic for the Delaware River Basin

-  Out-of-Basin Diversion
-  Primarily Water Supply Reservoirs
-  Multi-Purpose (Flood/Power/WS/Recreation) Reservoirs
-  Primarily Flood Control Reservoirs
-  Flow Management Objective



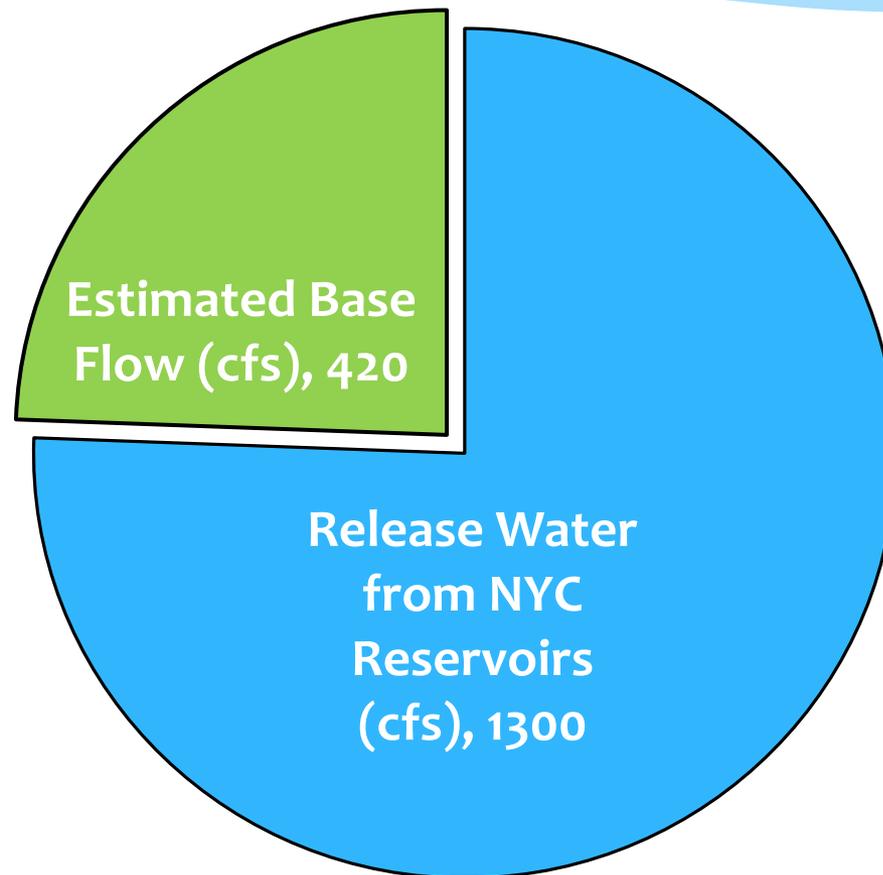
Note: Not all reservoirs, tributaries, and diversions are shown.

