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Maine Combined Sewer Overflow 2022 Status Report

June 2023

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MELANIE LOYZIM
COMMISSIONER

June 30, 2023

To: Combined Sewer Overflow (CSO) Permittees

Subject: 2022 Annual CSO Status Report for the State of Maine

Attached is a copy of the Maine Combined Sewer Overflow 2022 Status Report. This report is being distributed to CSO Permittee contacts, municipal officials, consulting engineers and other interested people.

The report documents the efforts and progress that has been made by each CSO Permittee to eliminate or abate combined sewer overflows within their system. These efforts continue to pay off, as 2022 edged out 2021 for the second lowest CSO discharge on record (305.3 MG/Y), behind only 2017. Several CSO communities had their lowest discharge on record in 2022. Precipitation for the State averaged 45.24 inches in 2022, less than the long-term average of 46.68 inches per year, but slightly above average for the last five years. If we account for the varying precipitation by unitizing CSO discharge per inch of rain, we find that in 2022 Maine achieved the lowest CSO discharge per inch of precipitation (6.7 MG/inch) on record.

These figures confirm that as sewer systems continue to be separated, they become less sensitive to rainfall resulting in a decrease in CSO discharge and activity. This trend continued in 2022, and we now have the four lowest annual CSO discharge volumes on record, having occurred within the last six years. Likewise the four years with the lowest number of CSO events and the lowest CSO discharge per inch of rainfall, have occurred within the last six years. With increased funding and expenditure on CSO abatement over the past six years the trends are positive for Maine.

The Department's CSO website has a downloadable version of the current report and also includes copies of each report from the last three years. The website also contains links to other State and Federal documents that may be of interest. The report and other CSO materials may be found at: <http://www.maine.gov/dep/water/cso/index.html>.

The report is meant to be a snapshot of the CSO program status in Maine. We welcome any comments that you might have to improve the report. Thanks to all of you who have contributed data for this report, and most importantly thank you for your continued efforts to eliminate the public health hazard created by CSOs.

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Enc.: Maine Combined Sewer Overflow 2022 Status Report

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TABLE OF CONTENTS

| | |
|---|----|
| Introduction | 1 |
| What is a CSS and What are CSOs? | 1 |
| What are the Impacts of CSOs? | 2 |
| What is a CSO Permittee? | 3 |
| Where Did We Start? | 4 |
| What is Being Done to Eliminate/Abate CSO Discharges? | 4 |
| Where are We Now? | 5 |
| 2022 Status | 5 |
| Overall Trends and Considerations..... | 9 |
| Recognitions | 10 |

TABLES

| | |
|--|----|
| Maine Combined Sewer Overflow (CSO) Permittee List..... | 12 |
| Maine CSO Permittee Flow Data..... | 13 |
| Maine CSO Permittee Annual Number of CSO Discharge Events..... | 14 |
| Maine CSO Permittee Annual Number of CSO Outfalls..... | 15 |
| Maine Annual CSO Volume Discharged by Watershed | 24 |
| Maine CSO Permittee Level of Treatment | 25 |

CHARTS

| | |
|---|----|
| Maine – Statewide Combined Sewer Overflow (CSO) Volume Discharged | 16 |
| Maine – Statewide Combined Sewer Overflow (CSO) Annual Number of Discharge Events..... | 17 |
| Maine – Statewide Combined Sewer Overflow (CSO) Outfalls | 18 |
| Maine – Statewide Combined Sewer Overflow (CSO) Annual Volume Discharged per Inch of Precipitation | 19 |
| Maine – Yearly CSO Volumes and Precipitation | 20 |
| Maine 2022 CSO Flow Comparison - Pie Chart..... | 21 |
| Maine 2022 CSO Flow Comparison by Permittee - Bar Chart | 22 |
| Maine 2022 CSO Volume Discharged by Watershed - Pie Chart | 23 |

Introduction

The purpose of this annual report is to inform the Combined Sewer Overflow (CSO) Permittees and the general public on the status of CSO abatement efforts in the State of Maine. The drive to reduce CSO discharge began in the early 1990s with the development of CSO Master Plans by 47 Maine CSO Permittees, with DEP approvals of the Master Plans starting in 1993. As such, the overall CSO abatement effort has been waged for 31 years in Maine. Over those three decades, thirteen CSO Permittees have completed their CSO abatement plan, closed their CSO locations, conducted post construction monitoring and exited the CSO program. At this point, the remaining 34 CSO Permittees have completed the less difficult CSO abatement projects and are wrestling with the more complex, more expensive projects.

The CSO program compiles information from various documents and reports submitted to the Maine Department of Environmental Protection by the CSO Permittees (City/Town/District/Authority) or their consultants on their behalf. The majority of information comes from the CSO Master Plans (a.k.a. Long-Term Control Plans), Sewer System Evaluation Studies, Inflow/Infiltration Reports, Annual CSO Progress Reports, Annual CSO Activity and Volume Reports, and general correspondence.

At the start of each CSO Permittee's abatement program, initial flow data was collected to estimate the discharge volumes and frequencies, define the scale of the problem, and establish a corrective course of action. Since then, CSO flow monitoring plans have continued to improve, Permittees have a better understanding of their collection system's response to wet weather, and overall data reliability has increased.

What is a CSS and What are CSOs?

- Combined Sewer Systems (CSS) are defined as collection systems which carry a combination of sanitary wastewater and storm water within the same pipes. They are typically older collection systems designed and installed prior to the advent of wastewater treatment facilities.
- Combined Sewer Overflows (CSOs) are discharges of untreated wastewater from municipal CSSs. CSOs can be considered hydraulic relief points in a CSS which discharge to a receiving water during wet weather to protect property and prevent sewer backups into people's basements. CSOs typically consist of two components; a CSO Regulator where the untreated wastewater exits the sewer system, and a CSO outfall where the wastewater is discharged to the receiving water. Maine Pollution Discharge Elimination System (MePDES) permits issued by the State license the CSO outfalls, not the CSO regulators. Although uncommon, there can be more than one regulator discharging to a given CSO outfall.
- Difference between a CSO Outfall and a CSO Regulator:
 - CSO Outfall – a licensed pipe or structure that discharges untreated combined wastewater from an overwhelmed collection system to the receiving water during wet weather events in compliance with requirements of the MePDES permit and waste discharge license.
 - CSO Regulator – this is where combined wastewater exits the sewer collection system, prior to reaching the wastewater treatment facility (WWTF). Think of it as leakage on the way to the WWTF. This happens when flows are high enough

to exceed a regulator weir elevation thereby diverting that portion of the flow to a CSO outfall. CSO regulators are not permitted structures, CSO outfalls are. There can be more than one CSO regulator per CSO outfall. For example, Portland currently has 29 CSO regulators for 24 CSO outfalls.

- Large volumes of water entering the CSS through catch basins, old and leaky pipes, roof drains, cellar drains, sump pumps, and other sources can cause the capacity of the system to be exceeded, resulting in discharges. Most Permittees distinguish between inflow and infiltration from public sources (catch basins and pipe located within the public right of way) and private sources (roof drains, perimeter drains, sump pumps, and service pipes located on private property)
- CSO discharges occur mostly during and after rain events or snowmelt. Depending on the amount of inflow (catch basins, sump pumps, roof drains) and infiltration (high groundwater leaking into sewer via crack, loose joints) entering a CSS flows during wet weather events can be as high as fifty (50) times the normal dry weather flows. This ratio of wet weather flow to dry weather flow is referred to as the peaking factor. For CSO Permittees in Maine, wet weather peaking factors range from about three, for Permittees that have implemented an effective sewer separation program, to over ten, for Permittees whose separation efforts have been less effective. Peaking factors are an indication of the sensitivity of a CSS to precipitation and also a good indicator of how combined the CSS still is.
- CSOs were originally added as hydraulic relief points within the CSS to allow the excess flows to be discharged in a controlled manner. These relief points are generally at topographic low points, near pump stations and river crossings.
- A CSO discharge is considered a legally allowable discharge under the MePDES permit program subject to the following two conditions:
 - The CSO Permittee must be pursuing a DEP approved CSO abatement plan.
 - The abatement plan must be on schedule.
 - If either condition is not met, the legal protection for CSO discharge goes away. Subsequent discharges are treated as illicit sanitary sewer overflows until the two conditions are once again met.
- Sewer separation projects are designed to separate out the stormwater collection system from the wastewater collection system so that the sewers only carry wastewater and all stormwater is handled separately. If enough separation work is completed, CSO locations are no longer needed and can be permanently closed.

What are the Impacts of CSOs?

- At the end of 2022, there were 34 Maine CSO Permittees (Towns, Cities, Utility Districts, Authorities) located in 31 Maine communities with CSO discharge points in their sewer collection systems. At the end of 2022, these Permittees collectively had 115 individual CSO discharge points (reduced from the original 340). Eight CSO locations were either permanently closed or converted to emergency overflows in 2022 (GAUD CSO 021, CSO 027, and CSO 032, City of Portland CSO 014, PWD CSO 008, CSO 009, and CSO 011, and City of Saco CSO 006).

- The frequency of discharges varies greatly amongst Permittees, ranging from seldom, all the way to occurring in response to the smallest rainstorms. Dry weather CSO discharges are prohibited, as are CSO discharges due to mechanical failure, or inadequate operation and maintenance. In addition, no discharges shall occur at flow rates below the design capacity of the collection system.
- In large communities, tens of millions of gallons per year of untreated combined sanitary sewage and storm water may be discharged. In the past three years statewide, total annual CSO discharges have ranged from approximately 305 to 360 million gallons. For comparison, the estimated volume from 1989, when most CSO abatement programs were just starting, was 6.2 billion gallons.
- CSOs discharge untreated combined sewage into ten major watersheds in Maine. The watersheds include seven (7) rivers and their tributaries (Androscoggin, Kennebec, Machias, Penobscot, St. Croix, St. John, and Saco) and three (3) bays (Casco Bay, Frenchman Bay, and Penobscot Bay). The receiving waters vary in size from the Atlantic Ocean all the way down to a handful of small streams. The latter are the focus of DEP's effort to eliminate CSO discharge to sensitive receiving waters.
- Water quality is impaired by the addition of floatable solids, bacteria, and sometimes industrial pollutants that may be present in CSO discharges.
- Potential public health impacts from CSO discharges include the closure of beaches and shell fishing areas due to bacterial contamination, and the potential for drinking water supplies to be threatened/contaminated.
- Why is CSO abatement important? During wet weather, flows in a CSS can hydraulically overload the capacity of the collection system leading to CSOs, sanitary sewer overflows (SSOs), street flooding, back-ups into basements, and treatment facility upsets.

What is a CSO Permittee?

- CSO Permittee – a Town, City, Sewer District, or regional Wastewater Treatment Authority that has active CSO locations in their collection system which must be licensed.
- CSO Permittees are authorized to discharge untreated combined sanitary and storm waters subject to the conditions and requirements included in the Maine Pollutant Discharge Elimination System (MePDES) permit. In simple terms, a CSO Permittee receives legal protection for CSO discharges while they work to implement an approved CSO Master Plan to abate and eliminate said discharges.
- The Department of Environmental Protection issues CSO Permittees a wastewater discharge license that requires them to implement the Environmental Protection Agency's (EPA) Nine Minimum Control Best Management Practices (BMPs) for CSOs and develop, maintain and implement a CSO Master Plan (aka the Long Term Control Plan (LTCP)) to eliminate or abate their overflows, bringing them into compliance with EPA's April 19, 1994 Combined Sewer Overflow (CSO) Control Policy, the Clean Water Act, and State law.

- Special Conditions in a Maine Pollutant Discharge Elimination System (MePDES) permit/Waste Discharge License require all CSO Permittees to submit an Annual CSO Progress Report to the Department, by March 1st of the following year for the previous calendar year.
- The Annual CSO Progress Report documents the Permittee's efforts to implement CSO abatement in a given year and collects pertinent fiscal and logistical information about their CSO abatement program. This information is used to track their CSO abatement progress and gather state-wide information on the CSO program and fiscal needs.

Where Did We Start?

- The CSO abatement movement began in 1989 with the publication of the National CSO Control Strategy by the EPA.
- At that time, the State of Maine had about 50 CSO Permittees that discharged an estimated 6.2 billion gallons of untreated wastewater and storm water into the surface waters of the State, primarily during wet weather events.
- At the start of the program in the late 1980s, CSO Permittees reported that over 1,700 individual CSO discharge events were occurring each year, through approximately 340 CSO outfall locations (an average of 5 discharge events per CSO location per year).
- On April 19, 1994 EPA issued a national policy statement entitled "Combined Sewer Overflow (CSO) Control Policy." This policy provided guidance to State permitting authorities and CSO Permittees on coordinating the planning, selection, and implementation of CSO controls, that once implemented, would allow CSO Permittees to achieve compliance with the requirements of the Clean Water Act (CWA).
- In February 2000, the Maine Department of Environmental Protection Chapter 570 Rules, entitled "Combined Sewer Overflow Abatement," took effect. This chapter established procedures for CSO evaluation, preparation of an abatement plan, and set forth minimum controls to reduce CSOs while long-term plans are completed. Chapter 570 also discussed the conditions under which new sources of wastewater could be added to a CSS with active CSOs.
- In December 2000, as part of the Consolidated Appropriations Act for Fiscal Year 2001 (P.L. 106-554), Congress amended the Clean Water Act (CWA) by adding Section 402(q), commonly referred to as the Wet Weather Water Quality Act of 2000. Section 402(q) requires that each permit, order, or decree issued pursuant to the CWA for a discharge from a municipal combined sewer system shall conform to the 1994 EPA CSO Control Policy.

