

# HORTICULTURE ANALYSIS IN INDIA

## INTRODUCTION:

The challenge theme chosen for Tableau Dataviz challenge-2021 is Horticulture. The dataset is chosen from Open Government Data (OGD). It is a platform for supporting open data initiatives of the Government of India. The dataset describes about the state-wise horticulture in India from 2009 to 2015. The allotted area and production of each fruit in each state/UT for every year between 2009 and 2015 is provided in the dataset. This dataset is used to do the horticulture analysis in India by visualizing the given data in the Tableau software.

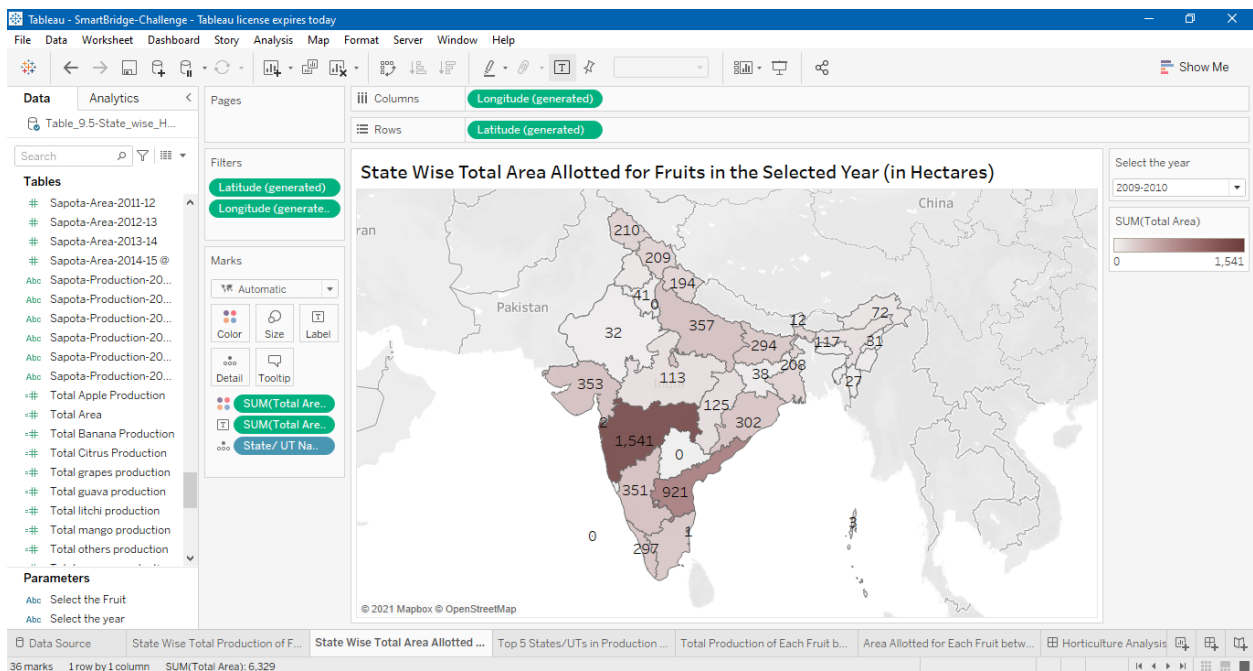
## EXPERIMENTAL INVESTIGATIONS:

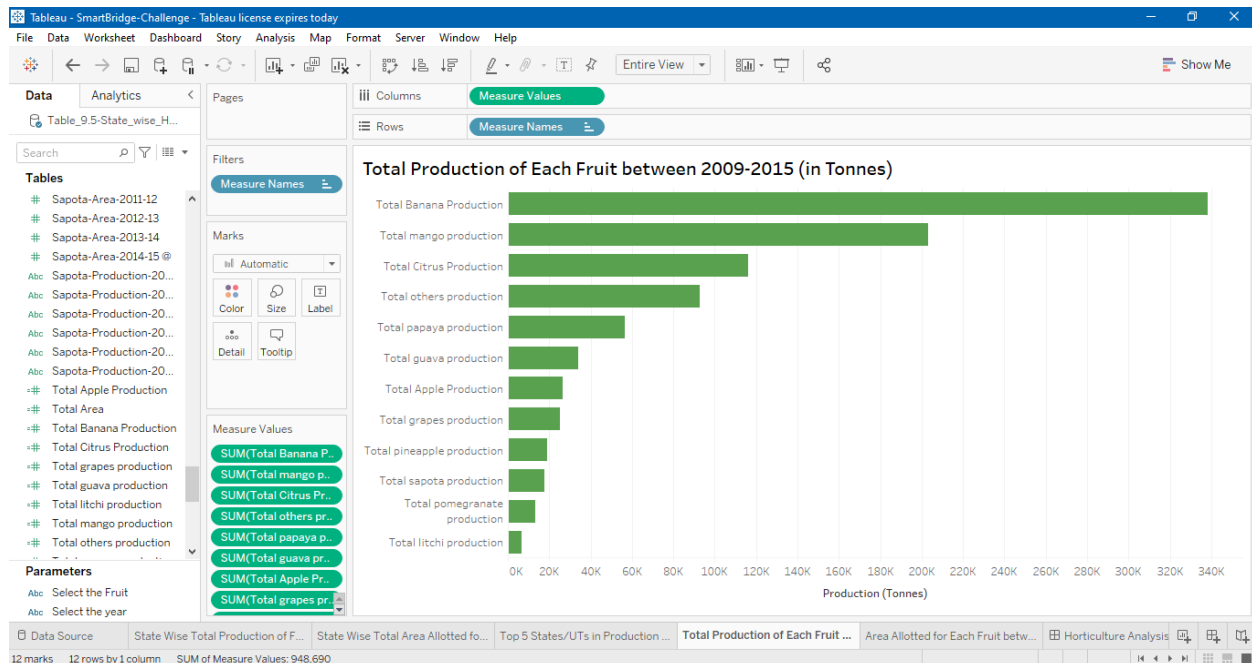
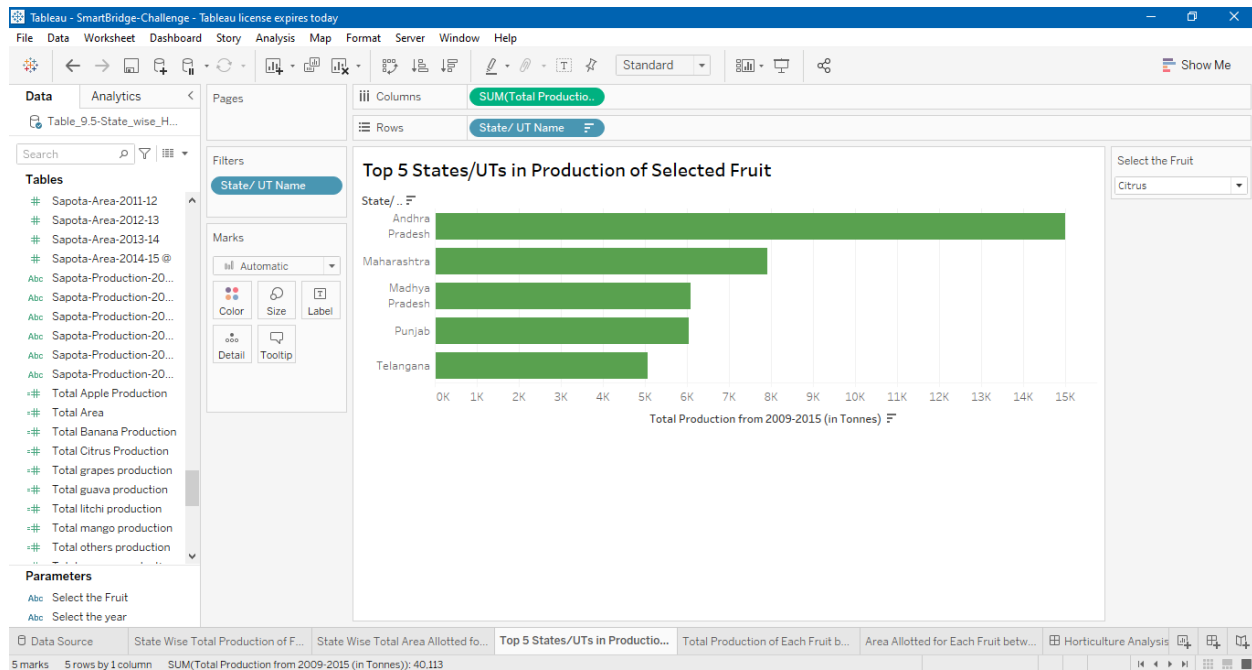
1. To get the state wise total production of fruits in the selected year, I have chosen total production of all fruits in every state/UT in each year data and plotted them in map graph.
2. To get the state wise total area allotted for fruits in the selected year, I have chosen total area allotted for all fruits in every state/UT in each year data and plotted them in map graph.
3. To get the top 5 states in production of selected fruit, I have created calculated fields for each fruit by adding production of each fruit from 2009 to 2015 and plotted them using bar graph. A filter is added to get only the top 5 states in production of selected fruit.
4. To get the total production of each fruit from 2009 to 2015, I have used the fields created in the above step and plotted them using bar graph in decreasing order.
5. To get the area allotted for each fruit from 2009 to 2015, I have used the area allotted for each fruit in all the states data and plotted them using Gantt bar chart in increasing order.

