

NPDES Program Overview

February 28, 2023

2023 National NPDES Permitting Meeting

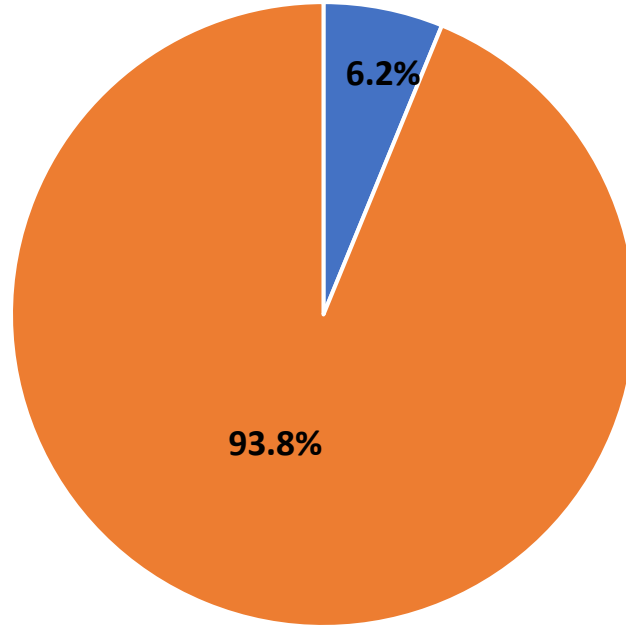
Note – the numbers included in this presentation are estimates and considered draft

Number of NPDES Permittees

NPDES Universe - Individual vs General

Permit Covered Facilities

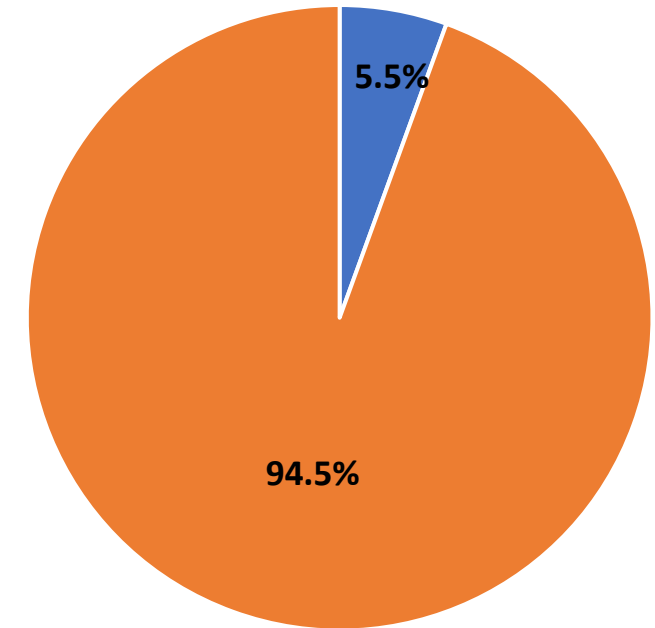
Total Covered Facilities: Approximately 800,000



■ Individual Permits ■ General Permit Covered Facilities

NPDES Universe - EPA vs State Issued

Total Covered Facilities: Approximately 800,000



■ EPA-Issued ■ State-issued

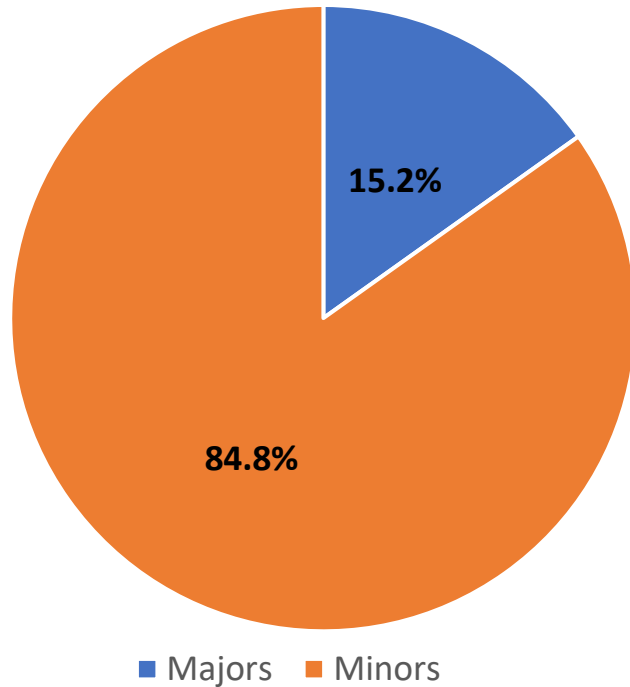
Key Points:

- Total NPDES Universe is approximately 800,000.
- Most permitted facilities are covered under general permits.
- States issue permits covering most NPDES permittees.
- Data source – Estimates used in NPDES Permit Writers' Course, based on ICIS-NPDES data and additional input from EPA program leads.

NPDES Individual Permits

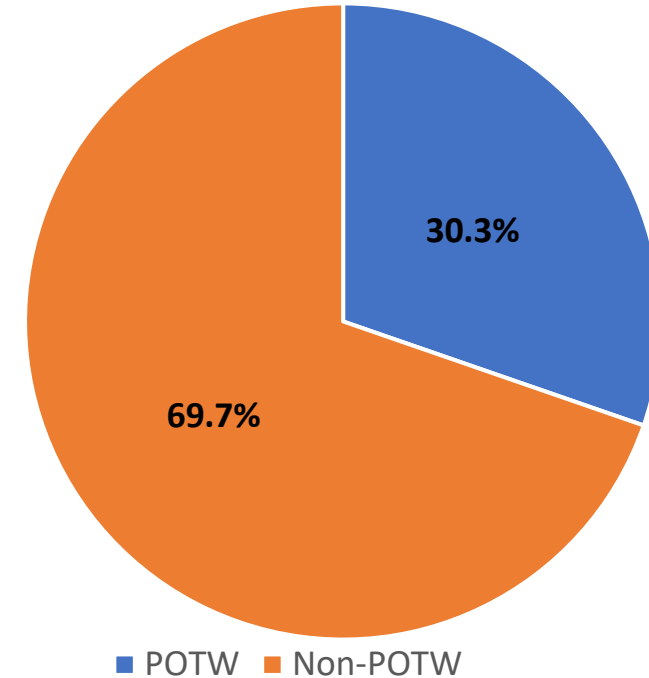
Individual NPDES Permit Universe - Majors vs Minors