What is Being Done to Eliminate/Abate CSO Discharges?

- All of Maine's CSO Permittees have completed or are currently working on implementing their CSO Master Plan, often referred to as a Long-Term Control Plan. These documents define the magnitude of the CSO discharges, their impacts on the environment, evaluate a range of abatement control alternatives and their financial impacts, and recommend a set of CSO controls that will eliminate/abate the CSO discharges.

- CSO abatement projects have reduced the discharge of untreated, combined sewage to receiving waters for all the CSO Permittees. Thirteen Permittees have eliminated their CSO discharges entirely, have left the CSO program, and are no longer licensed to discharge untreated combined sewage during wet weather.
- Statewide, **currently licensed** CSO Permittees have reported investing approximately \$800 million in CSO abatement since the program started (Note: this number has been adjusted to reflect recent audit). Of the total invested to date, the Maine Clean Water State Revolving Fund (CWSRF) has contributed \$370 million (46.3% of total expenditure on CSO abatement by current CSO Permittees).
- Statewide, **previously licensed** CSO Permittees, that have since left the program, reported investing a total of approximately \$462 million on CSO abatement, with the CWSRF providing \$114.7 million of that total (25% of total expenditure on CSO abatement by prior CSO Permittees).
- Anticipated infrastructure needs of current CSO Permittees over the next five years are estimated to be approximately \$277 million.



Back Cove South Storage Facility in Portland Under Construction

Where are We Now?

2022 Status

- 1) In 2022, the 34 currently licensed CSO Permittees reduced the total number of CSO discharge locations by eight, from 123 to 115, (a complete listing of Maine's CSO Permittees, the number of CSO locations, and the corresponding receiving waters are listed on page 10). CSOs were closed in the communities of Augusta with three closures (GAUD), Portland with four closures (City of Portland (1) and PWD (3)), and Saco with one closure (City of Saco). With the addition of 2022 data, the chart on page 18, **Maine – Statewide Number of Combined Sewer Overflow Outfalls**, shows a 66.0% reduction in the overall number of CSO locations in Maine since 1988.

- 2) In 2022, the CSO Permittees reported a total of 295 overflow event days which is the fourth lowest annual total on record for the State. An overflow event is any calendar day that one or more CSO locations within a community experiences a discharge. The table on page 14, **Maine CSO Permittee Annual Number of CSO Discharge Events**, contains a historic listing of the annual number of CSO discharge events for each CSO Permittee.
- 3) The maximum number of overflow event days reported in 2022 from a single CSO Permittee was fifty-two (52). The average (mean) number of discharge event days per year for all Permittees was nine (9) event days and the median was five (5) event days. Additional information can be found in the table on page 14, **Maine CSO Permittee Annual Number of CSO Discharge Events**.
- 4) Since 1989, the statewide flow weighted average annual precipitation for CSO Permittees in Maine has been 46.68 inches. In 2022, the annual precipitation measured by CSO Permittees varied significantly from 34.37 to 59.74 inches with flow weighted average of 45.24 inches. Comparatively speaking, this is an average year for precipitation in Maine.
- 5) The **Maine – Yearly CSO Volumes and Precipitation** chart on page 20 compares annual CSO discharge volumes to annual precipitation. The chart illustrates that CSO discharge volumes tend to mirror the annual upward and downward trends in precipitation totals, but also shows that the peaks have become less pronounced as the CSO abatement effort has progressed. The chart also shows a progressive widening of the gap between the annual precipitation trend line and the annual CSO discharge volume trend line. This widening gap illustrates that as CSO abatement projects continue to be implemented, collection systems are becoming less sensitive to precipitation events.
- 6) The CSO volume discharged statewide in 2022 was reported to be approximately 305.3 million gallons (MG). This is the second lowest annual discharge on record, trailing only the 294 MG low point set in 2017.
- 7) The table on page 13, **Maine CSO Permittee Flow Data**, contains a historic listing of the annual overflows from each CSO Permittee. The **Maine 2022 CSO Flow Comparison** pie chart on page 21 and the **Maine 2022 CSO Flow Comparison by Permittee** bar chart on page 22 show graphical comparisons of these overflow volumes between the CSO Permittees.
- 8) In 2022 the top five (5) CSO Permittees, ranked by discharge volume, accounted for approximately 92.7% of the total CSO volume discharged in the State. The top ten (10) CSO Permittees accounted for approximately 97.2% of the total CSO discharge volume. The remaining twenty-one (21) CSO Permittees accounted for 2.8% of the total CSO discharge volume. See the **Maine 2022 CSO Flow Comparison** pie chart on page 21 for a graphical comparison of CSO dischargers.



Shawn Newton sets the precast boxes on the Back Cove Storage Conduit project.

Back Cove West Storage Conduit Under Construction

- 9) CSO discharges by the City of Portland and the Portland Water District accounted for approximately 53.7% of Maine's total CSO discharge volume in 2022; see the **Maine 2022 CSO Flow Comparison** pie chart on page 21. We're happy to report that the Back Cove West Storage Conduit officially went on line in the spring of 2023. The Back Cove South Storage Facility is scheduled to go into service at the end of 2023. If both tanks had of been in service in 2022, we estimate CSO discharge to Back Cove would have been reduced by more than 67 million gallons.
- 10) CSO discharges by the City of Bangor accounted for 17.2% of Maine's total CSO discharge volume in 2022. We're happy to report that the 3.8 MG Davis Brook Storage Facility went into service in October of 2022. If the tank had of been in service for the first nine months of 2022 CSO discharge would have been reduced by 11 million gallons.



Davis Brook Storage Facility in Bangor Ready to Go On Line

- 11) In 2022, the State of Maine saw a continuation of the trend towards more high intensity rain events which can overwhelm any combined sewer collection system. This trend of high intensity storms has worked against the progress made by Maine CSO communities.
- 12) The chart on page 23 – **Maine 2022 CSO Volume Discharged by Watershed**, is a graphical representation of the CSO volumes discharged by major watershed. In 2022, Casco Bay received approximately 54.5% of the statewide CSO volume discharged, followed by the Penobscot River at 17.9%, the Androscoggin River at 17.2%, The Saco River at 4.8%, the Kennebec River at 2.8%, the St. Croix River at 1.3%, and Frenchman Bay at 1.0%. Discharges to the St. John River, Penobscot Bay, and the Machias River account for the remaining ~0.4% of combined sewer overflow volumes. This is the fourth year in a row that CSO discharge into the Saco River has decreased, mostly as the result of CSO abatement work the City of Biddeford has undertaken.
- 13) In 2022, one of Maine’s major rivers and one of Maine’s bays received the **lowest annual CSO discharge on record**. These include the Saco River, which was driven by significantly lower discharge from Biddeford, and Casco Bay, which was driven by the City of Portland and PWD having their lowest volume of CSO discharge on record. The table on page 24 – **Maine Annual CSO Volume Discharged by Watershed**, shows the reported CSO discharge volumes for each CSO Permittee grouped by the receiving watersheds, both for 2022 and the previous five years.
- 14) CSO discharges are well documented contributors to beach and shellfish closures. Stating with certainty that specific CSO events are **solely** responsible for specific closures is more difficult and is beyond the scope of this report. In some areas of the State, there may be other factors that contribute to a beach or shell fishing area closure. These may include but are not necessarily limited to: urban storm water runoff, malfunctioning septic systems, domestic and non-domestic animal waste, agricultural runoff, and bathers. This Annual Report attempts to identify which beaches and shell fishing areas **may have** been impacted by CSO discharges in 2022.
- 15) In 2022, there was one beach closure due to CSO discharge and that was in Portland at East End Beach. There were potential impacts on thirteen (13) beach areas from CSO discharges. They were: Bar Harbor (Town Beach off Town Pier & Hulls Cove); Biddeford/Saco (Hills Beach, Biddeford Pool, Middle Beach, Fortunes Rock Beach & Camp Ellis); Cape Elizabeth (Cliff House Beach, Casino Beach & Fort Williams Park); Portland (East End Beach); South Portland (Willard Beach); and Calais (Red Beach – though not considered a swimming beach).
- 16) In 2022 two (2) CSO Permittees reported that shell fishing areas were impacted by their CSO discharges (Machias and Portland). Both reported shell fishing area closures, including eight in Machias, which were attributed to CSO activity. Thankfully the upgrades to the river crossing are underway in Machias which should reduce CSO activity once completed.

Overall Trends and Considerations

- 1) The volume and frequency of CSO discharges vary from one wet weather event to the next based on existing groundwater levels, frozen or thawed ground, snowmelt, and rainfall volume, duration, and intensity. To evaluate CSO abatement progress it is best to look for a historical trend in reductions, rather than totals from year to year. The chart on page 16, **Maine – Statewide Combined Sewer Overflow Volume Discharged**, illustrates the continuing overall downward trend in the CSO volume discharged annually. Since 1989, the overall CSO volume discharged annually has decreased by approximately 95% statewide. Recent progress has slowed as Permittees tackle the more difficult abatement projects.
- 2) Similarly, the chart on page 17, **Maine – Statewide Combined Sewer Overflow Annual Number of Discharge Events**, shows an overall downward trend in the number of overflow event days per year. Since 1989, the number of overflow event days experienced per year has decreased by approximately 83.2% statewide.
- 3) CSO abatement progress should not be measured solely by comparing the volumes discharged from one year to the next, because the volume discharged is influenced by variations in precipitation amounts, intensity and timing, the total area drained by the collection system, the rate of snow melt, frozen or thawed ground, and existing groundwater levels. Even given the same annual precipitation, it is highly unlikely that any two years would result in the same volume of CSO discharges because of the complex relationship between these variables.
- 4) Trying to compare CSO abatement progress from year to year is difficult due to the varying conditions that influence the volume and frequency of overflows, not the least of which is annual precipitation patterns. To partially compensate for the fluctuation in annual precipitation patterns, the total volume of untreated combined sewage discharged can be unitized by taking into consideration the average annual precipitation received by each CSO Permittee. Just divide CSO volume by annual precipitation reported in inches to obtain a volume discharged per inch of precipitation. The chart on page 19, **Maine Combined Sewer Overflows Annual Volume Discharged per Inch of Precipitation**, illustrates the unitized CSO discharge volume per year. This chart shows a continuing downward trend in the volume of combined sewage discharged per inch of annual precipitation. Since 1989, overflow volumes have decreased from approximately **128** million gallons per inch of precipitation to **6.7** million gallons per inch of precipitation, a reduction of 94.8%. **This is the lowest total on record.** The reduction in CSO discharge per inch of rain mirrors the overall reduction in annual CSO discharge volume achieved statewide through 2022 (95%). This analysis is useful as a general indicator of the CSO abatement progress that is being accomplished.
- 5) Precipitation and the CSO volume discharged does not have a simple linear relationship. Still, generally, as precipitation levels increase, the volume of combined sewage being discharged per inch of precipitation would increase, because of the sewers finite capacity to capture more storm water. Once the capacity of the combined sewer system is reached, any additional rainfall or snowmelt would overflow the already inundated system.

- 6) The susceptibility of a CSO Permittee's sewer collection system to excessive inflow and infiltration (I&I) is dependent on many factors including age and condition of pipe, degree of separation, quality of the original installation, how well the system has been maintained, etc. Therefore, wet weather conditions and precipitation patterns affect individual CSO Permittees differently. Systems with a large number of catch basins or roof drains still connected, or with a high percentage of impermeable surfaces, may be influenced to a greater degree by the inflow generated by intense summer storms. In communities where the sanitary and storm systems are largely separated and inflow is not the main challenge, the cause of wet weather discharges might be more infiltration based. In these systems a high ground water table, often occurring in the spring, can promote infiltration into the collection system via leaky pipes and manholes. Therefore, direct comparisons between Permittees regarding their CSO abatement progress could be misleading.
- 7) Starting in 2018 the Annual Maine Combined Sewer Overflow Status Report has included a new section which summarizes the level of treatment provided by each of the fourteen (14) Maine Permittees which have a CSO Related Bypass of secondary treatment. The **Maine CSO Permittee Level of Treatment** summary included on page 25 provides the total annual volume of wastewater collected by each of the fourteen "bypass" systems, the percentage which receives secondary treatment, the percentage which receives only primary treatment (the bypass volume), and the percentage which receives no treatment (CSO volume). The summary is a good indication of which CSO Permittees are maximizing the percentage of flows which receive secondary treatment, and whether certain systems are overly reliant on their CSO bypass.
- 8) In addition to the CSO storage facilities mentioned previously, Lewiston/Auburn are currently in the planning/design stage to add 2.1 MG of off-line storage at their LAWPCA treatment plant. The storage tank at LAWPCA will be on line by the end of 2026.

