

About The Project

- 1. Comprehensive Data Analysis (2015-2018)
- Analyzed avocado prices from different cities across the United States, covering 18,000 rows and 13 columns of data.
 - Parameters include average price, total volume, avocado type, bag sizes, year, and region.
- **2. Key Insights and Visualizations** Utilized pivot charts, formulas, and various visualizations to understand past and present business scenarios.

3.Interactive Dashboard

- Created an interactive dashboard Features include dynamic pivot tables, slicers, and conditional formatting for enhanced data interpretation.



Problem Statements:

- What is the trend of average avocado prices over time?
- Top 10 regions have the highest average price for avocados?
- How does the total volume of avocados sold vary by type (conventional vs. organic)?
- How does the average price of avocados differ by year?
- What are the top 5 regions in total avocado volume sold?
- What is the relationship between the average price and total volume of avocados sold?
- Which month had the highest average price for avocados in 2015?
- What is the total volume of avocados sold in each year?
- How does the total volume of avocados sold change by type and year?
- What are the trends in average price and total volume over different years?
- Highest Average Price of Avocados Recorded
- Total Volume of Avocados Sold in the Dataset

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- Total Volume of Avocados Sold in the Dataset
- Average Price of Avocados for the Entire Dataset

Highest Average Price

3.25

Total Volume

3260900.05

Average Price For DataSet

\$1.63

- Total Volume of Small Bags Sold
- Total Volume of Large Bags Sold
- Total Volume of Extra-Large Bags Sold

Volume of "S" Bag 1225772.51

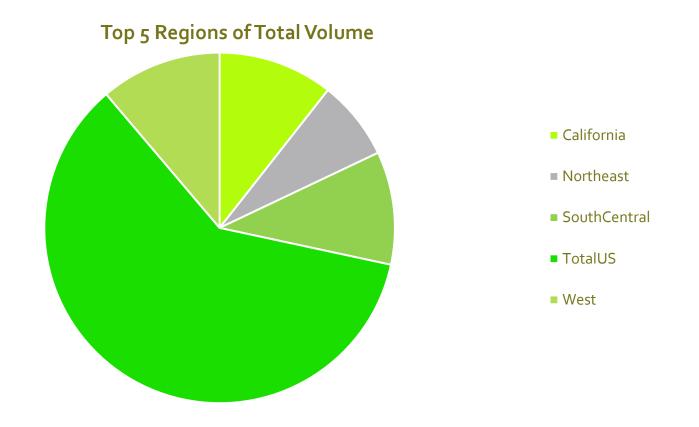
Volume of "L" Bag

996146.16

Volume of "XL" Bag

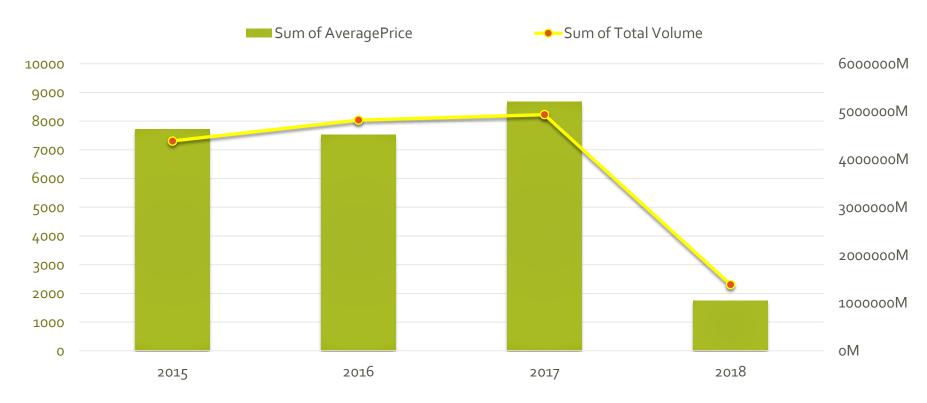
1907.57

What are the top 5 regions in terms of total avocado volume sold?



