

SOURCE WATER PROTECTION ASSISTANCE THROUGH THE CLEAN WATER AND DRINKING WATER STATE REVOLVING FUNDS (FY2014-2020)

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AGENDA

- Source Water Protection 101
- Source Water Protection Eligibilities Supported by the SRFs
- Available Funding - Bipartisan Infrastructure Law
- Clean Water State Revolving Fund Analysis
- Drinking Water State Revolving Fund Set-Asides Analysis
- Conclusion & Discussion

WHAT IS SOURCE WATER PROTECTION?

- Part of a multi-barrier approach to clean drinking water
- Primarily voluntary
- Coordination across environmental programs
- Watershed investment program



Photo courtesy of Strafford Rivers Conservancy

SOURCE WATER PROTECTION ELIGIBILITIES SUPPORTED BY THE STATE REVOLVING FUNDS

CLEAN WATER STATE REVOLVING FUND AND SOURCE WATER PROTECTION

- **1987- Amendments to Clean Water Act**
(40 CFR Part 35.3115)
- **2014- Water Resources Reform and Development Act**
(33 USC 1383)

Eligibilities Related to Source Water Protection

- Development and/or update of source water protection plans
- Land conservation
- Agricultural best management practices
- Septic tank repair/replacement
- Shoreline/riparian buffers
- Wildfire risk management
- Habitat restoration
- Stormwater management
- Contaminated site clean-up
- Remediation or prevention of contamination from resource extraction sites
- Outreach and education

DRINKING WATER STATE REVOLVING FUND SET-ASIDES AND SOURCE WATER PROTECTION ELIGIBILITIES

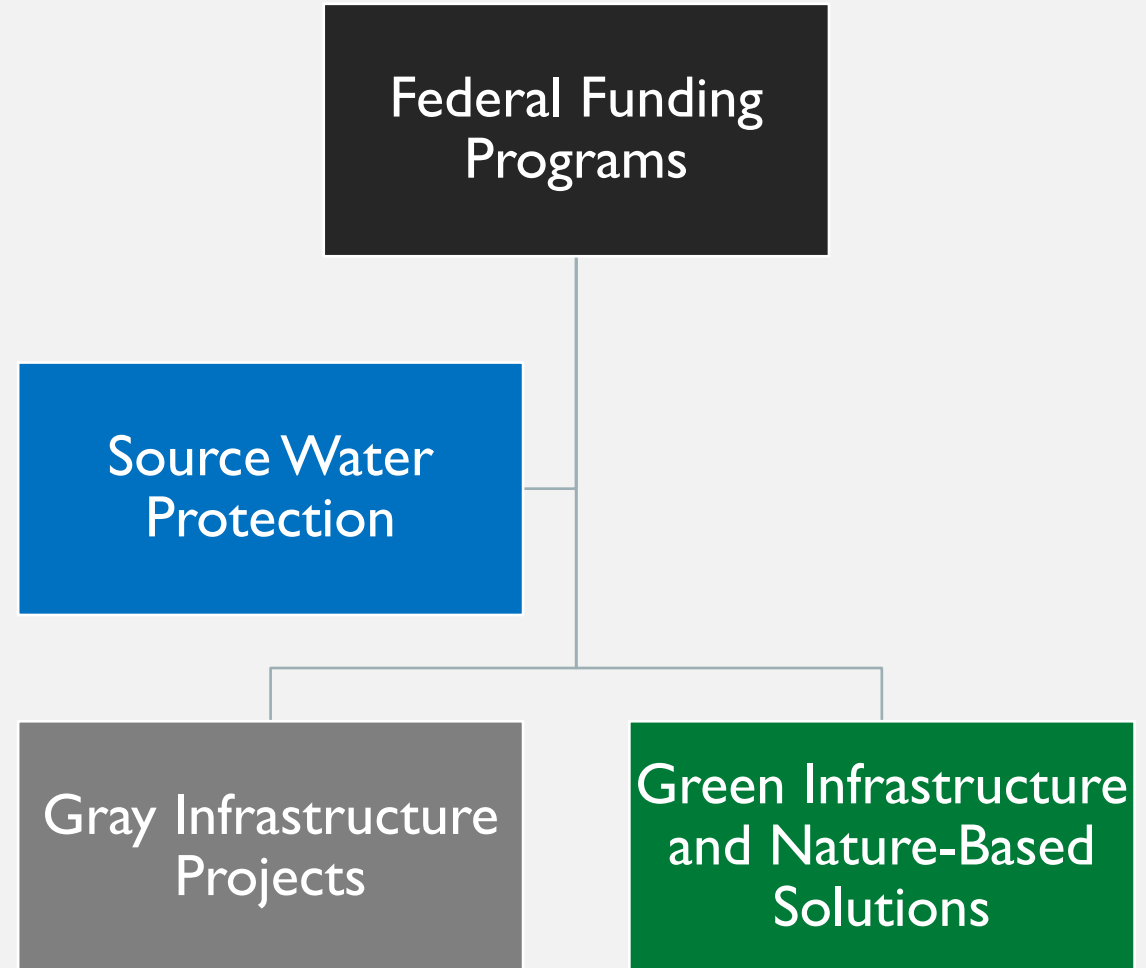
Set-Aside	Eligibilities	Activities
State Program Management (10%)	Source Water Protection (SWP) Technical Assistance	<ul style="list-style-type: none"> • Fund Source Water Coordinators, Hydrogeologists, and other drinking water professionals • Source water protection activities
Local Assistance and Other State Programs (15%)	<ul style="list-style-type: none"> • Loans to public water systems (PWSs) for SWP Land Acquisition/Conservation Easements • Loans to community water systems for Incentive-Based SWP Measures • SWP Area Delineation/Assessment • Wellhead Protection Programs and SWP activities 	<ul style="list-style-type: none"> • Updating delineations and assessments with GIS • Developing Source Water Protection Plans • Technical Assistance through 3rd parties • Implementation of BMPs • Development of local ordinances • Public outreach and education

