



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION



Planning and Conservation Division

The State Water Plan

DRBC Water Management Advisory Committee
October 13, 2022

Tom Wolf, Governor

Ramez Ziadeh, Acting Secretary

Presented to an advisory committee of the DRBC on October 13, 2022. Contents should not be published or re-posted in whole or in part without the permission of the presenter or the DRBC.

DEP Team

Susan K. Weaver, PE

Acting Chief, Compacts and Commissions
Support

Mike Hill, PG

Licensed Professional Geologist

James Horton, EIT

Chief, Water Use and Planning Section

Agenda

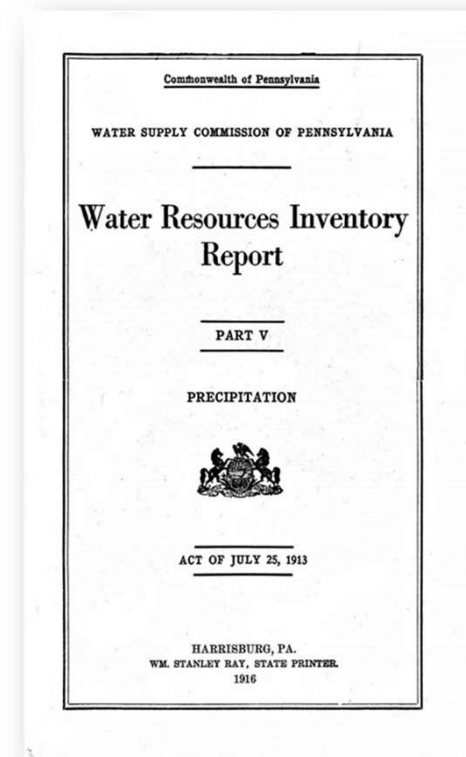
- History of the State Water Plan
- Act 220
- State Water Plan Update 2009
- Current Plan of Action
- Q&A

A Brief History of Water Planning

- Early 20th Century
- Passage of Water Laws (1920s & 1930s)
- Northeastern Droughts 1960s
- 1990s and Early 2000s Droughts

Early 20th Century

- Purity of Waters Act of 1905
- Controlling Water Resources Act of 1913



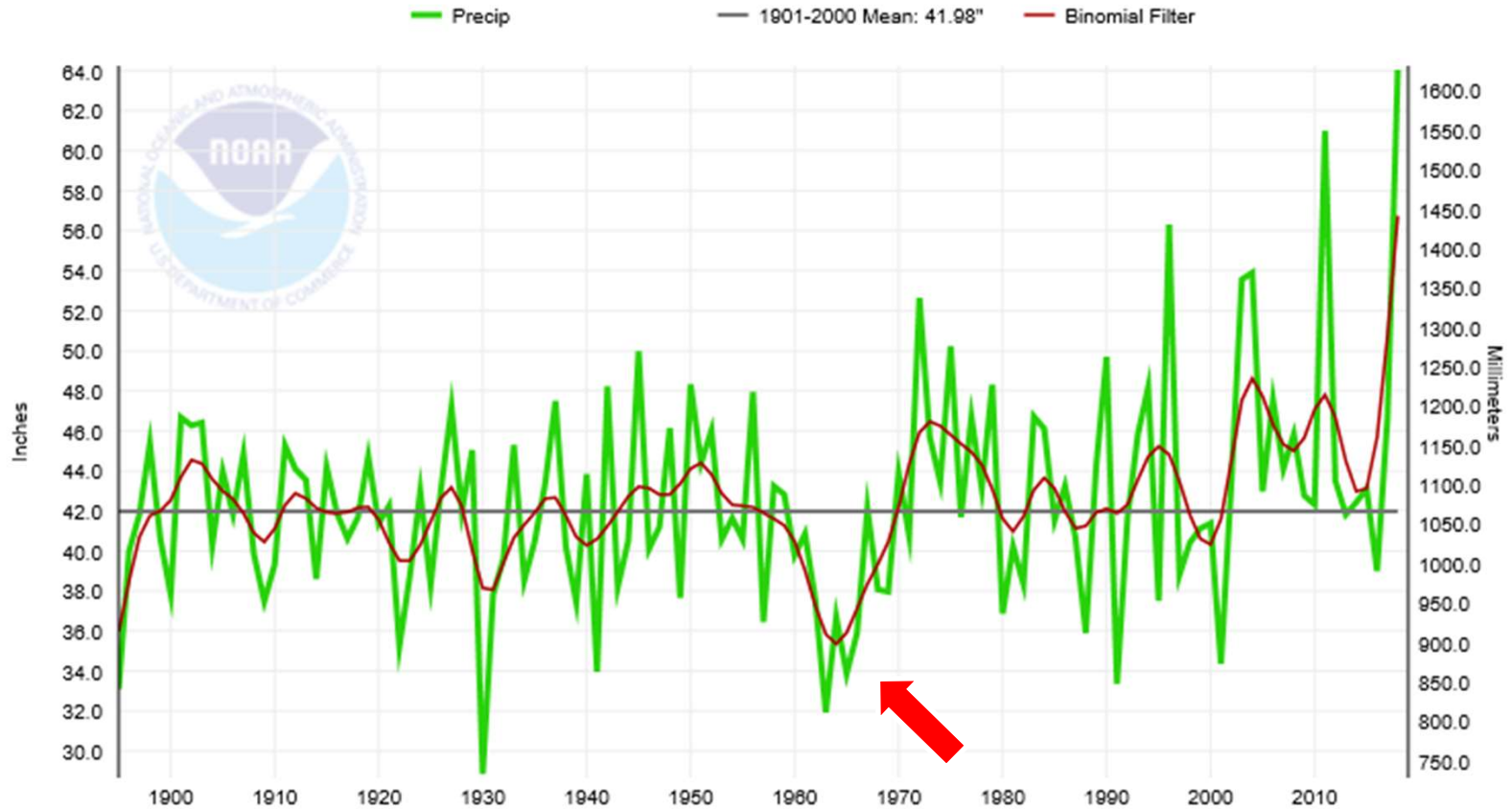
▶ Water Laws Passed (1920s & 1930s)