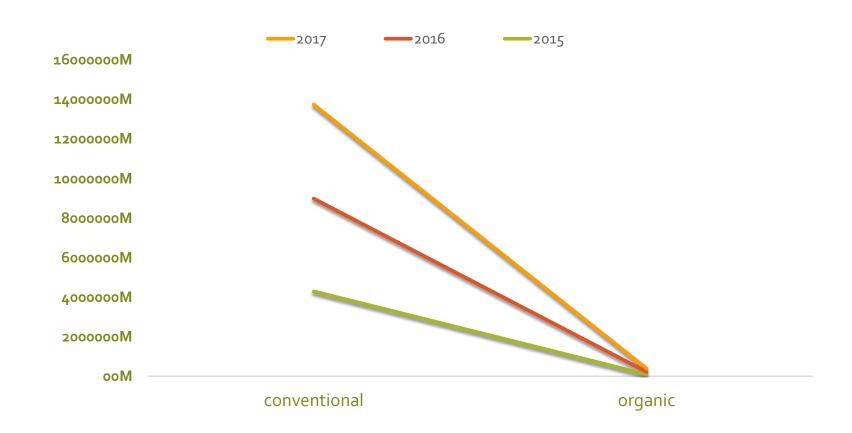
• **Conclusion:** California leads in avocado sales, followed by the Northeast, SouthCentral, TotalUS, and West regions.

What are the trends in average price and total volume over different years?



• **Conclusion:** The average price of avocados went up each year, but the total volume sold dropped a lot in 2018.

How does the total volume of avocados sold change by type and year?



Conclusion:

Conventional avocados consistently sell in much higher volumes than organic avocados across all years.

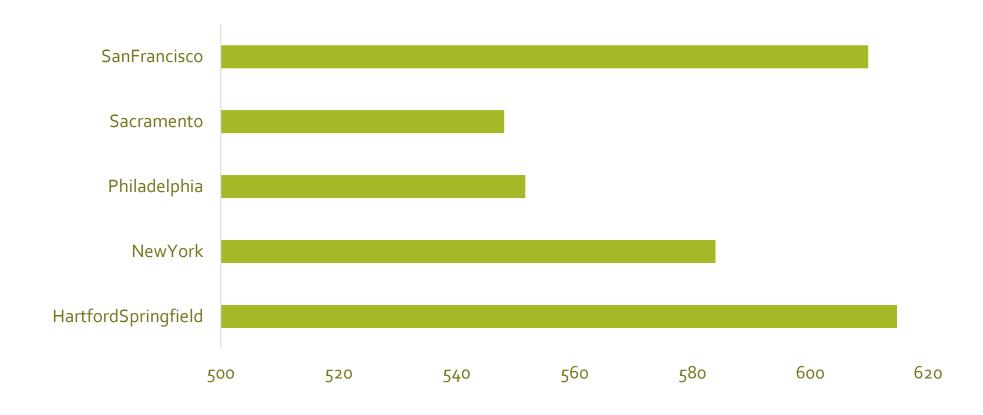
What is the total volume of avocados sold in each year?

Pivot Table: Years as rows, Total Volume as values.

