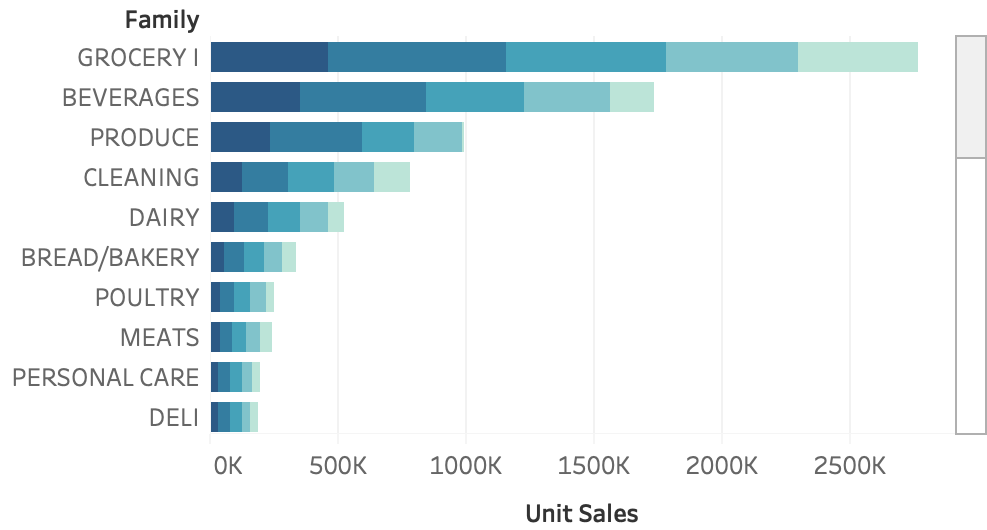


Supermarket_Sales_Analysis

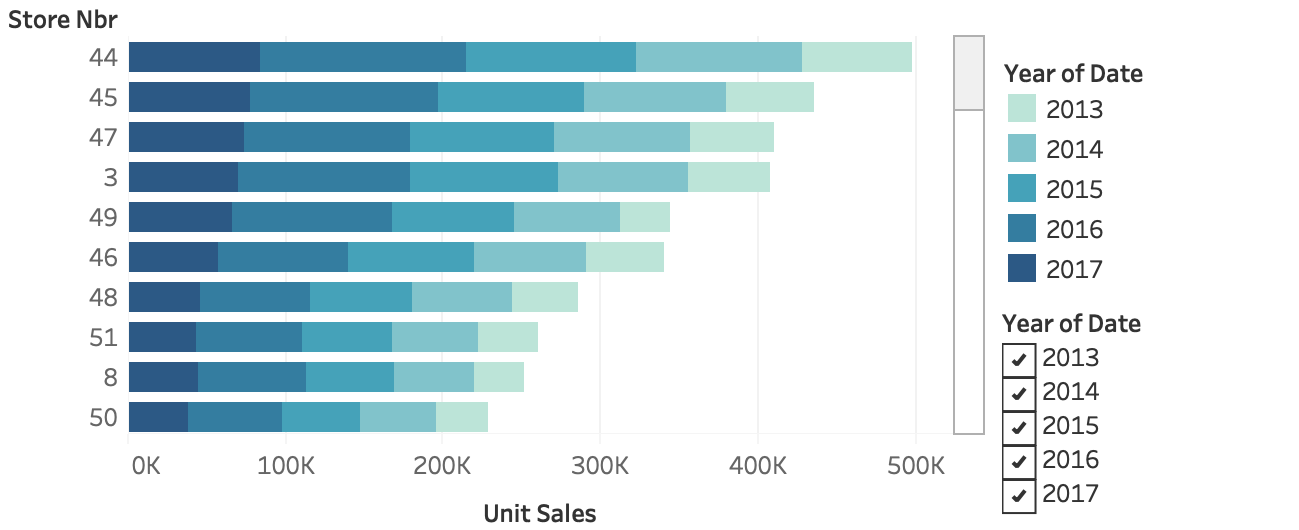
Weicheng Zhang

Cumulative Sales

