

Additions to the Data

X1	StartDate	PRCP	SNWD	TAVG	TMAX	TMIN	RouteID	PaymentPlan	StartHub
13	2016-07-19	0	0	68	78	62	1282179	Subscriber	NW 8th at Everett
14	2016-07-19	0	0	68	78	62	1282182	Subscriber	NW 2nd at Everett
15	2016-07-19	0	0	68	78	62	1282200	Subscriber	SW 3rd at Ankeny
16	2016-07-19	0	0	68	78	62	1282204	Subscriber	SW Stark at Burnside
17	2016-07-19	0	0	68	78	62	1282205	Subscriber	NA
18	2016-07-19	0	0	68	78	62	1282208	Subscriber	SW 3rd at Ankeny
19	2016-07-19	0	0	68	78	62	1282218	Subscriber	N Williams at Fremont
20	2016-07-19	0	0	68	78	62	1282243	Subscriber	SW 5th at Main

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StartLatitude	StartLongitude	StartTime	EndHub	EndLatitude	EndLongitude	EndDate	EndTime
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BikeID	BikeName	Distance_Miles	Duration	RentalAccessPath	MultipleRental	hour	daily_total	rainfall
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Linear Regression Output

Variable Selection

Select Variable to Predict

Average Duration

Select Variable for Model

Rainfall

DayOfWeek

Season

Temperature

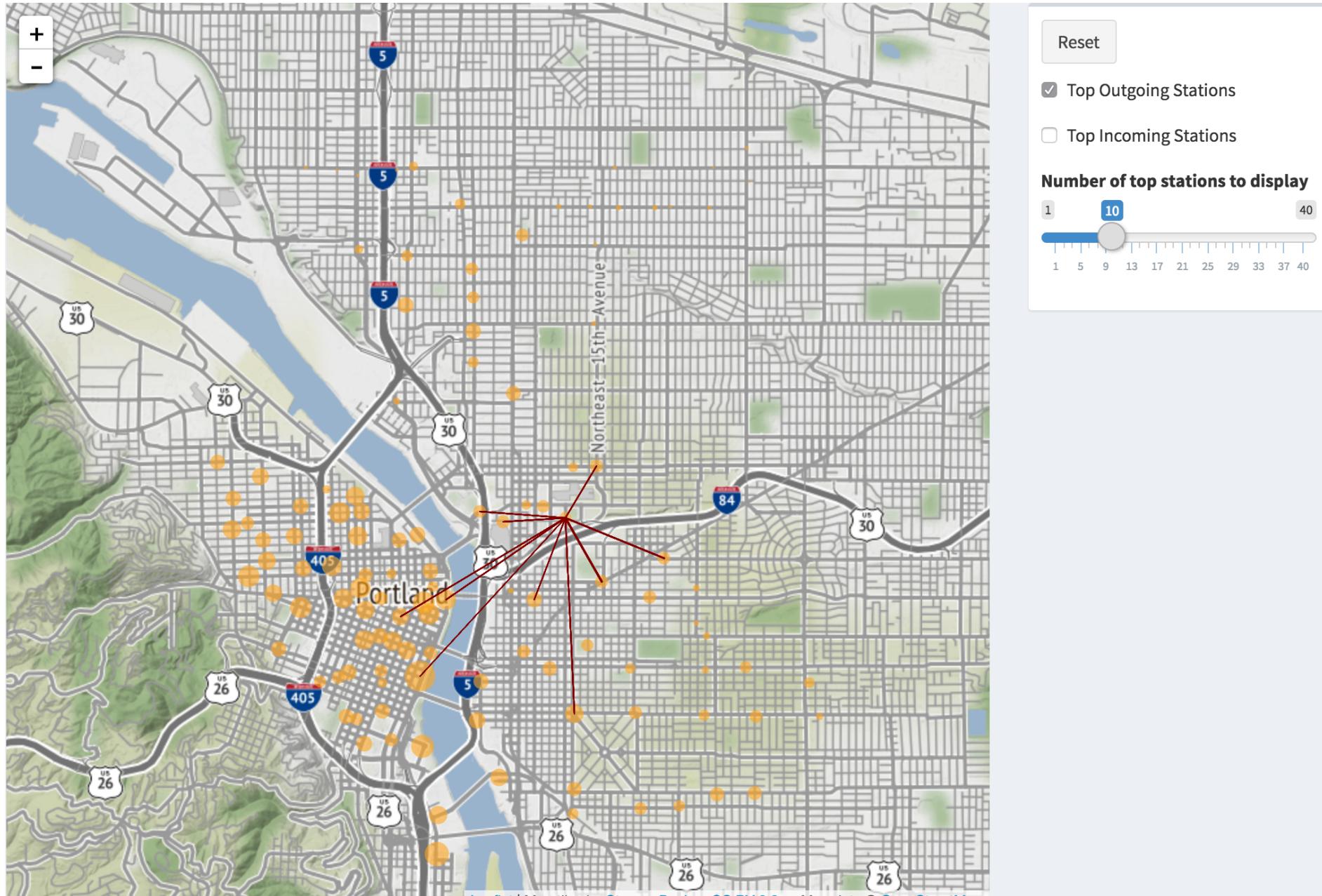
Output

Predictor	Effect	Significance
Rainfall	⬇️ Negative	Very Significant
DayOfWeekSunday	⬆️ Positive	Very Significant
DayOfWeekMonday	⬆️ Positive	Significant
DayOfWeekTuesday	⬇️ Negative	Not Significant
DayOfWeekThursday	⬆️ Positive	Not Significant
DayOfWeekFriday	⬆️ Positive	Very Significant
DayOfWeekSaturday	⬆️ Positive	Very Significant
SeasonSpring	⬆️ Positive	Very Significant
SeasonSummer	⬆️ Positive	Very Significant
SeasonWinter	⬆️ Positive	Not Significant
Temperature	⬆️ Positive	Very Significant