Volume of Avocado As Per Year

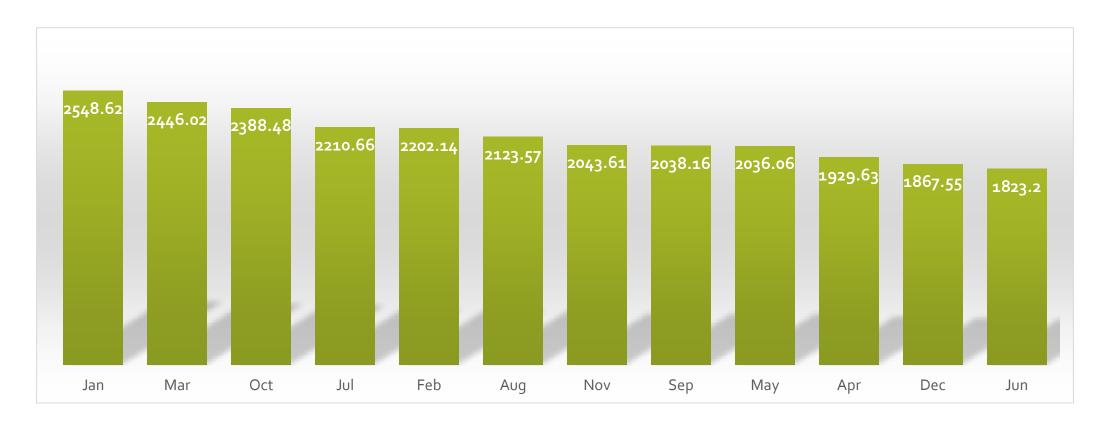
Year	Sum Of Volume
2015	4385469M
2016	4820890M
2017	4934306M
2018	1382738M

Which regions have the highest average price for avocados?



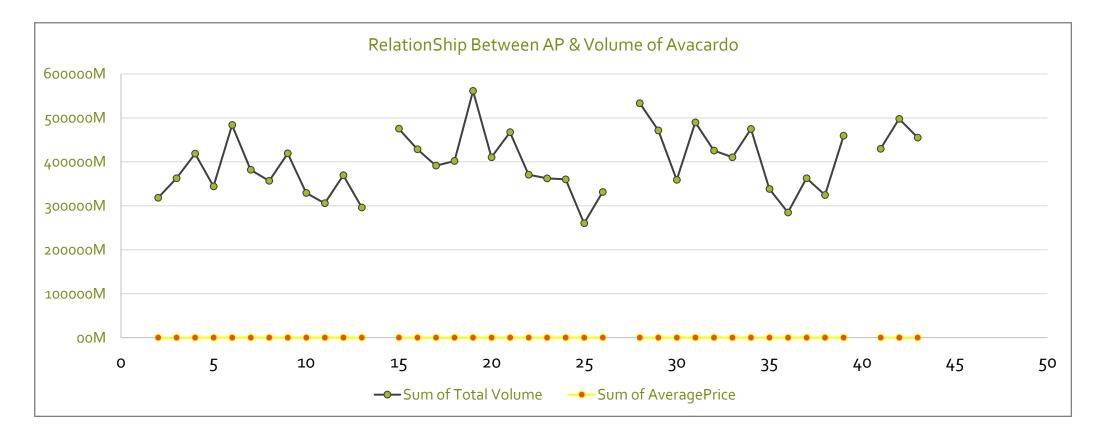
 Conclusion: Harter D Springfield leads in avocado sales, followed by the San Francisco & New York

Which month had the highest average price for avocados in 2015?



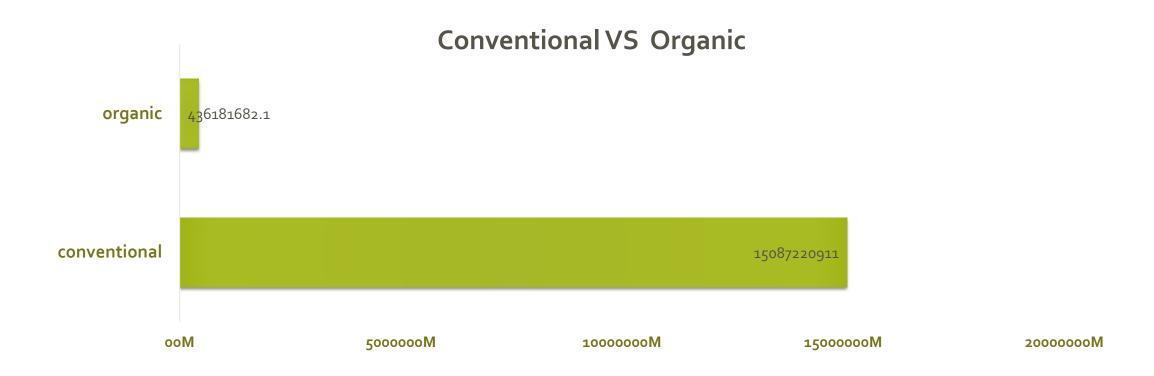
• Conclusion: In 2015, January had the highest average avocado price.

