

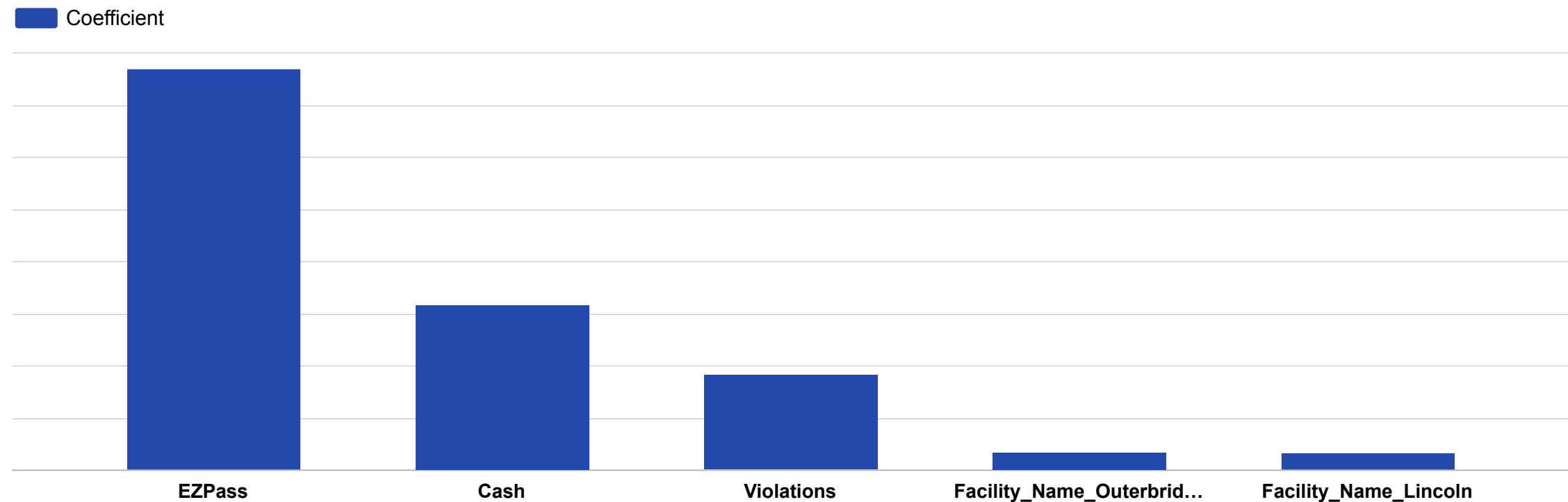


University of  
New Haven

# Port Authority Traffic Insights Dashboard

**Group 5**

## Goal 1: Top 5 Factors Affecting Bridge & Terminal Usage



Regression results show that EZPass usage, Cash payments, and Violations are the strongest predictors of bridge and terminal traffic. This means that payment behavior and driver compliance have a larger influence on traffic volume than facility characteristics.