Including:

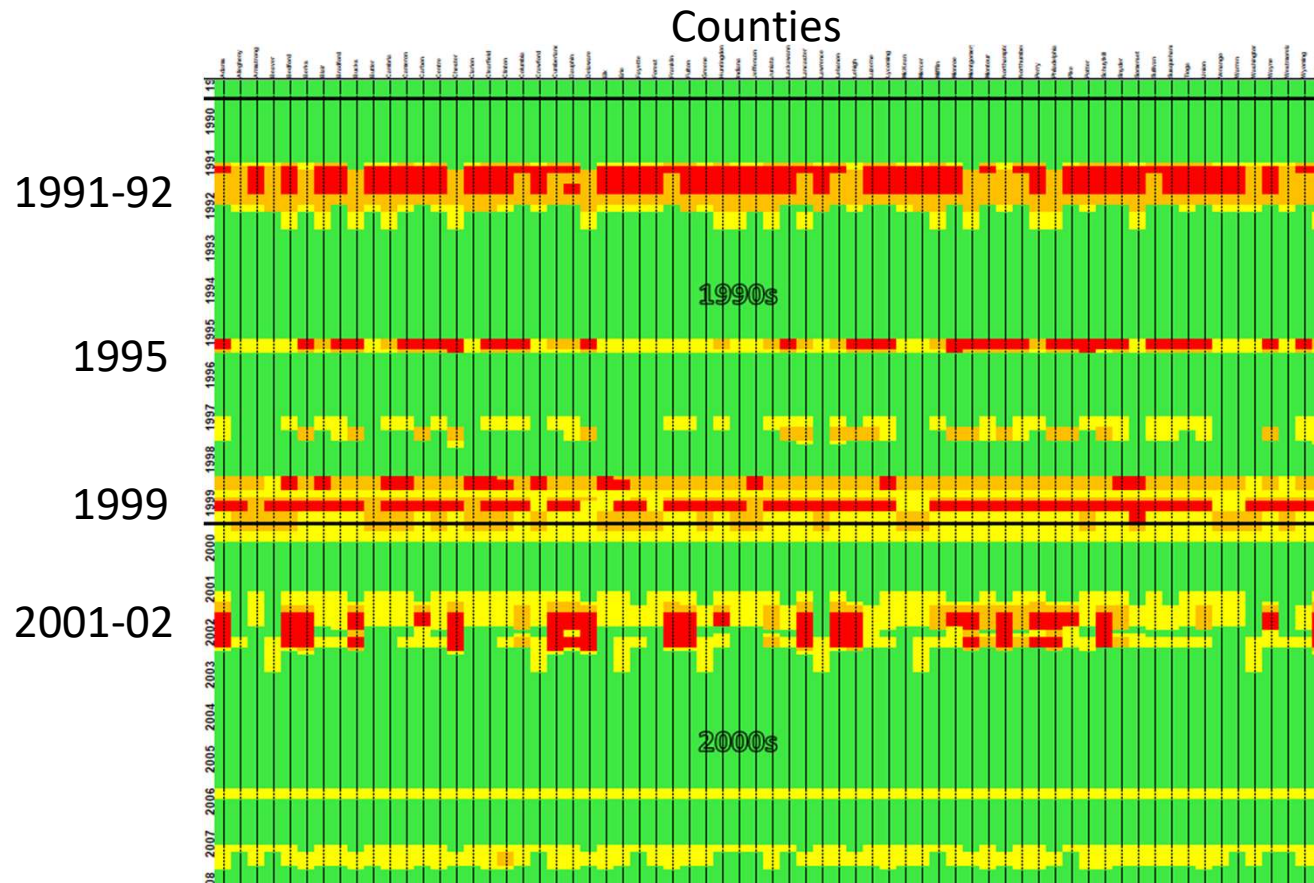
- Limited Permits Act (1923)
- Water Rights Act (1923)
- Water Pollution from Coal Mining Act (1935)
- Flood Control Law (1936)
- Municipal Flood Control Act (1936)
- The Clean Streams Law (1937)