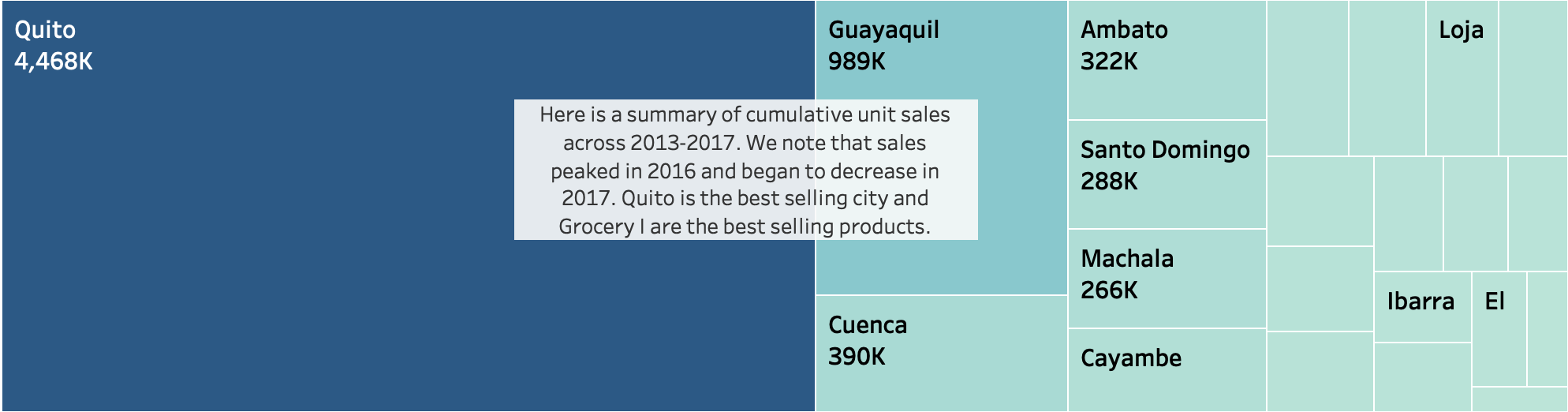
Cumulative Sales by Family in All

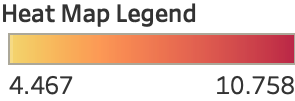
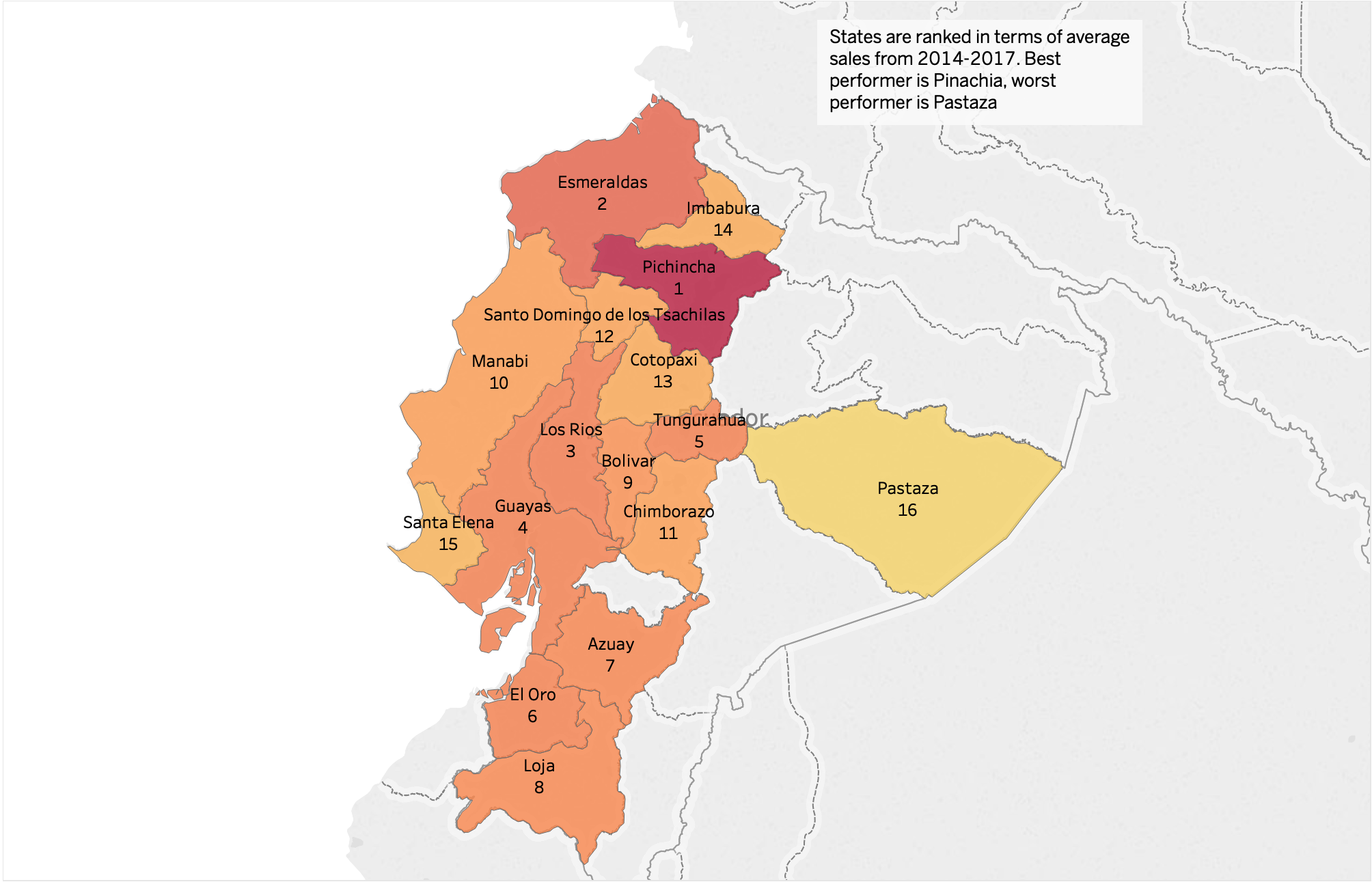


