



# Water Audit introduction

Michael Thompson, P.E.

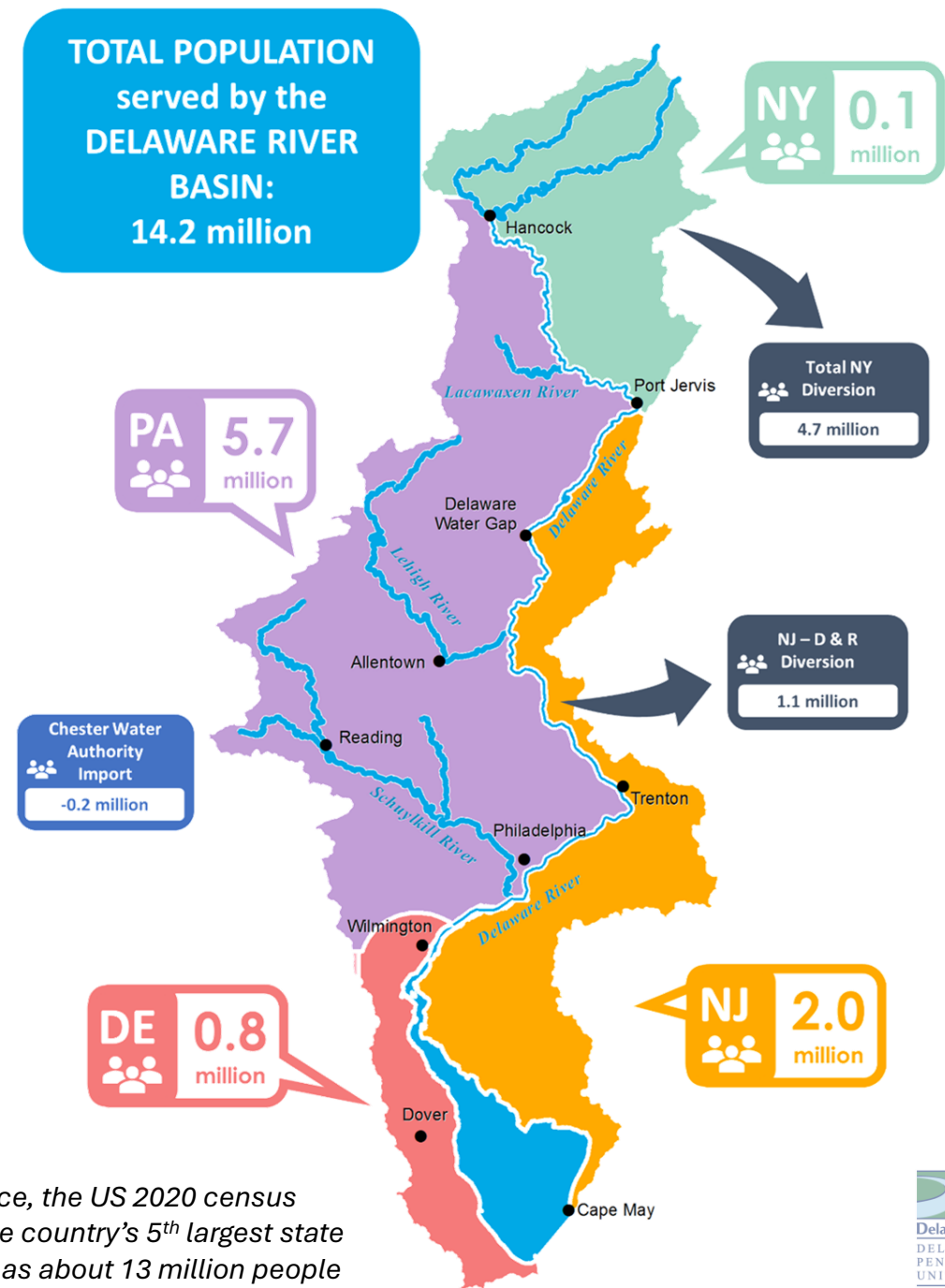
**October 16, 2024**

*Water Management Advisory  
Committee (WMAC)*



Presented to an advisory committee of the DRBC on October 16, 2024. Contents should not be published or re-posted in whole or in part without permission of the DRBC or the presenter.