Recognitions

- 1) In 2022, the following CSO Permittees had their **lowest annual CSO discharge on record**: City of Bath, City of Biddeford, City of Gardiner, Greater Augusta Utility District, and City of Portland/PWD. Congratulations on this achievement!
- 2) In 2022, the following CSO Permittees had their **lowest, or matched their lowest, number of annual CSO events on record**: City of Auburn, City of Gardiner, City of Lewiston, City of Skowegan, and City of Westbrook. Congratulations on this achievement!
- 3) In 2022, the following CSO Permittees had **zero CSO events and zero CSO discharge**: Town of Bucksport, Kennebec Sanitary Treatment District, Paris Utility District, City of Rockland. Highest honors!
- 4) Paris Utility District (PUD) is entering the final year of their post construction monitoring phase (PCMP) and is poised to be the next CSO permittee to exit the CSO program. PUD has had no CSO discharge for over ten years. Their final CSO has been

converted to an Emergency Overflow to protect the WWTF from flooding and will be monitored continuously. Reaching the end of one's CSO abatement effort and being able to exit the CSO program is a major achievement which should be celebrated. Congratulations to PUD. Well done!

- 5) Other CSO permittees that have entered the PCMP include: Town of Bucksport, City of Gardiner, City of Old Town, Town of Cape Elizabeth – Ottawa Road
- 6) CSO Permittees nearing the completion of their construction phase of CSO abatement, and the start of post construction monitoring, include: City of Belfast, City of Calais.
- 7) We'd also like to recognize those CSO Permittees that treated more than 99% of their total flow volume to secondary treatment standards. They include: Town of Bar Harbor, City of Belfast, City of Brewer, City of Gardiner, Greater Augusta Utility District, Kennebec Sanitary Treatment District, Town of Machias, Town of Madawaska, Town of Mechanic Falls, City of Old Town, Town of Orono, Paris Utility District, City of Saco, City of South Portland, and City of Westbrook/PWD.
- 8) CSO permittees also separated an additional 124 catch basins from their sewer collection systems in 2022 with Portland/PWD leading the way with 55, followed by Biddeford with 29, Bath with 15, Lewiston with 13 and GAUD with 5.
- 9) The City of Portland accomplished large reductions at two CSOs which discharge to sensitive receiving waters, CSO 039 (Nason Brook) and CSO 042 (Capisic Brook). CSO discharge into these two brooks, which had averaged 8.77 MG over the previous five years, dropped to 363,000 gallons in 2022. Excellent work by the City.
- 10) After two years of field investigation and SSES activities the City of Biddeford verified the number of catch basins connected to the sewer system was approximately 450, not the much higher total of 970+ which had been reported in prior years. This is a large step forward for the City, one in which they've gained a true understanding of the degree to which the sewer collection system in Biddeford is combined.
- 11) CSO communities cleaned over 990,000 lineal feet of sewer mains and conducted closed circuit TV inspection (CCTV) of 674,025 lineal feet of mains with Lewiston, South Portland, and GAUD pursuing the most aggressive cleaning and inspection programs. I/I investigations were conducted on a total of 856,990 lineal feet of sewers in 2022 with Brewer, Rockland and Belfast leading the way.

Maine Combined Sewer Overflow (CSO) Permittee List

(As of December 31, 2022)



| | COMMUNITY/PERMITTEE | Outfalls | Regulators | No. of CSO Outfalls & Receiving Water |
|-----|---|------------|------------|--|
| 1. | AUBURN SEWERAGE DISTRICT | 1 | 1 | 1-Androscoggin R. |
| 2. | BANGOR | 8 | 8 | 5-Kenduskeag Str., 3-Penobscot R. |
| 3. | BAR HARBOR (Hulls Cove) | 1 | 1 | 1-Frenchman Bay |
| 4. | BAR HARBOR (Main Plant) | 3 | 3 | 2-Frenchman Bay, 1-Eddie Brook |
| 5. | BATH | 4 | 4 | 4-Kennebec R. |
| 6. | BELFAST | 2 | 2 | 2-Passagassawakeag R./Belfast Hbr. |
| 7. | BIDDEFORD | 7 | 7 | 7-Saco R. |
| 8. | BREWER | 4 | 4 | 3-Penobscot R., 1-Sedgeunkendunk Str. |
| 9. | BUCKSPORT | 0 | 0 | SWIRL to Penobscot R. |
| 10. | CALAIS | 3 | 3 | 2-St. Croix R., 1-Landing Bk. |
| 11. | CAPE ELIZABETH – Ottawa Road PS (Co-Permittees: So. Portland, PWD, & Cape Elizabeth) | 1 | 1 | 1-Atlantic O. |
| 12. | GARDINER | 1 | 1 | 1-Kennebec R. |
| 13. | GREATER AUGUSTA UTILITY DISTRICT (GAUD) & Hallowell Sanitary Sewers & CSO | 13 | 17 | 13-Kennebec R. |
| 14. | HAMPDEN | 1 | 1 | 1-Souadabscook Str. |
| 15. | KENNEBEC SANITARY TREATMENT District (KSTD).... | 2 | 2 | 2-Kennebec R. |
| 16. | LEWISTON | 8 | 9 | 3-Androscoggin R., 1-Goff Bk./Hart Bk., 4-Jepson Bk. |
| 17. | LEWISTON-AUBURN Water Pollution Control Authority (LAWPCA) | 1 | 1 | 1-Androscoggin R. |
| 18. | MACHIAS | 2 | 2 | 2-Machias R. |
| 19. | MADAWASKA | 2 | 2 | 2-St. John R. |
| 20. | MECHANIC FALLS SANITARY DISTRICT | 2 | 2 | 2-Little Androscoggin R. |
| 21. | MILFORD | 1 | 1 | 1-Penobscot R. |
| 22. | OLD TOWN | 3 | 3 | 2-Penobscot R., 1-Stillwater R. |
| 23. | ORONO | 1 | 1 | 1-Penobscot R. |
| 24. | PARIS UD | 0 | 0 | 0-Little Androscoggin R. |
| 25. | PORTLAND – CITY | 8 | 13 | 4-Back C., 1-Capisic Bk., 2-Portland Hbr., 1-Nason Bk. to Fore R. (marsh) |
| 26. | PORTLAND – PORTLAND WATER DISTRICT (PWD) .. | 16 | 16 | 5-Back C., 3-Casco B., 4-Fore R., 4-Portland Hbr. |
| 27. | RANDOLPH | 1 | 1 | 1-Kennebec R. |
| 28. | ROCKLAND | 1 | 1 | 1-Rockland Hbr. |
| 29. | SACO | 1 | 1 | 1-Saco R. |
| 30. | SKOWHEGAN | 5 | 5 | 5-Kennebec R. |
| 31. | SOUTH PORTLAND | 4 | 4 | 1-Barberry Ck., 1-Fore R., 1-Calvery P., 1-Portland Hbr. |
| 32. | WESTBROOK | 5 | 5 | 5-Presumpscot R. |
| 33. | WINSLOW | 2 | 2 | 1-Sebasticook R., 1-Kennebec R. |
| 34. | WINTERPORT SEWERAGE DISTRICT | 1 | 1 | 1-Penobscot R. |
| | TOTAL CSOs | 115 | 125 | |

34 CSO Permits, permitting 31 CSO Towns/Cities/Districts/Authorities

Two or more permits in one CSO Town/City

Two CSO Towns/Cities covered in one permit

Permittee has entered post-construction monitoring period prior to exiting the CSO program

CSO Outfall – where wastewater is discharged to the receiving water

CSO Regulator – where wastewater exits the sanitary sewer system

Bold = 9 Permittees with sewer system only. Sewers discharge to a POTW controlled by another entity.