Flow at Montague, NJ October 15, 2014

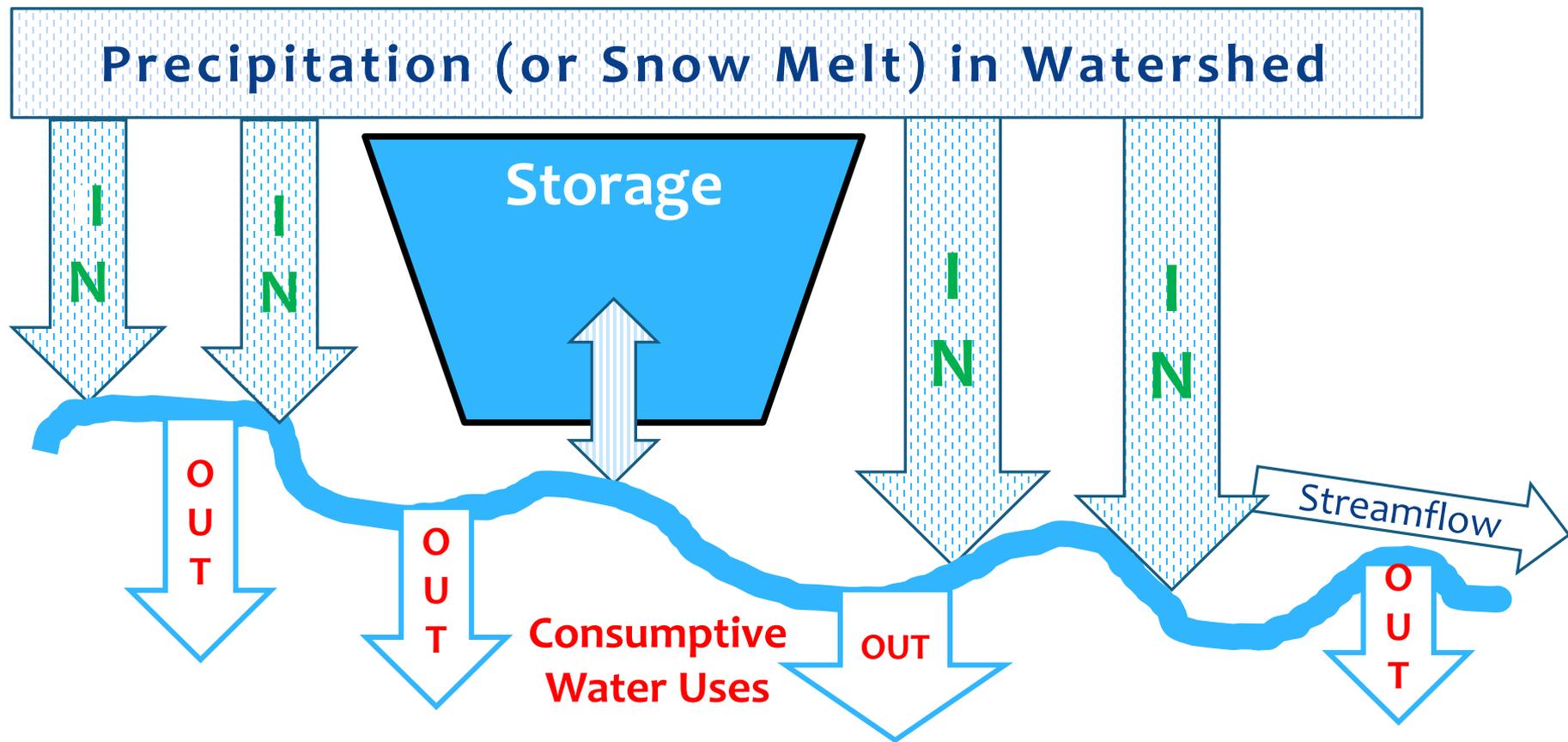
Montague Gage:

Flow Target =
1,750 cfs

Estimated
average base
flow (9/8 to
10/15, 2014) = **641
cfs (36% of
target).**

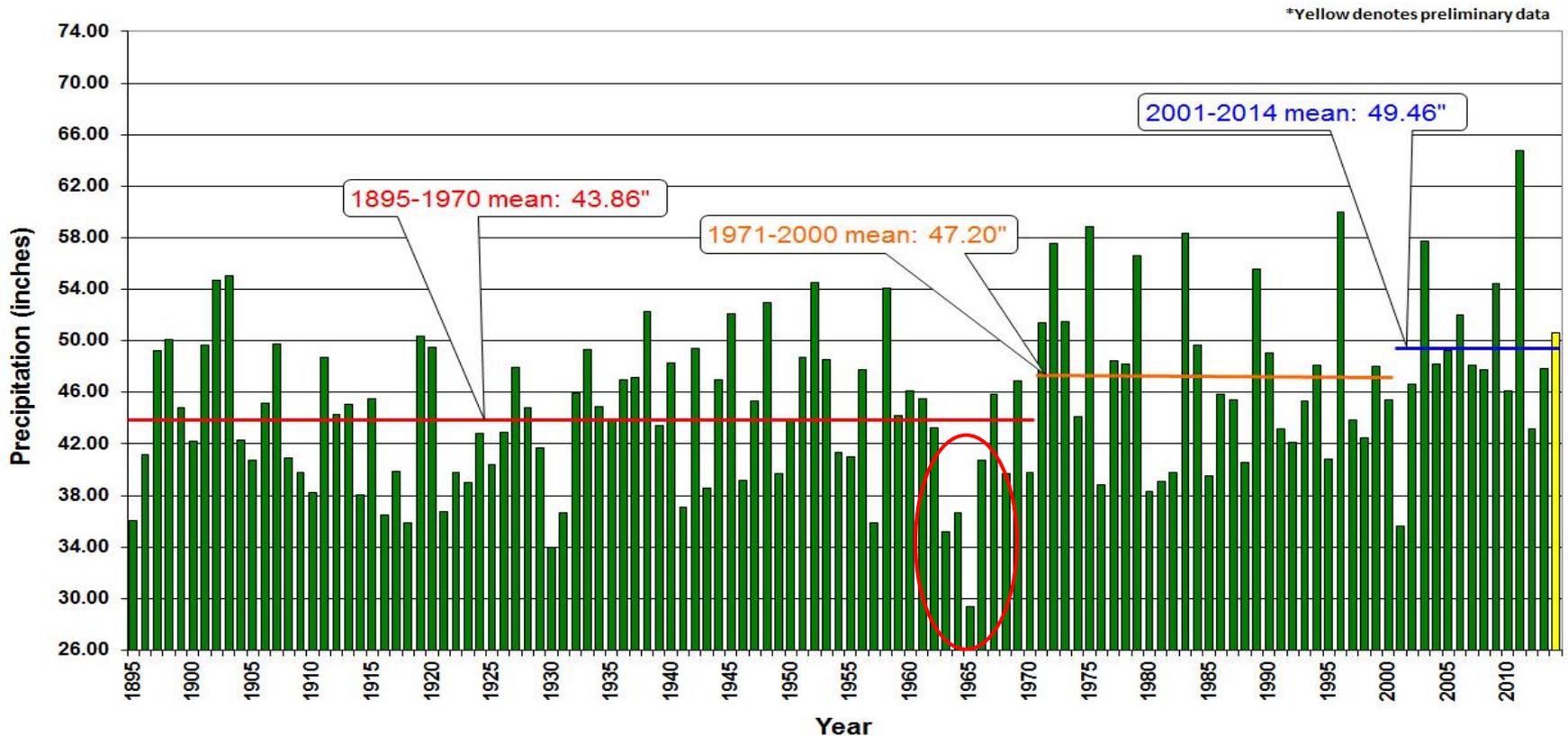


SIMPLE (SIMPLE) Surface Water Supply Budget



NJ Annual Precipitation

NJ Statewide Annual Precipitation (1895-2014)