Total Covered Facilities: Approximately 800,000



Individual NPDES Permit Universe - POTWs vs Non-POTWs

Total Covered Facilities: Approximately 800,000

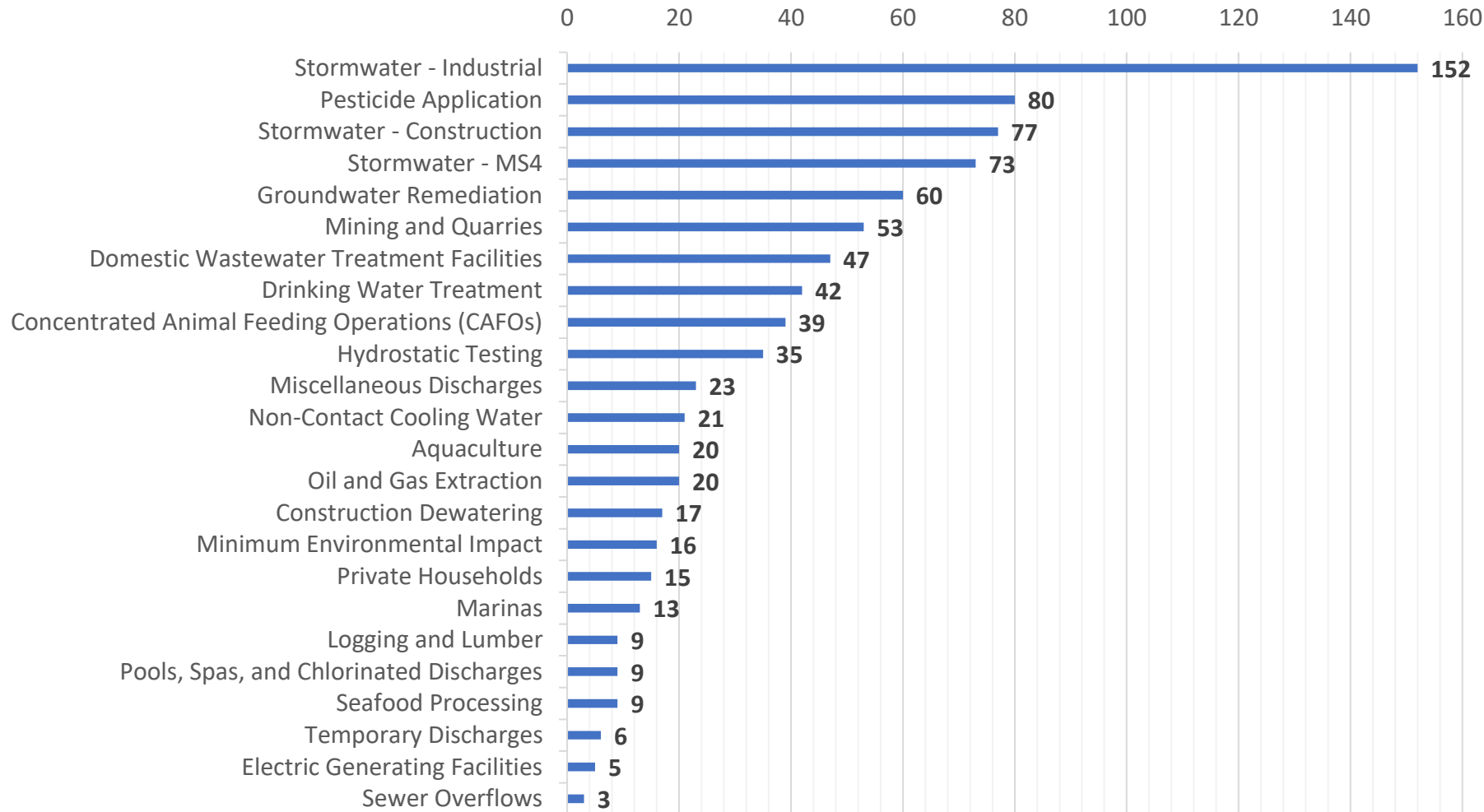


- Key Points:

- Most individual NPDES permits are for facilities considered to be minors.
- POTWs make up nearly a third of the NPDES Individual Permit Universe.
- Data source – Estimates used in NPDES Permit Writers' Course, based on ICIS-NPDES data and additional input from EPA program leads.

NPDES General Permits

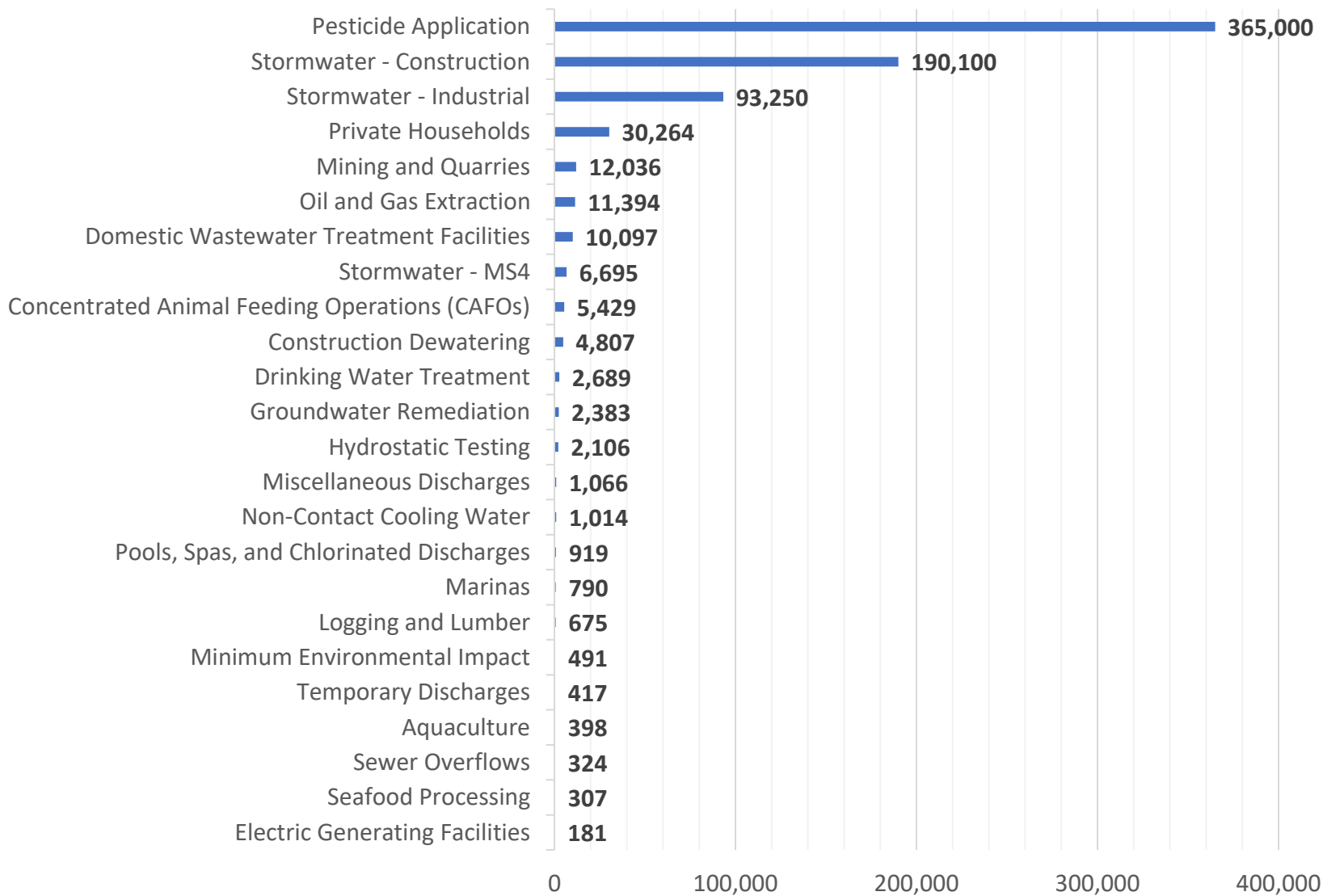
Number of General Permits by Category



- Key Points:
 - This chart depicts the number of general permits issued by category.
 - Of all categories, stormwater and pesticide application are the most commonly issued.
 - Many other categories of general permits are also very common, including groundwater remediation, mining and quarries, and domestic wastewater treatment.
 - These draft numbers are based on a combination of the ECHO dashboard located here https://edap.epa.gov/public/extensions/eRule_Phase2/eRule_Phase2.html, ICIS-NPDES data, and data available online.