## Goal 2: Toll Violations by Time and Facility

Total Traffic

**122.4M**

Total Violations

**4.3M**

Violation Rate

**3.51%**

Year

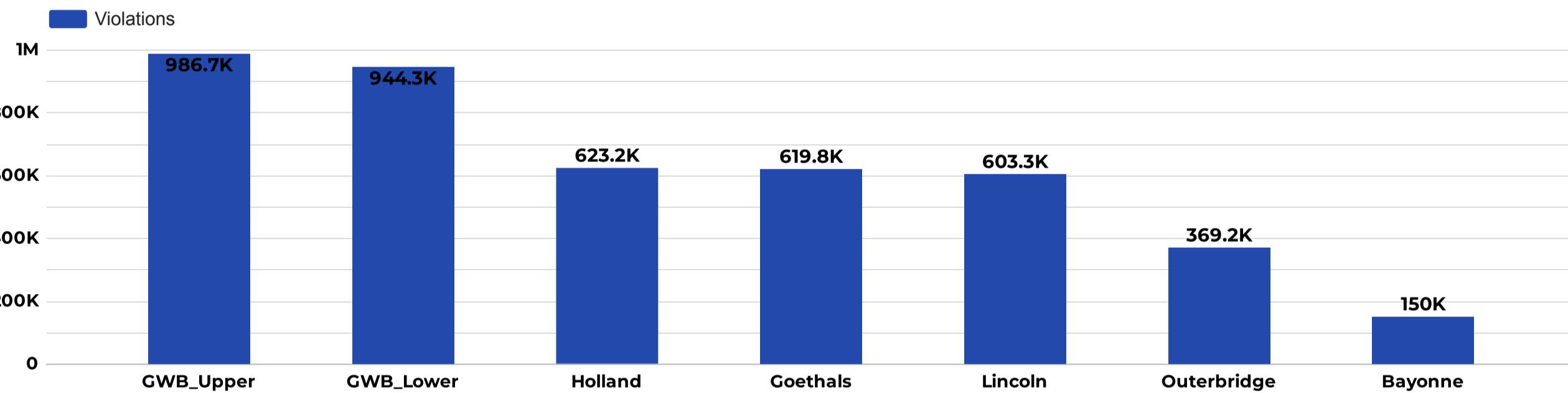
**2024**

Jan 1, 2024 - Dec 31, 2024

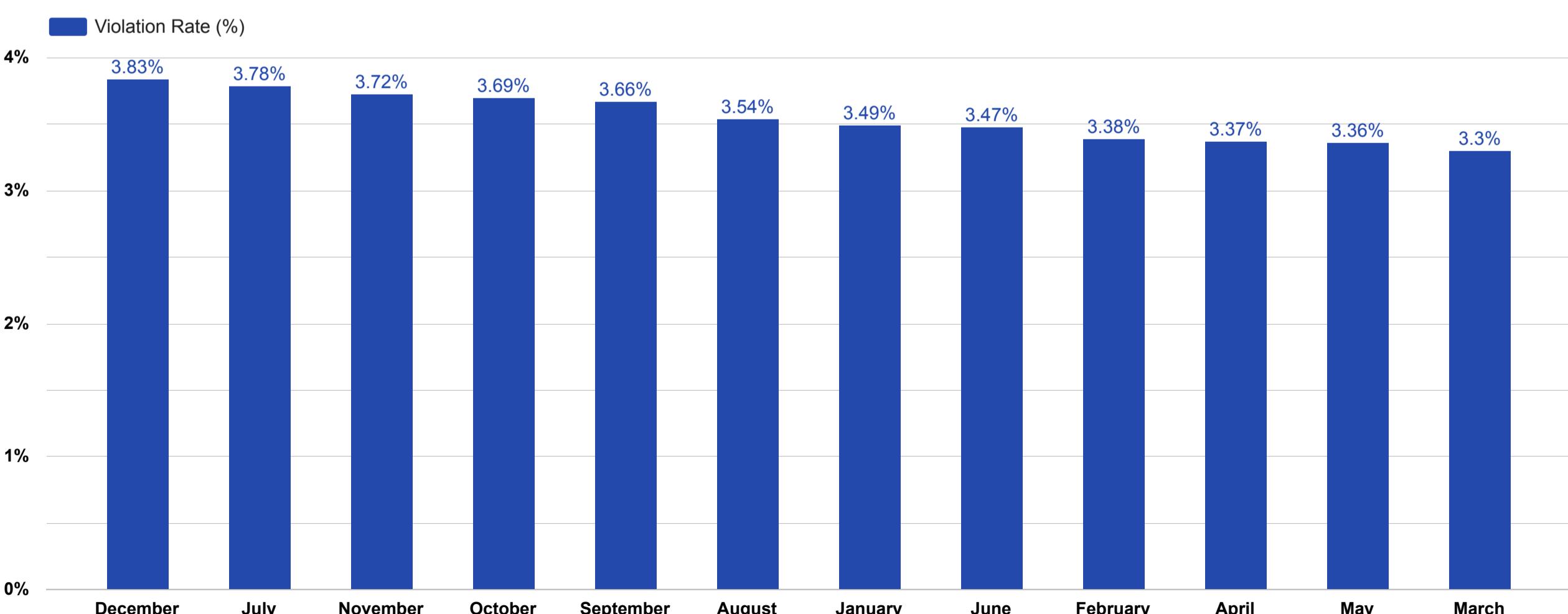
### Toll Violations Trend by Yearly, Monthly, Weekly



### Violations by Facility



### Violation Rate by Month and Facility Names



# Goal 3: Factors Affecting Bridge and Tunnel Usage

Total Traffic

**124.3M**

Total Violations

**5.9M**

Violation Rate (%)

