



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION



Planning and Conservation Division

The State Water Plan

Water Resources Advisory Committee
May 28, 2020

DEP Team

Kristina Peacock-Jones, PE

Mark Matlock, EIT

Mike Hill, PG

James Horton, EIT

Dave Jostenski, PE

Chief, Division of Planning & Conservation

Chief, State Water Plan Section

Licensed Professional Geologist

Senior Civil Engineer

Water Program Specialist

Agenda

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

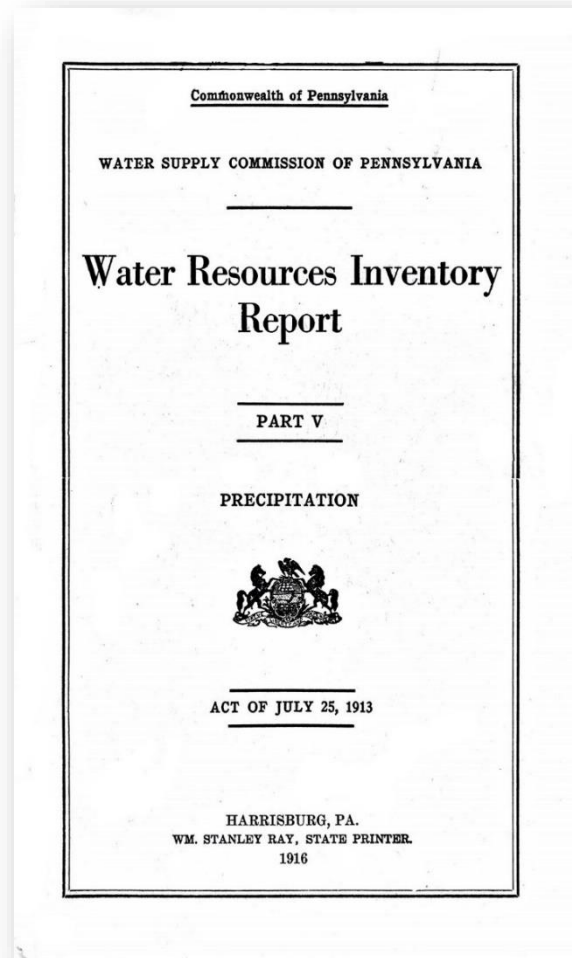
A Brief History of Water Planning

- 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

Early 20th Century



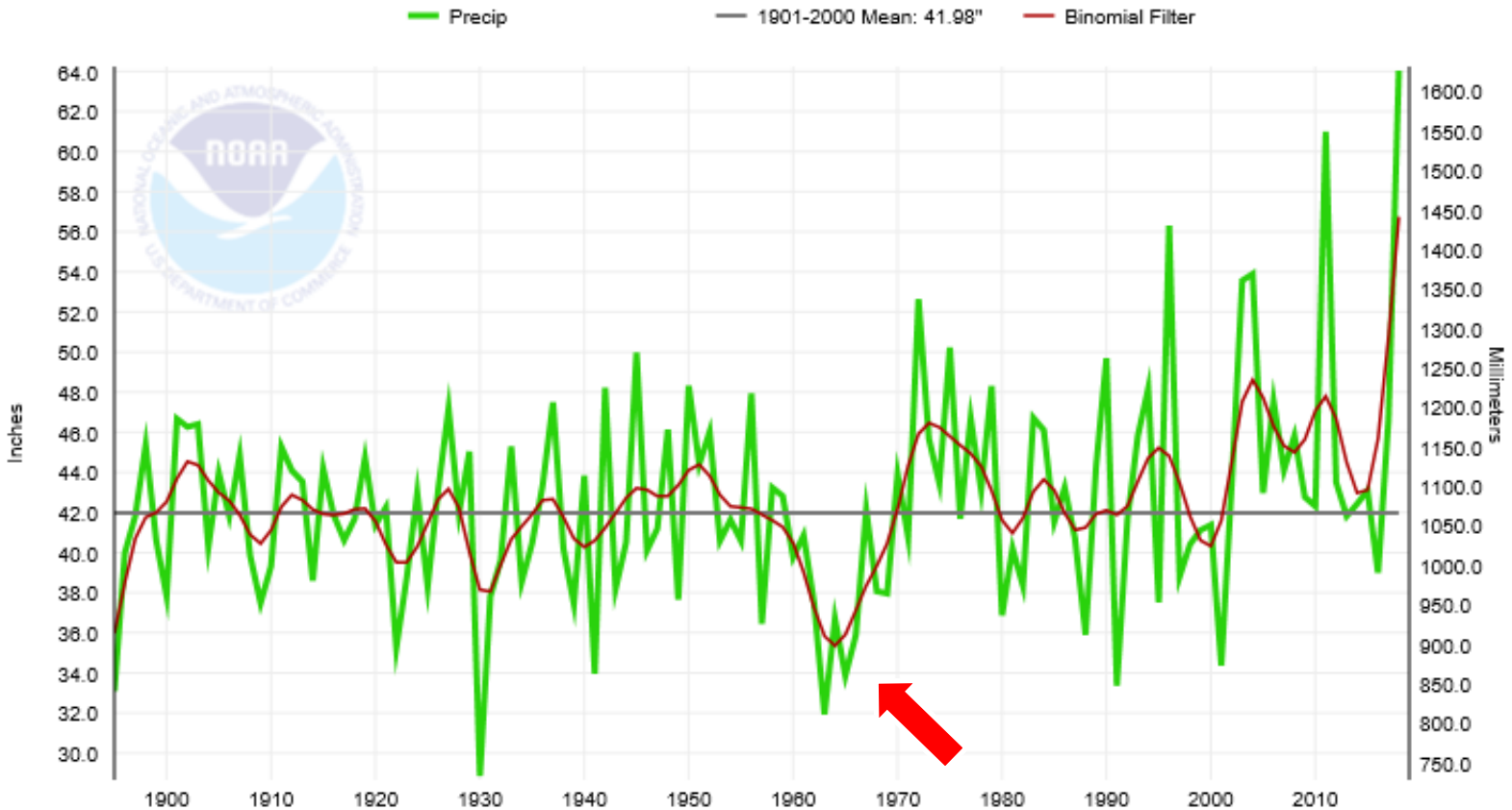
▶ Water Laws Passed (1920s & 1930s)

Including:

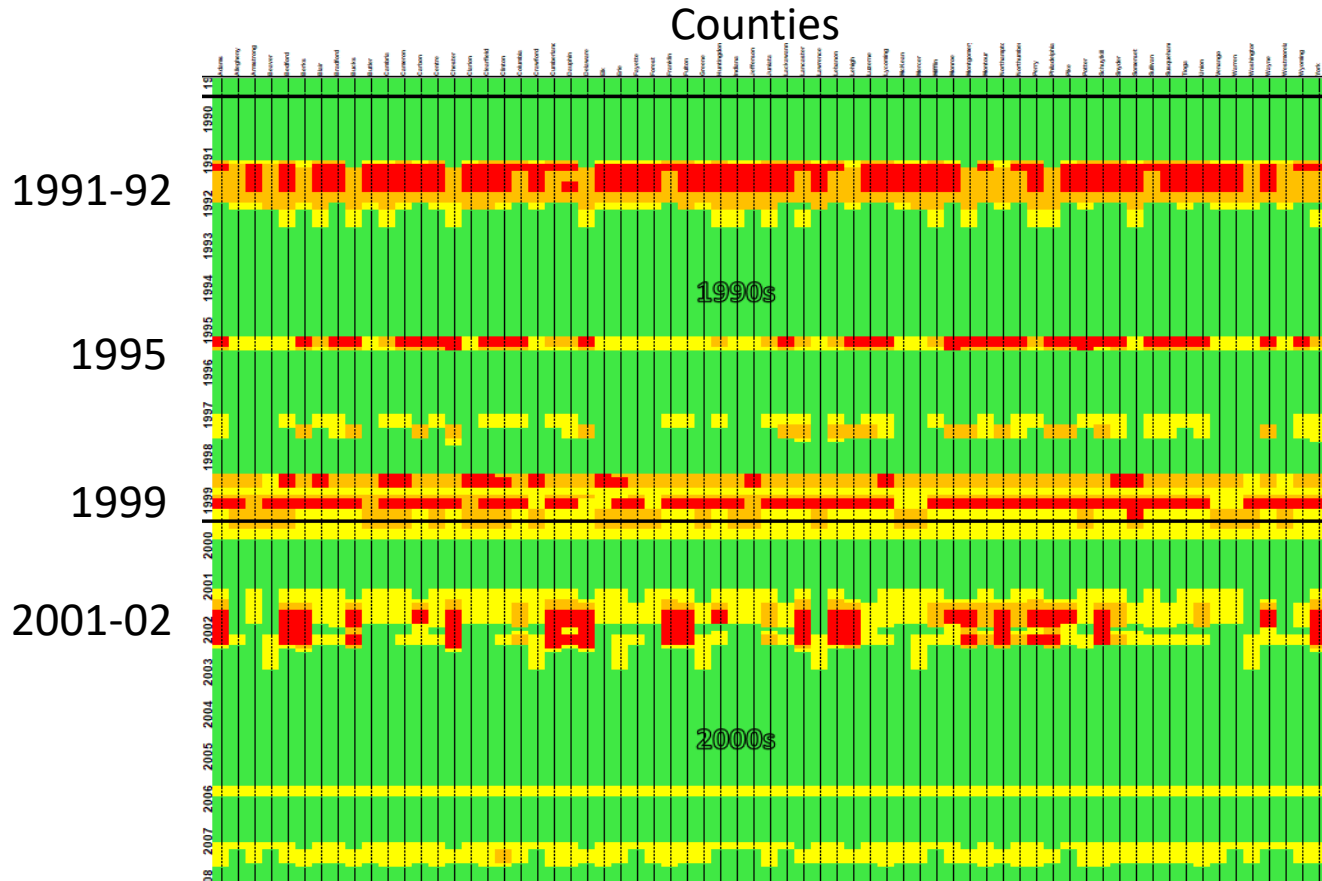
- Limited Permits Act (1923)
- Water Rights Act (1923)
- Water Pollution from Coal Mining Act (1935)
- Flood Control Law (1936)
- Municipal Flood Control Act (1936)
- The Clean Streams Law (1937)