Northeastern Droughts (1960s)

Pennsylvania, Precipitation, January-December



Droughts 1990s and Early 2000s



Act 220 of 2002

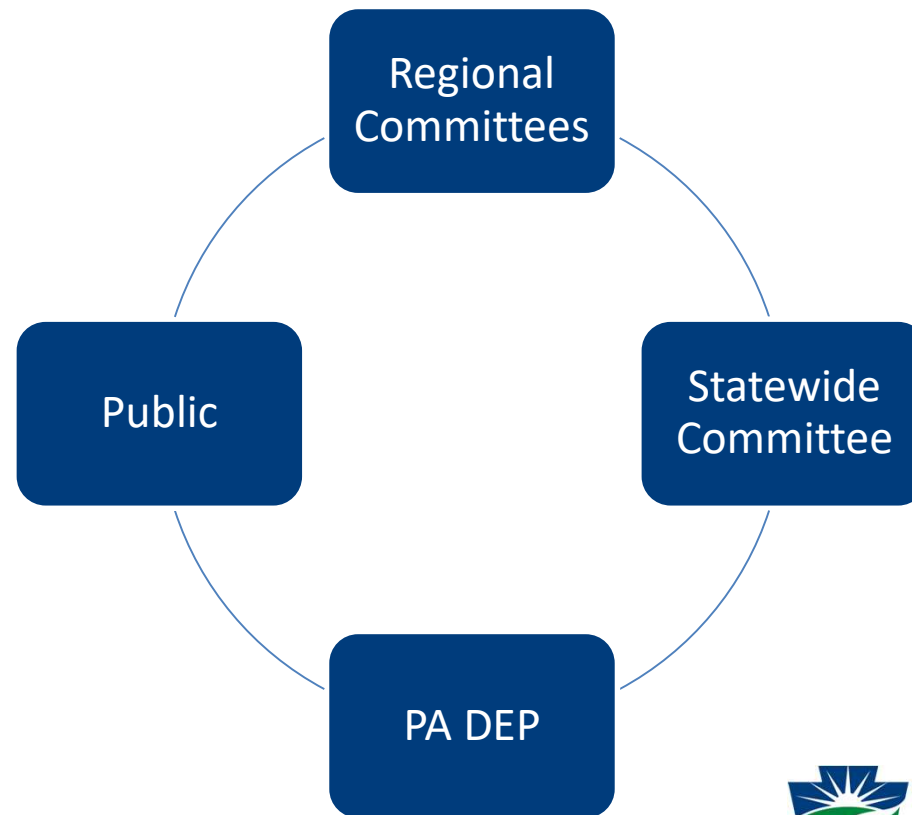
Act 220 was passed as PA was exiting a drought in 2002.