Maine CSO Permittee Flow Data

| | | Annual Volume (Gallons) | | | | | | | | | | | | | | | | |
|---|-----------------------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Permittee | NPDES Permit No. | 1987 | 1988 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| Auburn S.D. | ME0100005 | 99,720,000 | 99,720,000 | 23,984,272 | 19,440,841 | 12,952,500 | 19,234,856 | 12,404,500 | 3,717,000 | 1,286,000 | 2,928,519 | 814,738 | 1,117,809 | 1,656,736 | 997,100 | 219,600 | 439,796 | 286,954 |
| Bangor | ME0100781 | 635,000,000 | 635,000,000 | 378,640,000 | 347,360,000 | 389,300,000 | 146,000,000 | 69,940,000 | 32,140,000 | 87,748,000 | 40,109,000 | 48,586,000 | 13,310,000 | 50,547,000 | 96,009,000 | 58,745,000 | 77,720,893 | 52,468,359 |
| Bar Harbor | ME0101214 & ME0102466 | 32,000,000 | 32,000,000 | 12,601,889 | 11,935,337 | 6,930,405 | 2,563,669 | 3,776,092 | 407,010 | 1,561,139 | 2,335,692 | 277,000 | 225,200 | 562,221 | 2,757,979 | 971,376 | 3,816,271 | 3,141,462 |
| Bath | ME0100021 | 600,000,000 | 600,000,000 | 24,383,599 | 11,323,060 | 12,930,203 | 10,067,181 | 12,199,904 | 3,297,259 | 4,990,910 | 2,727,901 | 1,608,037 | 1,697,081 | 3,753,899 | 2,800,232 | 2,874,579 | 1,806,487 | 1,583,361 |
| Belfast | ME0101532 | 736,000 | 736,000 | 198,370 | 260,036 | 486,919 | 490,495 | 0 | 0 | 0 | 0 | 0 | 0 | 305,071 | 330,905 | 96,444 | 264,774 | 444,090 |
| Biddeford | ME0100048 | 400,000,000 | 400,000,000 | 416,581,800 | 435,972,508 | 381,853,242 | 113,907,851 | 141,198,828 | 90,581,675 | 194,302,147 | 95,830,208 | 99,492,656 | 49,504,091 | 70,814,300 | 69,451,000 | 34,644,000 | 26,649,500 | 14,543,300 |
| Brewer | ME0100072 | 750,000,000 | 750,000,000 | 289,560,294 | 229,270,683 | 227,139,515 | 140,065,515 | 435,548 | 58,310 | 139,280 | 465,000 | 87,374 | 0 | 366,687 | 868,060 | 76,188 | 4,235,000 | 783,656 |
| Bucksport | ME0100111 | 53,000,000 | 53,000,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Calais | ME0100129 | 42,000,000 | 42,000,000 | 18,989,779 | 21,263,750 | 31,134,915 | 16,860,000 | 18,210,000 | 18,311,206 | 20,775,288 | 5,292,778 | 4,624,354 | 4,512,300 | 10,000,030 | 2,403,000 | 1,839,927 | 587,400 | 3,848,188 |
| Cape Elizabeth | ME0102806 | 5,400,000 | 5,400,000 | 2,567,000 | 3,527,000 | 3,955,292 | 1,072,000 | 2,735,000 | 41,000 | 1,440,000 | 277,000 | 251,000 | 277,000 | 375,000 | 432,000 | 2,000 | 230,000 | 3,300 |
| Corinna S.D. | ME0100153 | 40,000,000 | 40,000,000 | | | | | | | | | | | | | | | |
| Dover-Foxcroft | ME0100501 | 16,000 | 16,000 | | | | | | | | | | | | | | | |
| East Millinocket | ME0100196 | 1,200,000 | 1,200,000 | | | | | | | | | | | | | | | |
| Fairfield | ME0102393 | 300,000 | 300,000 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | |
| Fort Kent U.D. | ME0102369 | 3,000 | 3,000 | | | | | | | | | | | | | | | |
| Gardiner | ME0101702 | 44,000,000 | 44,000,000 | 5,000,000 | 1,380,000 | 10,453,761 | 4,655,000 | 4,455,400 | 1,287,000 | 1,950,000 | 2,299,300 | 665,000 | 2,877,000 | 4,893,100 | 2,877,000 | 9,932,000 | 1,993,000 | 61,000 |
| Greater Augusta U.D. | ME0100013 | 72,554,000 | 72,554,000 | 48,965,215 | 15,723,000 | 49,670,000 | 31,589,000 | 38,408,000 | 26,901,000 | 17,646,000 | 21,680,000 | 7,120,000 | 3,680,000 | 3,771,000 | 3,482,000 | 6,074,000 | 3,082,000 | 1,989,200 |
| Hallowell W.D. - 2008 GAUD | ME0101010 | 350,000 | 350,000 | | | | | | | | | | | | | | | |
| Hampden | ME0102512 | 1,201,000 | 39,600 | 0 | 500,000 | 500,000 | 500,000 | 0 | 0 | 0 | 24,105 | 151,055 | 0 | 1,250,000 | 1,933,080 | 244,200 | 319,902 | 205,128 |
| Kennebec S.T.D. | ME0100854 | 2,500,000 | 2,500,000 | 2,209,107 | 0 | 0 | 0 | 135,444 | 0 | 0 | 1,797,554 | 0 | 0 | 324,228 | 0 | 0 | 0 | 0 |
| Kittery | ME0100285 | 350,000 | 350,000 | | | | | | | | | | | | | | | |
| Lewiston | ME0100994 | 208,900,000 | 208,900,000 | 152,039,341 | 116,557,656 | 113,285,042 | 78,521,909 | 90,103,658 | 32,772,894 | 21,355,331 | 30,574,217 | 25,477,213 | 12,808,039 | 18,552,725 | 21,743,196 | 22,923,950 | 8,480,003 | 20,781,523 |
| Lewiston-Auburn W.P.C.A. | ME0101478 | 480,000,000 | 480,000,000 | 292,244,000 | 207,794,000 | 156,986,000 | 108,278,048 | 113,380,000 | 63,567,000 | 68,569,000 | 27,838,000 | 18,694,000 | 21,856,000 | 25,735,000 | 28,518,000 | 33,659,000 | 14,531,000 | 31,190,000 |
| Lincoln S.D. | ME0101796 | 2,400,000 | 2,400,000 | | | | | | | | | | | | | | | |
| Lisbon | ME0100307 | 600,000 | 600,000 | | | | | | | | | | | | | | | |
| Livermore Falls | ME0100315 | | | | | | | | | | | | | | | | | |
| Machias | ME0100323 | 7,000,000 | 7,000,000 | 2,328,905 | 4,073,938 | 2,791,962 | 1,180,678 | 938,330 | 1,857,988 | 2,202,444 | 1,067,647 | 910,259 | 203,815 | 603,687 | 145,425 | 100,035 | 122,833 | 418,811 |
| Madawaska | ME 0101681 | 3,200,000 | 3,200,000 | 24,194,225 | 15,800,000 | 1,107,610 | 1,490,000 | 377,488 | 349,400 | 1,830,563 | 0 | 0 | 1,562,430 | 3,988,640 | 8,205,821 | 10,242 | 422,838 | 616,123 |
| Mechanic Falls S.D. | ME0100391 | 18,000,000 | 18,000,000 | 11,223,600 | 6,231,000 | 9,250,000 | 5,033,002 | 9,638,035 | 3,663,997 | 1,385,675 | 1,013,807 | 927,473 | 603,528 | 194,728 | 616,537 | 379,608 | 63,330 | 131,488 |
| Milford | ME0102695 | 220,000 | 220,000 | 88,365 | 66,285 | 52,006 | 407,151 | 26,970 | 0 | 10,000 | 25,000 | 20,000 | 0 | 0 | 29,781 | 8,638 | 0 | 43,153 |
| Milo W.D. | ME0100439 | 10,000 | 10,000 | 750 | | | | | | | | | | | | | | |
| Old Town | ME0100471 | 6,300,000 | 6,300,000 | 254,967 | 0 | 125,000 | 0 | 0 | 0 | 0 | 30,000 | 10,000 | 0 | 270,801 | 61,508 | 20,698 | 12,128 | 7,608 |
| Orono | ME0100498 | 31,000,000 | 31,000,000 | 4,820,000 | 371,471 | 2,416,910 | 1,260,837 | 0 | 0 | 0 | 1,320,000 | 1,461,000 | 0 | 1,460,000 | 698,817 | 1,192,467 | 905,504 | 1,102,236 |
| Paris U.D. | ME 0100951 | 1,000,000 | 1,000,000 | 84,000 | 0 | 110,000 | 0 | 1,020,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Portland & PWD | City-ME0101435 / PWD-ME0102075 | 1,800,000,000 | 1,800,000,000 | 883,105,087 | 872,751,281 | 780,188,153 | 496,288,000 | 704,319,257 | 179,403,901 | 414,421,500 | 254,663,330 | 318,359,691 | 175,675,000 | 283,612,831 | 184,453,600 | 178,744,981 | 194,468,501 | 163,964,790 |
| Presque Isle | ME0100561 | 27,500,000 | 27,500,000 | | | | | | | | | | | | | | | |
| Randolph | ME0102423 | 10,000,000 | 10,000,000 | 1,413,880 | 488,645 | 285,719 | 223,934 | 988,434 | 50,054 | 101,183 | 0 | 515,240 | 0 | 105,695 | 3,500 | 67,300 | 1,400 | 8,900 |
| Rockland | ME0100595 | 47,000,000 | 47,000,000 | 0 | 0 | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Saco | ME 0101117 | 176,000,000 | 176,000,000 | 100,000 | 27,015 | 924,014 | 1,372,128 | 2,964,929 | 1,100,985 | 1,739,425 | 1,057,000 | 599,000 | 304,000 | 2,139,000 | 2,675,000 | 978,000 | 2,487,000 | 242,000 |
| Sanford S.D. | ME0100617 | 4,000,000 | 4,000,000 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | |
| Skowhegan | ME0100625 | 48,000,000 | 48,000,000 | 61,963,453 | 6,073,919 | 7,550,855 | 4,757,994 | 4,238,875 | 4,746,538 | 3,861,193 | 6,786,698 | 4,168,672 | 738,844 | 4,379,019 | 1,711,809 | 1,073,711 | 252,870 | 1,742,309 |
| South Portland | ME0100633 | 500,000,000 | 500,000,000 | 12,883,433 | 12,183,196 | 42,095,393 | 14,906,594 | 37,134,882 | 1,858,579 | 15,531,600 | 11,161,602 | 6,240,350 | 2,033,229 | 3,533,710 | 8,651,990 | 859,095 | 2,511,052 | 1,561,258 |
| Westbrook | ME0100846 | 50,000,000 | 50,000,000 | 7,379,066 | 7,069,280 | 14,105,989 | 12,202,000 | 18,903,485 | 6,222,000 | 11,932,000 | 4,423,000 | 7,447,100 | 1,285,000 | 1,631,000 | 9,816,000 | 3,227,000 | 1,038,000 | 926,156 |
| Winslow | ME0102628 | 1,300,000 | 1,300,000 | 235,000 | 5,001 | 200,000 | 63,354 | 1,327,119 | 7,070 | 0 | 164,549 | 70,144 | 237,400 | 601,045 | 3,654,519 | 876,296 | 193,076 | 3,196,000 |
| Winterport S.D. | ME0100749 | 680,000 | 680,000 | 252,000 | 18,000 | 0 | 0 | 0 | 0 | 60,000 | 90,000 | 0 | 0 | 138,000 | 0 | 0 | 108,000 | 54,000 |
| Yarmouth | ME0100765 | 1,000 | 1,000 | | | | | | | | | | | | | | | |
| Total Annual Discharge Volume (Gallons) | | 6,203,441,000 | 6,202,279,600 | 1,819,925,699 | 2,678,291,397 | 2,347,466,902 | 2,258,781,405 | 1,212,991,196 | 1,289,260,178 | 472,341,866 | 874,838,678 | 515,981,907 | 548,577,356 | 294,507,766 | 495,565,153 | 455,326,859 | 359,840,335 | 305,344,353 |
| Total Annual Discharge Volume (Billion Gallons) | | 6.20 | 6.20 | 1.82 | 2.68 | 2.35 | 2.26 | 1.21 | 1.29 | 0.47 | 0.87 | 0.52 | 0.55 | 0.29 | 0.50 | 0.46 | 0.36 | 0.31 |

Notes: For legibility, discharge volume data for years 1989-2007 are not shown. Permittees highlighted in gray no longer maintain a CSO permit. Numbers in blue are estimated from LTCP/MP or subsequent high flow. Biddeford CSO volumes 2005-2016 have been adjusted due to under-estimation of flows. Brewer CSO volumes in 2022 were adjusted to account for missing CSO discharge data.



Maine CSO Permittee Annual Number of CSO Discharge Events

| Permittee | NPDES Permit No. | 1987 | 1988 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Auburn S.D. | ME0100005 | 80 | 80 | 59 | 61 | 37 | 11 | 8 | 5 | 5 | 2 | 8 | 2 | 2 | 5 | 4 | 3 | 2 |
| Bangor | ME0100781 | 53 | 53 | 65 | 78 | 73 | 54 | 29 | 27 | 34 | 20 | 28 | 21 | 23 | 34 | 16 | 16 | 28 |
| Bar Harbor | ME0101214 & ME0102466 | 155 | 155 | 27 | 28 | 19 | 6 | 13 | 6 | 17 | 5 | 2 | 3 | 7 | 14 | 5 | 8 | 11 |
| Bath | ME0100021 | 64 | 64 | 29 | 21 | 20 | 12 | 23 | 18 | 18 | 8 | 14 | 10 | 14 | 15 | 17 | 14 | 20 |
| Belfast | ME0101532 | 7 | 7 | 4 | 3 | 6 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 3 | 2 | 3 | 5 |
| Biddeford | ME0100048 | 180 | 180 | 53 | 46 | 28 | 100 | 146 | 77 | 88 | 48 | 57 | 55 | 41 | 45 | 43 | 43 | 40 |
| Brewer | ME0100072 | 95 | 95 | 59 | 56 | 50 | 45 | 5 | 3 | 3 | 1 | 2 | 0 | 4 | 4 | 2 | 8 | 7 |
| Bucksport | ME0100111 | 53 | 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Calais | ME0100129 | 15 | 15 | 10 | 14 | 8 | 6 | 14 | 8 | 14 | 6 | 7 | 9 | 15 | 6 | 2 | 2 | 10 |
| Cape Elizabeth | ME0102806 | 5 | 5 | 11 | 17 | 12 | 6 | 11 | 2 | 12 | 2 | 6 | 2 | 4 | 2 | 1 | 2 | 4 |
| Corinna S.D. | ME0100153 | 30 | 30 | | | | | | | | | | | | | | | |
| Dover-Foxcroft | ME0100501 | 8 | 8 | | | | | | | | | | | | | | | |
| East Millinocket | ME0100196 | 11 | 11 | | | | | | | | | | | | | | | |
| Fairfield | ME0102393 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | |
| Fort Kent U.D. | ME0102369 | 10 | 10 | | | | | | | | | | | | | | | |
| Gardiner | ME0101702 | 40 | 40 | 8 | 2 | 12 | 6 | 6 | 3 | 3 | 2 | 2 | 5 | 5 | 5 | 5 | 3 | 1 |
| Greater Augusta U.D. | ME0100013 | 80 | 80 | 34 | 35 | 32 | 37 | 29 | 22 | 29 | 17 | 17 | 29 | 35 | 26 | 24 | 11 | 14 |
| Hallowell W.D. - 2008 GAUD | ME0101010 | 14 | 14 | | | | | | | | | | | | | | | |
| Hampden | ME0102512 | 1 | 3 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 1 | 2 | 2 |
| Kennebec S.T.D. | ME0100854 | 15 | 15 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Kittery | ME0100285 | 7 | 7 | | | | | | | | | | | | | | | |
| Lewiston | ME0100994 | 80 | 80 | 71 | 58 | 68 | 45 | 38 | 27 | 23 | 37 | 35 | 28 | 24 | 27 | 15 | 14 | 14 |
| Lewiston-Auburn W.P.C.A. | ME0101478 | 80 | 80 | 38 | 36 | 44 | 37 | 22 | 32 | 26 | 17 | 17 | 10 | 20 | 19 | 23 | 14 | 22 |
| Lincoln S.D. | ME0101796 | 10 | 10 | | | | | | | | | | | | | | | |
| Lisbon | ME0100307 | 5 | 5 | | | | | | | | | | | | | | | |
| Livermore Falls | ME0100315 | | | | | | | | | | | | | | | | | |
| Machias | ME0100323 | 15 | 15 | 12 | 13 | 9 | 7 | 9 | 6 | 13 | 7 | 8 | 7 | 11 | 7 | 5 | 1 | 8 |
| Madawaska | ME 0101681 | 16 | 16 | 18 | 32 | 17 | 10 | 8 | 3 | 7 | 0 | 0 | 3 | 3 | 2 | 4 | 5 | 9 |
| Mechanic Falls S.D. | ME0100391 | 42 | 42 | 42 | 42 | 18 | 39 | 28 | 17 | 30 | 17 | 25 | 12 | 12 | 16 | 12 | 6 | 11 |
| Milford | ME0102695 | 8 | 8 | 4 | 1 | 3 | 2 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 2 |
| Milo W.D. | ME0100439 | 3 | 3 | 1 | | | | | | | | | | | | | | |
| Old Town | ME0100471 | 25 | 25 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 3 | 2 | 2 |
| Orono | ME0100498 | 30 | 30 | 7 | 3 | 3 | 2 | 0 | 0 | 0 | 2 | 4 | 0 | 1 | 2 | 3 | 3 | 3 |
| Paris U.D. | ME 0100951 | 5 | 5 | 2 | 0 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Portland & PWD | City-ME0101435 / PWD-ME0102075 | 100 | 100 | 87 | 104 | 79 | 88 | 70 | 63 | 75 | 58 | 56 | 38 | 49 | 46 | 41 | 61 | 52 |
| Presque Isle | ME0100561 | 26 | 26 | | | | | | | | | | | | | | | |
| Randolph | ME0102423 | 23 | 23 | 9 | 7 | 3 | 2 | 2 | 1 | 2 | 0 | 2 | 0 | 2 | 1 | 1 | 1 | 1 |
| Rockland | ME0100595 | 23 | 23 | 0 | 0 | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Saco | ME 0101117 | 44 | 44 | 12 | 9 | 10 | 4 | 21 | 15 | 19 | 13 | 12 | 7 | 15 | 6 | 17 | 15 | 9 |
| Sanford S.D. | ME0100617 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | |
| Skowhegan | ME0100625 | 160 | 160 | 58 | 17 | 23 | 21 | 25 | 36 | 28 | 20 | 23 | 23 | 21 | 23 | 21 | 16 | 4 |
| South Portland | ME0100633 | 23 | 23 | 10 | 10 | 12 | 13 | 12 | 7 | 9 | 2 | 3 | 2 | 4 | 3 | 3 | 2 | 6 |
| Westbrook (PWD) | ME0100846 | 50 | 50 | 50 | 11 | 12 | 16 | 13 | 60 | 70 | 49 | 38 | 2 | 6 | 4 | 3 | 2 | 2 |
| Winslow | ME0102628 | 20 | 20 | 3 | 3 | 2 | 3 | 9 | 1 | 0 | 1 | 3 | 1 | 1 | 2 | 3 | 2 | 4 |
| Winterport S.D. | ME0100749 | 8 | 8 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 3 | 2 |
| Yarmouth | ME0100765 | 4 | 4 | | | | | | | | | | | | | | | |
| Total Number of CSO Discharge Events | | 1748 | 1750 | 568 | 792 | 709 | 606 | 576 | 547 | 439 | 527 | 341 | 372 | 269 | 326 | 322 | 278 | 295 |

Note: For legibility, discharge event data for years 1989-2007 are not shown. Permittees highlighted in gray no longer maintain a CSO permit. Numbers in blue are estimated from LTCP/MP or other source.