Over 14 million people rely on the Delaware River Basin for drinking water



For reference, the US 2020 census reported the country's 5<sup>th</sup> largest state population as about 13 million people (Pennsylvania).



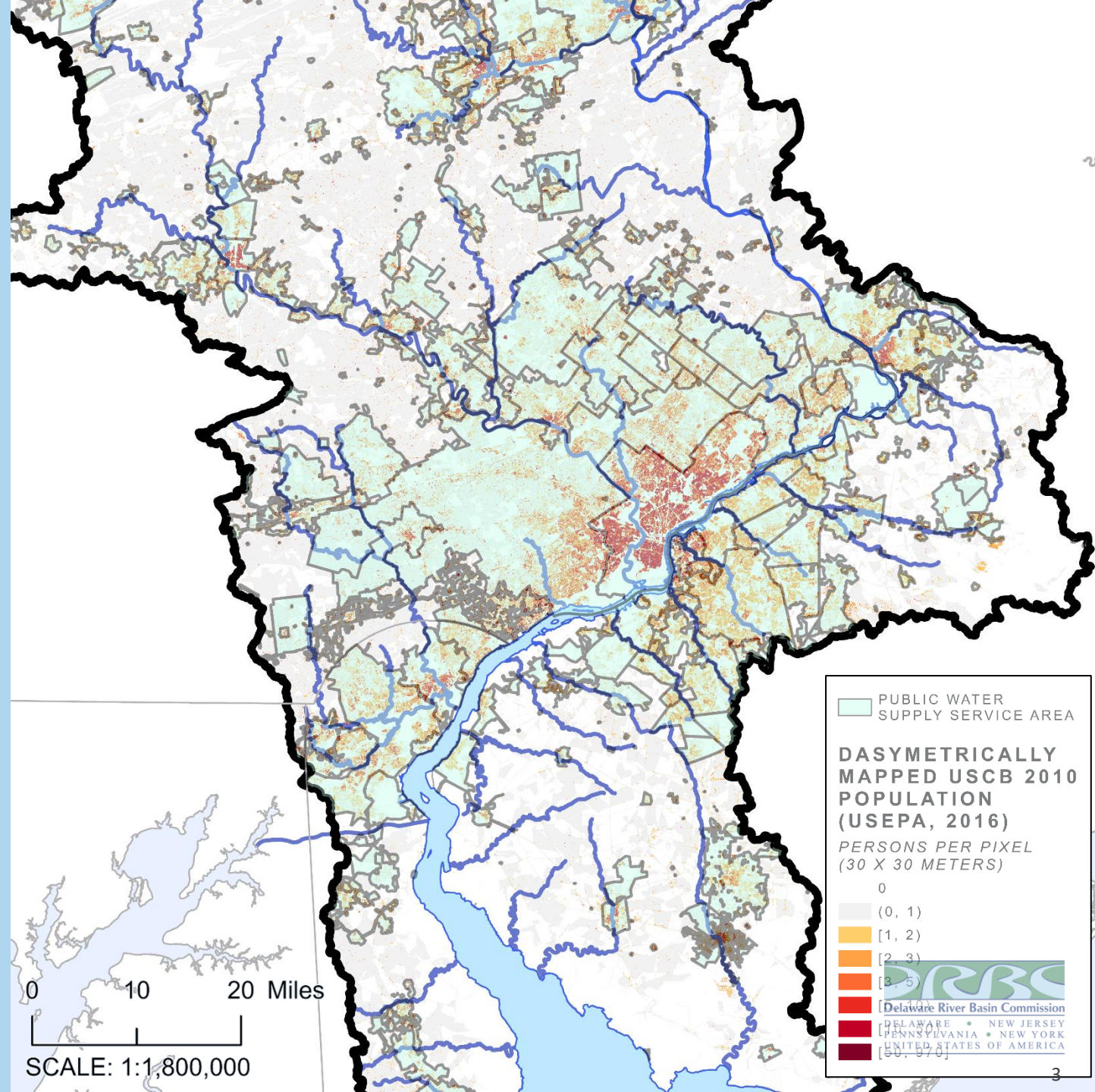
# Most people in the Basin rely on public water supply