ADDITIONAL FUNDING FOR THE SRFS THROUGH THE BIPARTISAN INFRASTRUCTURE LAW (BIL)

Appropriation	FY 2022 (\$)	FY 2023 (\$)	FY 2024 (\$)	FY 2025 (\$)	FY 2026 (\$)	Five Year Total (\$)
CWSRF General Supplemental	1,902,000,000	2,202,000,000	2,403,000,000	2,603,000,000	2,603,000,000	11,713,000,000
CWSRF Emerging Contaminants	100,000,000	225,000,000	225,000,000	225,000,000	225,000,000	1,000,000,000
DWSRF General Supplemental	1,902,000,000	2,202,000,000	2,403,000,000	2,603,000,000	2,603,000,000	11,713,000,000
DWSRF Emerging Contaminants	800,000,000	800,000,000	800,000,000	800,000,000	800,000,000	4,000,000,000
DWSRF Lead Service Line Replacement	3,000,000,000	3,000,000,000	3,000,000,000	3,000,000,000	3,000,000,000	15,000,000,000

PURPOSE OF ANALYSIS

- Understand the benefits to source water provided by the CWSRF and DWSRF
- Identify opportunities for further investment in source water protection through the SRFs
- Understand who benefits from source water protection projects



ANALYSIS OF CLEAN WATER STATE REVOLVING FUND (FY2014-2020)

METHOD I: KEYWORD SEARCH

Perform a keyword search and document source water protection language in CWSRF loan description

- **Source water language:** source water, drink, supply, water source, public water, potable, aquifer, municipal water, community water, groundwater, etc.
- Example:

“The project consists of sampling of existing **drink**ing water wells, drilling and sampling of new monitoring wells to quantify impacts from the existing wastewater treatment facility on **groundwater** resources in the area.”