NYC Cannonsville Reservoir December 2001 @ 6.5% of Capacity



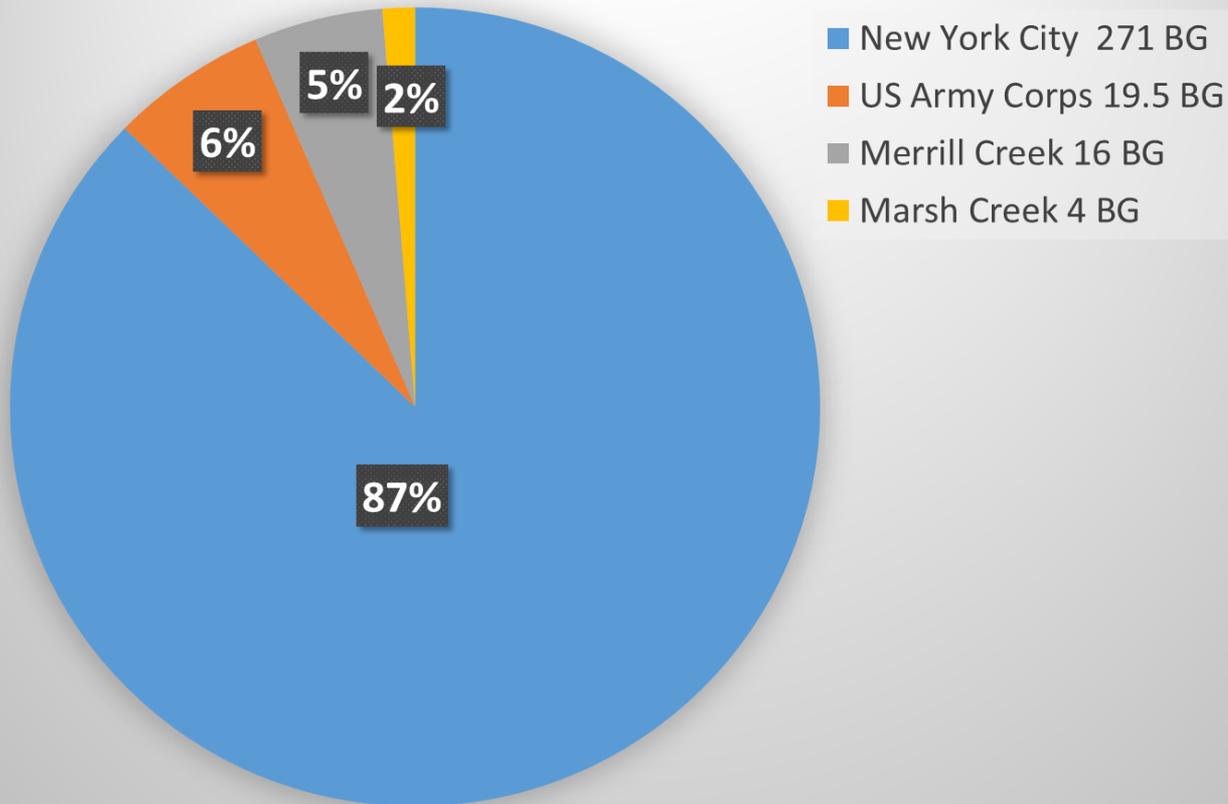
Sources of Water Storage

- New York City
- DRBC Storage in USACE Reservoirs
- Emergency
- Consumptive Use Make-Up



Our Delaware River Basin Storage “Buckets”

"Routine Storage" - 310 BG

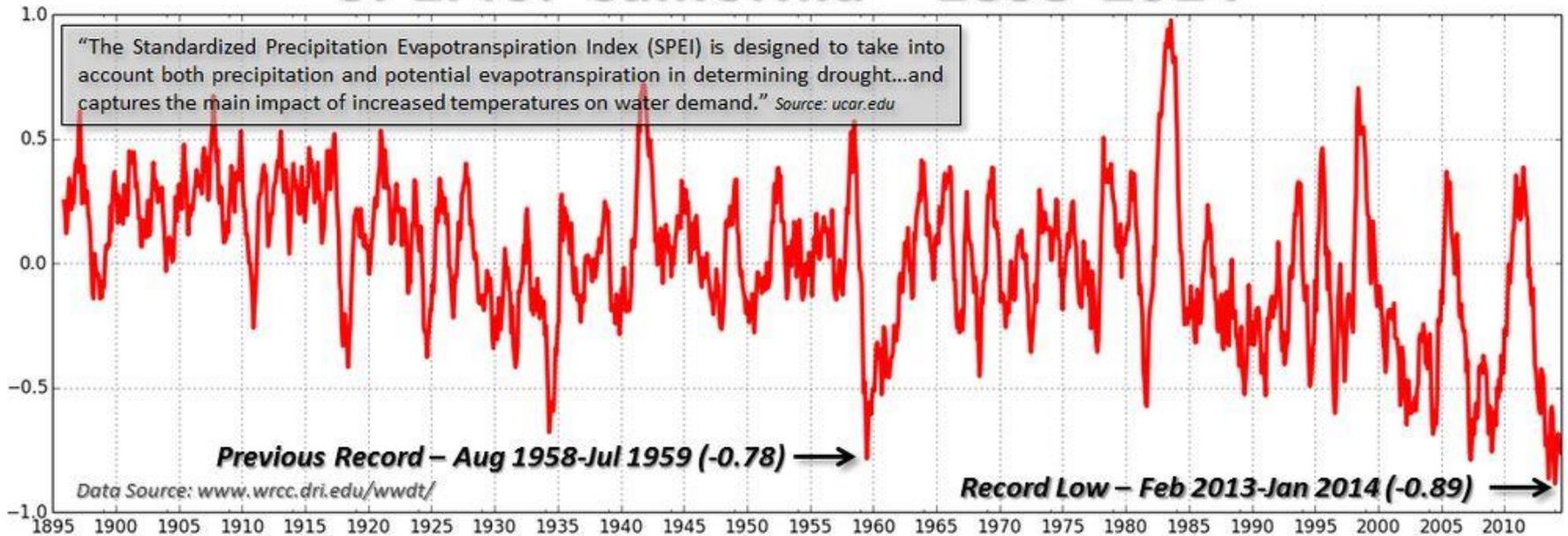


**“Emergency”
Storage
69 BG**

Lake Wallenpaupak - 30BG
Mongaup System - 15BG
FE Walter (USACE) - 11 BG
Nockamixon Res. – 13 BG

What if...?