What is the relationship between the average price and the total volume of avocados sold?



• **Conclusion:** The number of avocados sold goes up and down a lot, but the average price stays mostly the same.

How does the total volume of avocados sold vary by type (conventional vs. organic)?



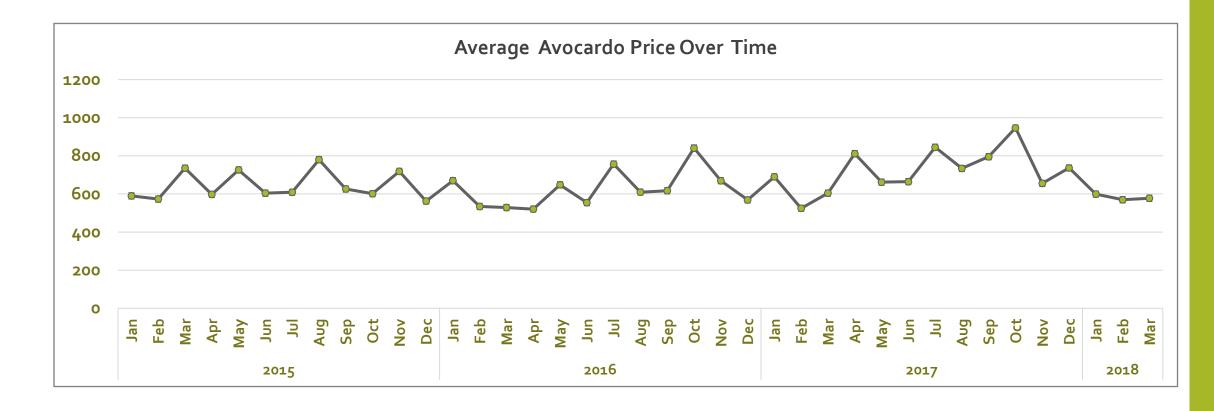
 Conclusion: The total volume of conventional avocados sold is much higher than the total volume of organic avocados sold. Top 10 regions have the highest average price for avocados?

Pivot Table: Regions as rows, Average Price as values.

Top 10 Region of Highest A.P

Region	A.P
Albany	527.63
Charlotte	542.84
Chicago	526.19
HartfordSpringfield	614.7
NewYork	583.92
Northeast	541.45
Philadelphia	551.66
RaleighGreensboro	525.63
Sacramento	548.09
SanFrancisco	609.82

What is the trend of average avocado prices over time?



• **Conclusion:** Avocado prices go up and down over time but seem to slowly decrease at the end.

How does the average price of avocados differ by year?

Pivot Table: Years as rows, Average Price as values.

A.P As Per Year

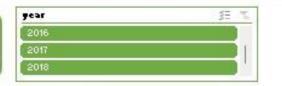
Year	A.P
2015	7723.94
2016	7517.8
2017	8669.56
2018	1746.4
Grand Total	25657.7

Dashboard ->





Avocado Price Dashboard



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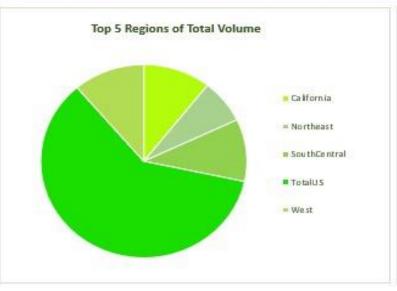


