

FAC-eda

C.Robertson

2023-10-16

Data Description

The data set includes the following data fields:

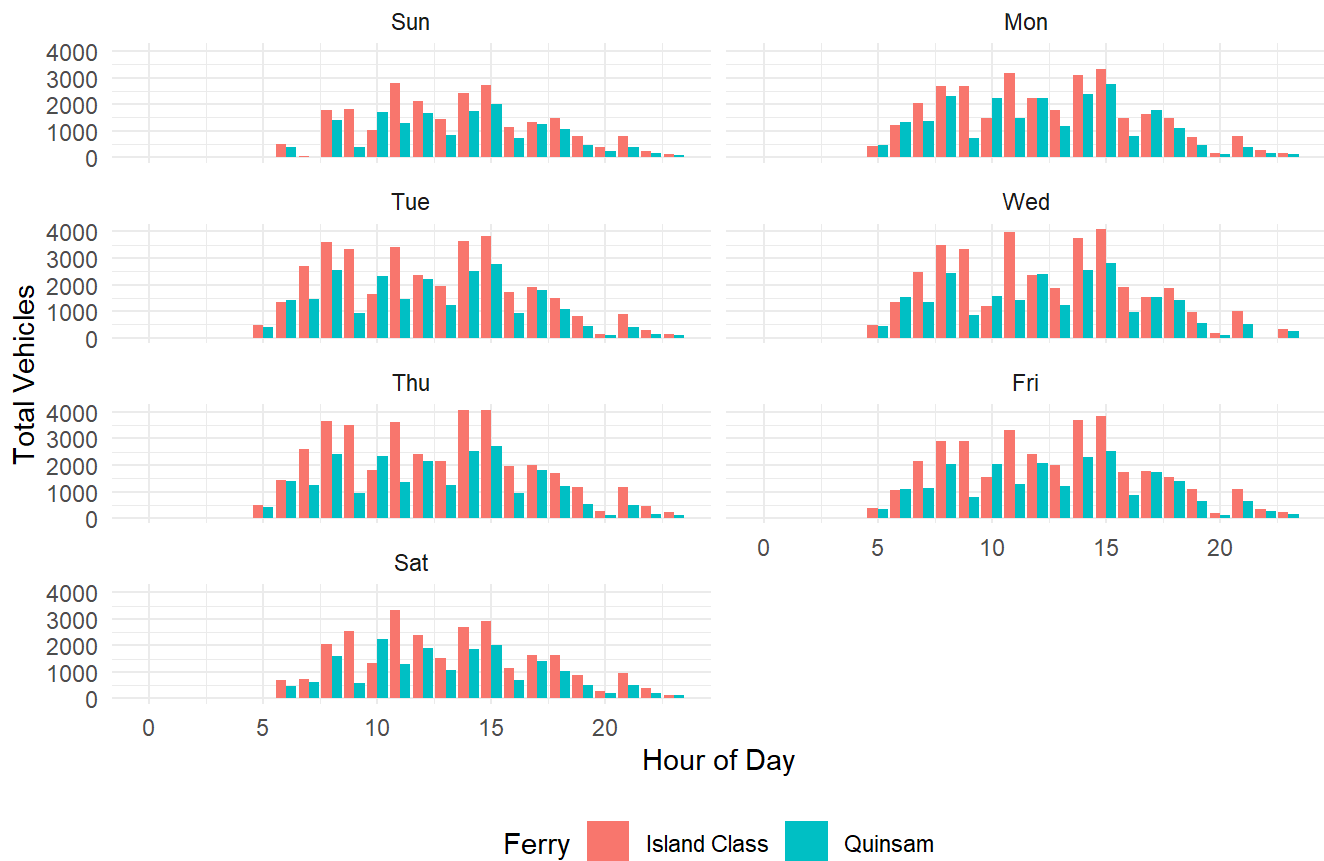
- Departure Terminal -
- Arrival Terminal -
- Vessel -
- Scheduled Depature Time -
- Actual Departure Time -
- Bus , Semi , Comm , Pvoh , Pvuh , Mtcy - Bus, Commercial, Passenger Overheight, Passenger Underheight, Motorcyle
- Total Veh - Total Vehicles
- Foot Pass - Number of Foot Passengers
- Veh Pass - Number of Passengers in Vehicles
- Total Pass - Total Number of Passengers
- Total O/L - Total overloaded (unclear if this is an estimate based on # left in the lot..)