NPDES General Permit Covered Facilities

Number of General Permit Covered Facilities by Category

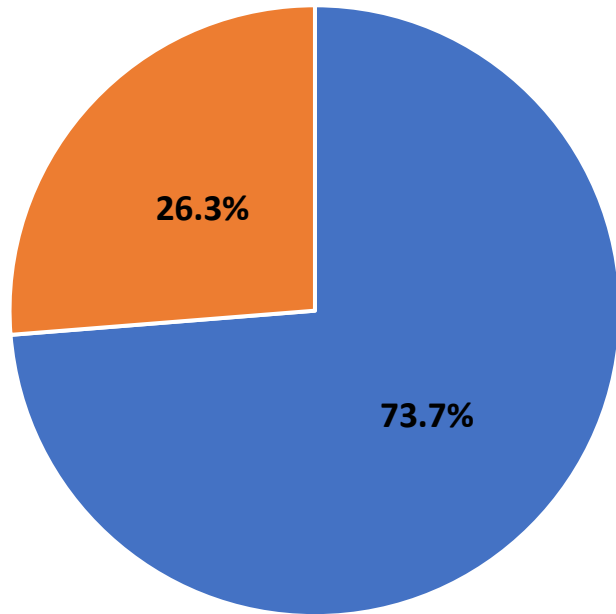


- Key Points:
 - This chart depicts the number of facilities covered by general permits by category.
 - While pesticide application jumps to the top here, industrial and construction stormwater are also still top categories.
 - Private households and oil and gas extraction also cover large numbers of dischargers, even though there are relatively few general permits issued for these categories.
 - These draft numbers are based on a combination of the ECHO dashboard located here https://edap.epa.gov/public/extensions/eRule_Phase2/eRule_Phase2.html, ICIS-NPDES data, and data available online.

Backlog – Individual Permits

EPA - Individual Permits Backlogged vs Current

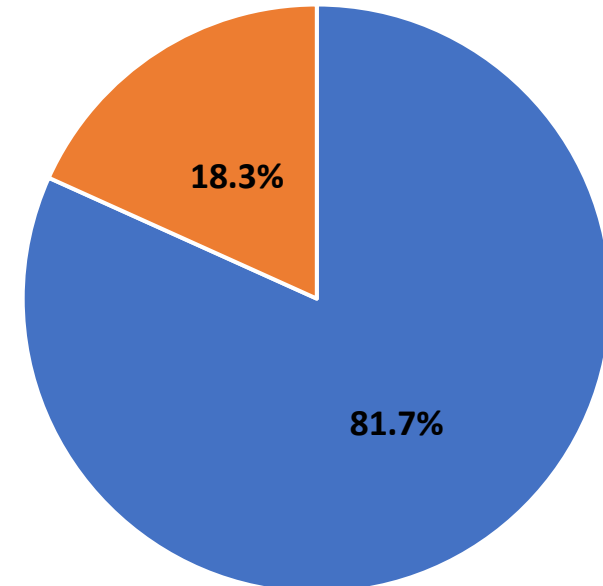
Total Universe: Approximately 872



■ Current ■ Backlogged

State - Individual Permits Backlogged vs Current

Total Universe: Approximately 42,732



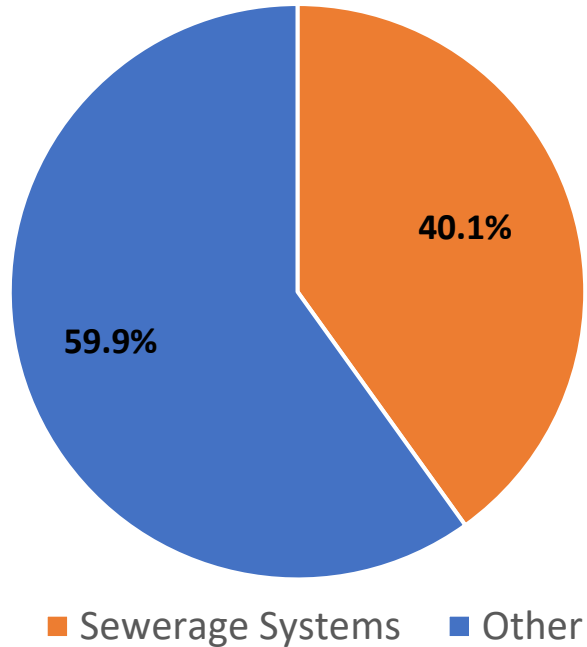
■ Current ■ Backlogged

- Key Points:

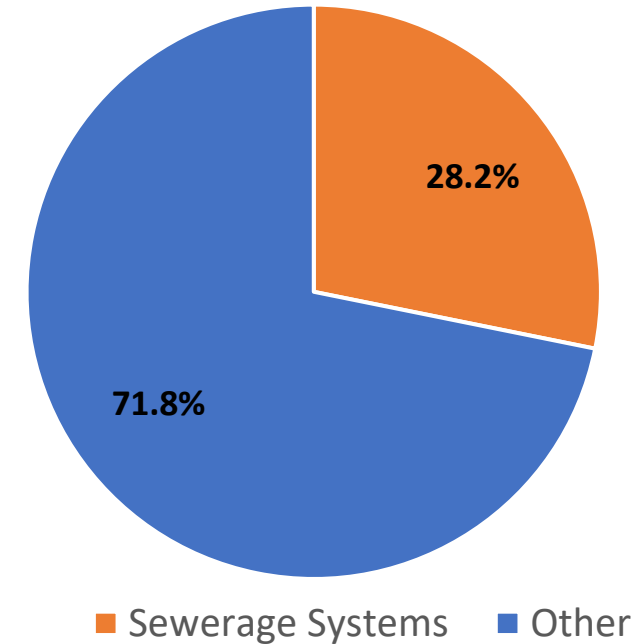
- The charts on this slide represent draft numbers based on ICIS-NPDES data as of the end of Federal Fiscal Year 2022 and have not yet been reviewed by EPA Regions or states. Additional review may show that some of these permits are not in need of reissuance or have been reissued.
- For the purposes of this analysis, backlog is defined as 180 days or more past expiration.
- Nationally around 8,000 permits, or almost one fifth of the individual permit universe, are considered backlogged.