METHOD 2: DRINKING WATER USE

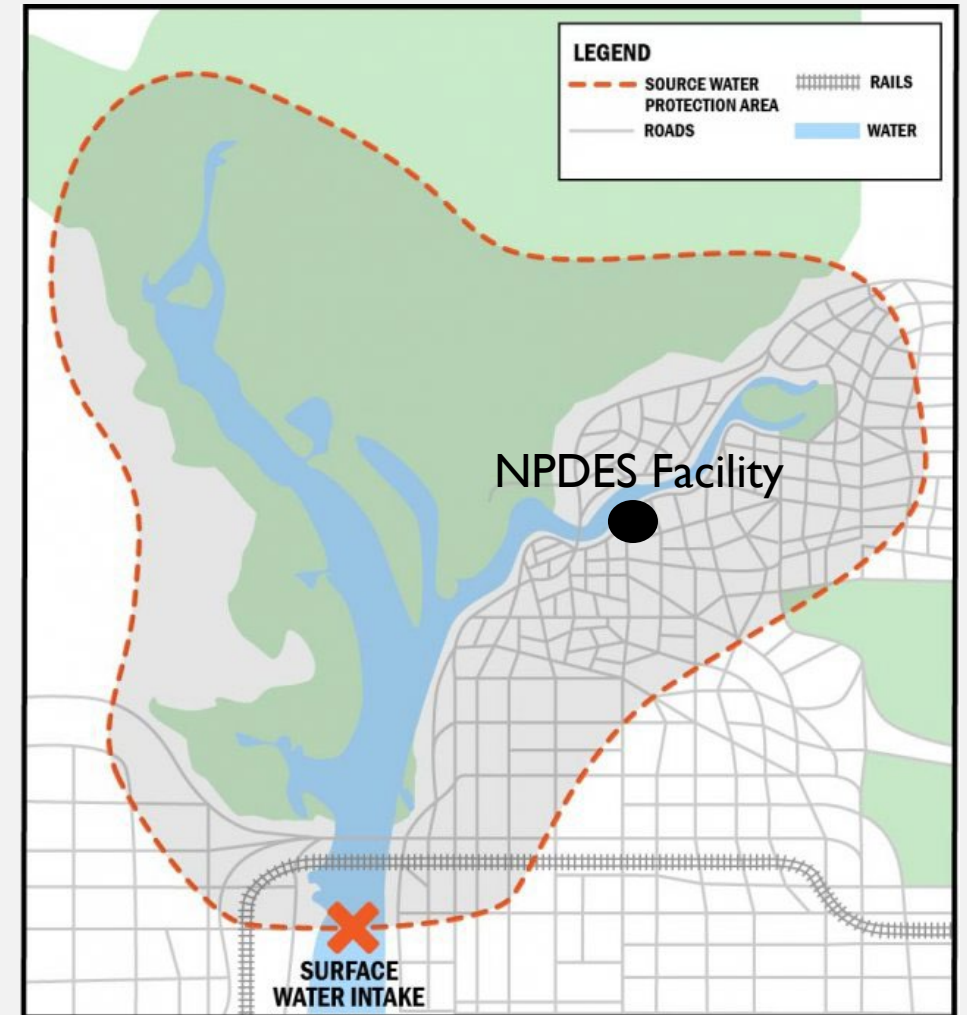
Identify CWSRF loans that impact waterway with designated drinking water use

- **Designated Drinking Water Uses:** public water supply, domestic water supply, potable water supply, water supply IV), water supply (class a).....
- Example state-defined drinking water designated use:
 - “Domestic water supply consists of three use subcategories - public water supply, sole-source surface drinking water supply, and aquifer protection.” (30 Texas Administrative Code § 307.7)

METHOD 3: SPATIAL ANALYSIS

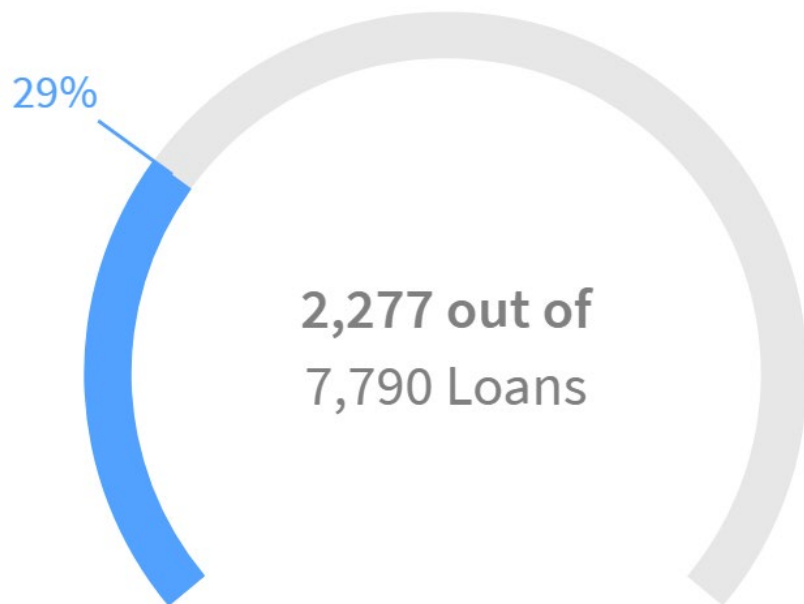
Locate NPDES facilities receiving CWSRF assistance within proximity to drinking water intake or wellhead