Cumulative Sales by Store in All



Cumulative Sales by City in 2013, 2014, 2015 and 2 more





- State Selector
- ☒ Azuay
 - ☒ Bolivar
 - ☒ Chimborazo
 - ☒ Cotopaxi
 - ☒ El Oro
 - ☒ Esmeraldas
 - ☒ Guayas
 - ☒ Imbabura
 - ☒ Loja
 - ☒ Los Rios
 - ☒ Manabi
 - ☒ Pastaza
 - ☒ Pichincha
 - ☒ Santa Elena
 - ☒ Santo Domingo de los ..
 - ☒ Tungurahua

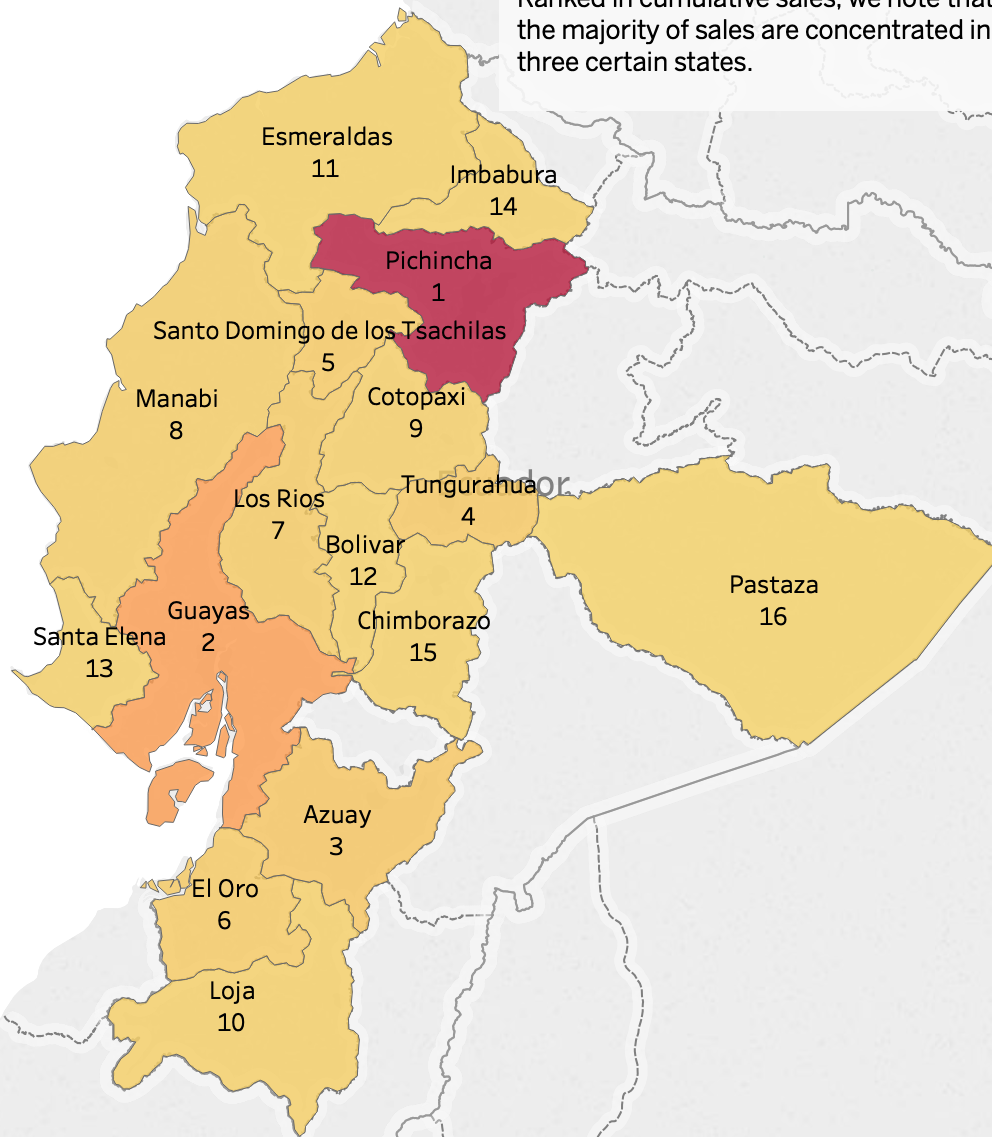
Ranked in cumulative sales, we note that the majority of sales are concentrated in the three certain states.