The time period covered by this data set is from Nov 2021 to April 2023, with the transition to the two ferry system using *Kwigis* and *Gwawis* ferries occurring on April 12, 2022. After some investigation, it appears the passenger breakdown (Foot vs Vehicle) is not consistently populated, but Totals of passengers should be accurate.

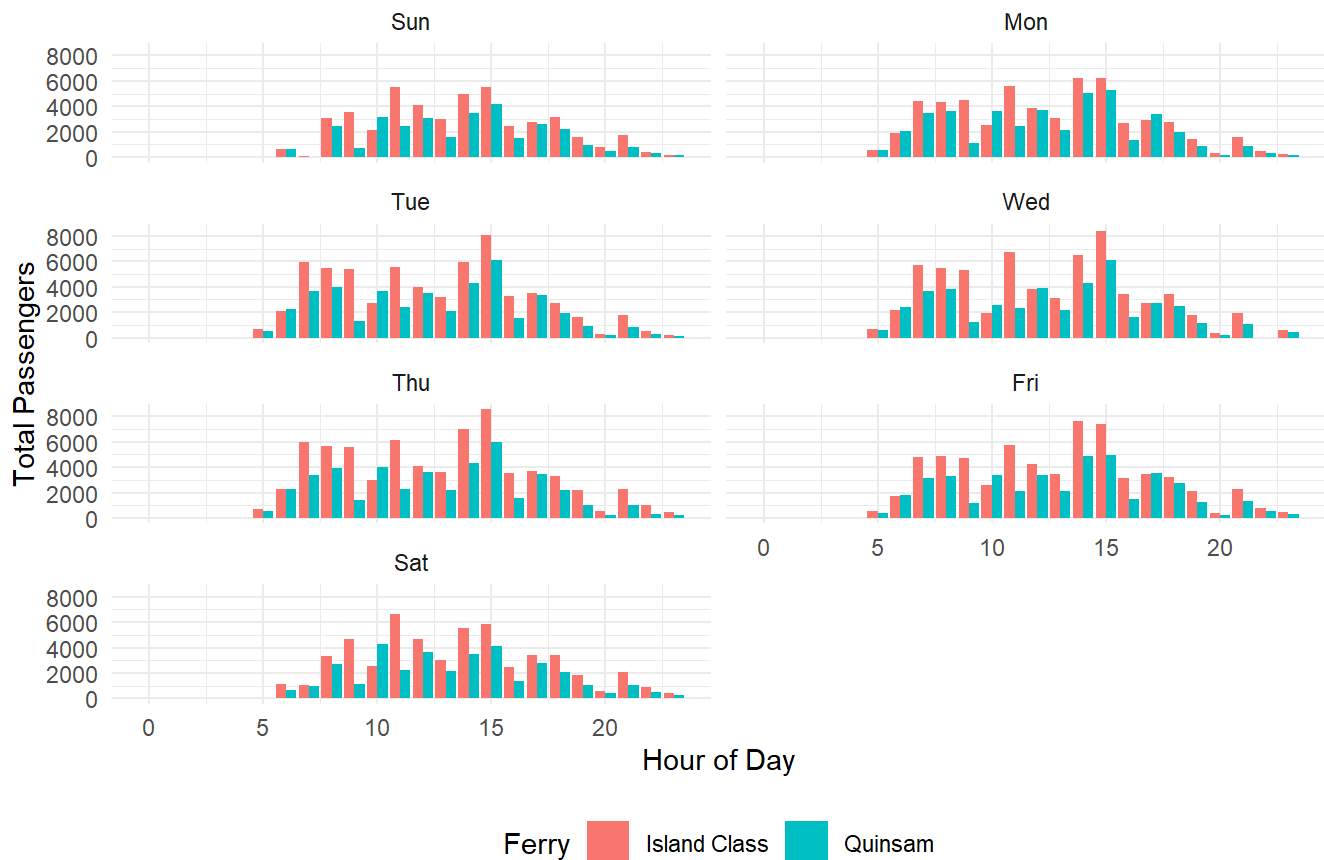
Observed Patterns

General Traffic Pattern - Comparing Nov-Apr for Quinsam (2021-2022) and Island Class (2022-2023))