**4.73%**

Year

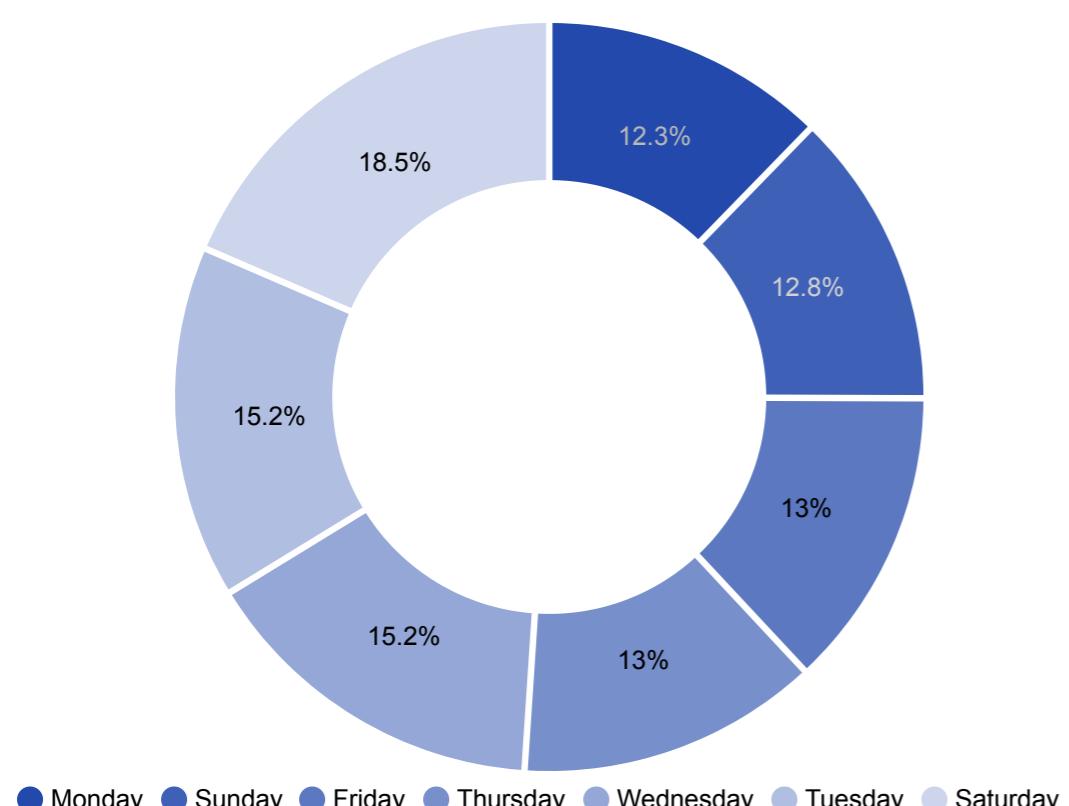
**2025**

Jan 1, 2025 - Nov 27, 2025

## Yearly, Monthly, Weekly Traffic Volume



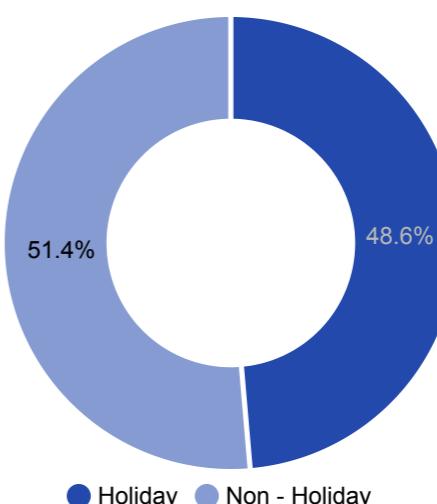
## Traffic % by Day of Week



## Holiday Status

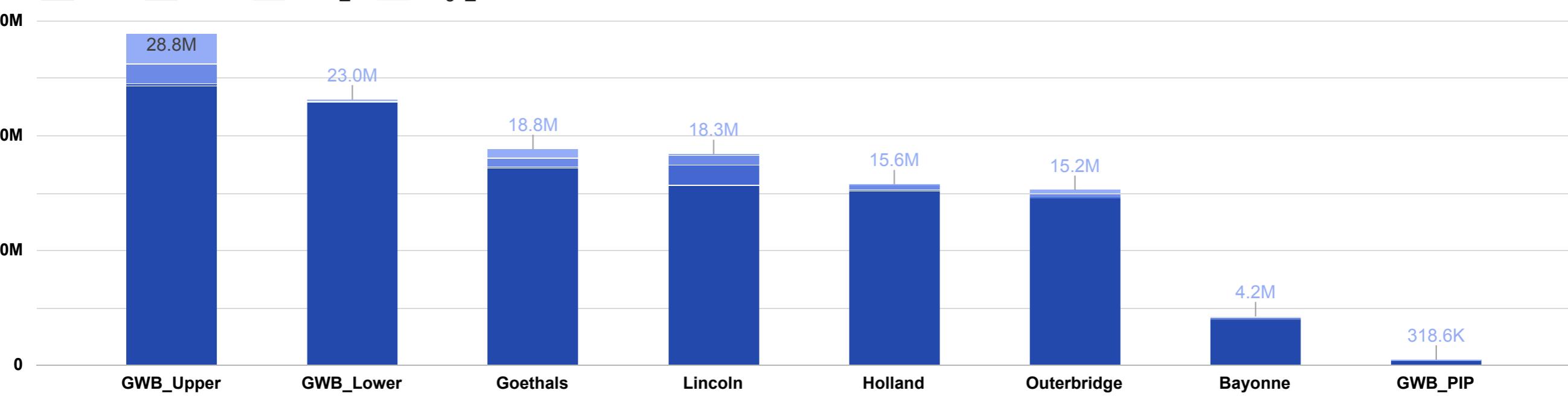
Holiday	Day	Status
New Year's Day	Wednesday	Holiday
Eastern Easter	Sunday	Holiday
Western Easter	Sunday	Holiday