Northeastern Droughts (1960s)

Pennsylvania, Precipitation, January-December



1990s and Early 2000s



Act 220

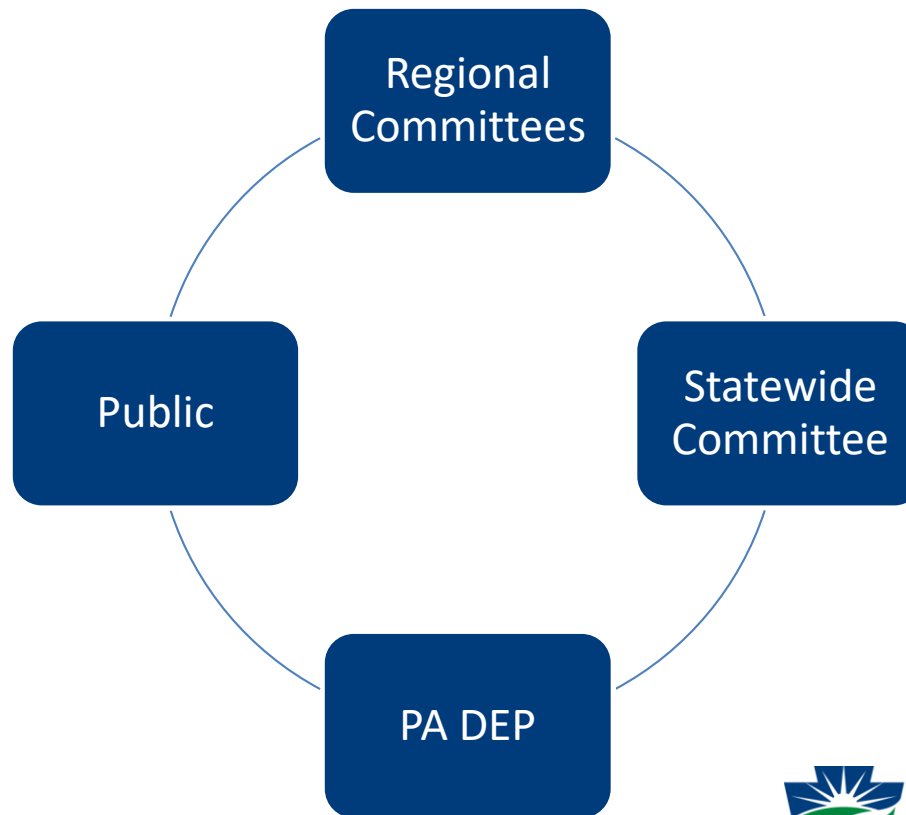
Act 220 was passed as PA was exiting a drought in 2002.