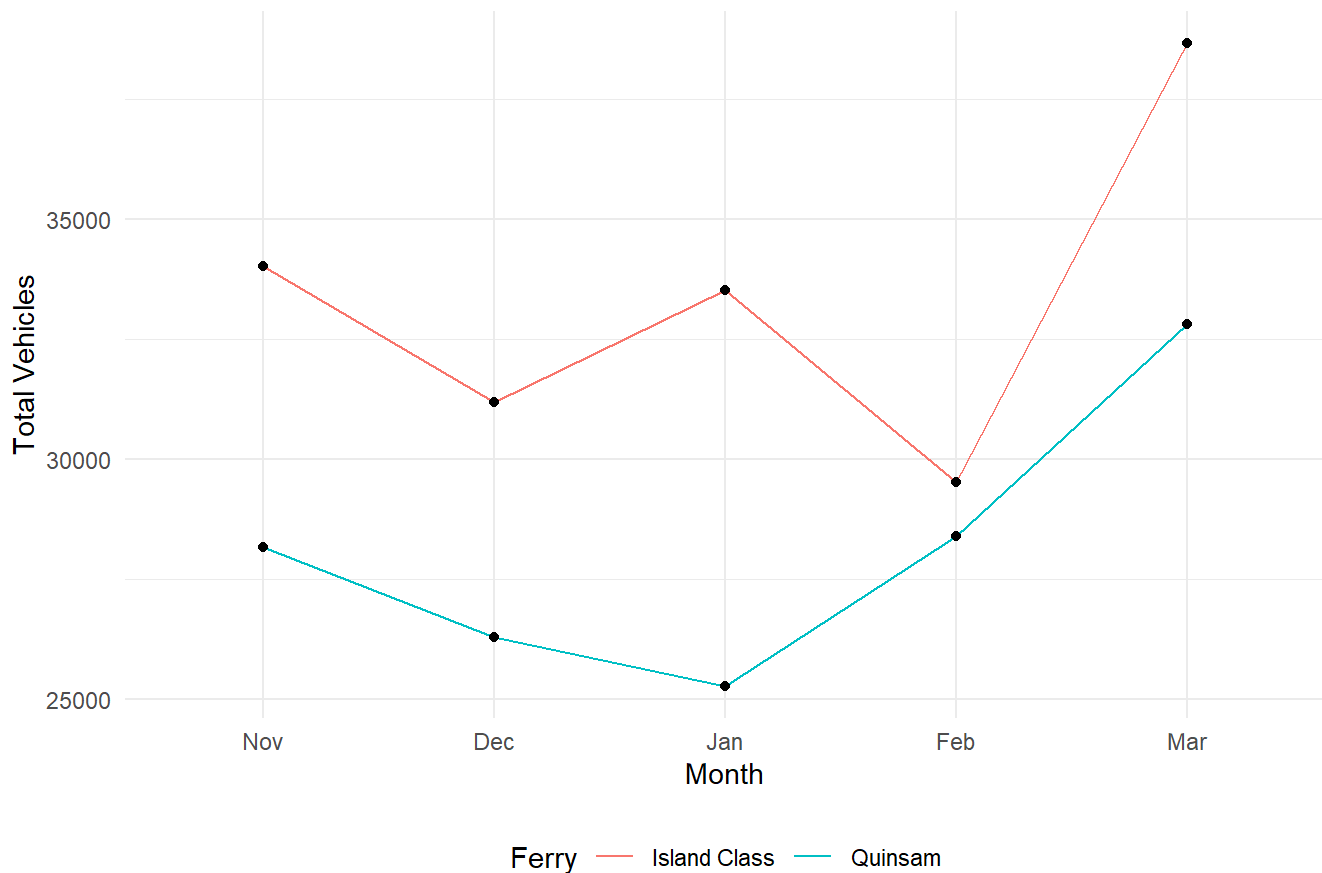
Total Vehicles by Time of Day, Nov 21 - Apr 22 (Quinsam), Nov 22 - Apr 23 (Islar)