- Spatial Analysis:
 - Map NPDES facilities receiving CWSRF assistance
 - Intersect NPDES facilities with surface water protection areas or wellhead protection areas

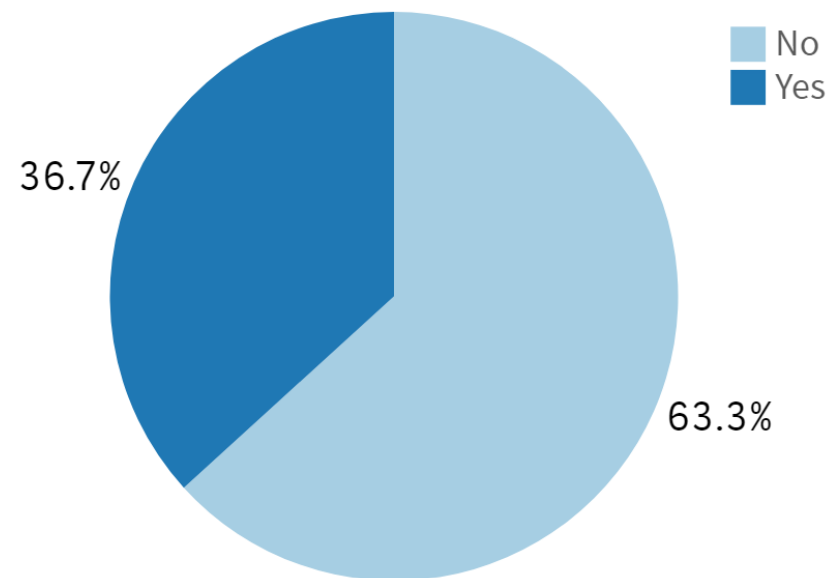


RESULTS OF ALL THREE METHODS: CWSRF LOANS THAT MAY BENEFIT SOURCE WATER (FY2014-2020)