Requires:

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

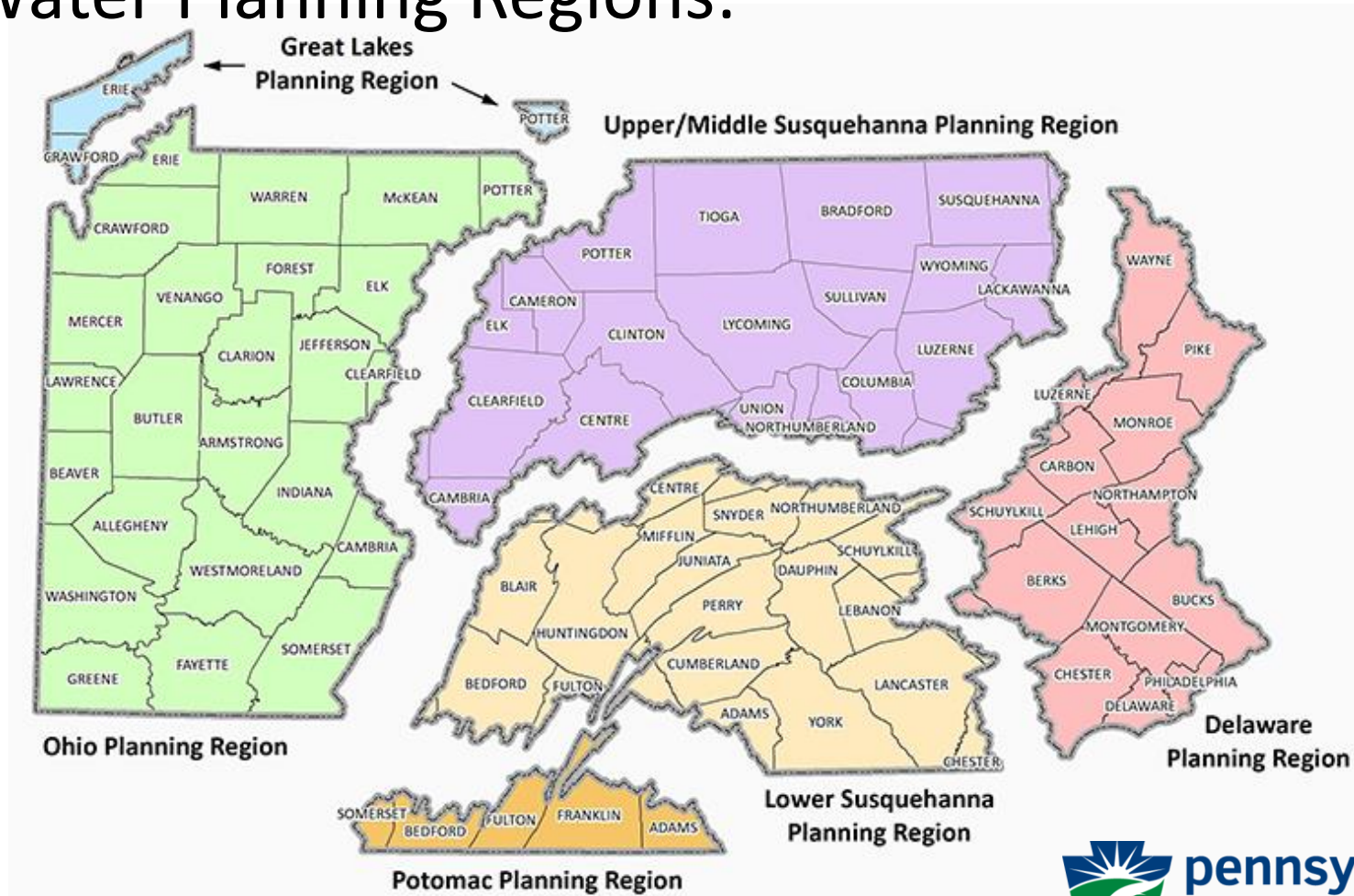
2003 – 2009 Plan Update

Roles and Responsibilities:



2003 – 2009 Plan Update

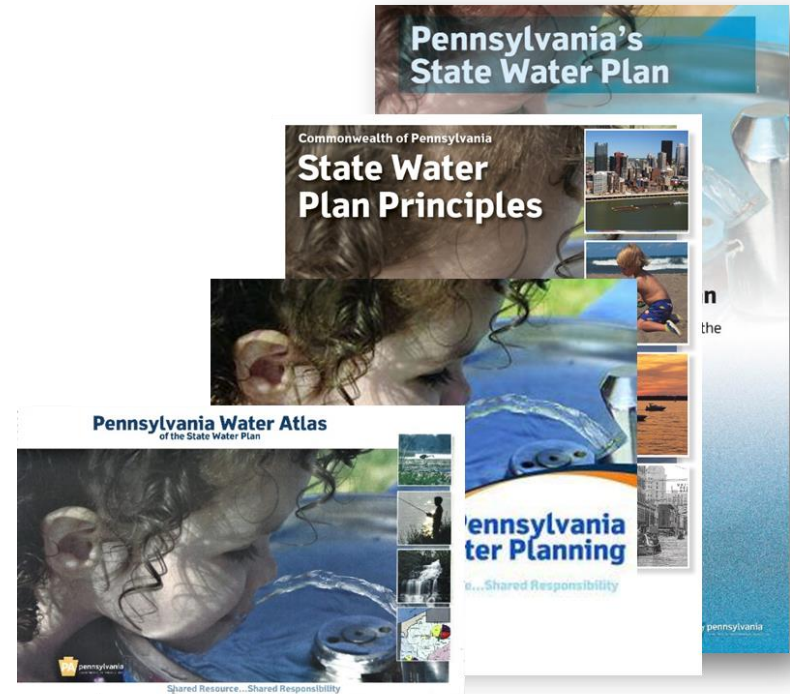
Water Planning Regions:



2003 – 2009 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
- WUDS & Greenport
- WUDR Programs

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

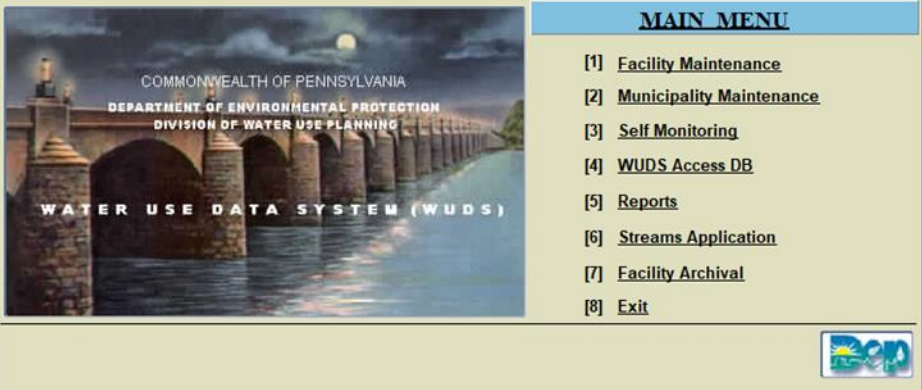
Greenport & WUDS

Instructions

You may choose to upload a file of your water with

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

WUDS



The screenshot shows the WUDS main menu. On the left is a banner image of a stone bridge over a river with the text: COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF WATER USE PLANNING, WATER USE DATA SYSTEM (WUDS). On the right is a 'MAIN MENU' with the following items: [1] Facility Maintenance, [2] Municipality Maintenance, [3] Self Monitoring, [4] WUDS Access DB, [5] Reports, [6] Streams Application, [7] Facility Archival, [8] Exit. A small logo is in the bottom right corner of the menu area.