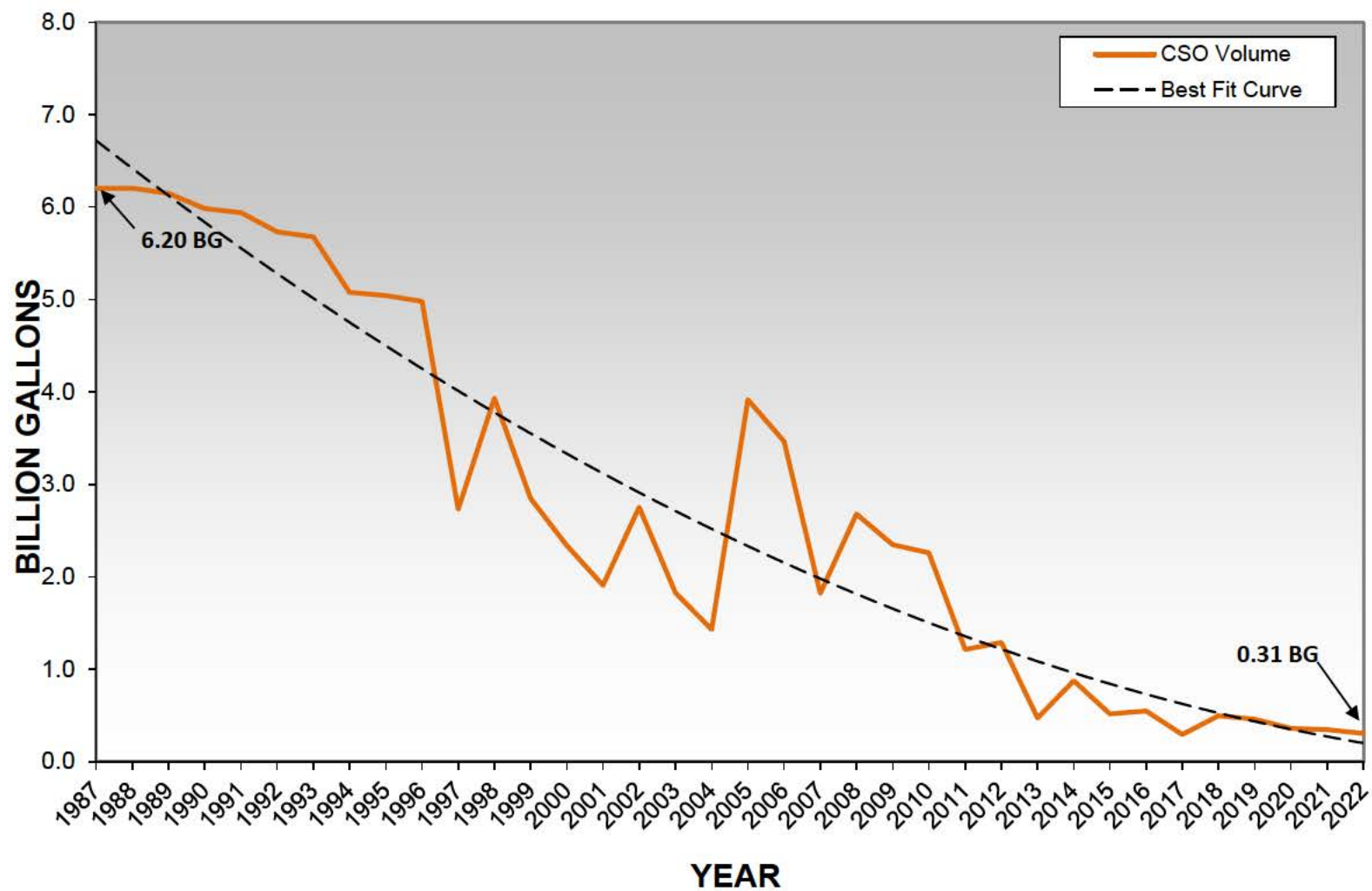
Maine CSO Permittee Annual Number of CSO Outfalls

| Permittee | NPDES Permit No. | Year Unknown | 1987 | 1988 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|-------------------------------------|-----------------------------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Auburn S.D. | ME0100005 | 11 | 11 | 11 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| Bangor | ME0100781 | 22 | 22 | 22 | 7 | 7 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 | 8 |
| Bar Harbor | ME0101214 & ME0102466 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Bath | ME0100021 | 9 | 9 | 9 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Belfast | ME0101532 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Biddeford | ME0100048 | 16 | 16 | 16 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 8 | 7 | 7 | 7 | 7 | 7 | 7 |
| Brewer | ME0100072 | 10 | 10 | 10 | 6 | 6 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Bucksport | ME0100111 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Calais | ME0100129 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 3 |
| Cape Elizabeth | ME0102806 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Corinna S.D. | ME0100153 | 5 | 5 | 5 | | | | | | | | | | | | | | | |
| Dover-Foxcroft | ME0100501 | 15 | 15 | 15 | | | | | | | | | | | | | | | |
| East Millinocket | ME0100196 | 5 | 5 | 5 | | | | | | | | | | | | | | | |
| Fairfield | ME0102393 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 0 | | | | | | | | | |
| Fort Kent U.D. | ME0102369 | 6 | 6 | 6 | | | | | | | | | | | | | | | |
| Gardiner | ME0101702 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Greater Augusta U.D. | ME0100013 | 31 | 31 | 31 | 24 | 23 | 22 | 22 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 16 | 13 |
| Hallowell W.D. – 2008 GAUD | ME0101010 | 1 | 1 | 1 | - | - | - | - | - | - | - | | | | | | | | |
| Hampden | ME0102512 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Kennebec S.T.D. | ME0100854 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 |
| Kittery | ME0100285 | 3 | 3 | 3 | | | | | | | | | | | | | | | |
| Lewiston | ME0100994 | 32 | 32 | 32 | 22 | 22 | 20 | 18 | 18 | 16 | 11 | 10 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Lewiston-Auburn W.P.C.A. | ME0101478 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Lincoln S.D. | ME0101796 | 1 | 1 | 1 | | | | | | | | | | | | | | | |
| Lisbon | ME0100307 | 6 | 6 | 6 | | | | | | | | | | | | | | | |
| Livermore Falls | ME0100315 | 5 | 5 | 5 | | | | | | | | | | | | | | | |
| Machias | ME0100323 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Madawaska | ME 0101681 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mechanic Falls S.D. | ME0100391 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Milford | ME0102695 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Milo W.D. | ME0100439 | 3 | 3 | 3 | 3 | | | | | | | | | | | | | | |
| Old Town | ME0100471 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Orono | ME0100498 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Paris U.D. | ME 0100951 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| Portland & PWD | City-ME0101435 / PWD-ME0102075 | 42 | 42 | 42 | 33 | 33 | 32 | 32 | 31 | 31 | 31 | 31 | 30 | 30 | 30 | 30 | 29 | 28 | 24 |
| Presque Isle | ME0100561 | 1 | 1 | 1 | | | | | | | | | | | | | | | |
| Randolph | ME0102423 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Rockland | ME0100595 | 8 | 8 | 8 | 2 | 2 | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Saco | ME 0101117 | 9 | 9 | 9 | 6 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 2 | 2 | 2 | 1 |
| Sanford S.D. | ME0100617 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 0 | | | | | | | | | |
| Skowhegan | ME0100625 | 10 | 10 | 10 | 8 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 5 | 5 | 5 | 5 |
| South Portland | ME0100633 | 35 | 28 | 28 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4 | 4 | 4 | 4 | 4 |
| Westbrook (PWD) | ME0100846 | 7 | 7 | 7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Winslow | ME0102628 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 |
| Winterport S.D. | ME0100749 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Yarmouth | ME0100765 | 2 | 2 | 2 | | | | | | | | | | | | | | | |
| Total Annual CSO Discharge Outfalls | | 350 | 338 | 338 | 183 | 177 | 171 | 164 | 163 | 159 | 149 | 145 | 143 | 142 | 140 | 133 | 131 | 130 | 115 |

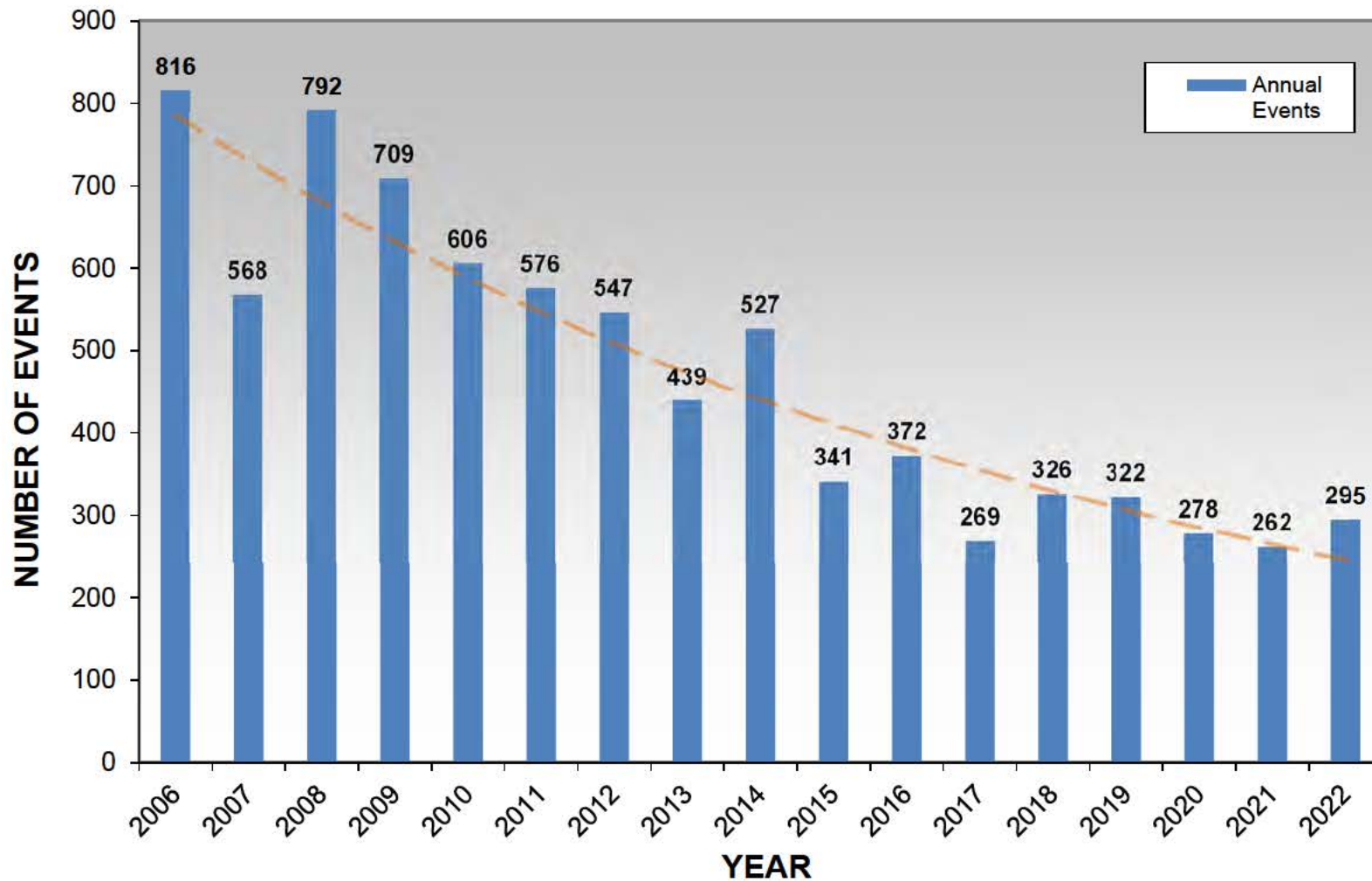
Note: For legibility, outfall data for years 1989-2007 are not shown. Permittees highlighted in gray no longer maintain a CSO permit. Numbers in blue are estimated from LTCP/MP or other source.