Number of CWSRF Loans that Benefit Source Water

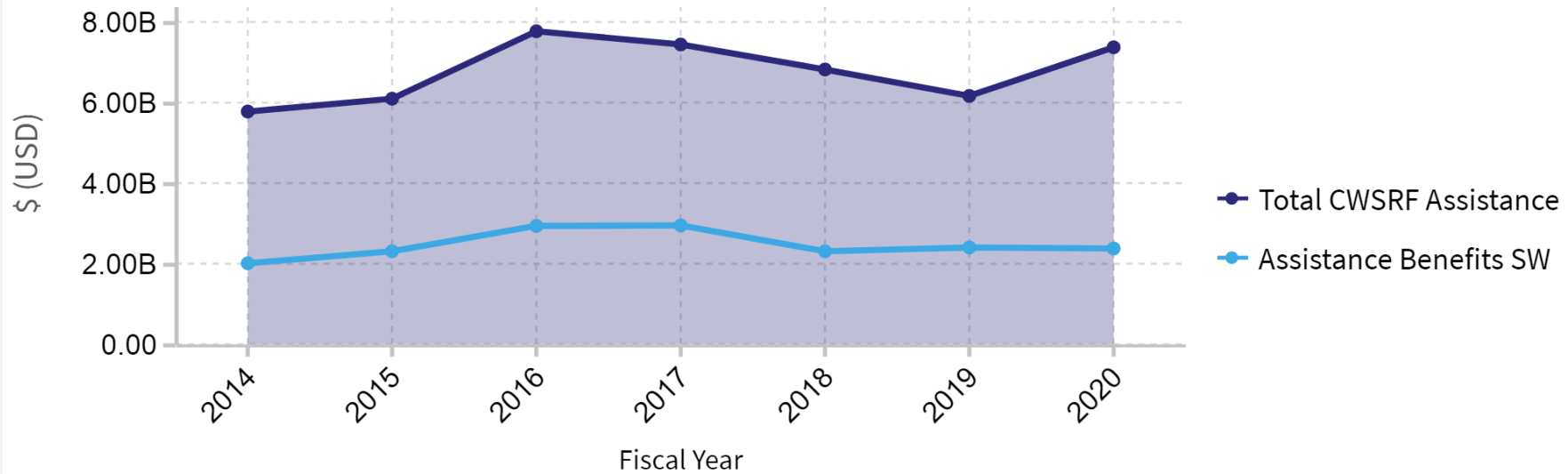
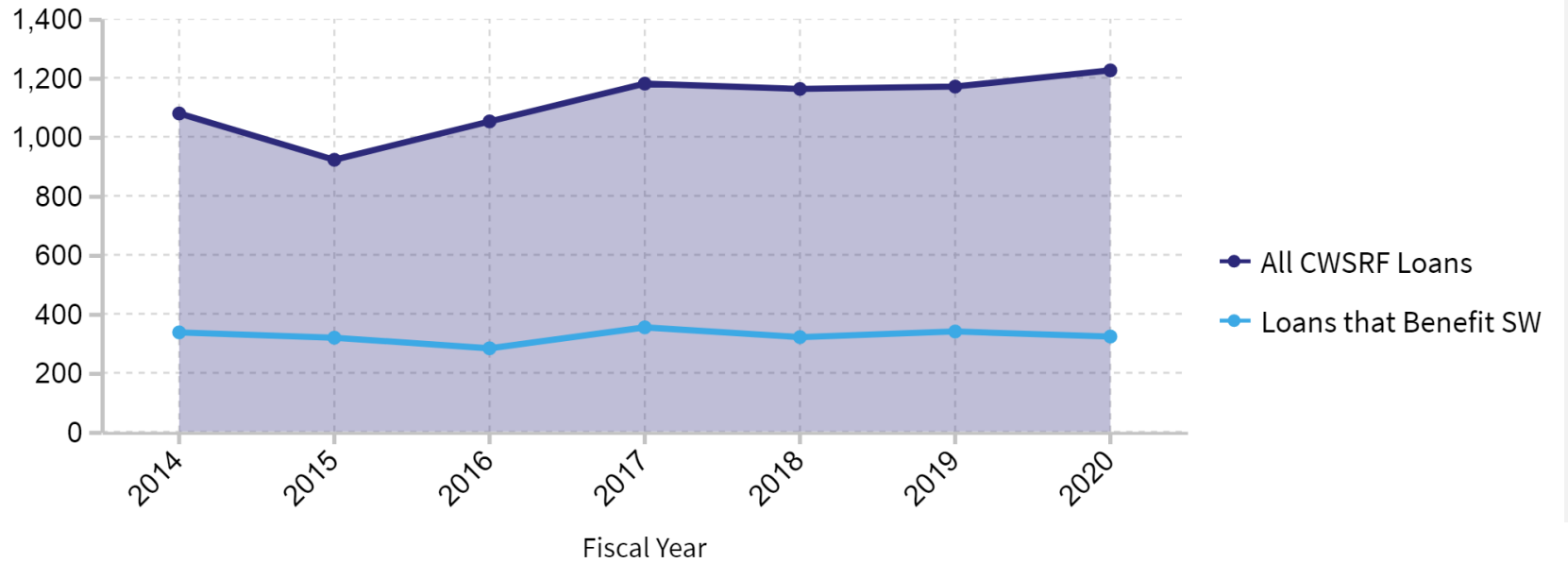


CWSRF Monetary Assistance that Benefits Source Water



Assistance includes federal dollars and matching and revolving funds from each state.