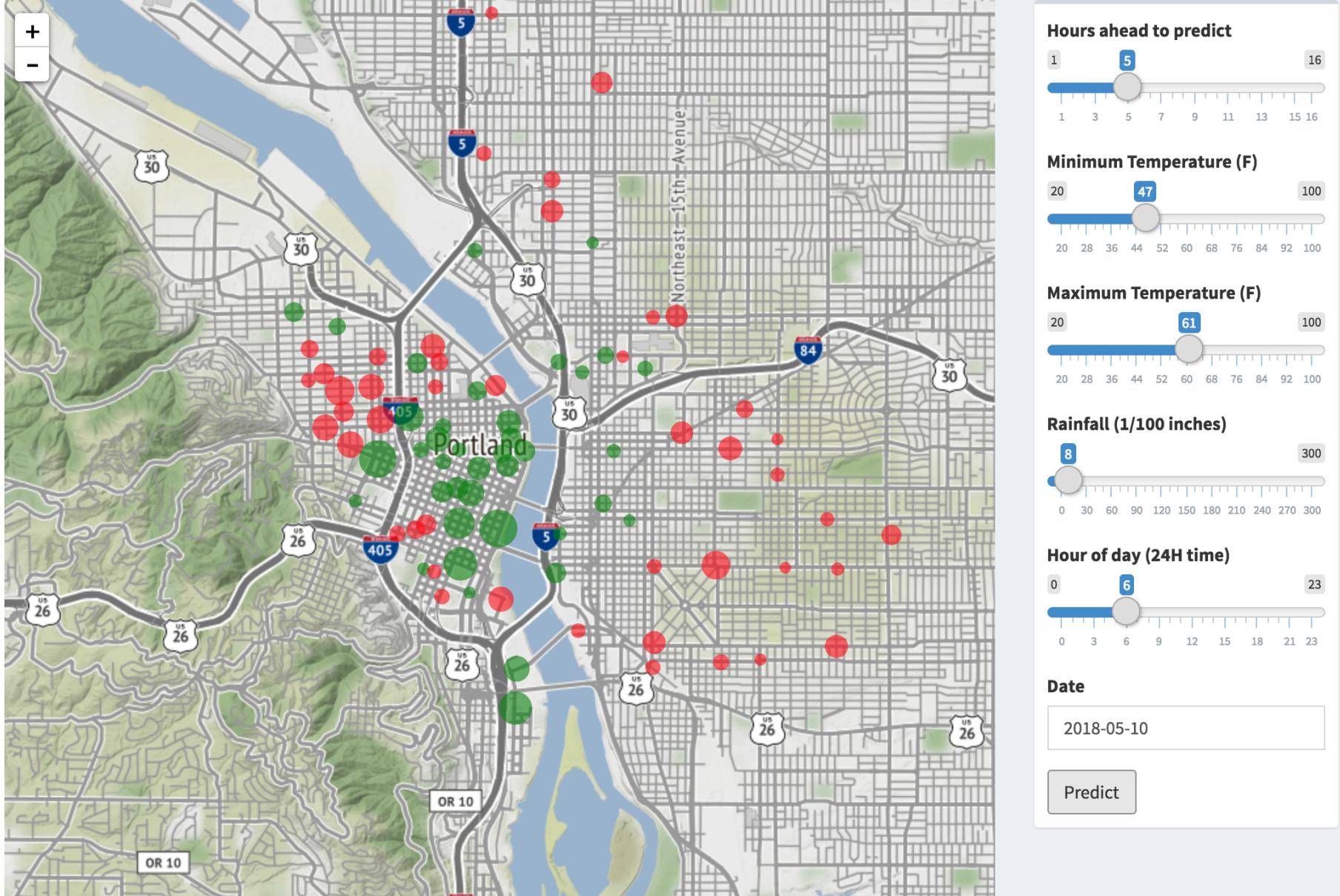
Linear Regression

Variable Selection	Prediction
Select Variable to Predict <input type="text" value="Number of Trips"/>	1006.932
Select Day of the Week <input type="text" value="Thursday"/>	
Select Level of Rainfall (.01 inch) <input type="text" value="8"/>	
Select Temperature (Degrees Fahrenheit) <input type="text" value="61"/>	
Select Season: <input type="text" value="Spring"/>	

Predicting Where Bikes Travel



Changes in Station Use (6:00-11:00 AM)



Changes in Station Use (3:00-8:00 PM)