## Average Traffic % Holiday vs Non - Holiday



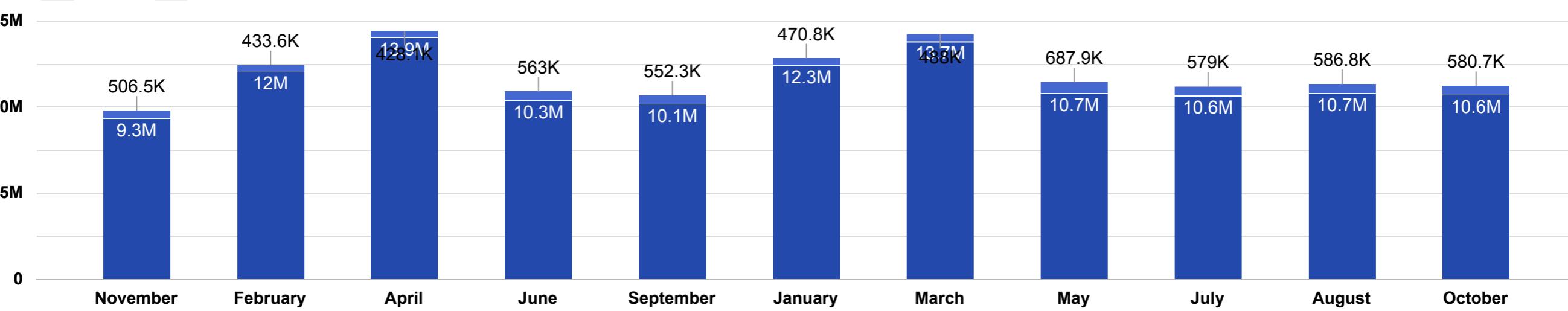
## Total Vehicles Types by Facility

Autos      Buses      Small\_T      Large\_T



## Traffic vs Violations by Month & Year

TOTAL      VIOLATION