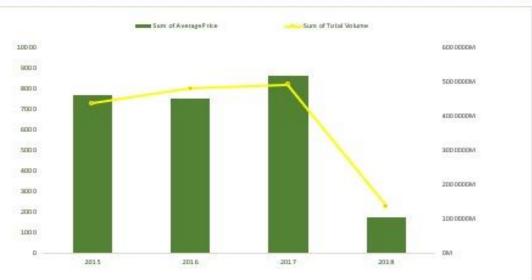
A.P As Per Year

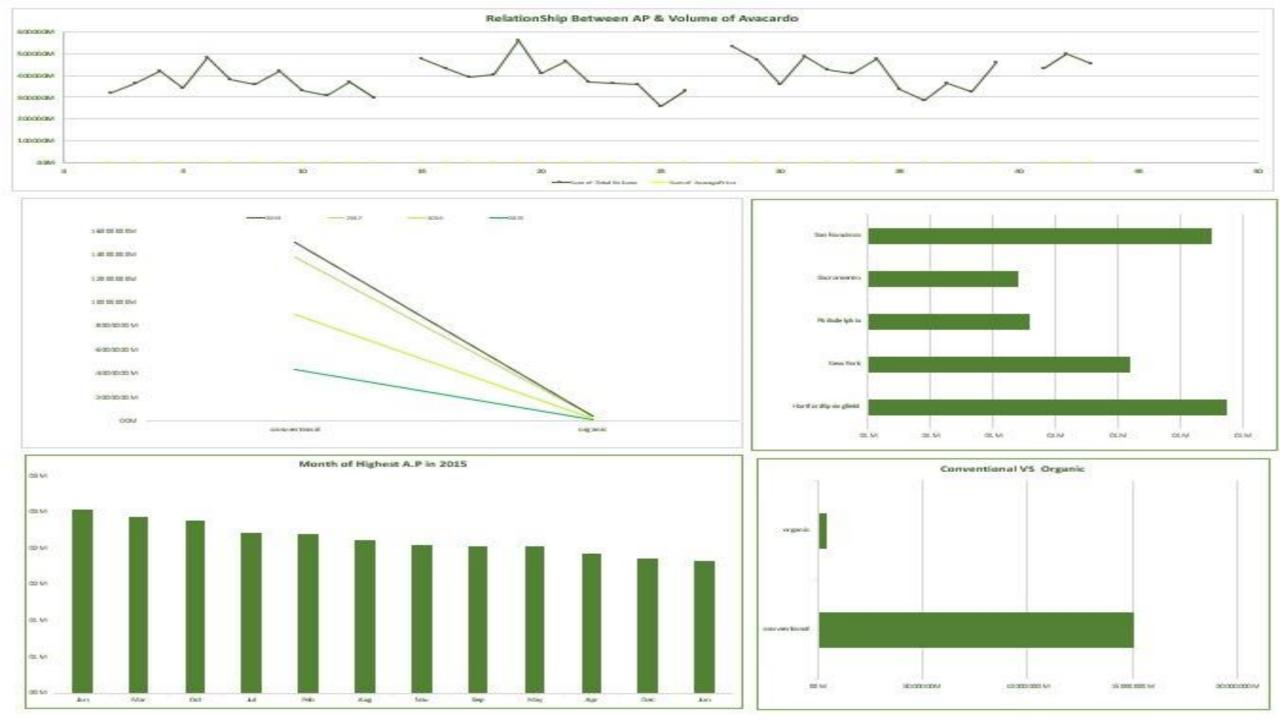
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A.P As Per Year

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Conclusion:

- **Regional Focus:** Sell more avocados in places like California and the Northeast, where demand is high all year.
- Change Prices by Season: Raise prices in summer and early fall when more people buy avocados.
- **Types of Avocados:** Keep lots of regular avocados in stock—they sell the most. Sell organic avocados in places like Hartford-Springfield and San Francisco, where people pay more for them.
- Where to Sell: Sell avocados as a fancy item in places like Hartford-Springfield and San Francisco, where people pay more for them because they think they are better.
- Plans for the Future: Sell more kinds of avocados, and think about selling them in new places while also selling them in places where they already sell well.

Project Link:

Excel:

Avocado Price Analysis Dashboard

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