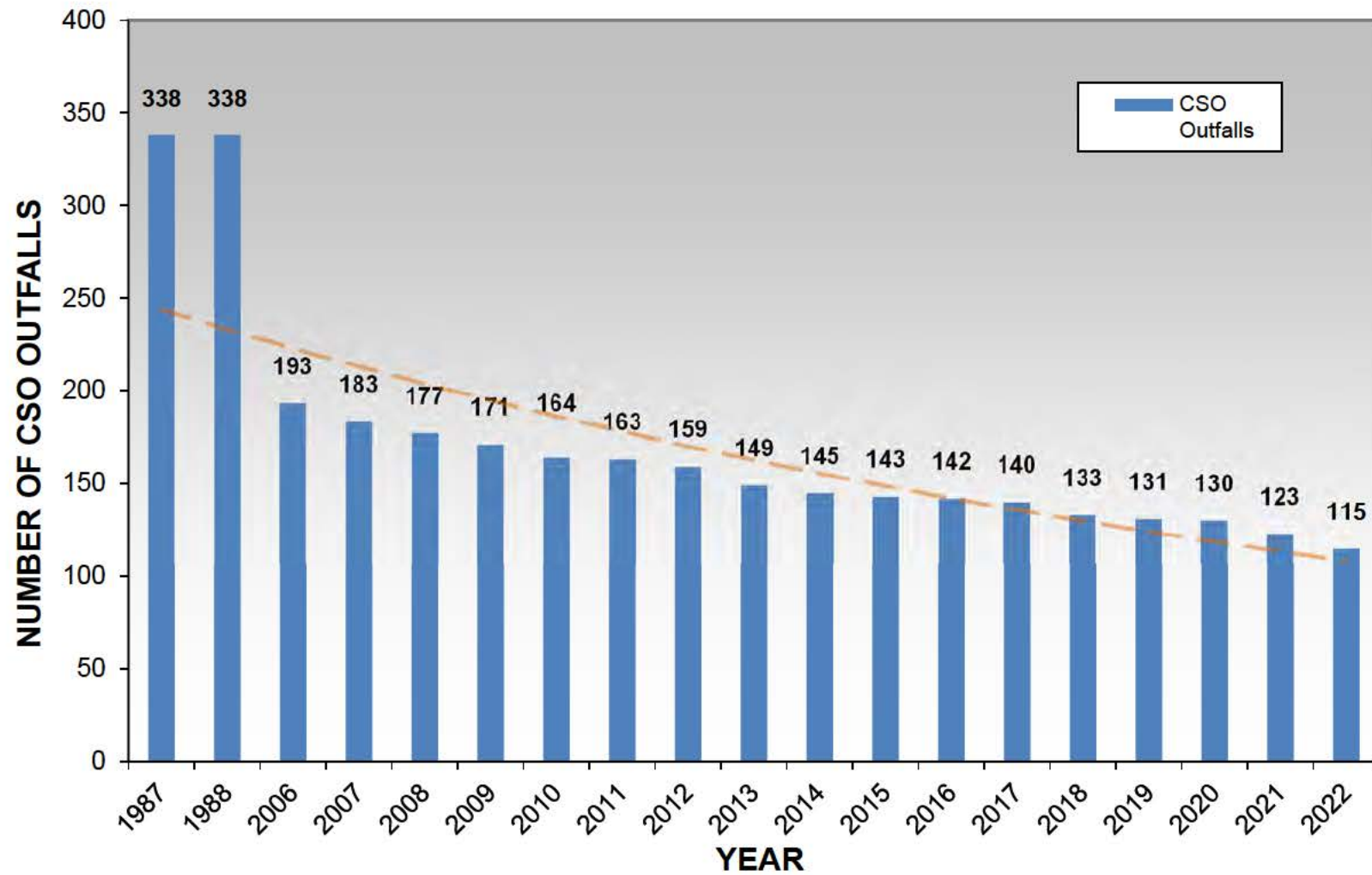
Maine – Statewide Combined Sewer Overflow (CSO) Volume Discharged



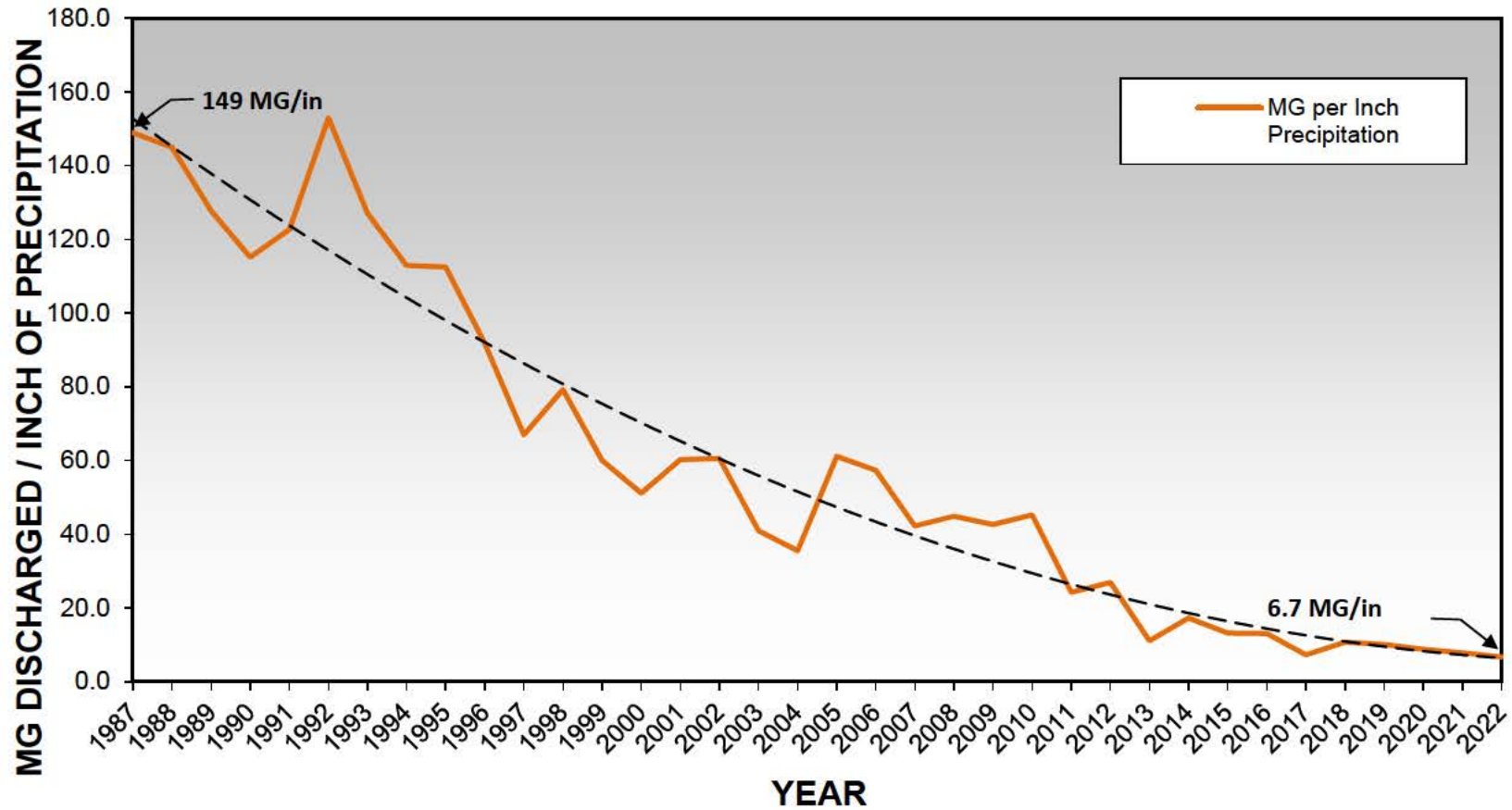
Maine – Statewide Combined Sewer Overflow (CSO) Annual Number of Discharge Events



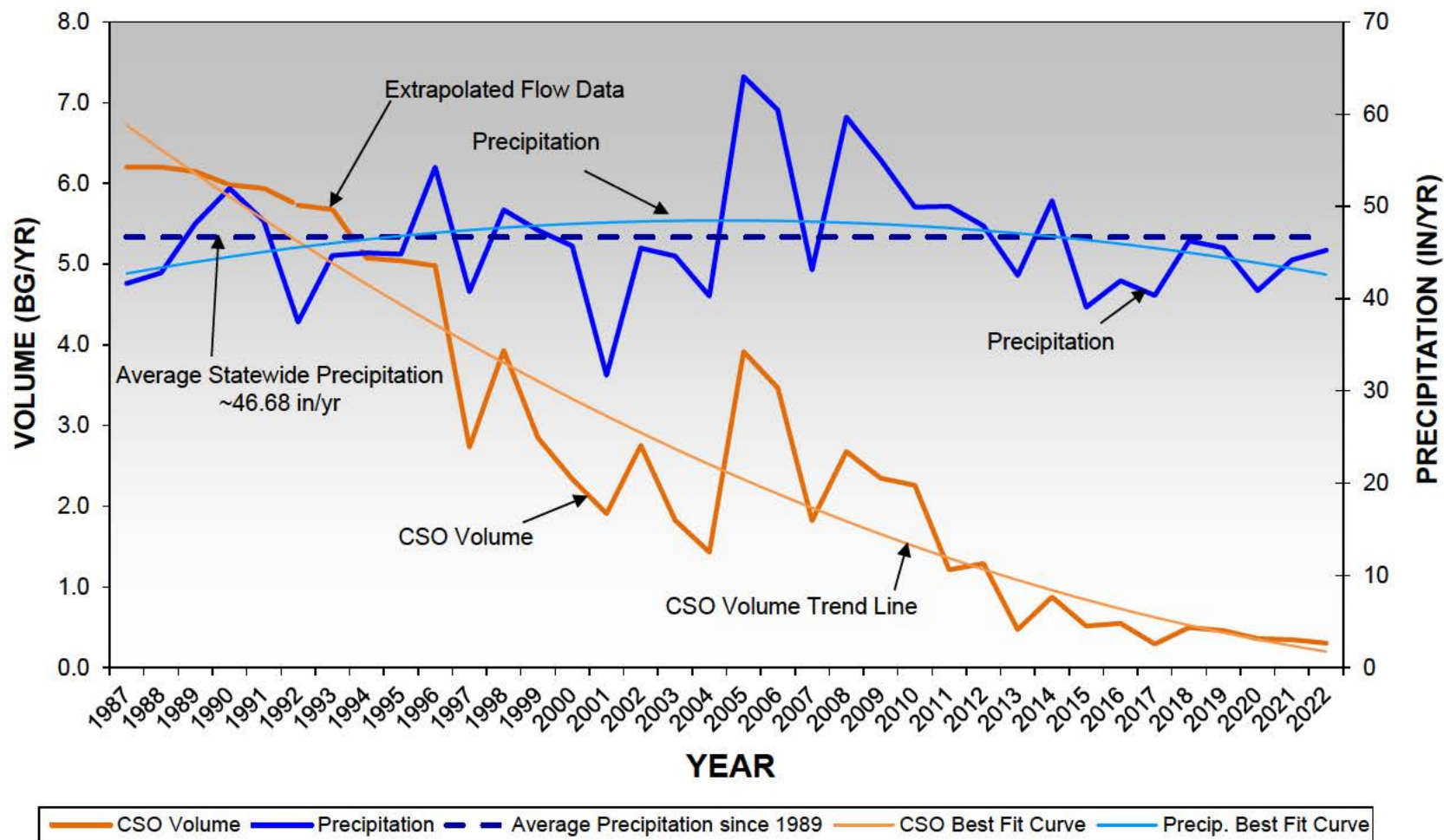
Maine – Statewide Combined Sewer Overflow (CSO) Outfalls