# Goal 4: Traffic Congestion and Toll Pricing Impact (2025)

Auto Toll Rate  
\$16.06

Buses Toll Rate  
\$18.00

Total Traffic 2025

**170.9M**

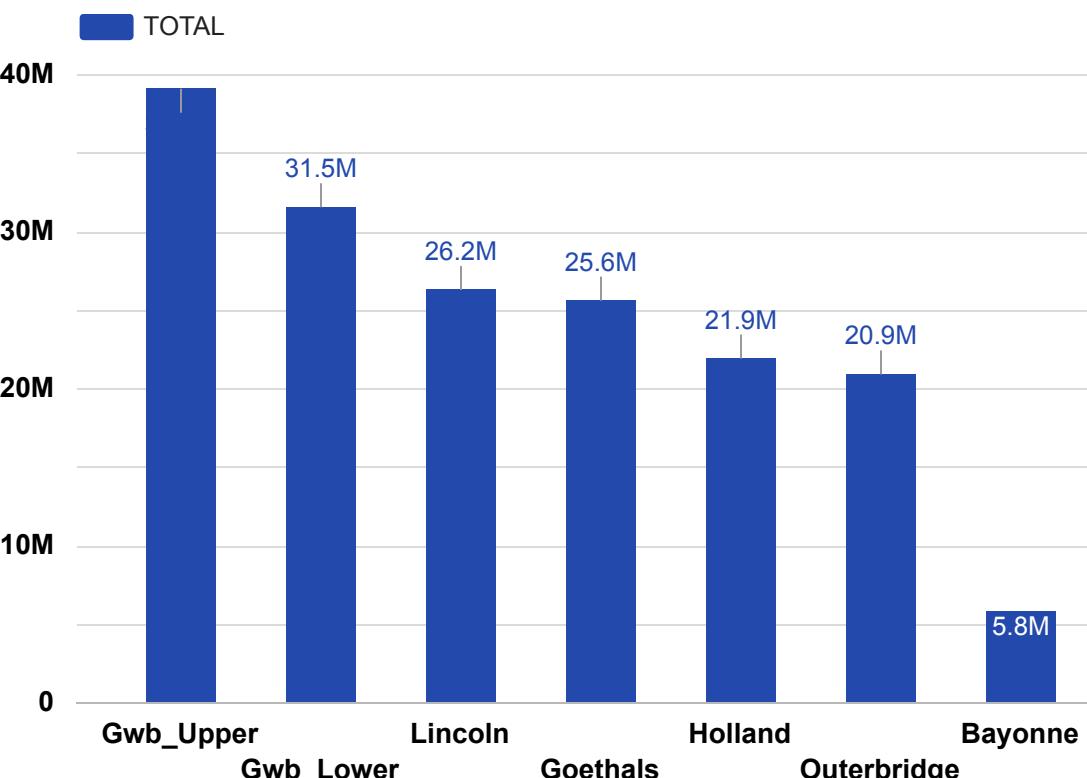