Heat Map Legend

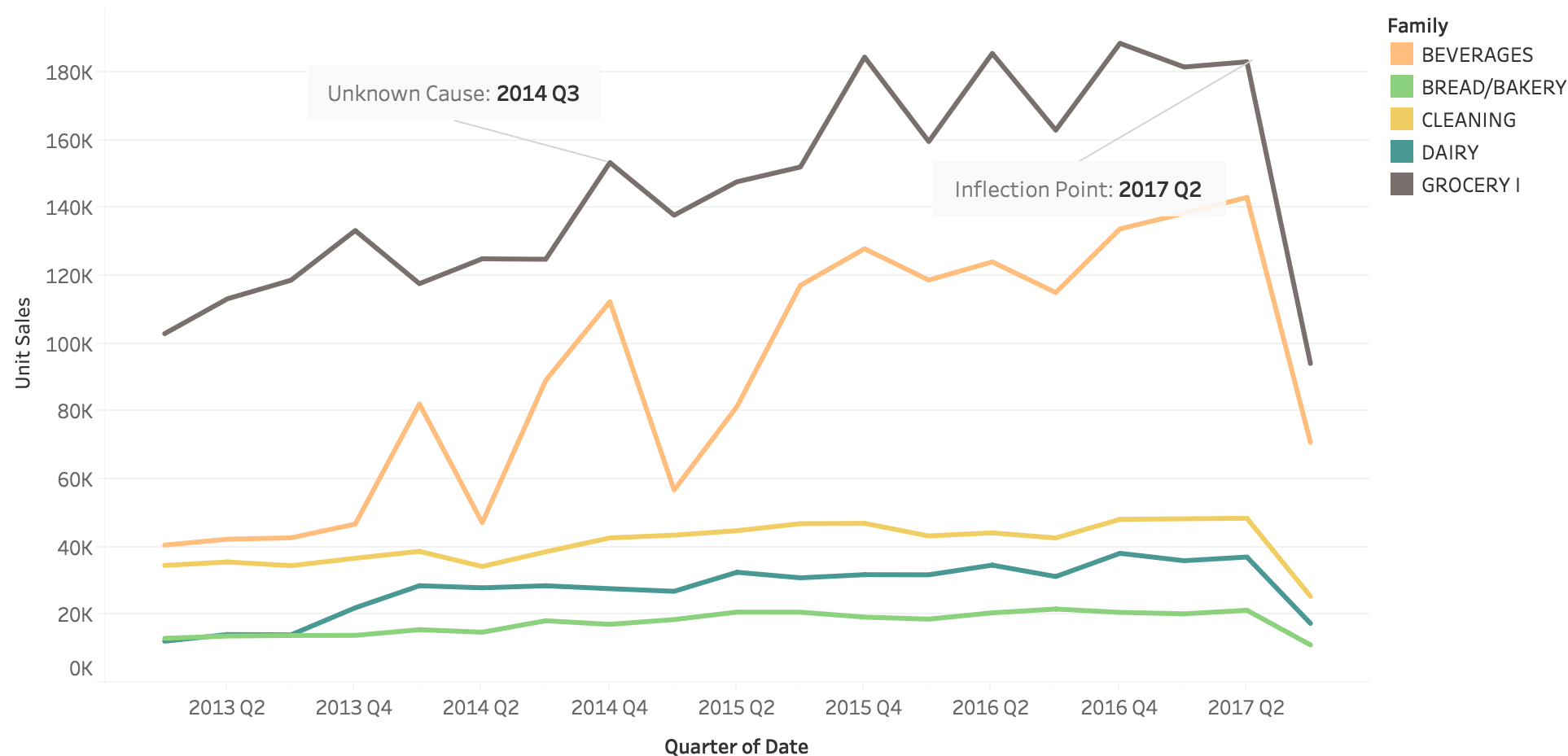


State Selector

- ☒ Azuay
- ☒ Bolivar
- ☒ Chimborazo
- ☒ Cotopaxi
- ☒ El Oro
- ☒ Esmeraldas
- ☒ Guayas
- ☒ Imbabura
- ☒ Loja
- ☒ Los Rios
- ☒ Manabi
- ☒ Pastaza
- ☒ Pichincha
- ☒ Santa Elena
- ☒ Santo Domingo de los ..
- ☒ Tungurahua