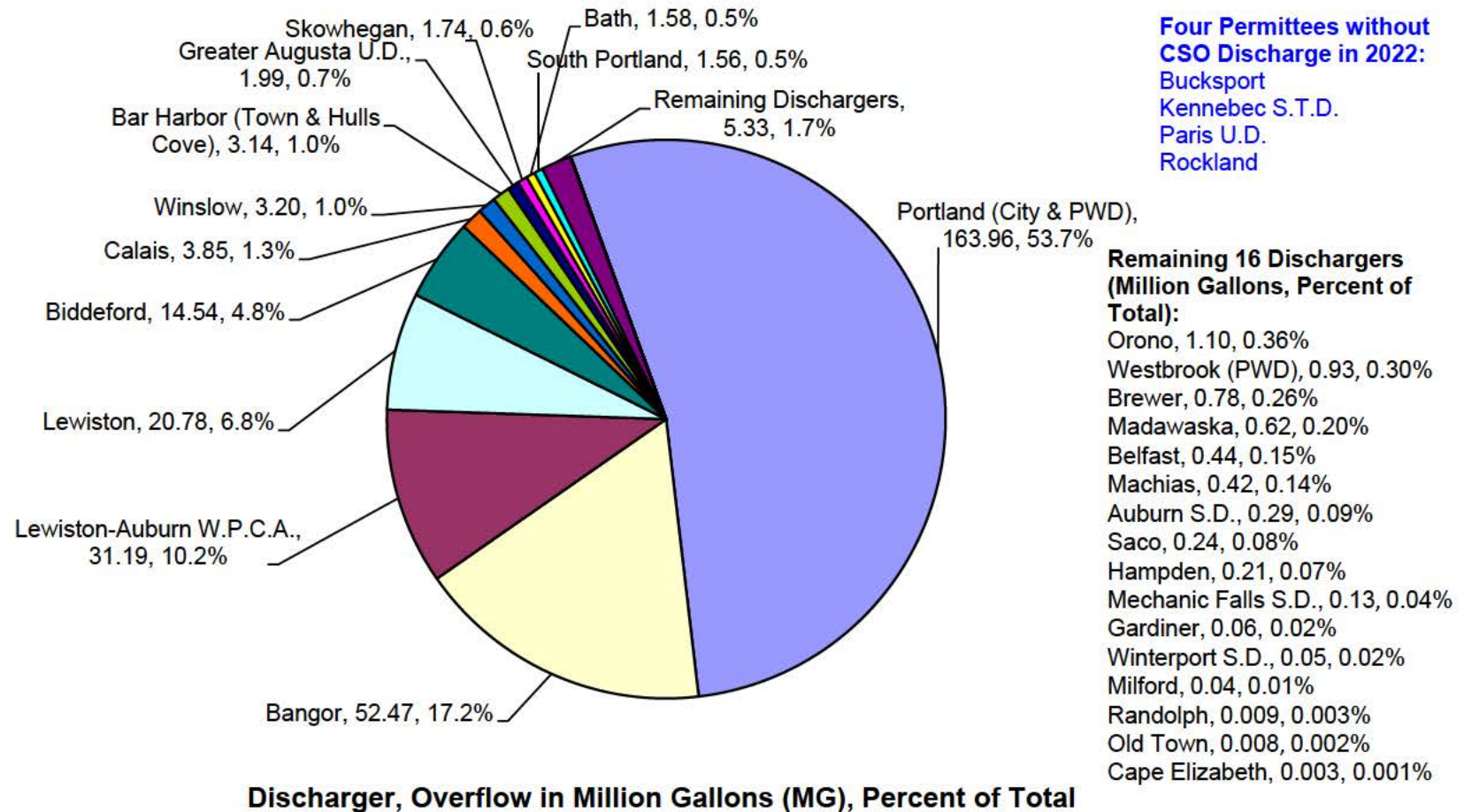
Maine – Statewide Combined Sewer Overflow (CSO) Annual Volume Discharged per Inch of Precipitation



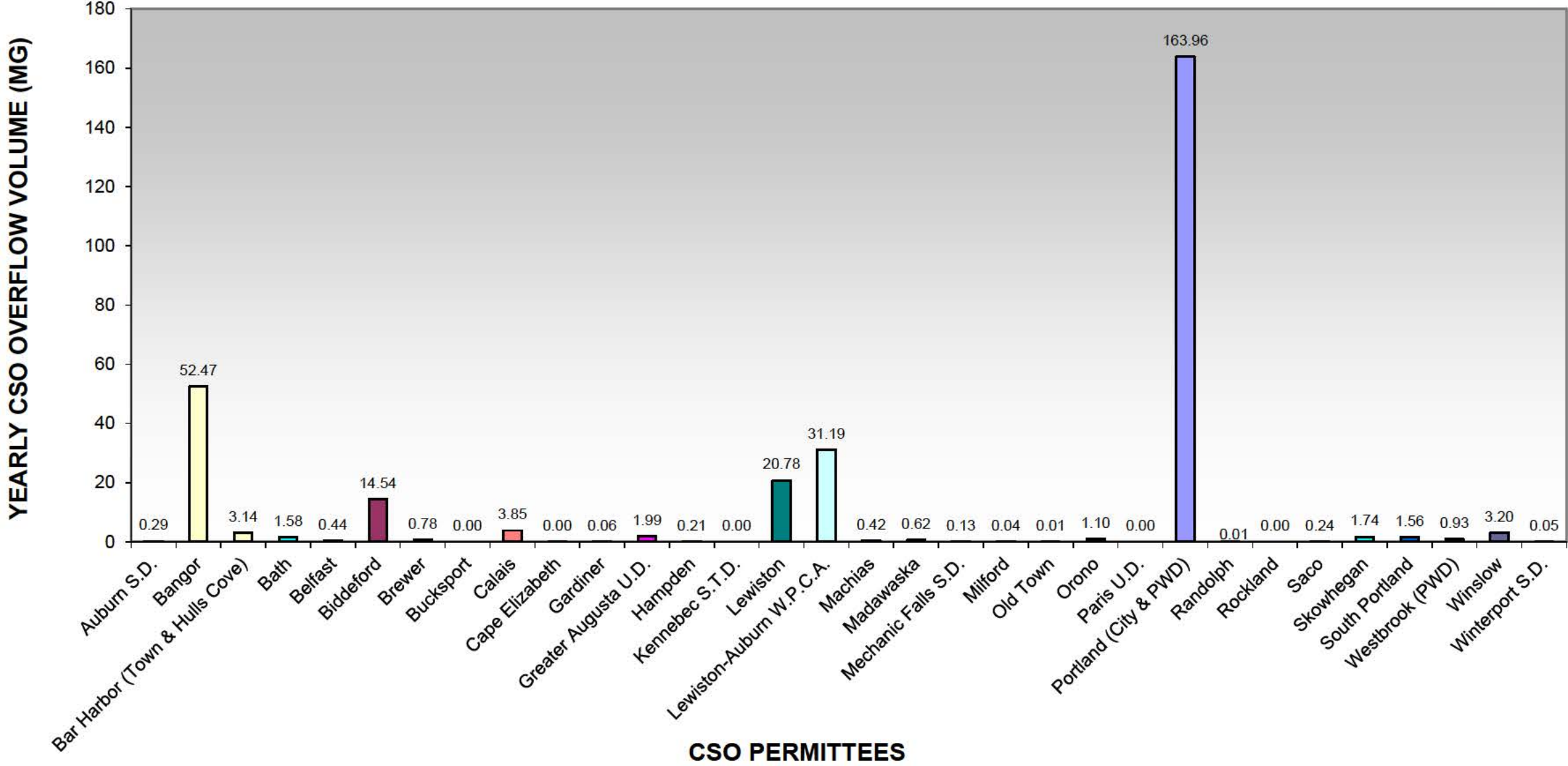
Maine – Yearly CSO Volumes and Precipitation



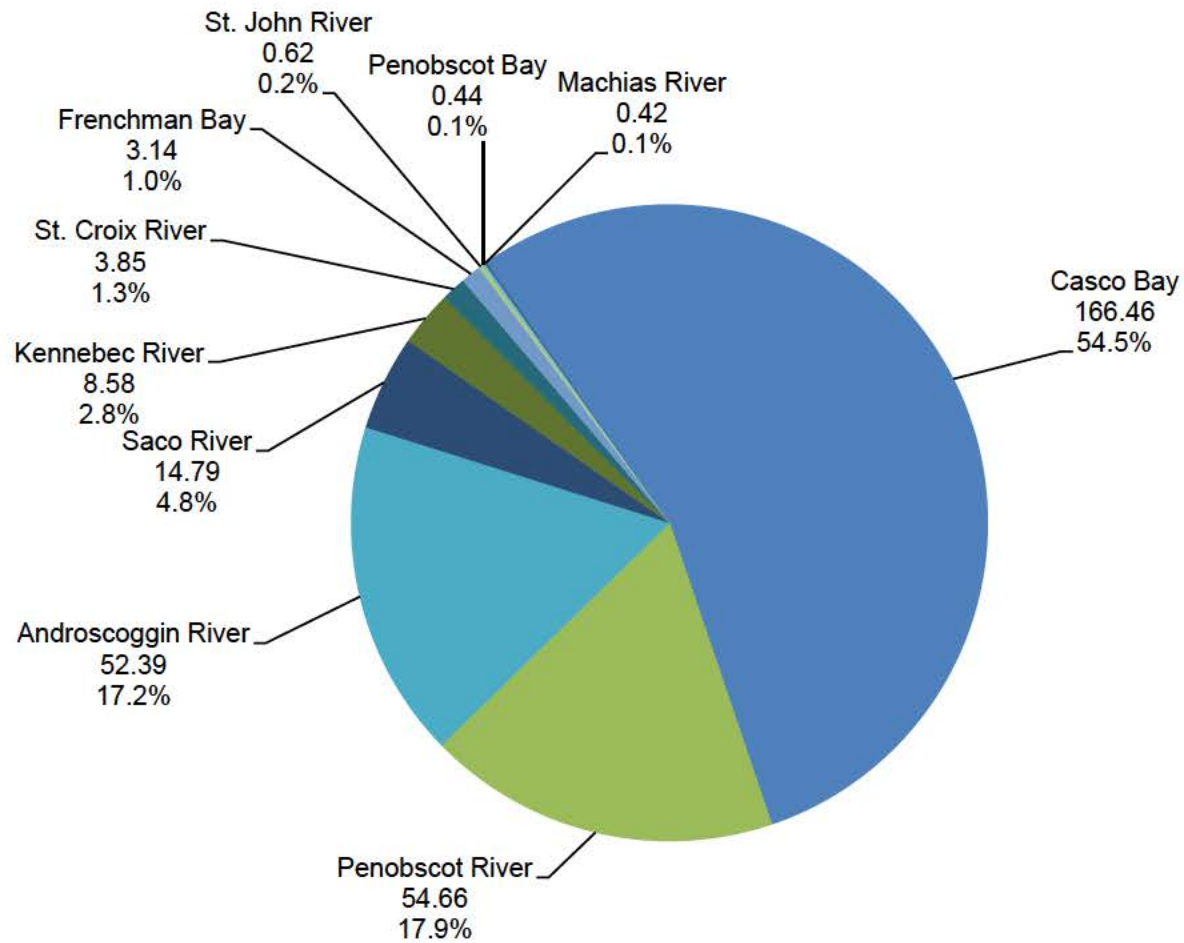
Maine 2022 CSO Flow Comparison **34 CSO Permittees** **30 Dischargers – 0.31 Billion Gallons**