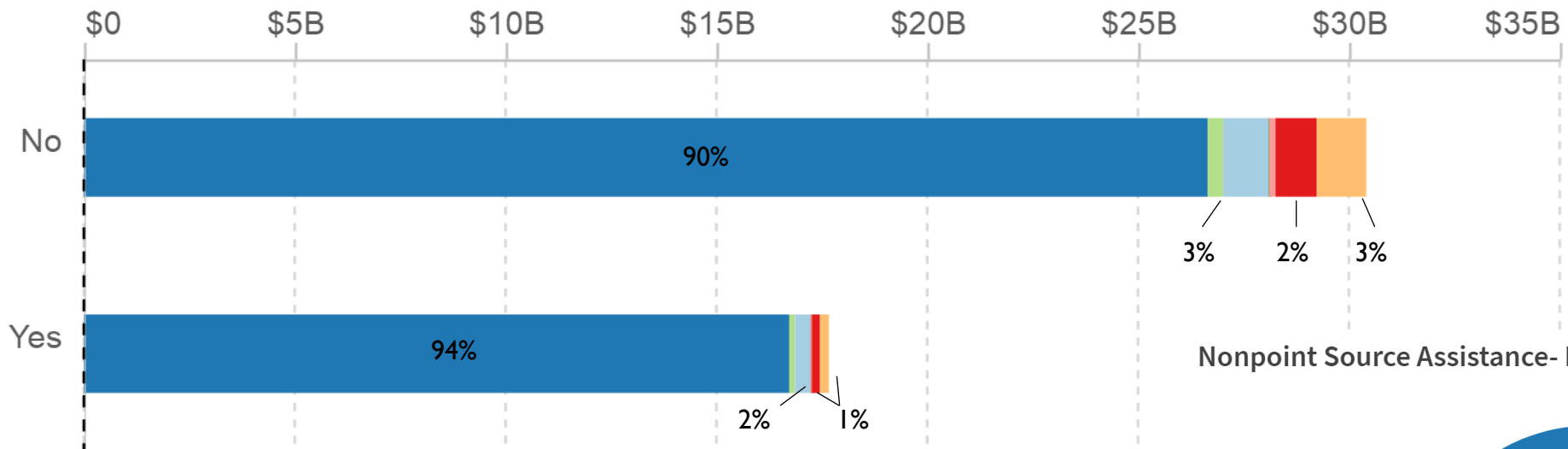
CWSRF LOANS THAT MAY BENEFIT SOURCE WATER



Assistance includes federal dollars and matching and revolving funds from each state.

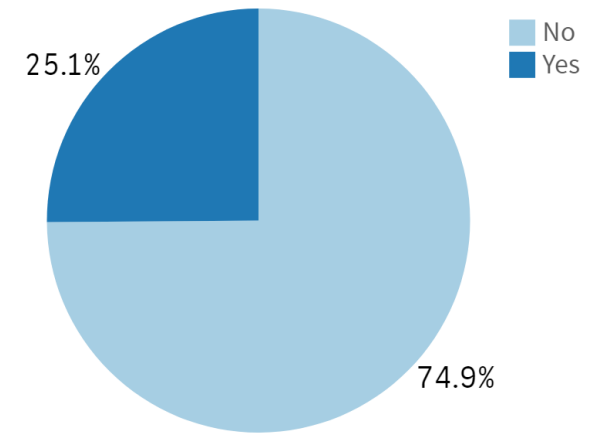
CWSRF ASSISTANCE BY PROJECT CATEGORY (FY2014-2020)

Potentially Benefits SW



- Centralized Wastewater Treatment
- Energy Conservation
- Nonpoint Source
- Other Estuary Assistance
- Other Planning and Assessments
- Stormwater
- Water Conservation

Nonpoint Source Assistance- Benefits Source Water



Assistance includes federal dollars and matching and revolving funds from each state.

48 loans with source water language in description

883 loans that impact a waterway with a designated drinking water use

1,660 loans to NPDES facilities located within source water protection area

Preliminary Analysis

KEY TAKEAWAYS OF CLEAN WATER STATE REVOLVING FUND ANALYSIS (FY2014-2020)

- Approximately 37% of CWSRF assistance (total of \$17.3B) potentially benefits source water
- Number of loans and monetary assistance that potentially benefit source water from year to year has remained stable during study period
- Over 90% of CWSRF loans are traditional gray infrastructure loans regardless of source water benefit
- About 25% of non-point source CWSRF loans are identified as potentially benefitting source water

ANALYSIS OF DRINKING WATER STATE REVOLVING FUND SET-ASIDES (FY2014-2020)

DATA SOURCES & METHODOLOGY FOR ANALYSIS OF DRINKING WATER STATE REVOLVING FUND SET-ASIDES

- [DWSRF National Information Management System \(NIMS\) Reports](#)
- Federal Fiscal Years 2014-2020
- Focus on source water protection authorized activities

Reported Source Water Protection (SWP) Spending includes:

SWP Technical Assistance

Loans for Land Conservation

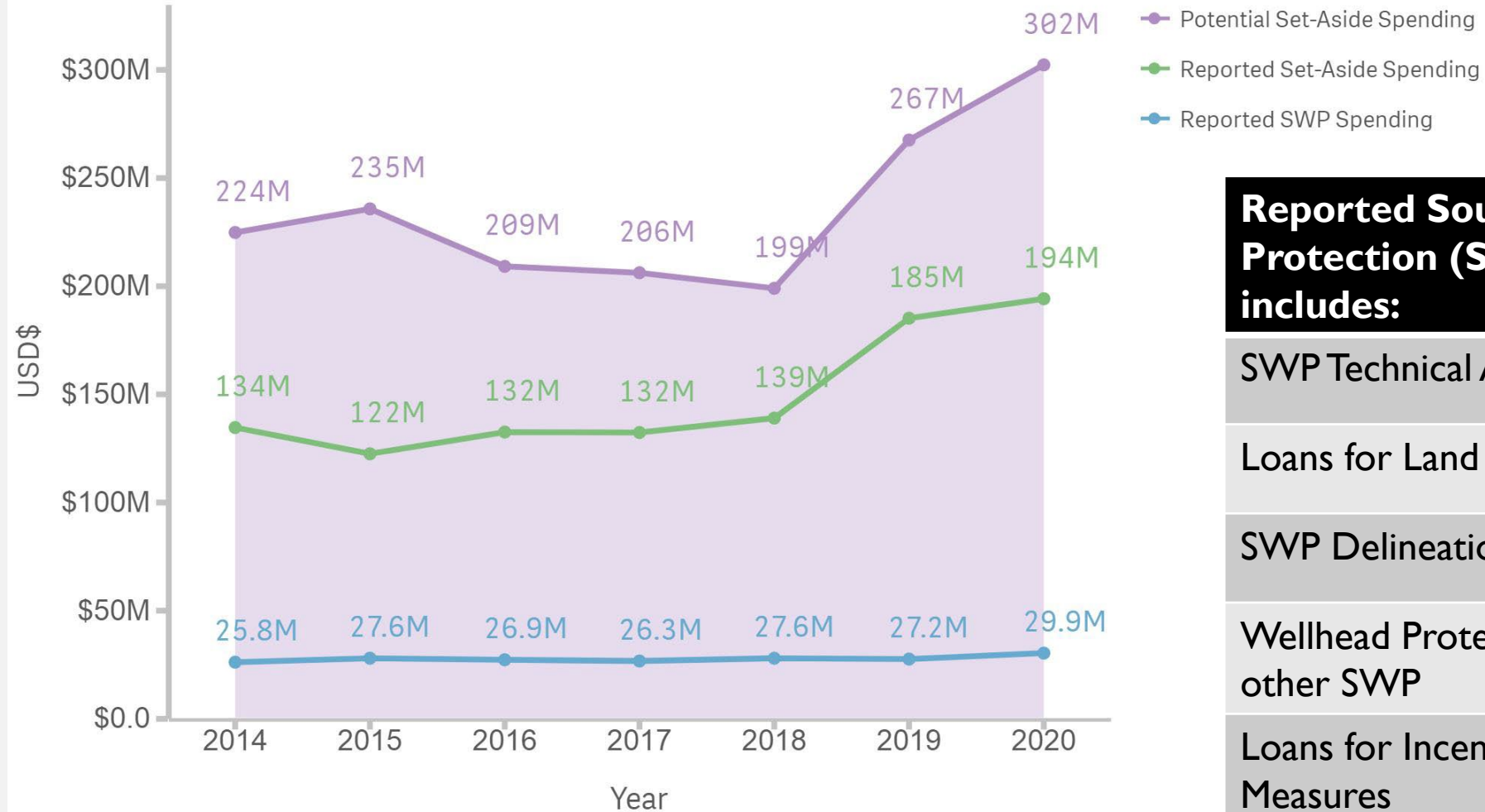
SWP Delineation/Assessment

Wellhead Protection Programs and other SWP

Loans for Incentive-based SWP Measures

DRINKING WATER STATE REVOLVING FUND

State Program and Local Assistance Set-Asides Ceiling and Reported Spending (FY2014-2020)



Reported Source Water Protection (SWP) Spending includes:

SWP Technical Assistance

Loans for Land Conservation

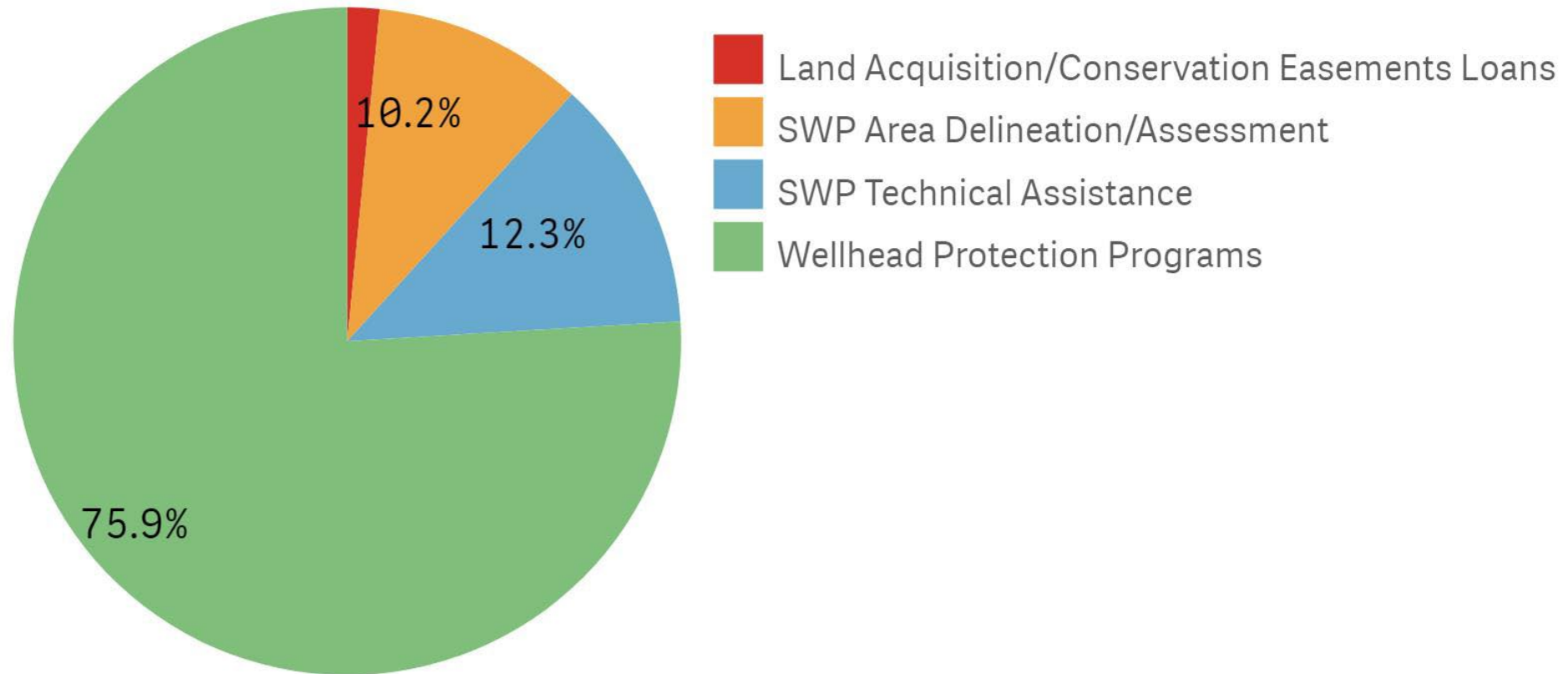
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SOURCE WATER PROTECTION ACTIVITIES IN DWSRF SET-ASIDES

Percent of Total SWP Set-Aside Spending (FY2014-2020)



No Loans for Incentive-Based Measures Spending between FY2014-FY2020.

DWSRF SET-ASIDES ANALYSIS TAKEAWAYS (FY2014-2020)

- Set-asides are optional and states are choosing to use these funds for source water protection and other non-infrastructure efforts
- Potential to increase investment in source water protection
- Different source water protection activities eligible under the SRFs


FINAL TAKEAWAYS OF ANALYSES (FY2014-2020)

- Source water protection projects allow states to take full advantage of Bipartisan Infrastructure Law funds.
- Additional benefit of gray infrastructure projects
- Better data inputs= better stories to share

CASE STUDY

Skagit Public Utility District in Washington





CASE STUDY

Delaware Source Water Assessment Plans

QUESTIONS AND DISCUSSIONS

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EPA Source Water Protection Program
www.epa.gov/sourcewaterprotection

EPA Clean Water State Revolving Fund
www.epa.gov/cwsrf

EPA Drinking Water State Revolving Fund
www.epa.gov/dwsrf

Bipartisan Infrastructure Law (BIL)
www.epa.gov/infrastructure

Protecting Source Water with the Clean Water and Drinking Water state Revolving Funds Factsheet