

Effect of Legalization of Recreational Marijuana in Washington State

Background:

This report is on the Washington State dataset visualization, created during the Iron visualization competition in IMT 576: Foundations of Strategic and Managerial Business Intelligence, class. We were provided with a dataset and had to come up with an insightful, creative and beautiful visualization. We had 2 hours to come up with our visualizations and analysis.

The dataset provided was from The Stanford Open Policing Project which keeps “a record of millions of traffic stops by law enforcement agencies across the United States”. More info about the data and the data source could be found at <https://openpolicing.stanford.edu>. For the competition, we were only looking at the Washington State.

Metadata:

Details of few of the fields:

Column name	Column meaning	Example value
id	The unique ID we assign to each stop. Contains the state and year.	VT-2011-00012
state	The two-letter code for the state in which the stop occurred.	VT
stop_date	The date of the stop, in YYYY-MM-DD format. Some states do not provide the exact stop date: for example, they only provide the year or quarter in which the stop occurred. For these states, stop_date is set to the date at the beginning of the period: for example, January 1 if only year is provided.	2011-11-27
stop_time	The 24-hour time of the stop, in HH:MM format.	20:15
location_raw	The original data value from which we compute the county (or comparably granular location) in which the stop occurred. Not in a standardized format across states.	Winooski
county_name	The standardized name of the county in which the stop occurred.	Chittenden County
county_fips	The standardized 5-digit FIPS code in which the stop occurred.	50007
district	In several states (e.g., Illinois) the stop county cannot be inferred, but a comparably granular location can. This comparably granular location is stored in the district column. Most states do not have this column.	ILLINOIS STATE POLICE 01
fine_grained_location	Any higher-resolution data about where the stop occurred: e.g., milepost or address. Not standardized across states.	90400 I 89 N; EXIT 15 MM90/40

More information on the fields/indicators is available at the link below:

<https://github.com/5harad/openpolicing/blob/master/DATA-README.md>

Analysis:

The [Final Story](#) of our analysis is available at Tableau Public.

Questions Addressed:

- a. Trend in stops before and after legalization of marijuana
- b. Effect on stops for counties in Washington State
- c. Traffic violations before and after legalization