Backlog – Top Categories of Individual Permits in Backlog

EPA - Individual Permit Backlog of Sewerage Systems vs Other



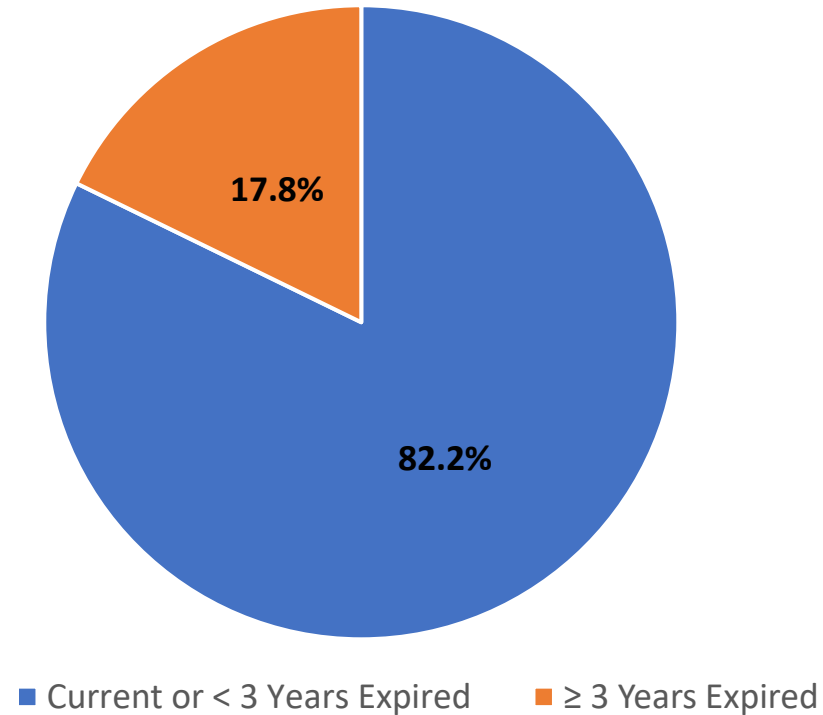
State - Individual Permit Backlog for Sewerage Systems vs Other



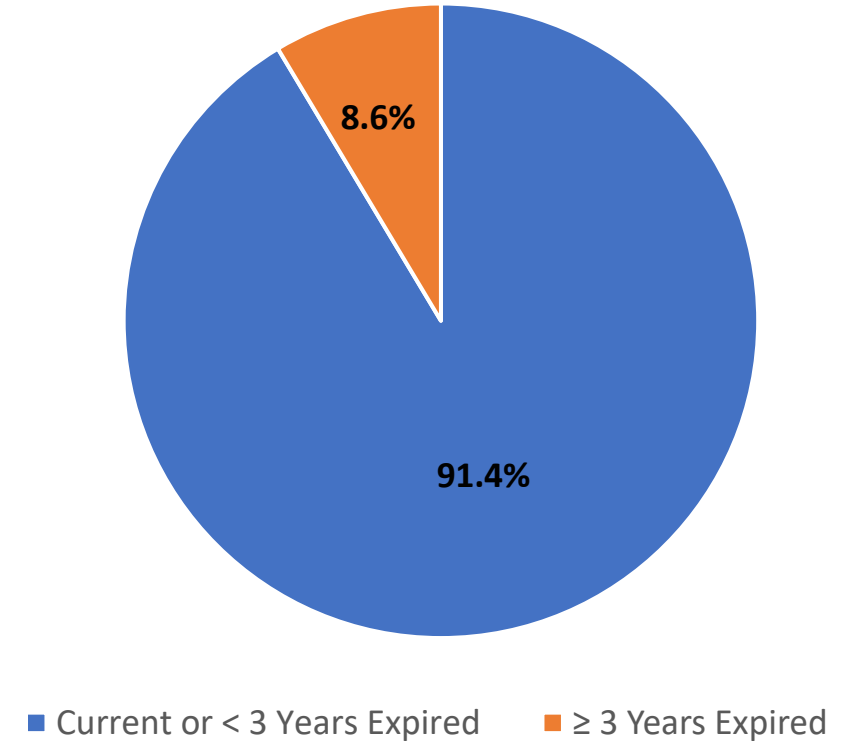
- Key Points:
 - For both EPA and states, a large portion of the individual permit backlog is made up of sewerage systems, which correlates with these facilities also being a large part of the overall individual permit universe.
 - The charts on this slide represent draft numbers as of the end of Federal Fiscal Year 2022 and have not yet been reviewed by EPA Regions or states. Additional review may show that some of these permits are not in need of reissuance or have been reissued.
 - For Individual Permits, these numbers are based on ICIS-NPDES data. This is not one of EPA's performance measures at this time, but is included to give additional context to the permit backlog.

Expired ≥ 3 years – Individual Permits

EPA - Individual Permits Expired 3 Years or More



State - Individual Permits Expired 3 Years or More

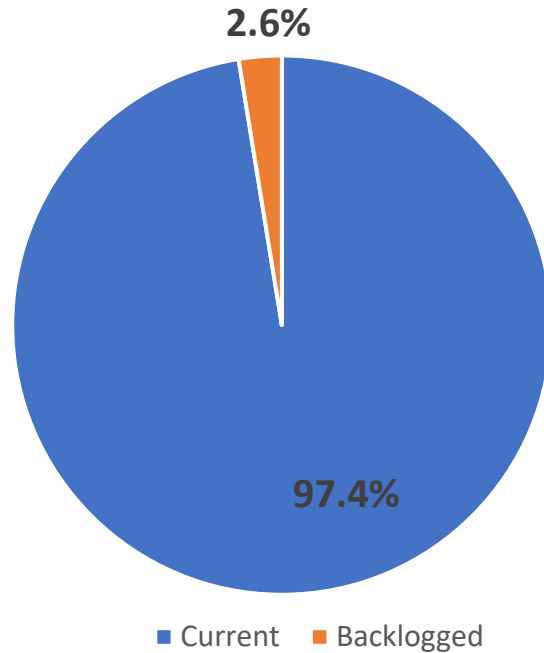


- Key Points:

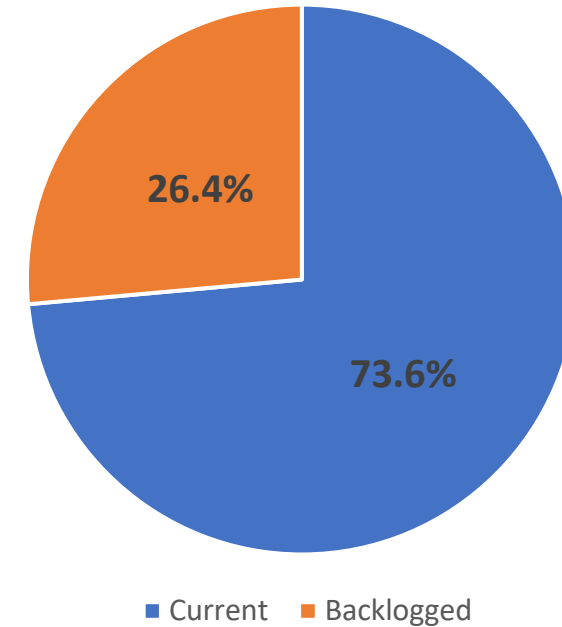
- The charts on this slide represent draft numbers based on ICIS-NPDES data as of the end of Federal Fiscal Year 2022 and have not yet been reviewed by EPA Regions or states. Additional review may show that some of these permits are not in need of reissuance or have been reissued.
- Nationally around 3,800 permits individual permits have been expired for 3 years or more.
- This is not one of EPA's performance measures at this time, but is included to give additional context to the permit backlog.