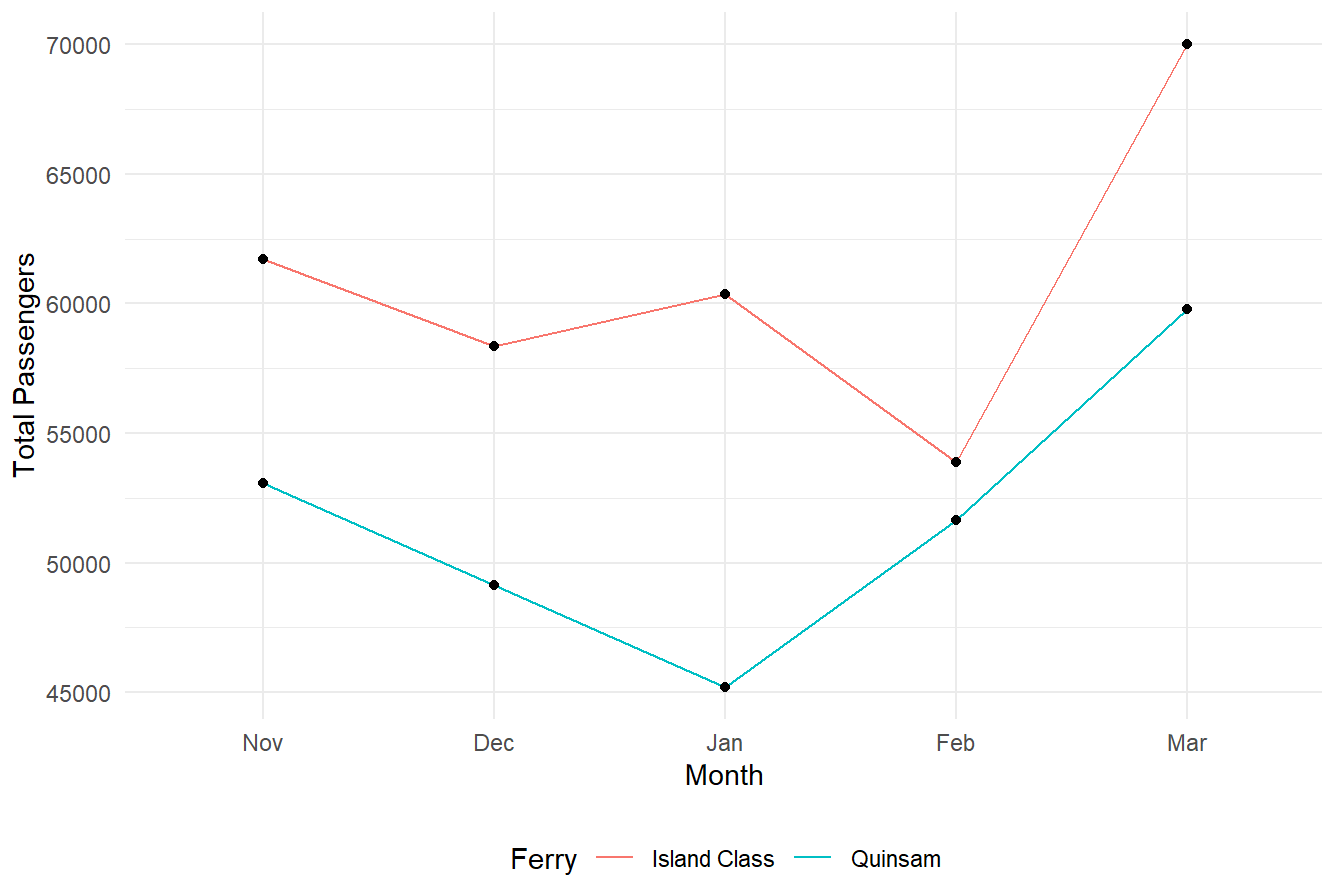
Total Passengers by Time of Day, Nov 21 - Apr 22 (Quinsam), Nov 22 - Apr 23 (Islar)



Total Vehicles Over Time (by Month)



Total Passengers Over Time (by Month)