Requires:

- Continual Updates
- Water Use Reporting
- Identify Critical Water Planning Areas (CWPAAs)
- Voluntary Water Conservation Programming

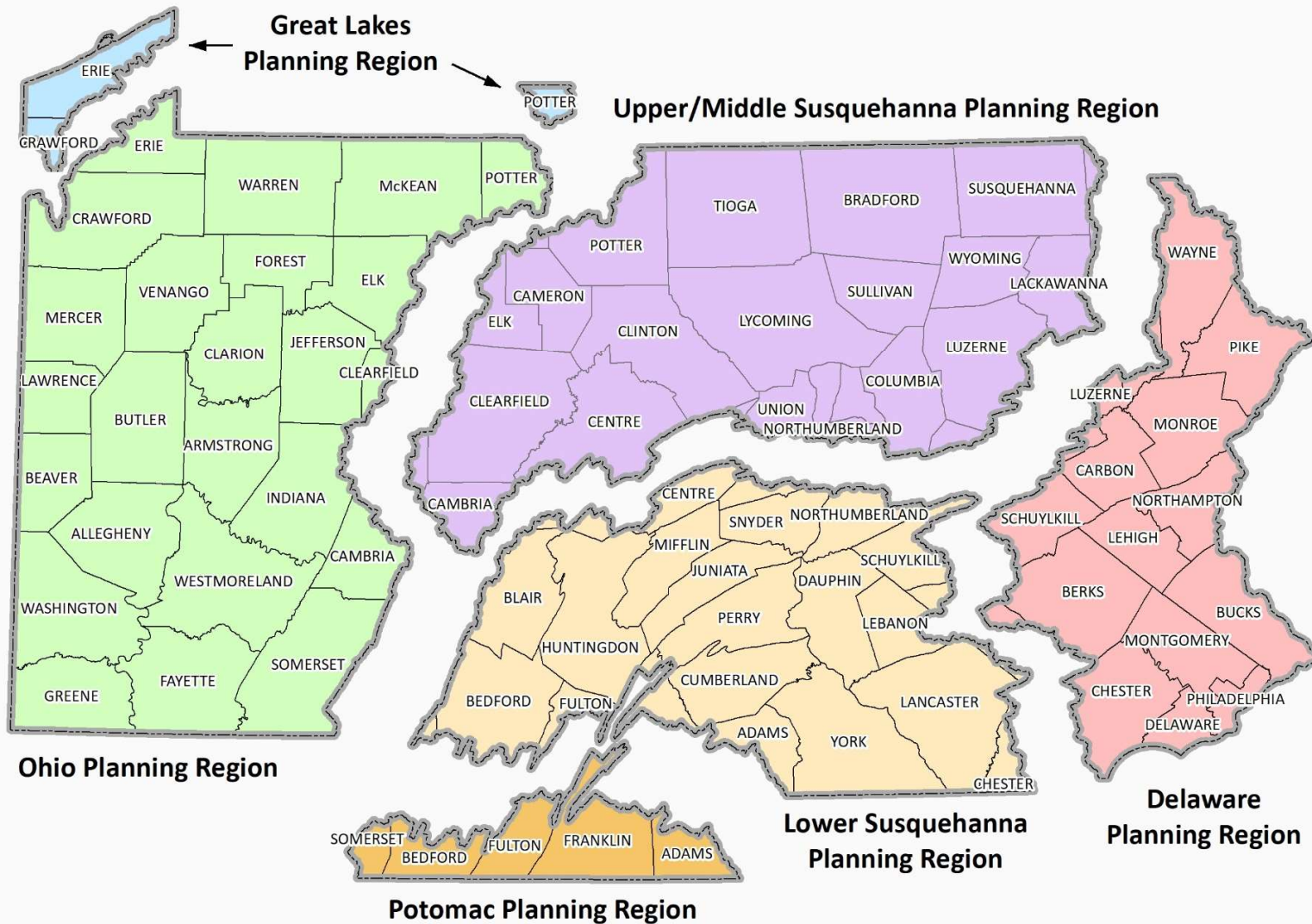
2003-2009 State Water Plan Update

Roles and Responsibilities:



▶ 2003-2009 State Water Plan Update

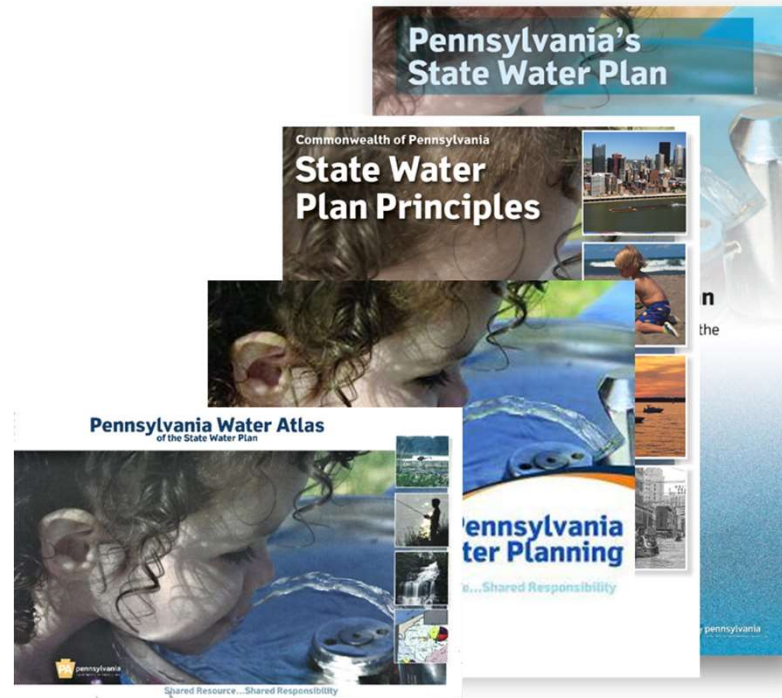
Water Planning Regions:



▶ 2003-2009 State Water Plan Update

Outputs:

- Principles Document
- Marketing “Touchstone Document”
- Water Atlas
- Web-based water use registration and reporting



2009 to Present Day

What DEP Staff have been working on:

- Water Management Plans for Oil and Gas Operations
- Water Use Data System (WUDS) & Greenport
- Water-Use Data and Research (WUDR) Program

Water Management Plans

EQT
Where energy meets innovation.

EQT PRODUCTION COMPANY
625 LIBERTY AVE, SUITE 1700
PITTSBURGH, PA 15222

DEP CLIENT ID#146983

24 HOUR EMERGENCY #
1-800-926-1759

MANAGED WATER WITHDRAWAL LOCATION

Plan Region: SOUTHWEST **Source Number:** 43

Source Name: MONONGAHELA RIVER-DOCK SITE 2

BOROUGH: CENTERVILLE **County:** WASHINGTON

MAX Daily Withdrawal	Peak Withdrawal Rate	Passby Flow Requirement	PADEP Region Phone Number
1389 GPM	2,000,000 GPD	463 CFS	412-442-4024

GreenPort & WUDS

Instructions

You may choose to upload a file of your water with

[Download](#) a CSV file to use as a template

WUDS

MAIN MENU

- [1] [Facility Maintenance](#)
- [2] [Municipality Maintenance](#)
- [3] [Self Monitoring](#)
- [4] [WUDS Access DB](#)
- [5] [Reports](#)
- [6] [Streams Application](#)
- [7] [Facility Archival](#)
- [8] [Exit](#)