Maine 2022 CSO Flow Comparison by Permittee
0.31 Billion Gallons



Maine 2022 CSO Volume Discharged by Watershed **0.31 Billion Gallons**



Receiving Waterbody, Overflow in Million Gallons (MG), Percent of Total



Maine Annual CSO Volume Discharged by Watershed

| | Permittee | Annual Discharge Volume (Gallons) | | | | | |
|--------------------|----------------------------|-----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| Androscoggin River | Auburn SD | 1,117,809 | 1,656,736 | 997,100 | 219,600 | 439,796 | 286,954 |
| | Lewiston-Auburn WPCA | 21,856,000 | 25,735,000 | 28,518,000 | 33,659,000 | 14,531,000 | 31,190,000 |
| | Lewiston | 12,808,039 | 18,552,725 | 21,743,196 | 22,923,950 | 8,480,003 | 20,781,523 |
| | Mechanic Falls SD | 603,528 | 194,728 | 616,537 | 379,608 | 63,330 | 131,488 |
| | Paris UD | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sub Total | 36,385,376 | 46,139,189 | 51,874,833 | 57,182,158 | 23,514,129 | 52,389,965 |
| Casco Bay | Cape Elizabeth | 277,000 | 375,000 | 432,000 | 2,000 | 230,000 | 3,300 |
| | Portland-City & PWD | 175,675,000 | 283,612,831 | 184,453,600 | 178,744,981 | 194,468,501 | 163,964,790 |
| | South Portland | 2,033,229 | 3,533,710 | 8,651,990 | 859,095 | 2,511,052 | 1,561,258 |
| | Westbrook | 1,285,000 | 1,631,000 | 9,816,000 | 3,227,000 | 1,038,000 | 926,156 |
| | Sub Total | 179,270,229 | 289,152,541 | 203,353,590 | 182,833,076 | 198,247,553 | 166,455,504 |
| Frenchman Bay | Bar Harbor | 225,200 | 562,221 | 2,757,979 | 971,376 | 3,816,271 | 3,141,462 |
| | Sub Total | 225,200 | 562,221 | 2,757,979 | 971,376 | 3,816,271 | 3,141,462 |
| Kennebec River | Bath | 1,697,081 | 3,753,899 | 2,800,232 | 2,874,579 | 1,806,487 | 1,583,361 |
| | Gardiner | 2,877,000 | 4,893,100 | 2,877,000 | 9,932,000 | 1,993,000 | 61,000 |
| | Greater Augusta UD | 3,680,000 | 3,771,000 | 3,482,000 | 6,074,000 | 3,082,000 | 1,989,200 |
| | Kennebec STD | 0 | 324,228 | 0 | 0 | 0 | 0 |
| | Randolph | 0 | 105,695 | 3,500 | 67,300 | 1,400 | 8,900 |
| | Skowhegan | 738,844 | 4,379,019 | 1,711,809 | 1,073,711 | 252,870 | 1,742,309 |
| | Winslow | 237,400 | 601,045 | 3,654,519 | 876,296 | 193,076 | 3,196,000 |
| | Sub Total | 9,230,325 | 17,827,986 | 14,529,060 | 20,897,886 | 7,328,833 | 8,580,770 |
| Machias River | Machias | 203,815 | 603,687 | 145,425 | 100,035 | 122,833 | 418,811 |
| | Sub Total | 203,815 | 603,687 | 145,425 | 100,035 | 122,833 | 418,811 |
| Penobscot Bay | Belfast | 0 | 305,071 | 330,905 | 96,444 | 264,774 | 444,090 |
| | Rockland | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sub Total | 0 | 305,071 | 330,905 | 96,444 | 264,774 | 444,090 |
| Penobscot River | Bangor | 13,310,000 | 50,547,000 | 96,009,000 | 58,745,000 | 77,720,893 | 52,468,359 |
| | Brewer | 0 | 366,687 | 868,060 | 76,188 | 4,235,000 | 783,656 |
| | Bucksport | 0 | 0 | 0 | 0 | 0 | 0 |
| | Hampden | 0 | 1,250,000 | 1,933,080 | 244,200 | 319,902 | 205,128 |
| | Milford | 0 | 0 | 0 | 0 | 0 | 43,153 |
| | Old Town | 0 | 270,801 | 61,508 | 20,698 | 12,128 | 7,608 |
| | Orono | 0 | 1,460,000 | 698,817 | 1,192,467 | 905,504 | 1,102,236 |
| | Winterport SD | 0 | 138,000 | 0 | 0 | 108,000 | 54,000 |
| | Sub Total | 13,310,000 | 54,032,488 | 99,570,465 | 60,278,553 | 83,301,427 | 54,664,140 |
| Saco River | Biddeford | 49,504,091 | 70,814,300 | 69,451,000 | 34,644,000 | 26,649,500 | 14,543,300 |
| | Saco | 304,000 | 2,139,000 | 2,675,000 | 978,000 | 2,487,000 | 242,000 |
| | Sub Total | 49,808,091 | 72,953,300 | 72,126,000 | 35,622,000 | 29,136,500 | 14,785,300 |
| St. Croix River | Calais | 4,512,300 | 10,000,030 | 2,403,000 | 1,839,927 | 587,400 | 3,848,188 |
| | Sub Total | 4,512,300 | 10,000,030 | 2,403,000 | 1,839,927 | 587,400 | 3,848,188 |
| St. John River | Madawaska | 1,562,430 | 3,988,640 | 8,205,821 | 10,242 | 422,838 | 616,123 |
| | Sub Total | 1,562,430 | 3,988,640 | 8,205,821 | 10,242 | 422,838 | 616,123 |
| | Total Annual Volume | 294,507,766 | 495,565,153 | 455,297,078 | 359,831,697 | 346,742,558 | 305,344,353 |



Maine CSO Permittee Level of Treatment

| | 2018 Average Annual Rainfall (Inches): 46.25 | | | | 2019 Average Annual Rainfall (Inches): 45.57 | | | | 2020 Average Annual Rainfall (Inches): 40.88 | | | | 2021 Average Annual Rainfall (Inches): 44.19 | | | | 2022 Average Annual Rainfall (Inches): 45.24 | | | |
|---------------------------------|---|---------------------|-------------------|--------------|---|---------------------|-------------------|--------------|---|---------------------|-------------------|--------------|---|---------------------|-------------------|--------------|---|---------------------|-------------------|--------------|
| CSO Permittees | Total Volume ^{1,2} (MG) | Secondary Treatment | Primary Treatment | CSO | Total Volume ^{1,2} (MG) | Secondary Treatment | Primary Treatment | CSO | Total Volume ^{1,2} (MG) | Secondary Treatment | Primary Treatment | CSO | Total Volume ^{1,2} (MG) | Secondary Treatment | Primary Treatment | CSO | Total Volume ^{1,2} (MG) | Secondary Treatment | Primary Treatment | CSO |
| Bangor & Hampden | 3,300.6 | 97.57% | 0.90% | 1.53% | 3,265.8 | 95.56% | 1.50% | 2.94% | 2,851.3 | 96.44% | 1.49% | 2.07% | 2,932.3 | 96.25% | 1.09% | 2.66% | 3,319.0 | 96.87% | 1.54% | 1.59% |
| Bar Harbor | 439.5 | 99.87% | | 0.13% | 422.0 | 99.35% | | 0.65% | 349.9 | 99.72% | | 0.28% | 380.3 | 99.00% | | 1.00% | 415.9 | 99.24% | | 0.76% |
| Bath | 753.6 | 94.56% | 4.94% | 0.50% | 782.5 | 95.24% | 4.40% | 0.36% | 728.7 | 92.89% | 6.72% | 0.39% | 711.4 | 92.36% | 7.39% | 0.25% | 711.4 | 95.69% | 4.08% | 0.22% |
| Belfast | 229.9 | 99.87% | | 0.13% | 240.2 | 99.86% | | 0.14% | 202.0 | 99.95% | | 0.05% | 231.4 | 99.89% | | 0.11% | 227.0 | 99.80% | | 0.20% |
| Biddeford | 1,249.0 | 94.33% | | 5.67% | 1,142.9 | 93.92% | | 6.08% | 1,011.6 | 96.58% | | 3.42% | 869.1 | 96.93% | | 3.07% | 849.6 | 98.29% | | 1.71% |
| Brewer | 652.2 | 99.95% | 0.00% | 0.05% | 680.7 | 99.87% | 0.00% | 0.13% | 680.4 | 99.99% | 0.00% | 0.01% | 724.7 | 99.42% | 0.00% | 0.58% | 854.9 | 99.91% | 0.00% | 0.09% |
| Bucksport ³ | 110.6 | 96.23% | 3.77% | 0.00% | 97.3 | 99.15% | 0.85% | 0.00% | 107.1 | 98.19% | 1.81% | 0.00% | 120.5 | 96.52% | 3.48% | 0.00% | 125.8 | 96.09% | 3.91% | 0.00% |
| Calais | 258.3 | 91.97% | 4.16% | 3.87% | 238.7 | 95.59% | 3.40% | 1.01% | 202.2 | 92.15% | 6.94% | 0.91% | 190.0 | 96.91% | 2.78% | 0.31% | 235.4 | 94.98% | 3.38% | 1.63% |
| Gardiner & Randolph | 433.1 | 97.46% | 1.41% | 1.13% | 408.1 | 97.74% | 1.55% | 0.71% | 371.1 | 95.00% | 2.31% | 2.69% | 349.5 | 98.98% | 0.45% | 0.57% | 399.4 | 99.37% | 0.61% | 0.02% |
| GAUD & Hallowell | 1,424.0 | 97.18% | 2.55% | 0.26% | 1,853.8 | 98.40% | 1.41% | 0.19% | 1,650.3 | 98.22% | 1.41% | 0.37% | 1,311.0 | 99.22% | 0.54% | 0.24% | 2,213.8 | 99.26% | 0.65% | 0.09% |
| KSTD & Winslow | 2,553.8 | 99.99% | | 0.01% | 2,394.5 | 100.00% | | 0.00% | 2,184.0 | 99.96% | | 0.04% | 2,074.0 | 99.99% | | 0.01% | 2,262.3 | 99.86% | | 0.14% |
| LAWPCA, Lewiston & Auburn | 3,379.6 | 98.64% | 0.00% | 1.36% | 3,427.3 | 98.12% | 0.39% | 1.50% | 3,434.3 | 97.53% | 0.82% | 1.65% | 3,196.0 | 96.26% | 3.01% | 0.73% | 3,419.2 | 98.41% | 0.06% | 1.53% |
| Machias | 87.2 | 99.31% | | 0.69% | 85.3 | 99.83% | | 0.17% | 62.7 | 99.84% | | 0.16% | 65.2 | 99.81% | | 0.19% | 84.3 | 99.50% | | 0.50% |
| Madawaska | 129.6 | 96.92% | | 3.08% | 129.6 | 93.67% | | 6.33% | 123.9 | 99.99% | | 0.01% | 105.8 | 99.60% | | 0.40% | 145.4 | 99.58% | | 0.42% |
| Mechanic Falls | 81.1 | 99.76% | | 0.24% | 86.2 | 99.29% | | 0.71% | 79.7 | 99.52% | | 0.48% | 64.0 | 99.90% | | 0.10% | 70.4 | 99.81% | | 0.19% |
| Old Town & Milford | 541.3 | 98.33% | 1.62% | 0.05% | 579.3 | 99.11% | 0.87% | 0.02% | 448.8 | 98.95% | 1.04% | 0.01% | 471.8 | 99.05% | 0.95% | 0.00% | 537.4 | 99.20% | 0.79% | 0.01% |
| Orono | 470.1 | 99.69% | | 0.31% | 500.8 | 99.86% | | 0.14% | 400.1 | 99.70% | | 0.30% | 419.9 | 99.78% | | 0.22% | 455.5 | 99.76% | | 0.24% |
| Paris UD | 107.6 | 100.00% | | 0.00% | 121.8 | 100.00% | | 0.00% | 110.3 | 100.00% | | 0.00% | 96.3 | 100.00% | | 0.00% | 108.2 | 100.00% | | 0.00% |
| Portland & PWD ³ | 6,955.5 | 90.94% | 4.88% | 4.18% | 6,100.6 | 92.90% | 4.07% | 3.02% | 5,938.0 | 92.75% | 4.24% | 3.01% | 5,552.8 | 92.92% | 3.58% | 3.50% | 5,218.8 | 92.22% | 4.64% | 3.14% |
| Rockland | 973.9 | 81.99% | 18.01% | 0.00% | 998.0 | 75.94% | 24.06% | 0.00% | 820.4 | 84.74% | 15.26% | 0.00% | 868.0 | 87.31% | 12.69% | 0.00% | 816.1 | 91.81% | 8.19% | 0.00% |
| Saco | 811.3 | 99.26% | 0.48% | 0.26% | 776.2 | 99.22% | 0.43% | 0.34% | 784.0 | 99.51% | 0.36% | 0.12% | 800.9 | 99.18% | 0.51% | 0.31% | 762.3 | 99.69% | 0.28% | 0.03% |
| Skowhegan | 336.6 | 97.97% | 0.73% | 1.30% | 326.1 | 97.26% | 2.22% | 0.52% | 262.8 | 95.65% | 3.94% | 0.41% | 223.6 | 99.47% | 0.37% | 0.16% | 247.0 | 98.39% | 0.91% | 0.71% |
| South Portland & Cape Elizabeth | 2,232.6 | 98.89% | 0.95% | 0.16% | 2,052.6 | 98.67% | 0.89% | 0.44% | 2,001.5 | 99.81% | 0.14% | 0.04% | 1,909.5 | 99.48% | 0.37% | 0.14% | 3,766.4 | 99.93% | 0.03% | 0.04% |
| Westbrook & PWD | 1,211.7 | 99.87% | | 0.13% | 1,157.2 | 99.15% | | 0.85% | 1,115.1 | 99.71% | | 0.29% | 1,081.8 | 99.90% | | 0.10% | 1,122.7 | 99.92% | | 0.08% |
| SUM | 28,722.9 | | | | 27,867.4 | | | | 25,920.2 | | | | 24,750.0 | | | | 28,368.0 | | | |
| MEAN | 1,196.8 | 97.11% | 3.17% | 1.04% | 1,161.1 | 96.99% | 3.29% | 1.09% | 1,080.0 | 97.37% | 3.32% | 0.70% | 1,031.2 | 97.84% | 2.66% | 0.61% | 1,182.0 | 98.23% | 2.08% | 0.56% |
| MEDIAN | 596.7 | 98.48% | 1.51% | 0.26% | 630.0 | 98.89% | 1.46% | 0.40% | 564.6 | 99.23% | 1.65% | 0.28% | 591.6 | 99.20% | 1.02% | 0.23% | 624.4 | 99.32% | 0.85% | 0.19% |

Notes: ¹Volume data was obtained from monthly Discharge Monitoring Reports entered and submitted through NetDMR by each Facility

²Total Volume: Total Volume Taken on by System = Secondary Treatment Volume + Primary Treatment Volume + CSO Volume + SSO Volume (SSO Volumes too small to affect Percentages, therefore not displayed)

³Updates were made to treatment volumes and percentages for 2018 and 2019 for Bucksport and for 2018-2021 for Portland & PWD