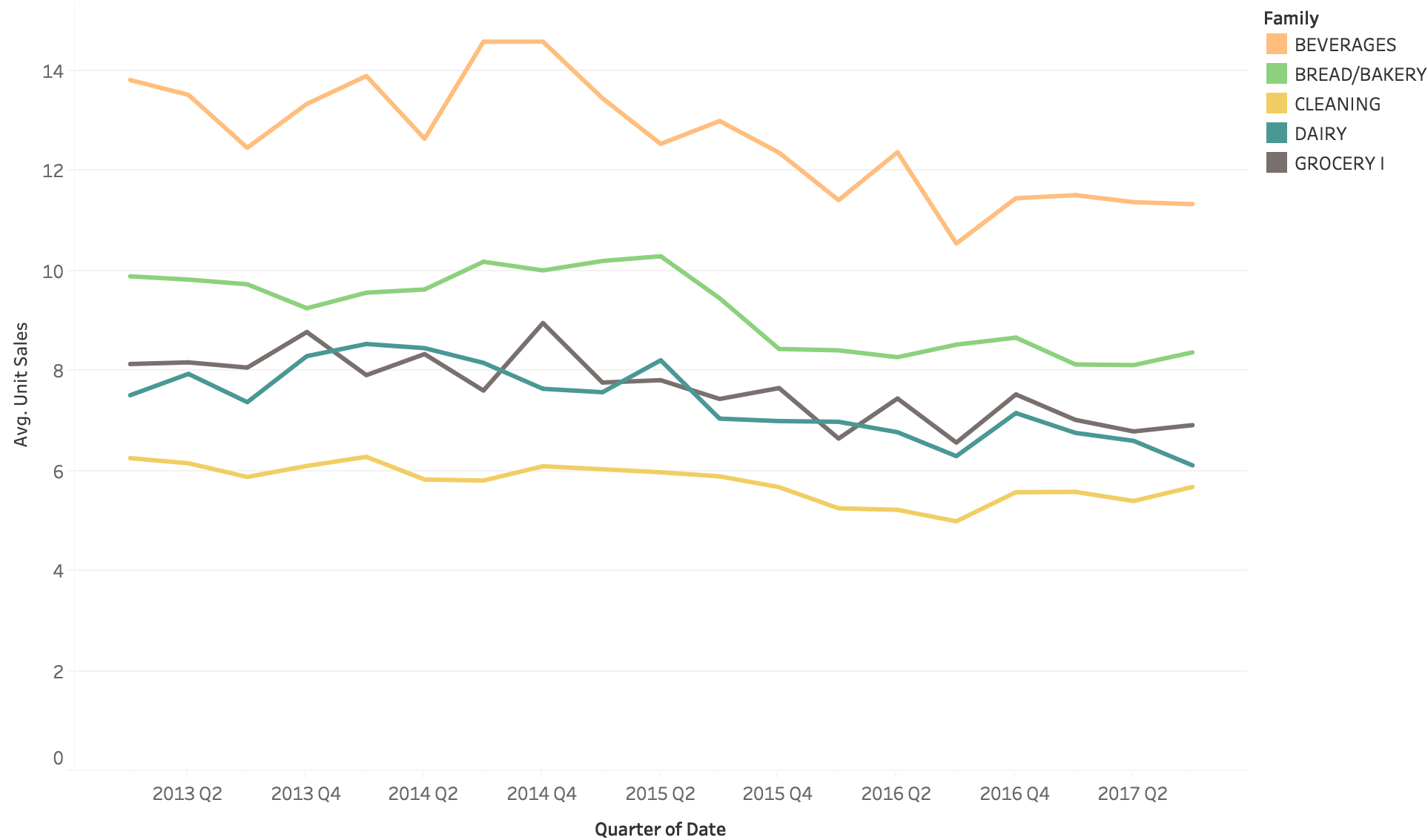


Cumulative Sales By Family



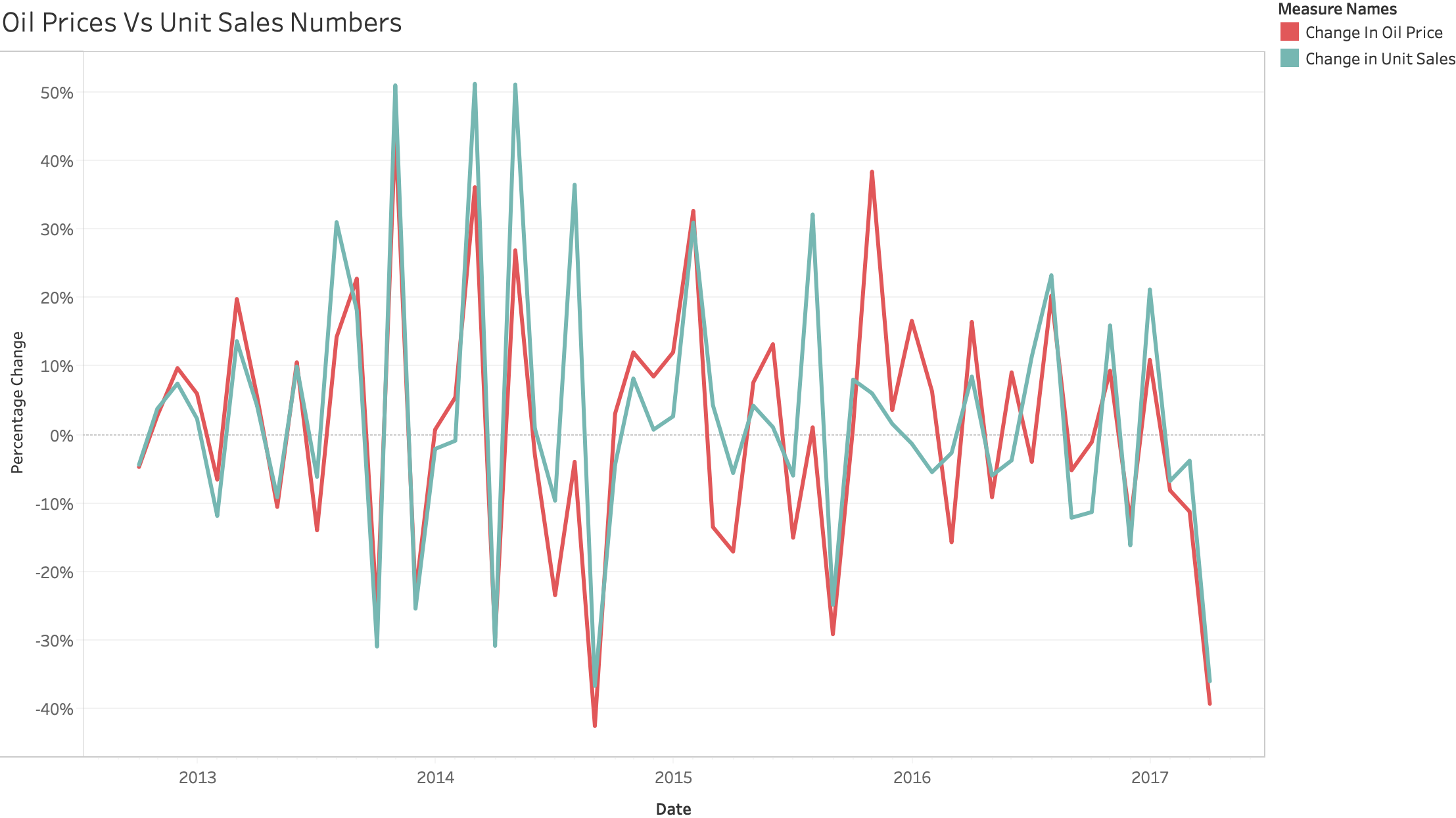
An inflection point occurred in Q1-Q2 2017. There is also an unknown cause of decrease in sales in Q3 2014. We can also note here that dairy, cleaning and bread items are relatively inelastic. The drop in 2017 is due to incomplete data.