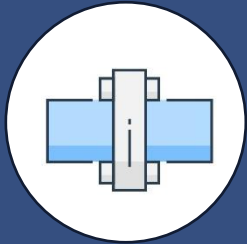
**8.629 million people**  
live in Delaware River  
Basin (2020 Census)



**7.366 million people**  
live inside public water  
supply service areas  
*~ 85% of the population*



# The DRBC “Water Audit Program” applies to about 300 water systems



29,000 miles of water main  
(enough to circle the Earth)



2.5 million service connections  
(active and inactive)



**2000**

International Water Association  
publishes research standardizing  
methods to quantify water loss



**2006**

DRBC staff participate on the American  
Water Works Association (AWWA)  
Water Loss Control Committee (WLCC)  
and help publish the first AWWA Free  
Water Audit Software (FWAS)



**2007-2009**

DRBC undergoes rulemaking process  
Adopted Res 2009-1 to amend the Water Code  
Applies to systems which:  
*“distribute water supplies in excess of an average of  
100,000 gallons per day (gpd) during any 30-day period”*



**2013**

The first mandatory water  
audits are due for CY2012



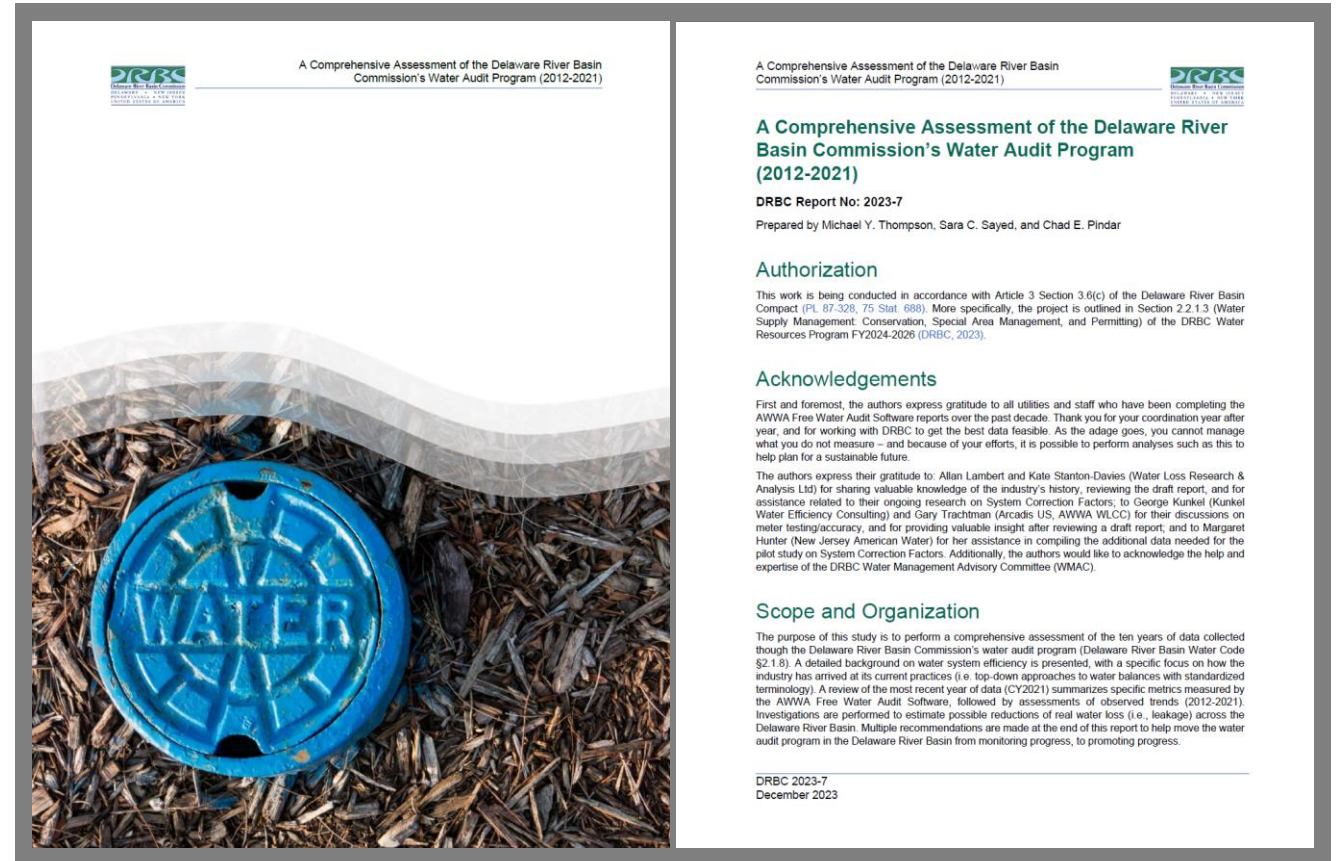
# “A Comprehensive Assessment of the Delaware River Basin Commission’s Water Audit Program (2012-2021)”