SPEI for California – 1895-2014



In the News 11/05/2014: California Water Bond

Politics

Californians pass \$7.5 billion water bond:
Now what?

Molly Peterson

November 05 2014



Leadership or Crisis?

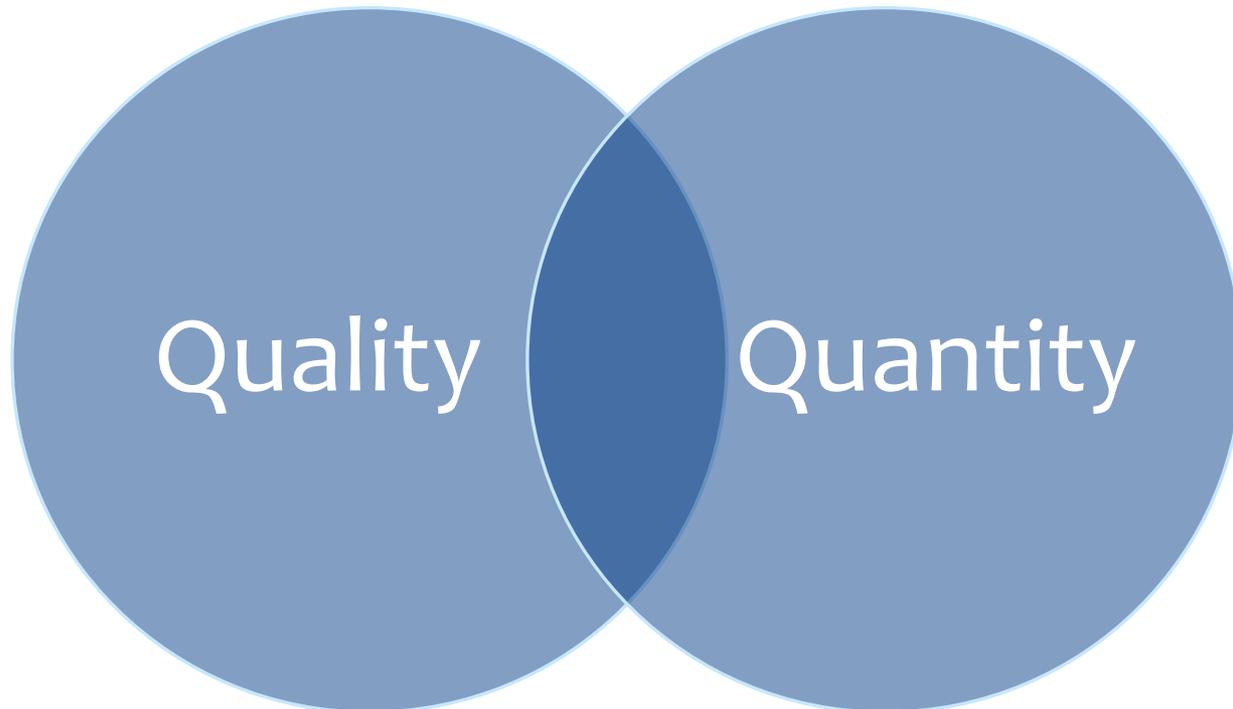
- **California Proposition 1**
- **\$7.5 Billion Bond Fund for Water**
- **Passed overwhelmingly 66.8% to 33.2%**
 - Water Storage Capacity - \$2.7B
 - Watersheds and Flood Management - \$1.8B
 - Groundwater protection and cleanup - \$0.9B
 - Water conservation and storm water - \$0.8B
 - Water recycling and desalination - \$0.7B
 - Safe drinking water - \$0.5B

Reliance and Risks: Sustainable Supply

- Optimization of Storage?
- More Storage?
- Water Efficiency?
 - Water Loss Control
 - EPA WaterSense
- All of the above?



What if...?



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www.drbc.net



Delaware River Basin Commission

DELAWARE • NEW JERSEY
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*Managing Our Shared Water
Resources since 1961*