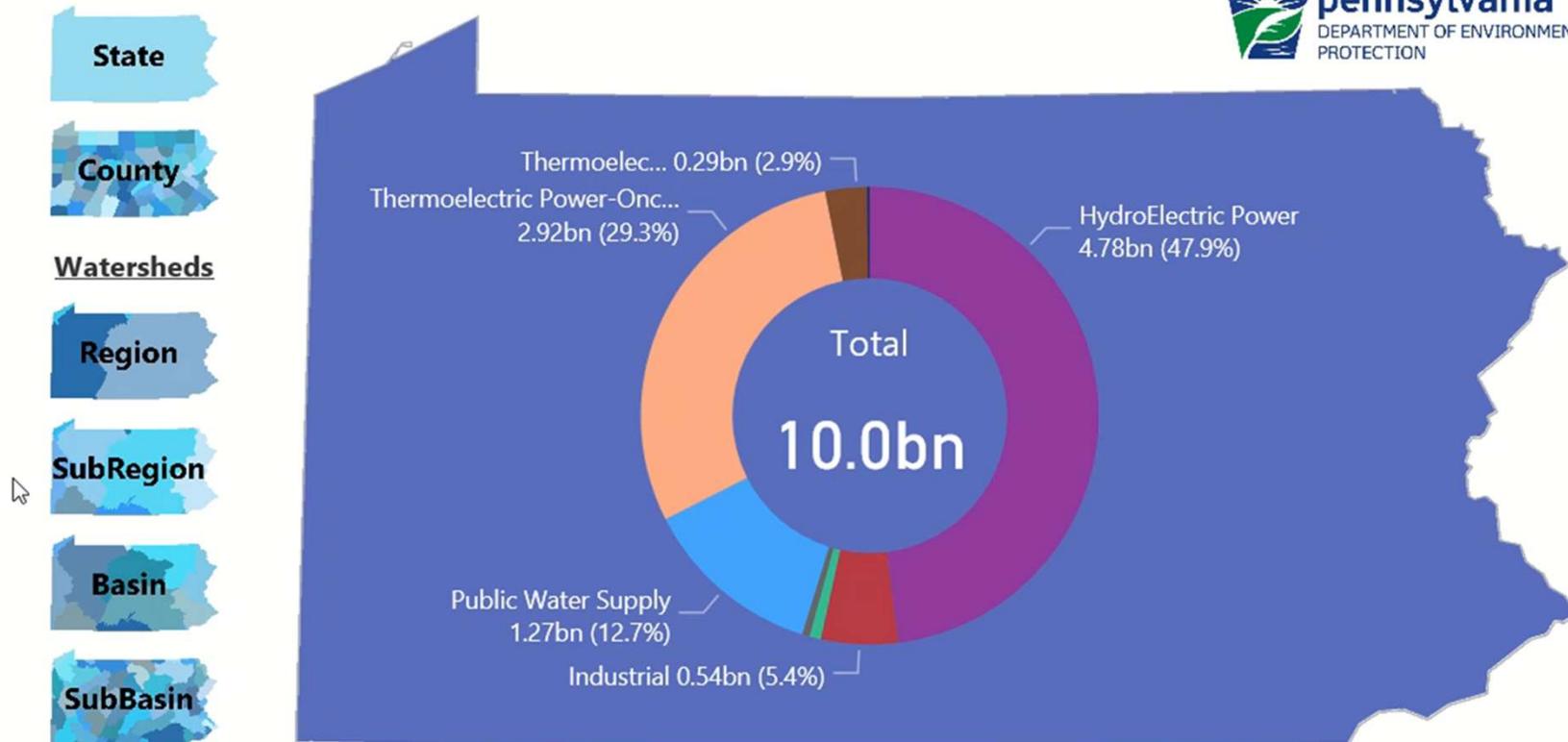
Line	Date	Daily Total Withdrawal(gal)	Daily Total Withdrawal Time (hours)	Instream Flow (cfs)
1	02/01/2017	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	02/02/2017	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	02/03/2017	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	02/04/2017	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	02/05/2017	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	02/06/2017	<input type="text"/>	<input type="text"/>	<input type="text"/>
7	02/07/2017	<input type="text"/>	<input type="text"/>	<input type="text"/>

WUDR Projects

Funding Year	Project	Amount Awarded
2015	Developed Work Plan (completed)	\$26,000
2016	Online water use data sharing website (completed)	\$52,480
2017	QA enhancements to DEPGreenPort (completed)	\$71,461
2018	Conversion of paper registration forms to online forms	\$81,742
2019	Data sharing with SRBC, DRBC, and USGS	\$52,529

Power BI

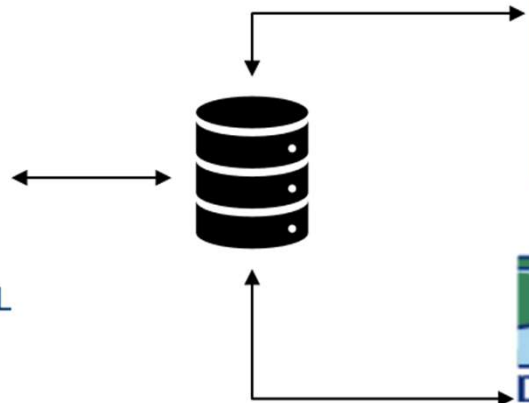
Report Year	SWP Region	Pennsylvania Water Use Withdrawal Summary	Water Use Type
2018 ▾	All ▾		All



All values shown in gallons per day unless otherwise specified. HydroElectric Power includes only "off-stream use".