Average Sales By Family



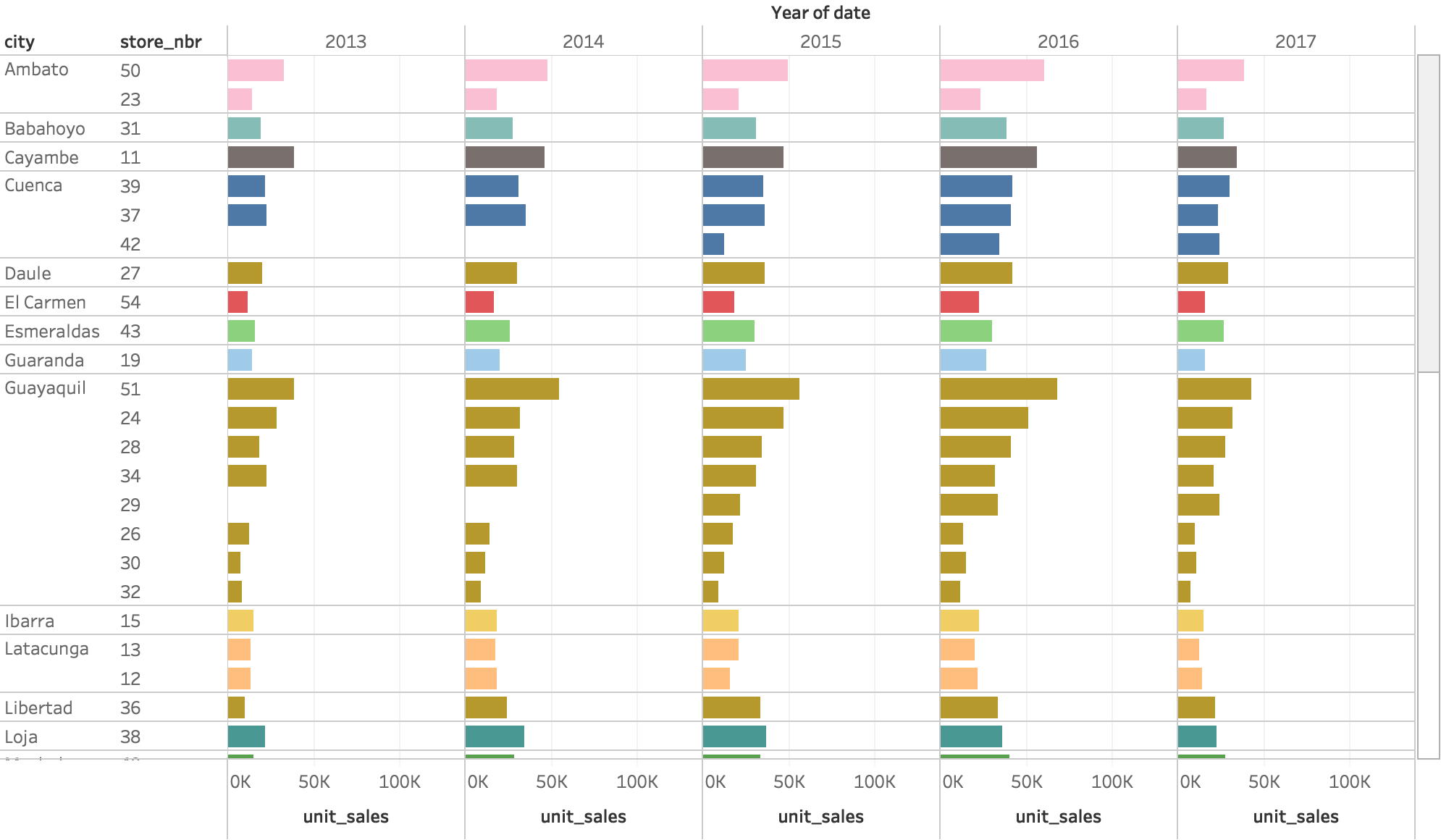
Average sales by family is relatively consistent.