Total Traffic 2024

**195.7M**

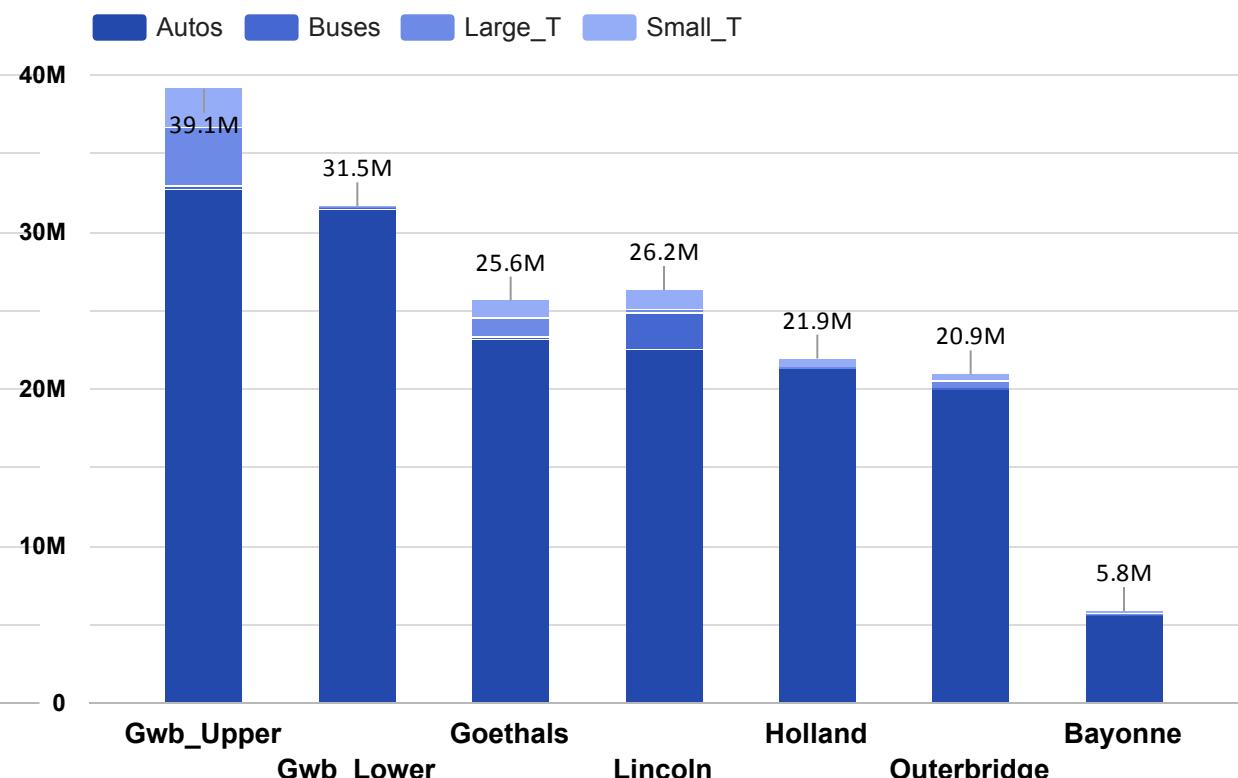
Small Trucks Toll Rate  
\$65.04

Large Trucks Toll Rate  
\$108.40

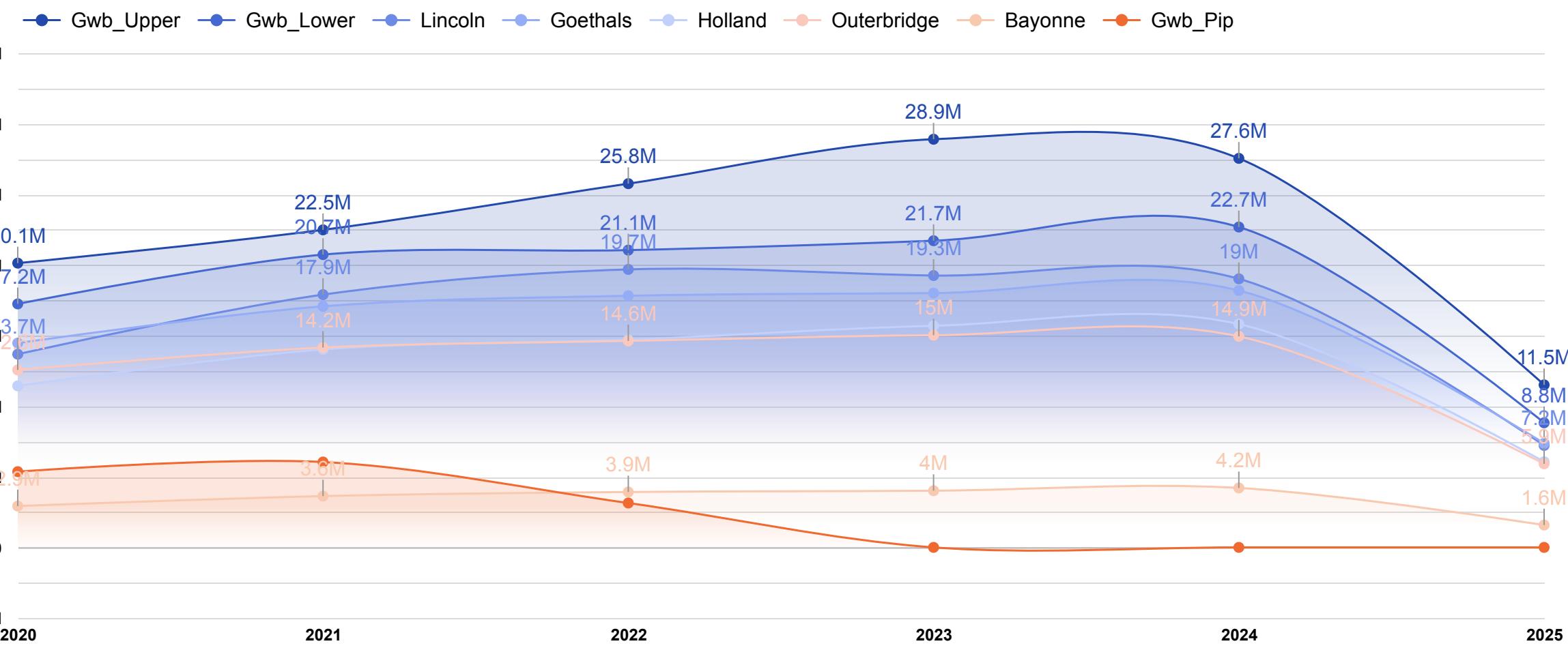
## Total Traffic by Facility Name (2025)