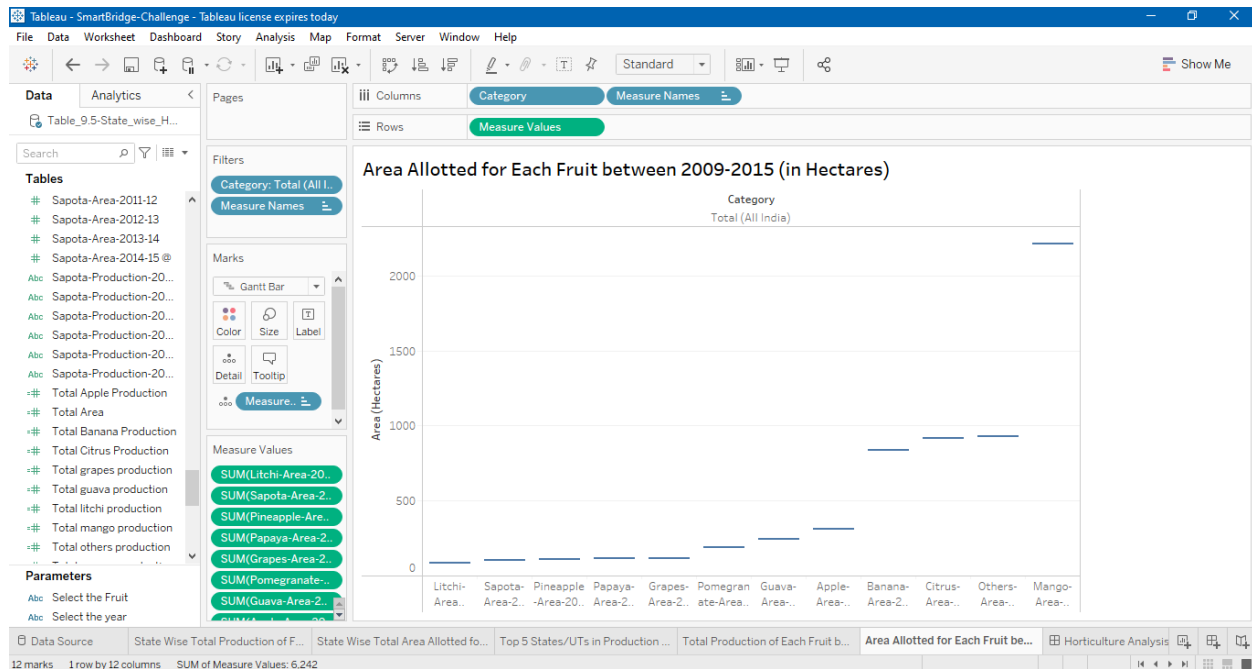
## RESULTS:

1. Andhra Pradesh tops in the production of fruits in 2009-2010 and Maharashtra tops in the production of fruits in 2014-2015. Both states are in a competition in the production of fruits.
2. The area allotted for the production of fruits in India is in the increasing fashion from 2009-2015.
3. Andhra Pradesh and Maharashtra leads among other states in the top production of multiple fruits.

- The screenshot shows the Tableau Desktop interface with a map of India. The map is titled "State Wise Total Production of Fruits in the Selected Year(in Tonnes)". The map displays production data for various states, with bubble sizes representing production volume. The interface includes a menu bar, a toolbar, and a sidebar with "Data", "Analytics", "Columns", "Rows", "Filters", and "Marks" sections. The "Columns" shelf contains "Longitude (generated)" and the "Rows" shelf contains "Latitude (generated)". The "Filters" shelf contains "Latitude (generated)" and "Longitude (generated)". The "Marks" shelf is set to "Automatic". The "Marks" shelf contains "SUM(Total Pro...)" and "SUM(Total Pro...)".







Link to the story telling dashboard published on Tableau public:

<https://public.tableau.com/profile/aravind3027#!/vizhome/HorticultureAnalysisinIndia/HorticultureAnalysisinIndia2009-2015>

Dataset link:

<https://data.gov.in/resources/state-wise-area-and-production-fruits-2009-10-2014-15>

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