Oil Prices Vs Unit Sales Numbers



Oil price of Ecuador and unit sales show high correlation. No information on causality.

Cumulative Sales By Stores and City

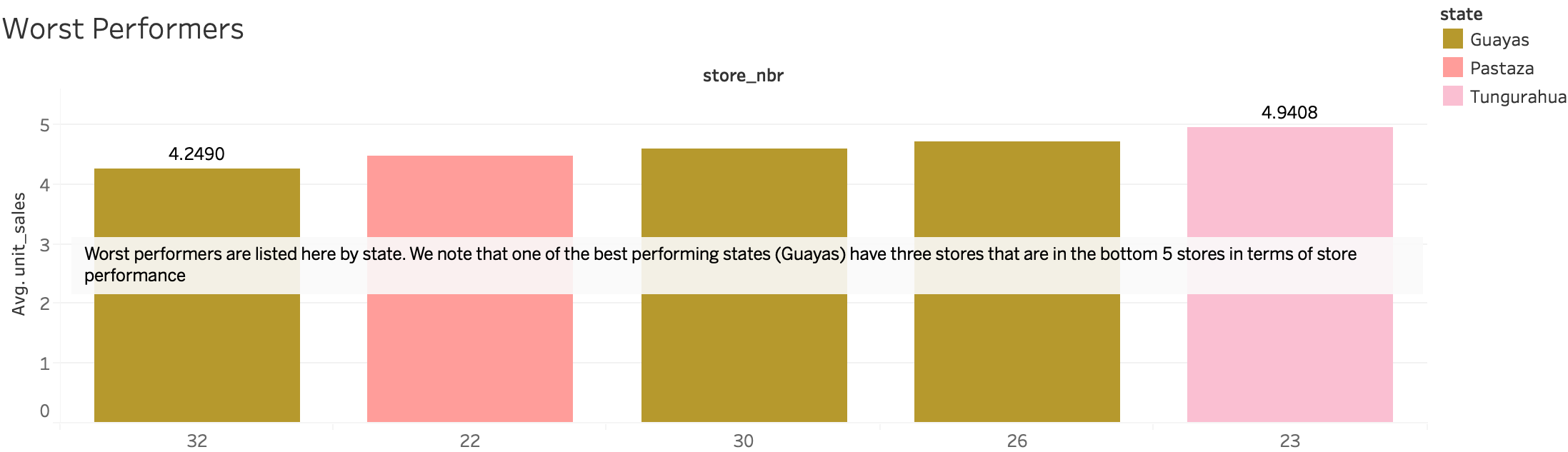


Sales Slider
4,043.395 to 131,041.284
and Null values

- State Selector
- ☒ Azuay
 - ☒ Bolivar
 - ☒ Chimborazo
 - ☒ Cotopaxi
 - ☒ El Oro
 - ☒ Esmeraldas
 - ☒ Guayas
 - ☒ Imbabura
 - ☒ Loja
 - ☒ Los Rios
 - ☒ Manabi
 - ☒ Pastaza
 - ☒ Pichincha
 - ☒ Santa Elena
 - ☒ Santo Domingo de los ..
 - ☒ Tungurahua

Best performing cities are Quito and Esmeraldas. Quito has 18 stores, and its sales have made up more than half of the total sales from year 2013 to 2017. In this cohort, 32 is underperforming. Also, differences are large in the same city. This may mean that some stores can be moved to other locations.

Worst Performers



Worst Units Sales by Family