Totals over each period

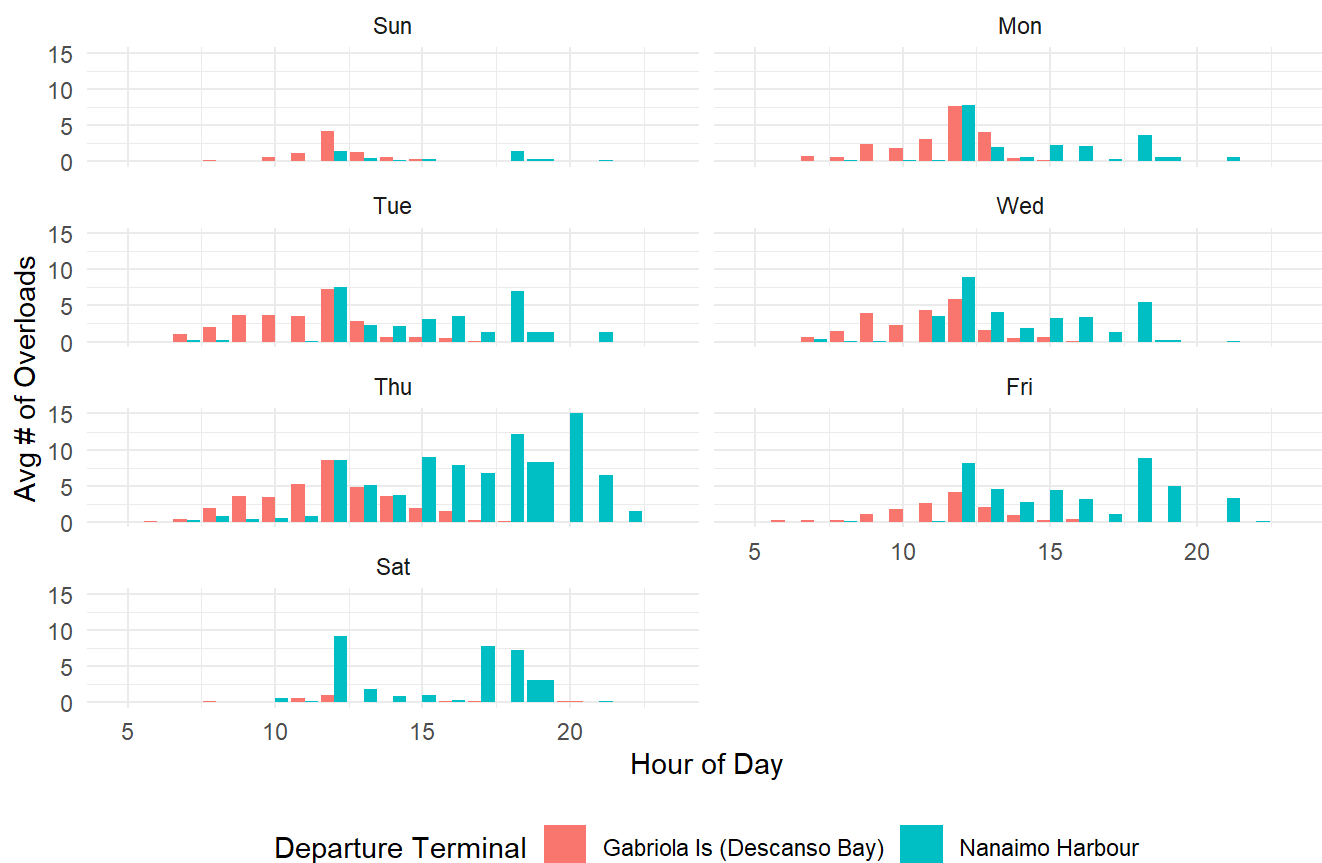
Month	Ferry	SumTotalVehicles	SumTotalPassengers	passengerperVehicle
Apr	Island Class	58880	110797	1.881743
Apr	Quinsam	11374	21101	1.855196
Dec	Island Class	31186	58343	1.870807
Dec	Quinsam	26293	49138	1.868862
Feb	Island Class	29521	53903	1.825921
Feb	Quinsam	28407	51648	1.818143
Jan	Island Class	33523	60351	1.800286
Jan	Quinsam	25278	45213	1.788630
Mar	Island Class	38672	70015	1.810483
Mar	Quinsam	32819	59801	1.822146
Nov	Island Class	34016	61733	1.814822
Nov	Quinsam	28173	53069	1.883683