Backlog – General Permit Covered Facilities

EPA - Facilities Covered by Current vs Backlogged General Permits



State - Facilities Covered by Current vs Backlogged General Permits

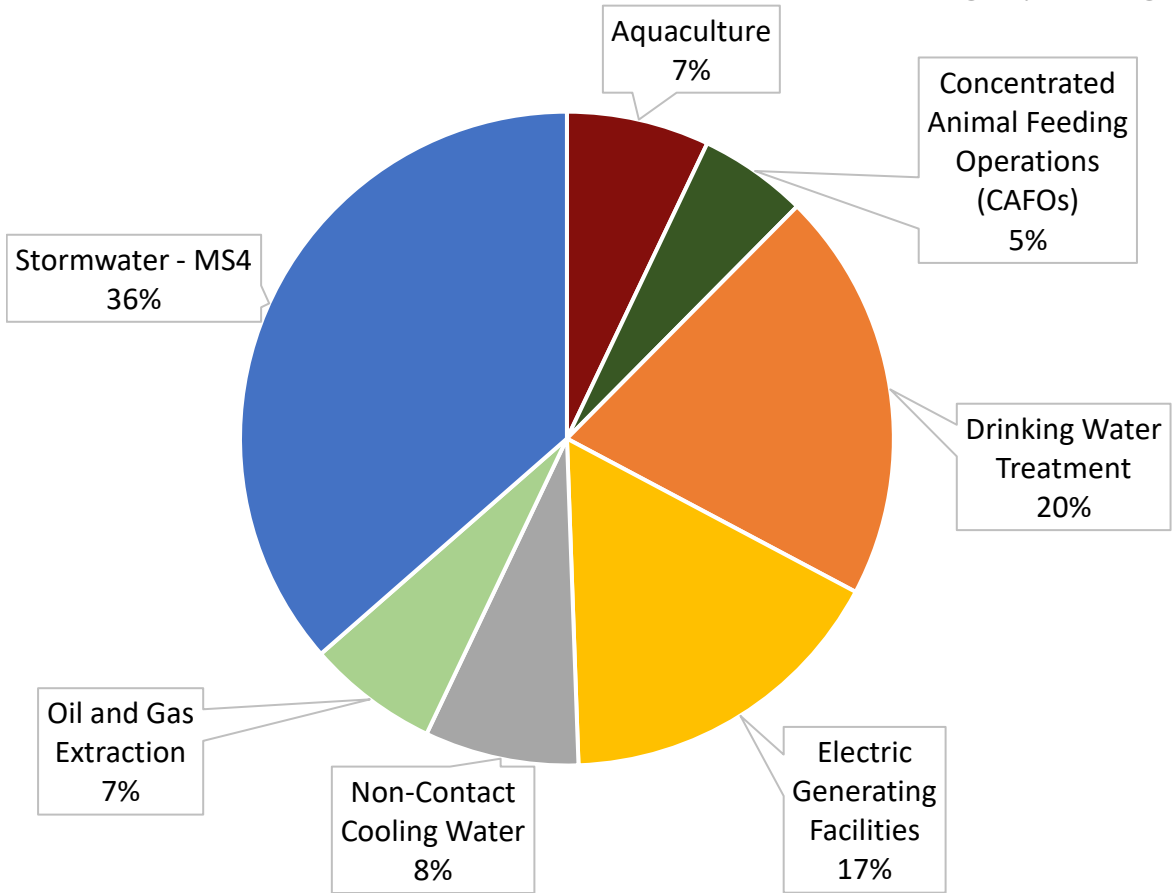


- Key Points:

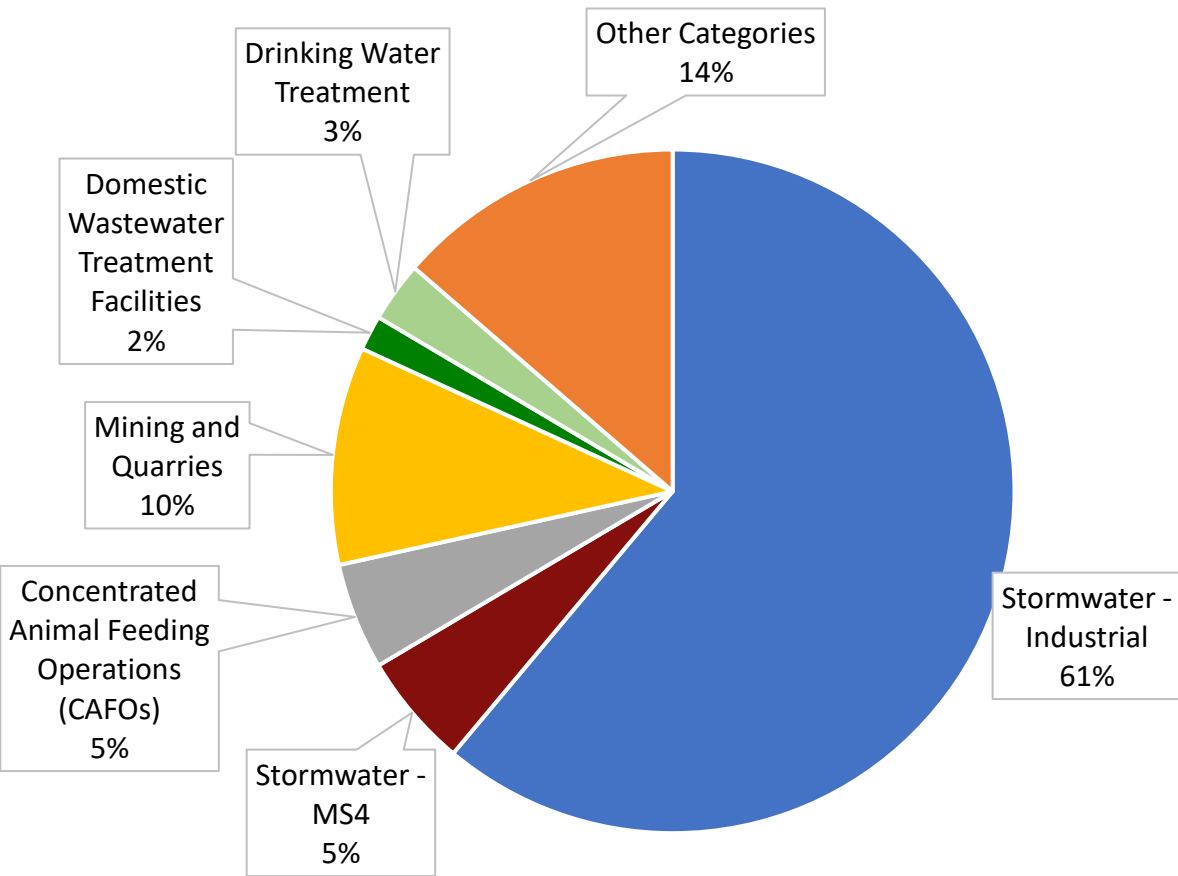
- The charts on this slide represent draft numbers as of the end of Federal Fiscal Year 2022 and have not yet been reviewed by EPA Regions or states. Additional review may show that some of these permits are not in need of reissuance or have been reissued.
- The charts represent only a portion of the total NPDES General Permit Covered Facility Universe. For purposes of EPA's Backlog Metrics for facilities covered by NPDES general permits, permits for which the exact universe of covered facilities is unknown (for example, Pesticide Application where not all permittees submit NOIs) or for which the universe is continually in flux (for example construction stormwater), are not included. These draft numbers are based on a combination of the ECHO dashboard located here https://edap.epa.gov/public/extensions/eRule_Phase2/eRule_Phase2.html, ICIS-NPDES data, and data available online.
- For the purposes of this analysis, backlog is defined as 180 days or more past expiration.
- Nationally around 43,000 facilities are covered by general permits considered to be backlogged.