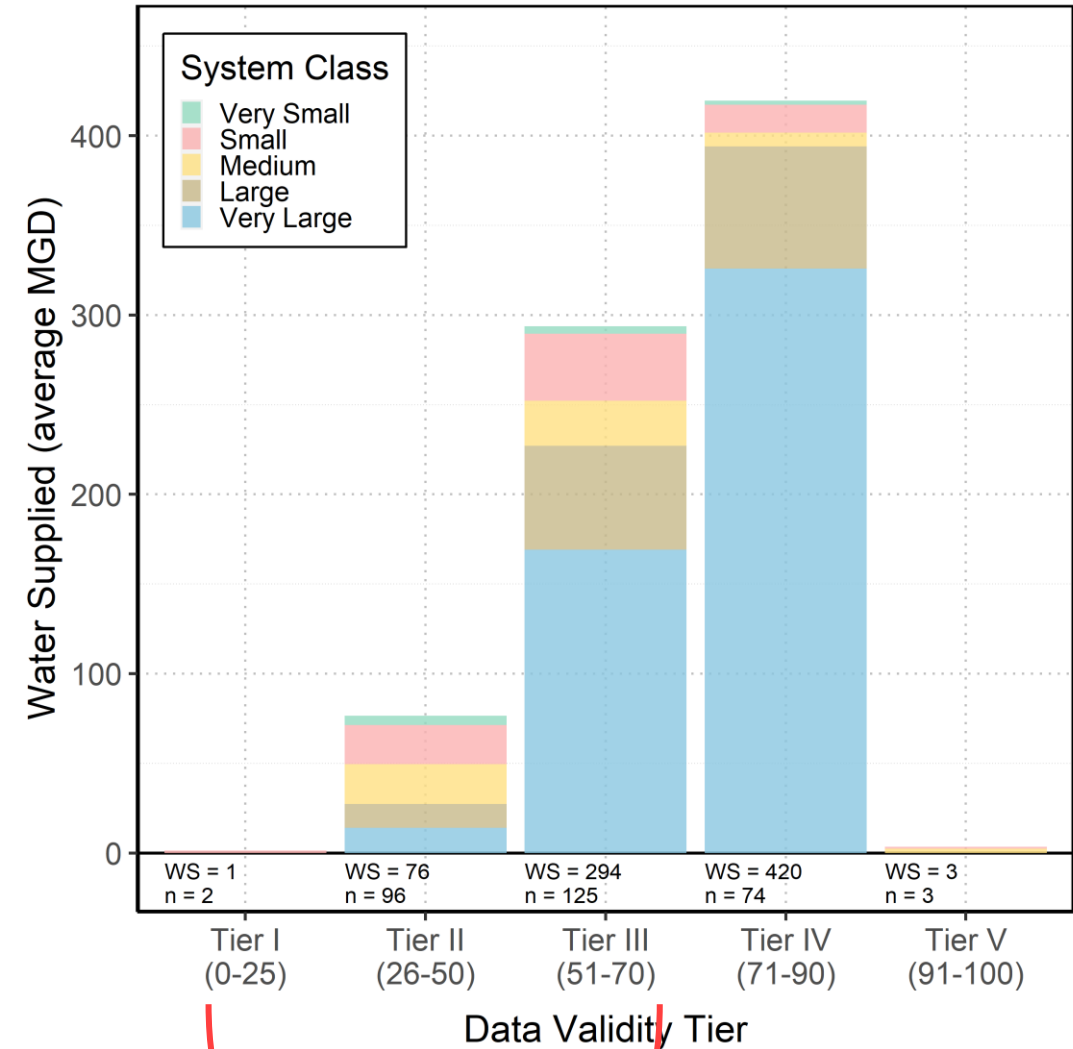
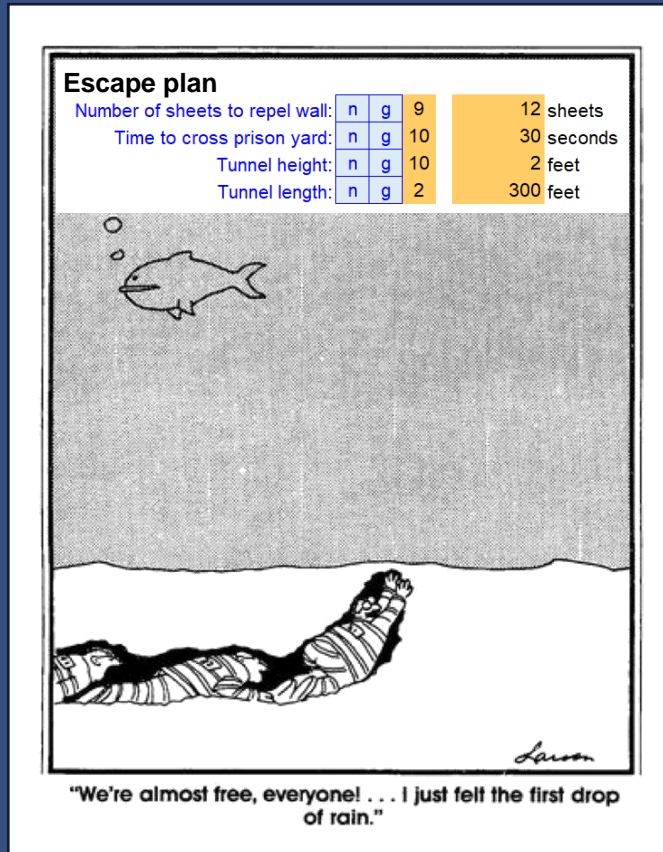
DRBC audit program