Ferry	SumTotalVehicles	SumTotalPassengers	passengerperVehicle
Island Class	225798	415142	1.838555
Quinsam	152344	279970	1.837749

Island Class Ferries, May 2022 - Apr 2023

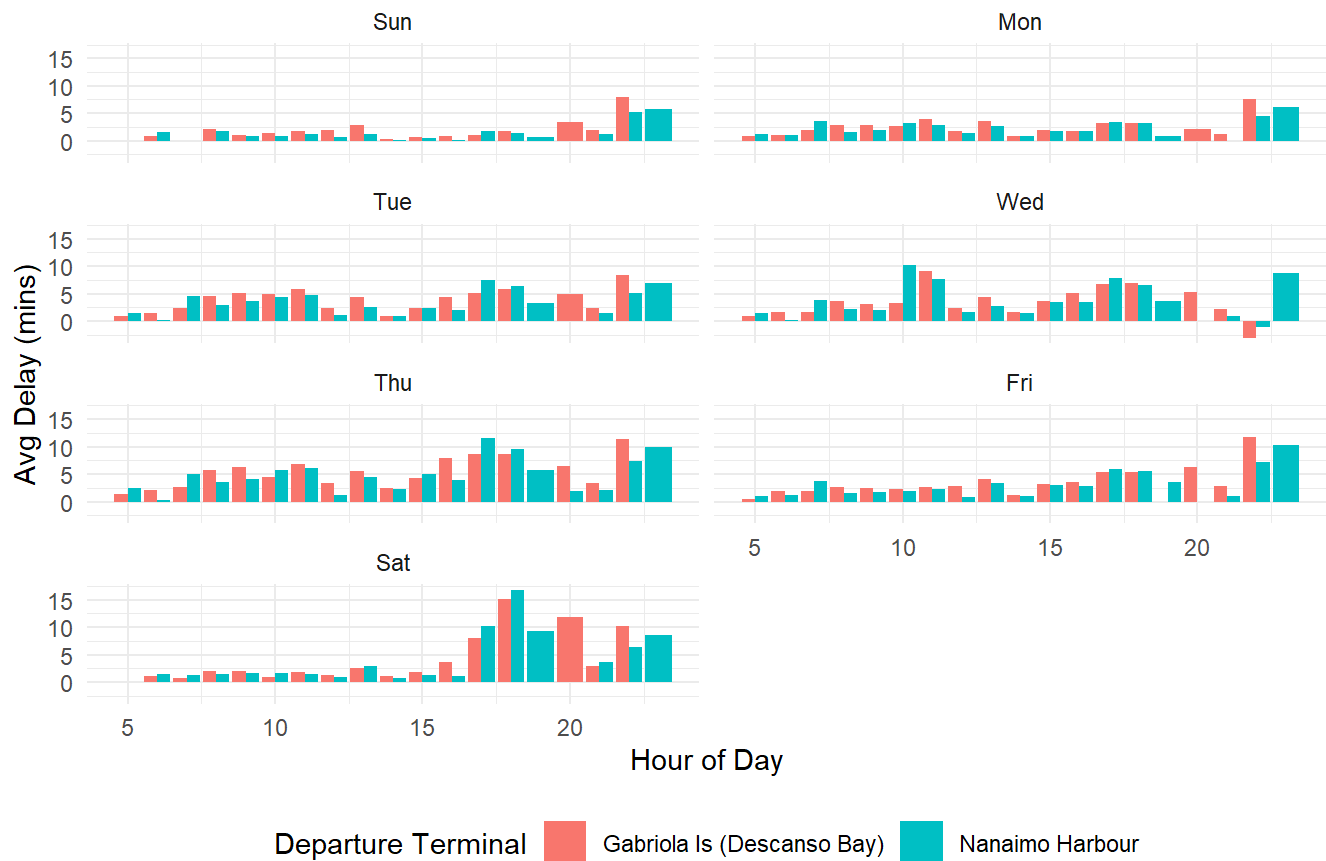
Overloads

Overloads by Time of Day, May 22 - Apr 23