Backlog – Top Categories of General Permit Covered Facilities in Backlog

EPA - General Permit Covered Facilities in Backlog by Category



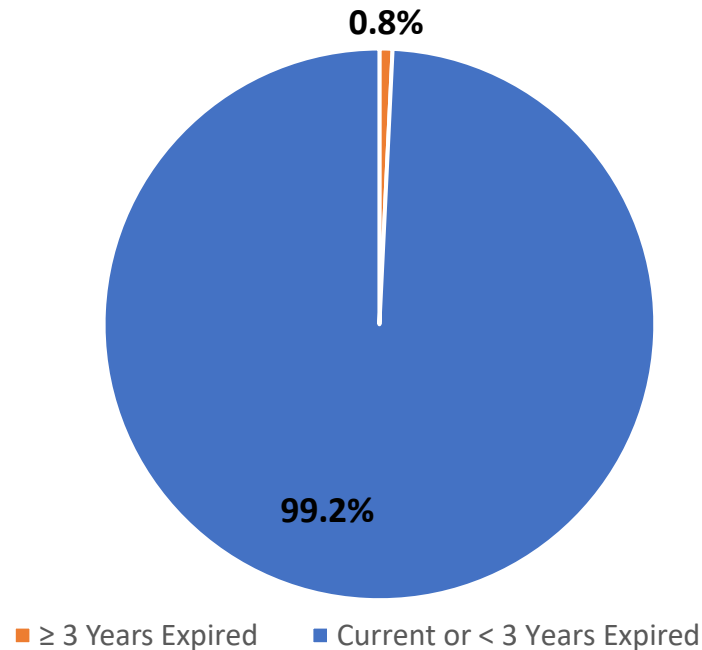
State - General Permit Covered Facility Backlog by Category



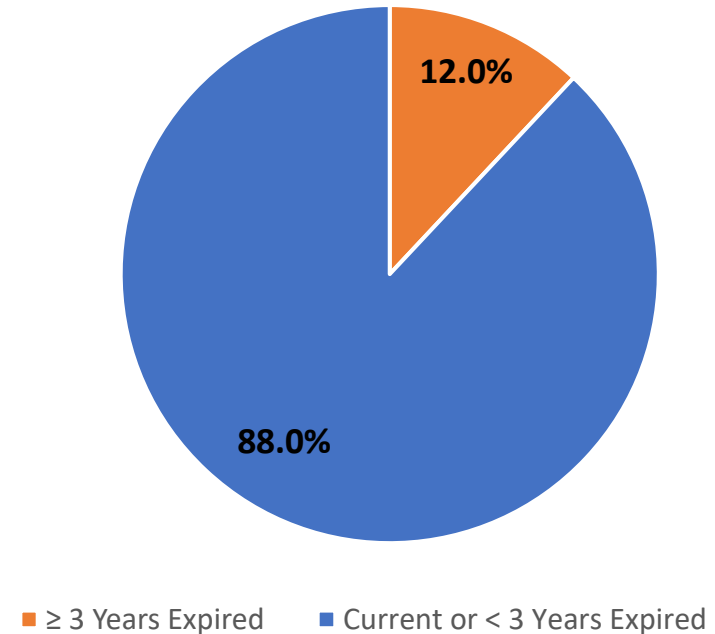
- Key Points:
 - For EPA, a large portion of the general permit covered facility backlog is made up of MS4s. For States, Industrial Stormwater is the largest category of backlogged general permit covered facilities.
 - The charts on this slide represent draft numbers as of the end of Federal Fiscal Year 2022 and have not yet been reviewed by EPA Regions or states. Additional review may show that some of these permits are not in need of reissuance or have been reissued.
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 - This is not one of EPA's performance measures at this time, but is included to give additional context to the permit backlog.

Expired ≥ 3 years – General Permit Covered Facilities

EPA - General Permit Covered Facilities Expired 3 Years or More



State - General Permit Covered Facilities Expired 3 Years or More



Key Points:

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- The charts represent only a portion of the total NPDES General Permit Covered Facility Universe. For purposes of EPA's Backlog Metrics for facilities covered by NPDES general permits, permits for which the exact universe of covered facilities is unknown (for example, Pesticide Application where not all permittees submit NOIs) or for which the universe is continually in flux (for example construction stormwater), are not included. These draft numbers are based on a combination of the ECHO dashboard located here https://edap.epa.gov/public/extensions/eRule_Phase2/eRule_Phase2.html, ICIS-NPDES data, and data available online.
- Nationally around 19,000 facilities are covered by general permits that have been expired 3 years or more.
- This is not one of EPA's performance measures at this time, but is included to give additional context to the permit backlog.
- These numbers are considered draft and additional review may show that some of these permits are not in need of reissuance or have been reissued.

States and Territories That Have Adopted Recent EPA Criteria

Ammonia

- Adopted 2013 Criteria: 16
- Adopted 2013 Criteria Pending Approval: 3
- Criteria Adopted Before 2013: 25
- Mix of Before 2013 or None: 1
- No Numeric Criteria: 9

Numeric Nutrient Criteria for Lakes and Reservoirs

- Fully Adopted Numeric Nutrient Criteria: 11
- Partially Adopted Numeric Nutrient Criteria: 14
- No Relevant Nutrient Criteria: 28
- Criteria Not Applicable: 1