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

WUDR Projects

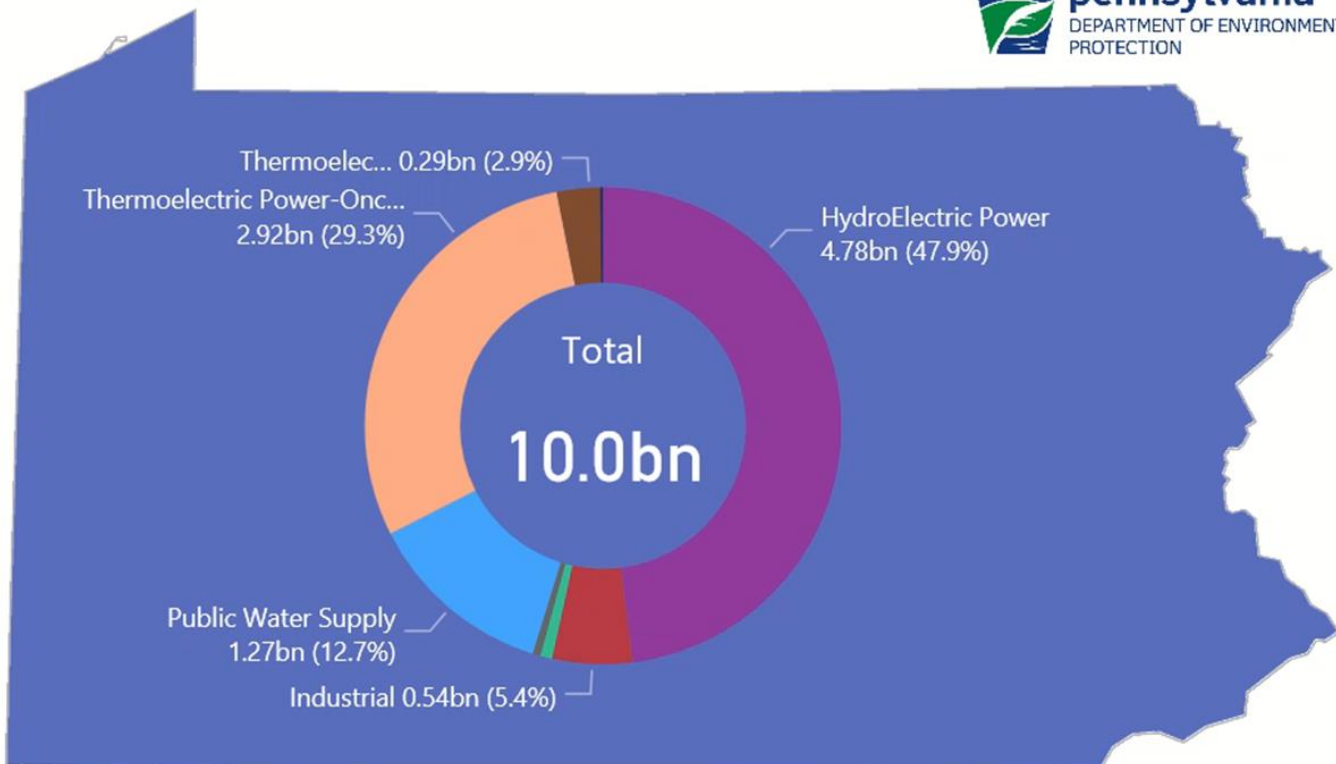
Funding Year	Project	Amount Awarded
2015	Developed Work Plan (completed)	\$26,000
2016	Online water use data sharing website (completed)	\$52,480
2017	QA enhancements to DEPGreenPort (completed)	\$71,461
2018	Conversion of paper registration forms to online forms	\$81,742
2019	Data sharing with SRBC,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

Power BI

Report Year	SWP Region	Pennsylvania Water Use Withdrawal Summary	Water Use Type
2018 <input type="button" value="v"/>	All <input type="button" value="v"/>		All <input type="button" value="v"/>



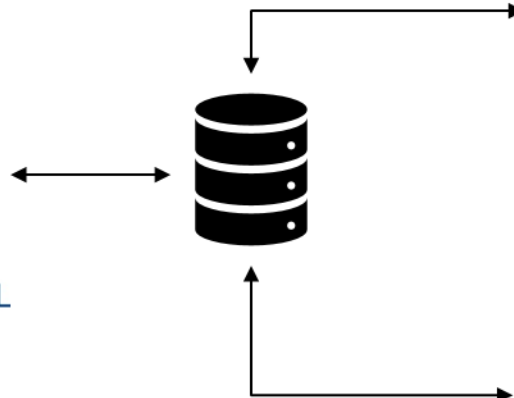
- State
- County
- Watersheds
- Region
- SubRegion
- Basin
- SubBasin