## Total Vehicles by Facility Name (2025)



## Total Traffic by Facility Name (2020-2025)



## **Goal 5: Facility Usage Forecast (2025-2030)**

## Total Forecasted Traffic

## Total Forecasted Violations

### Violation Rate %

Year

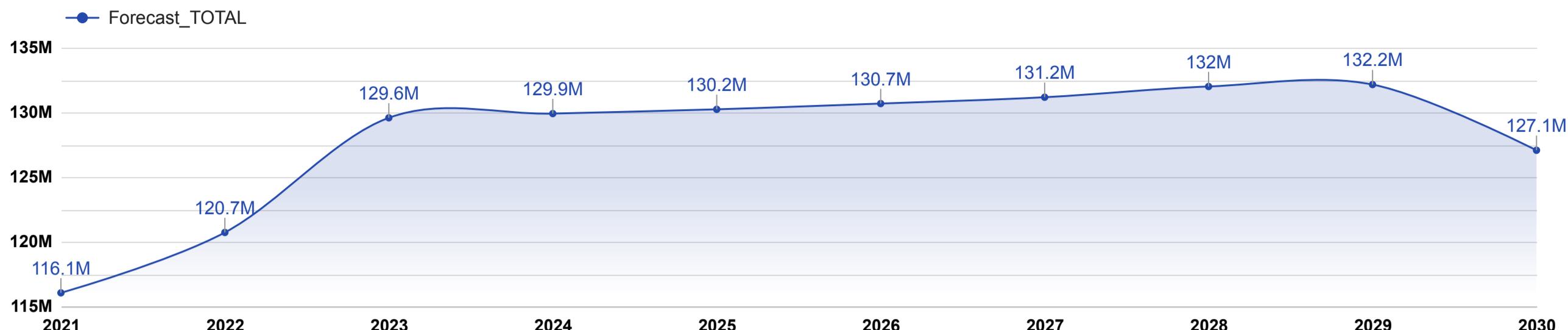
783.3M

43.2M

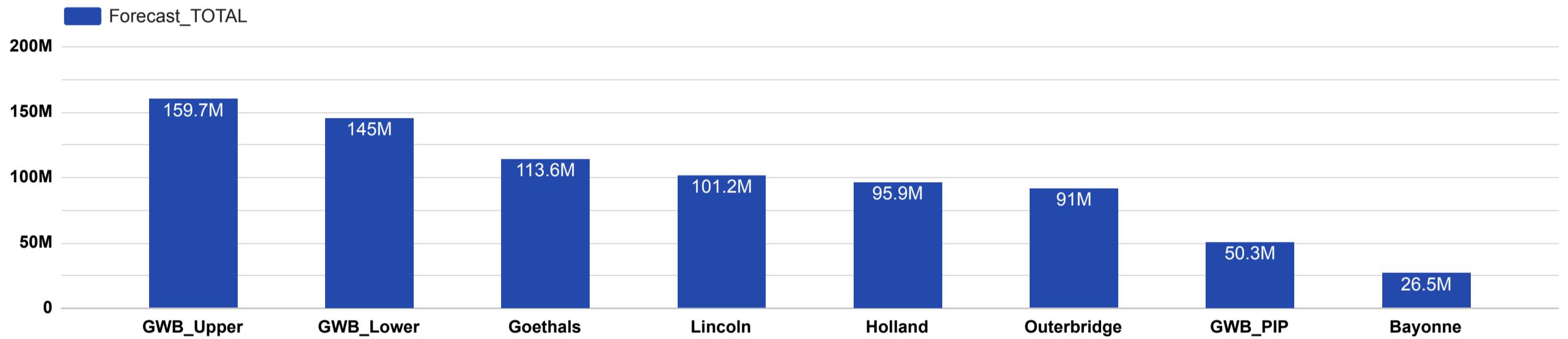
5.52%

2030

## Historical vs Forecasted Traffic (2025-2030)



## Forecasted Traffic by Facility (2025-2030)



## Forecasted Traffic by Year, Month and Facility Names (2025-2030)