2015 Human Health Criteria

- Partially or Fully Adopted 2015 HHC: 19
- No Updated 2015 HHC: 35

Cadmium

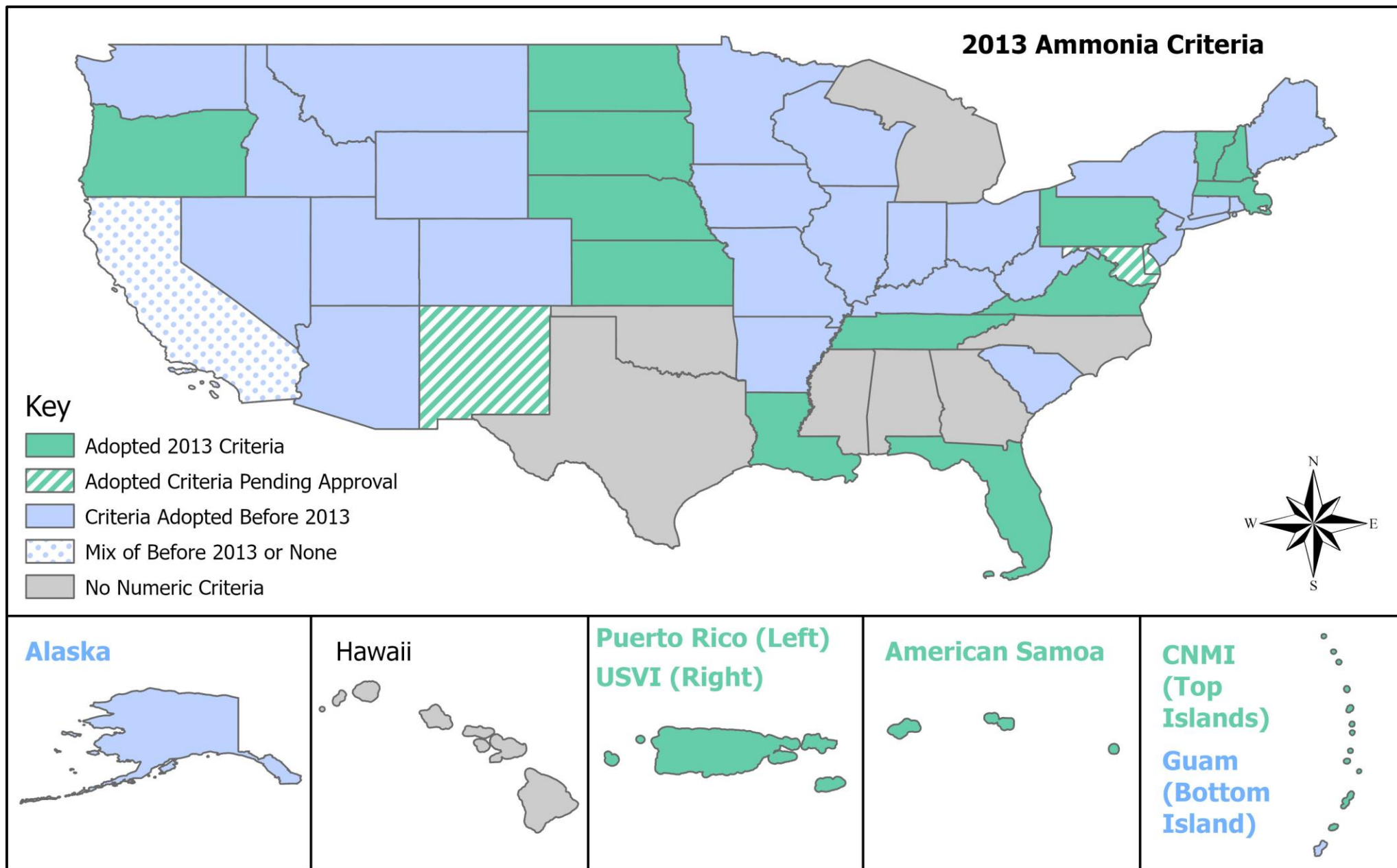
- Adopted 2016 Criteria: 21
- Not Adopted: 33

Selenium - freshwater

- Adopted 2016 Criteria Statewide: 8
- Adopted Site-Specific 2016 Criteria: 3
- Adopted 2016 Criteria Statewide Pending Approval: 1
- Not adopted: 42

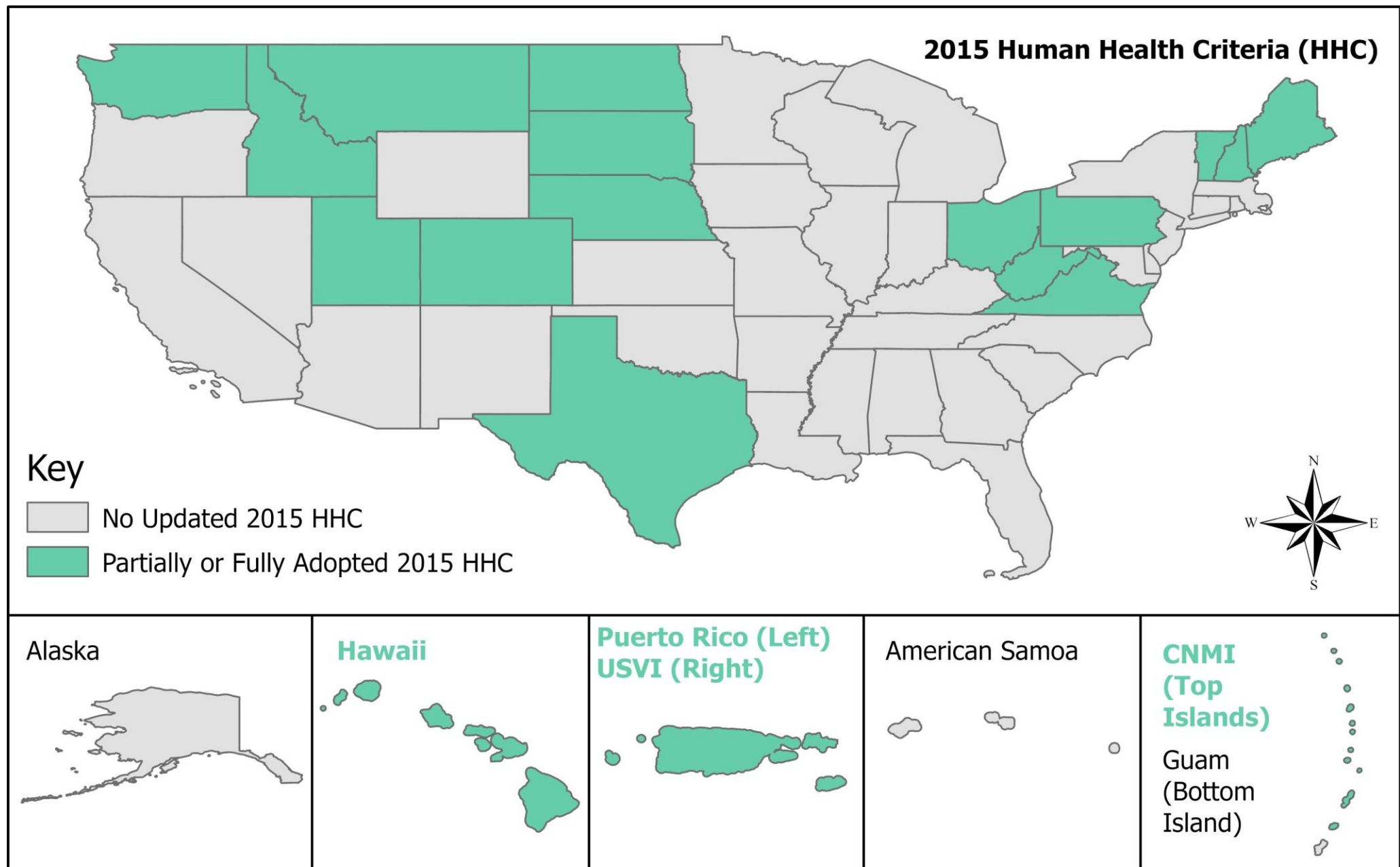
Aluminum

- Adopted 2018 Criteria: 3
- Adopted 2018 Criteria Pending Approval: 1
- Criteria Adopted Before 2018: 18
- No Numeric Criteria: 29