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



Data Sharing with River Basins



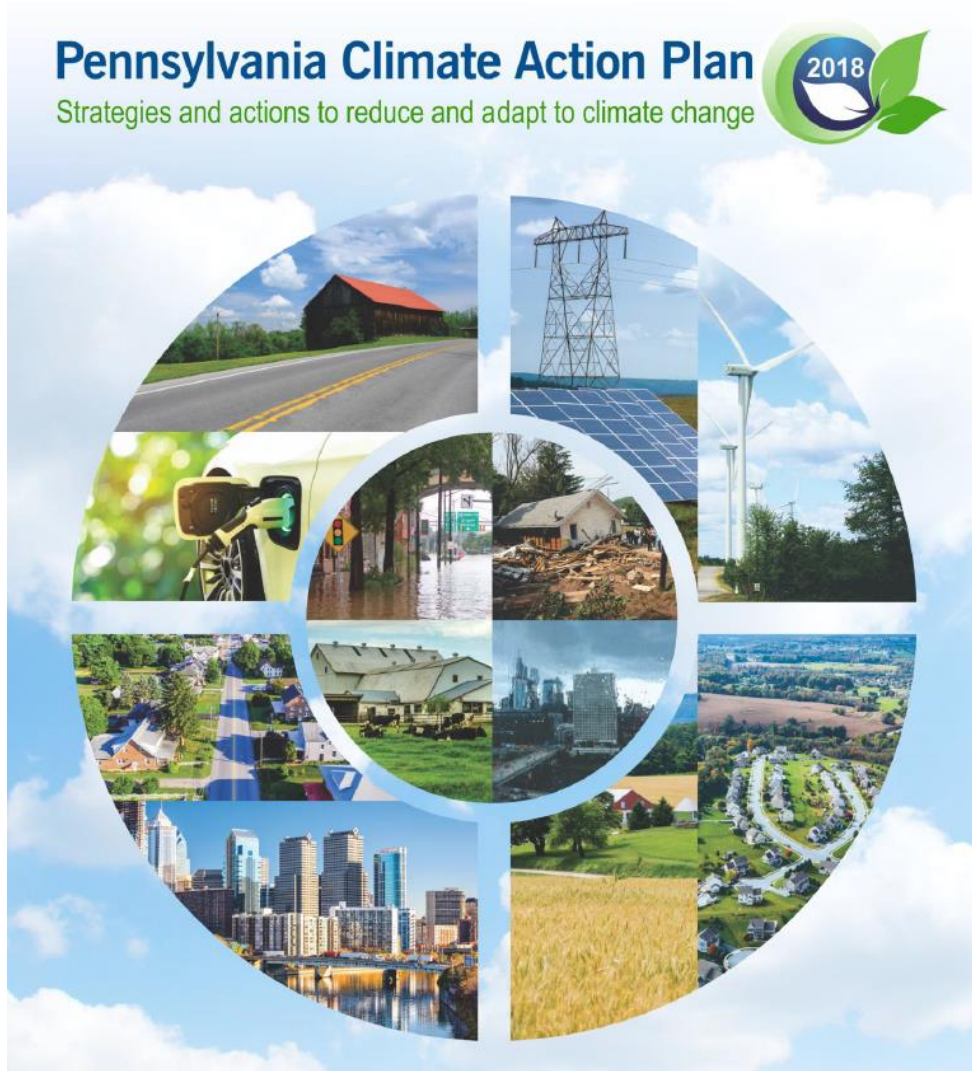
Present Water Plan

- 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
 - 2018 Governor's Climate Action Plan

Implement Climate Actions

Pennsylvania Climate Action Plan

Strategies and actions to reduce and adapt to climate change



Water resources strategies outlined in the 2018 Pennsylvania Climate Action Plan:

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

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 and funding model
 - Legislative, regulatory, policy or programmatic changes