## Visit the website:

<https://www.nj.gov/drbc/programs/supply/water-audit-program.html>



# “Are you sure?”

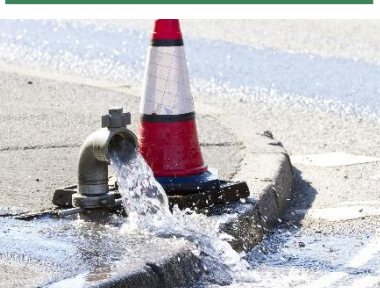
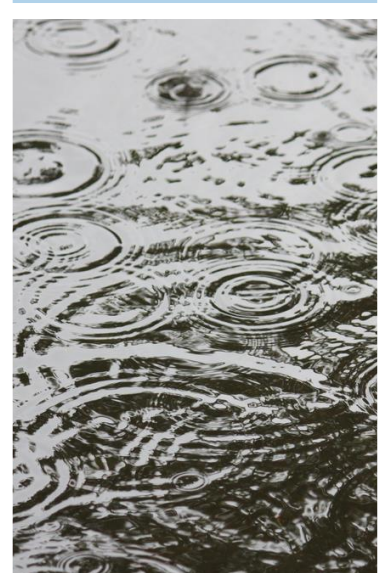
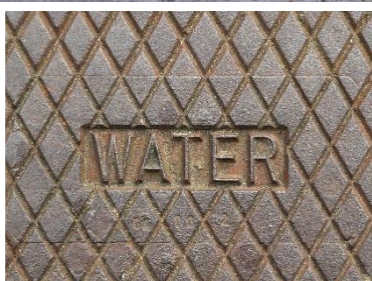
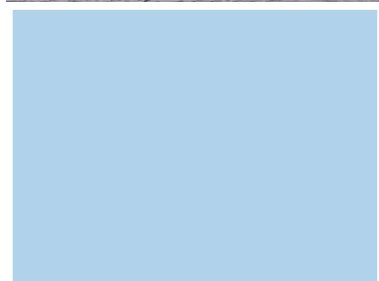


There is room for improvement here...





We never know the Worth of Water,  
till the Well is dry.



Michael Thompson, P.E.  
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DRBC website



DRBC audit program