Delays

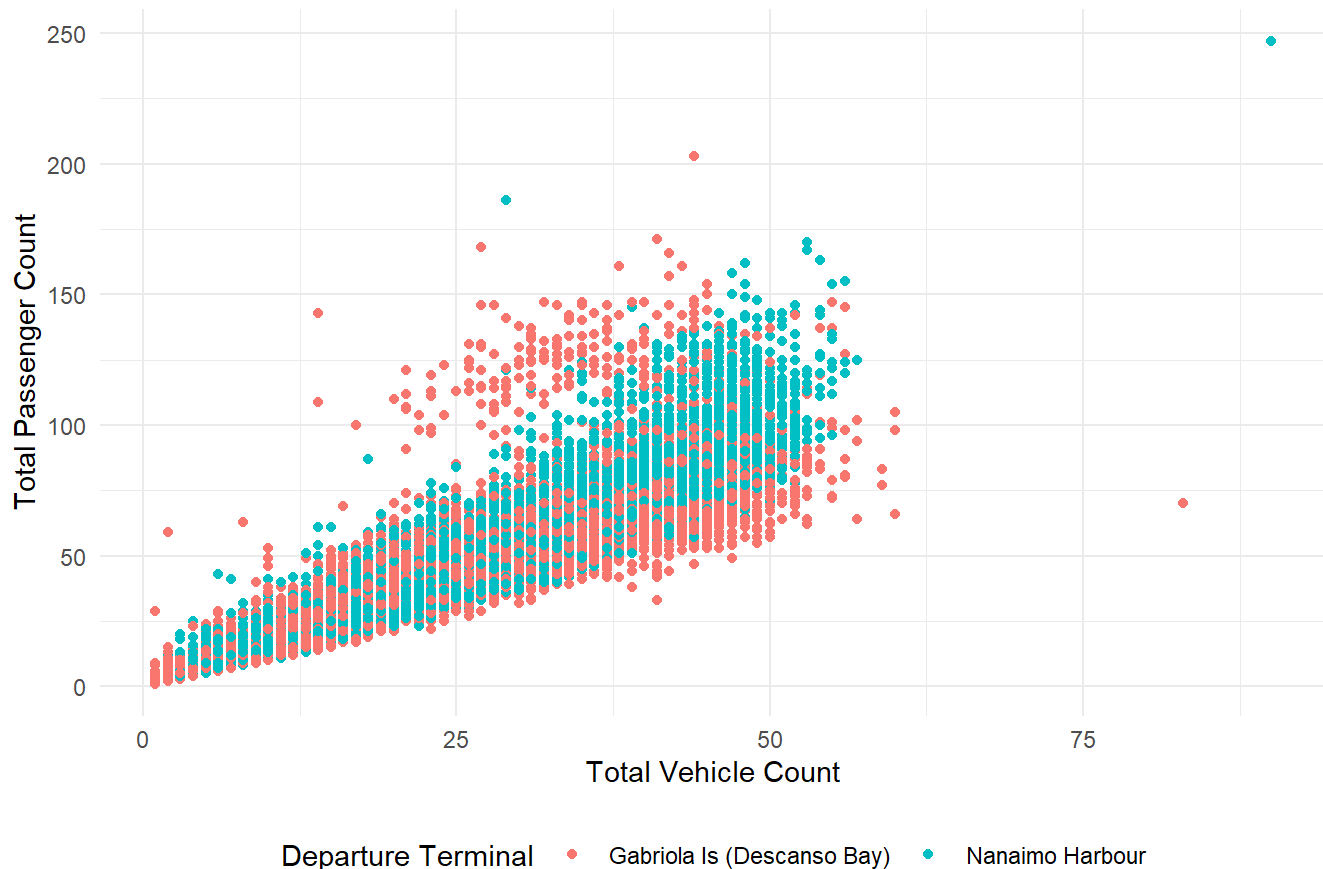
Delay (mins) by Time of Day, May 22 - Apr 23



Efficiency

Comparing # of vehicles to # of passengers (totals).

Passenger Total vs. Vechicle Total



Efficiency by Time of Day