Two Year Workplan

Regional and
Statewide
Meetings; Public
Input

- Q1-Q4 2020

Public Meetings;
Regional
Components
Drafted

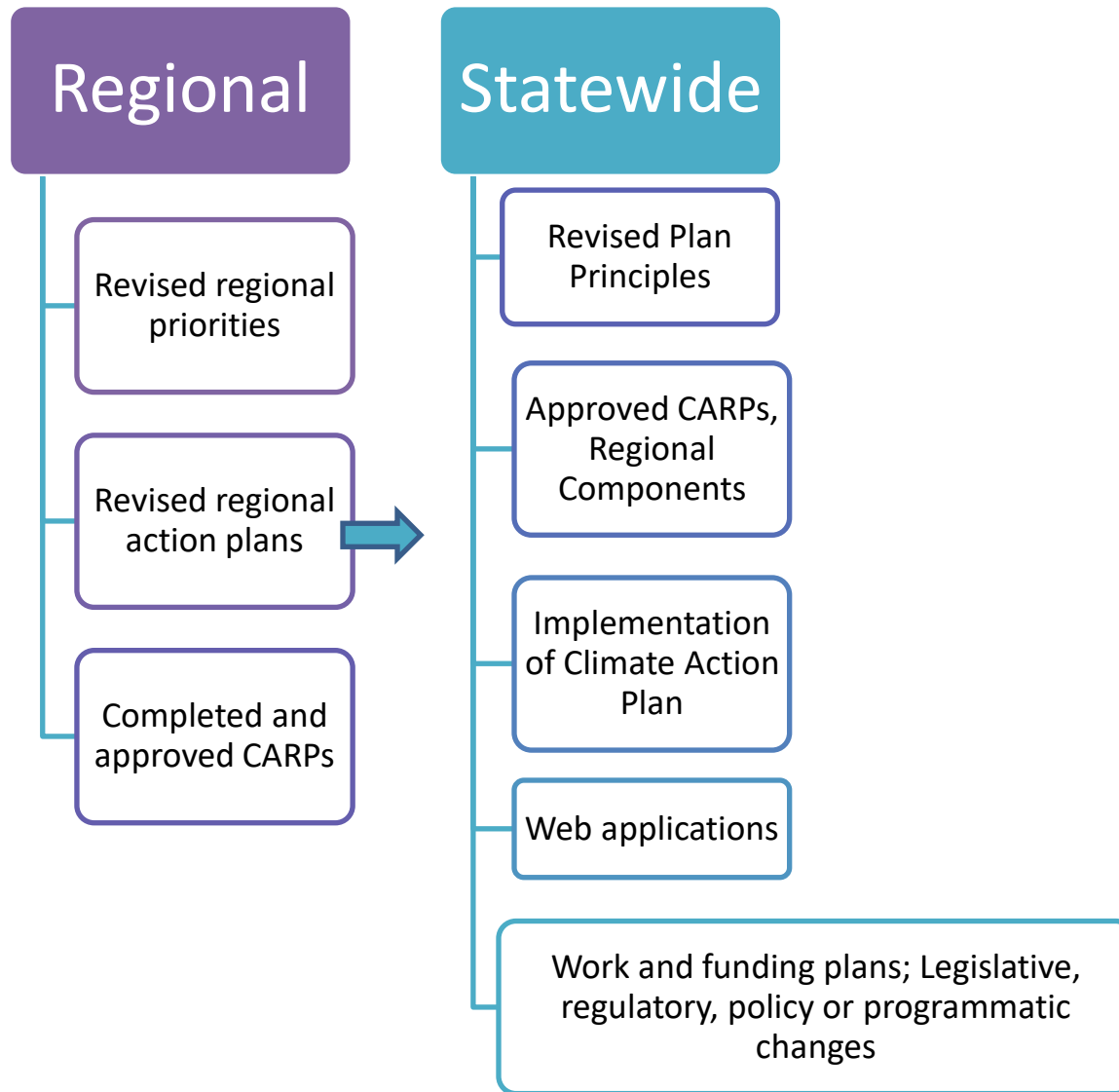
- Q1-Q2 2021

Public Review;
Recommendations;
Approvals

- Q3-Q4 2021
- Q1-Q2 2022



Outcome of Review and Update



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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Contact Information

Mark Matlock

marmatlock@pa.gov or

RA-statewaterplan@pa.gov

(717) 783-2285