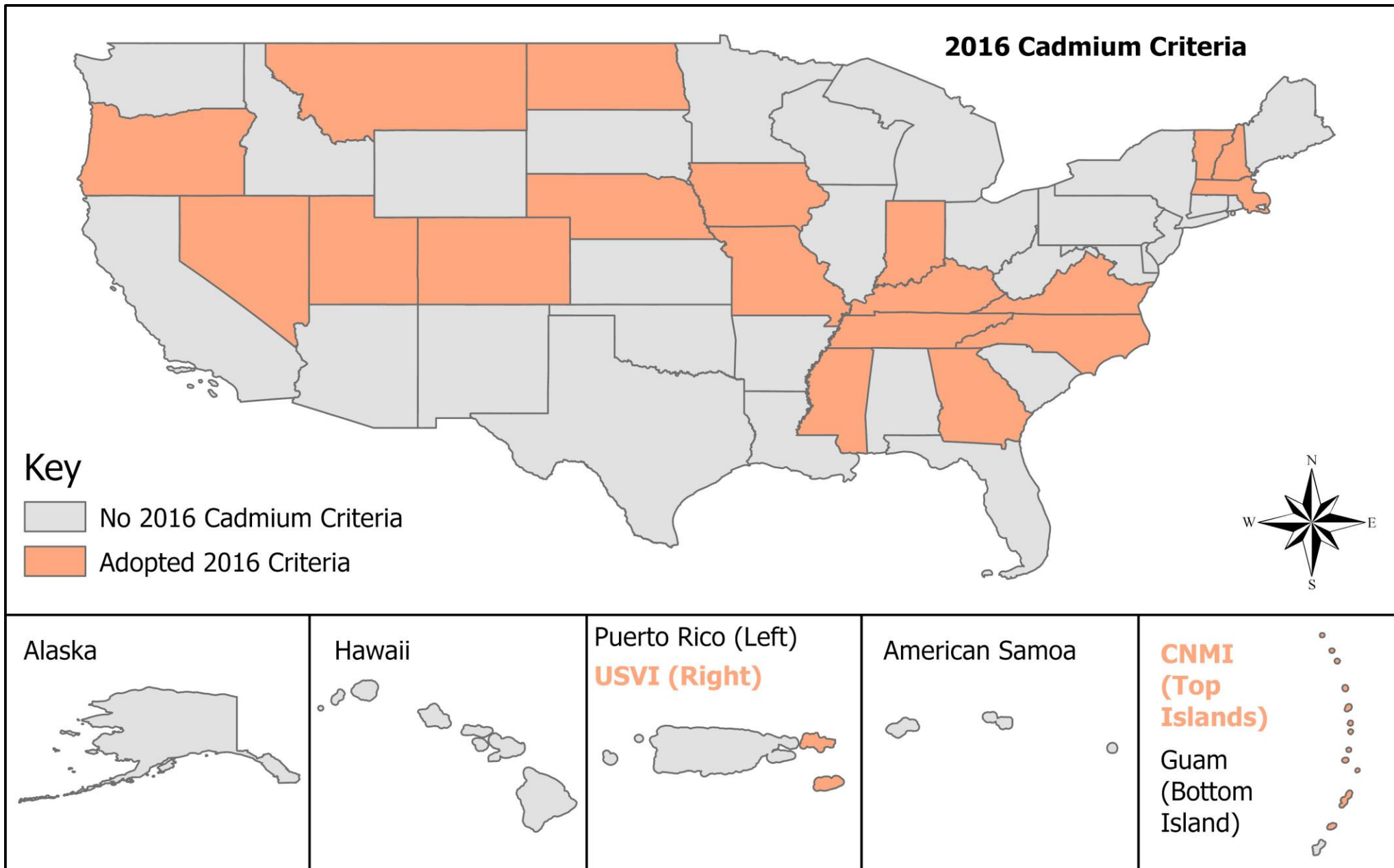


USVI = United States Virgin Islands, CNMI = Commonwealth of the Northern Mariana Islands
 EPA Office of Science and Technology, February 2023

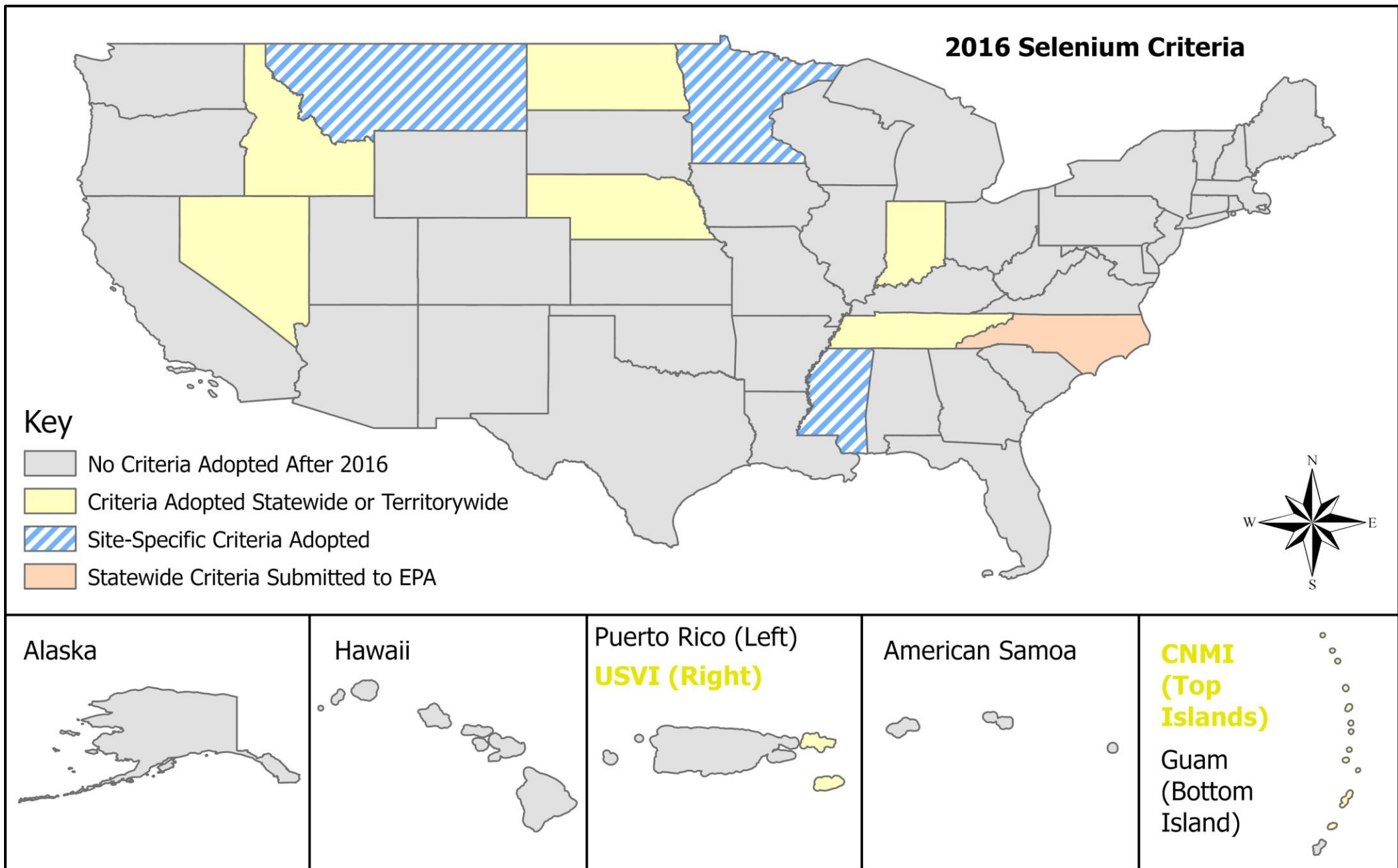




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