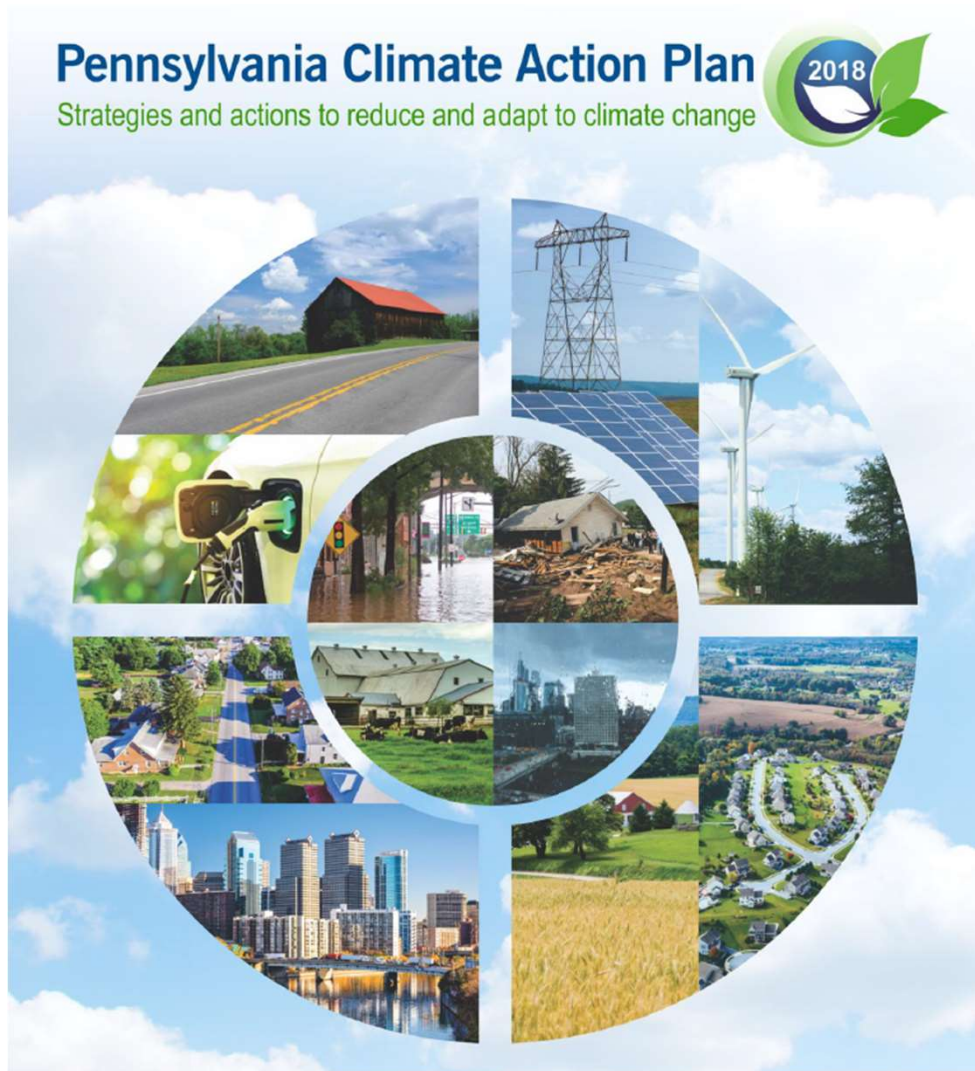
▶ Data Sharing with River Basin Commissions



Current State Water Plan Update

- Primary Objectives/Deliverables:
 - A reviewed and updated State Water Plan
 - Approved and adopted Critical Area Resource Plans (CARPs) in Potomac and Ohio planning areas
 - Enhanced web-based applications and tools
 - Incorporate relevant elements of the 2018 and 2021 Pennsylvania Climate Action Plans

Implement Climate Actions



Water resources strategies outlined in the 2018 Governor's Climate Action Plan:

14. Use Stormwater Best Management Practices
15. Promote integrated water resources management and water conservation

Implement Climate Actions

- Adaptation Opportunities to Impacts of Climate Change
 - Impacts of increasing heat and flooding on
 - Health
 - Overburdened and vulnerable populations
 - Forests, ecosystems, and wildlife
 - Impacts of warmer and wetter climate on agriculture
 - Impacts of flooding on built infrastructure

Example Climate Action Plan

- Review of activities at all levels: federal, state, regional, local, private as well as public sector
- Consideration of variations between regional and statewide levels
- Identify strategies/tasks to be explored
- Identify multisector collaboration towards implementation of strategies
- Consider tracking progress through Key Performance Indicators

SWP Update and Workplan

- Secondary Objectives/Deliverables:
 - A long-term work plan and funding model
 - Legislative, regulatory, policy or programmatic changes

Three-Year Workplan

Regional and
Statewide Meetings;
Public Input

• Q1-Q4 2020

Public Meetings;
Work Groups
Assembled, Regional
Components
Drafted

• Q1-Q4 2021

Public Review;
Recommendations;
Approvals

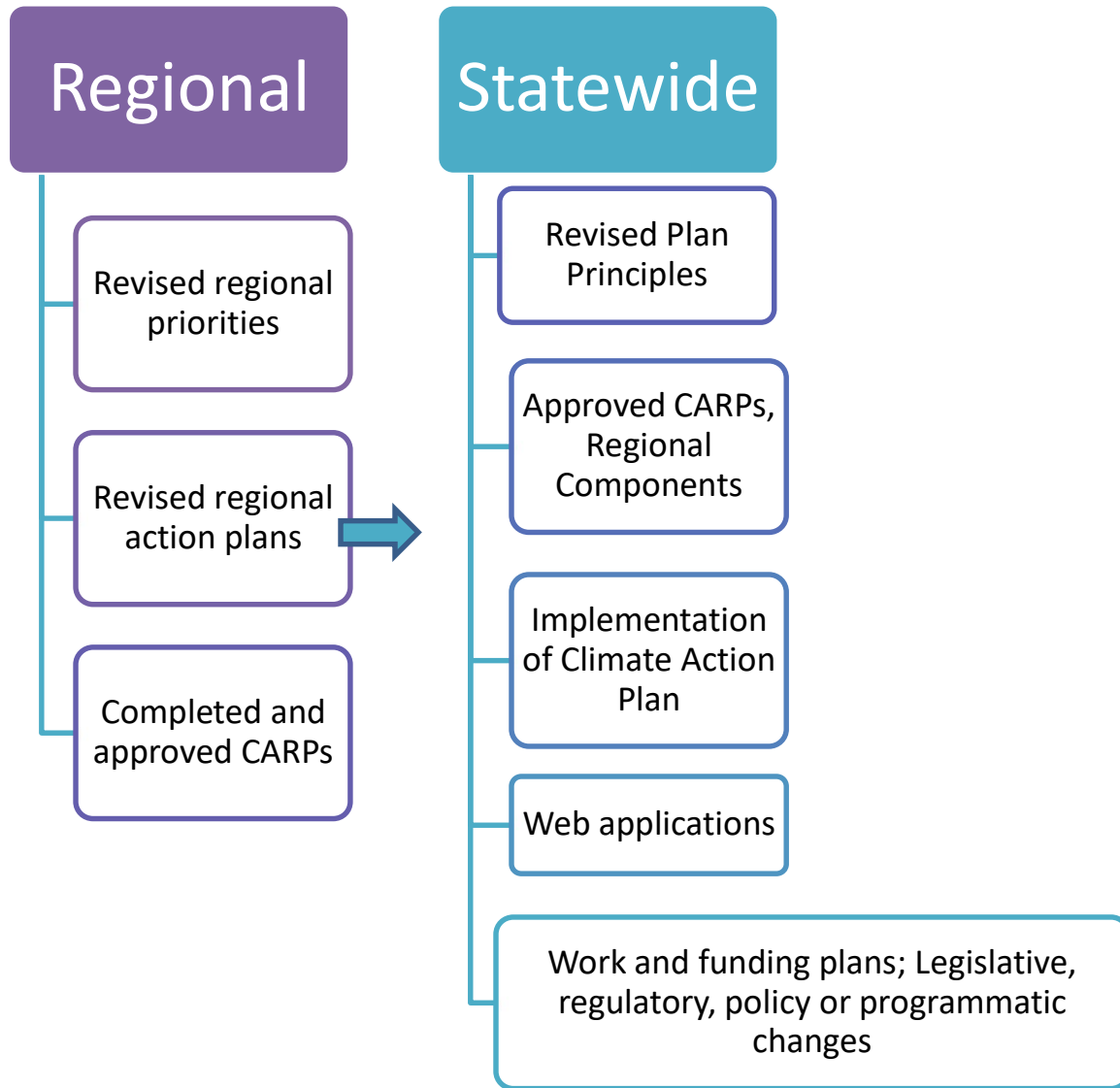
• Q1-Q4 2022



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Outcome of Review and Update



▶ Pennsylvania Clean Water Academy



Want to Learn More?

Visit the Clean Water Academy at:

<https://pacleanwateracademy.remote-learner.net/>

■ FEATURED COURSES AND LINKS





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