

# HORTICULTURE

## **INTRODUCTION:**

Horticulture is the science and art of the development, sustainable production, marketing and use of high-value, intensively cultivated food and ornamental plants.

Horticultural crops are diverse, including:

- Annual and perennial species,
- Fruits and vegetables,
- Decorative indoor plants and
- Landscape plants.

Horticulture also contributes to quality of life, and the beauty, sustainability and rehabilitation of our environment and the human condition.

Plants, crops and green spaces sustain and enrich our lives by providing nutritious food, enhancing the beauty of our homes and communities and reducing our carbon footprint.

## **Advantages of horticulture:**

- Reduces pollution
- Reduces Temperature
- Provides Employment
- Acts as Recreational Areas
- Provides Fresh Air

## **Disadvantages of horticulture:**

- Costly Procedure
- High Maintenance
- Requires Huge Labor Force
- Skilled Labor and Techniques are necessary

- Hectic and hard procedure

### **PROJECT OBJECTIVES:**

- To explore and analyze the data required for the project.
- To identify the proper techniques to represent data.
- To illustrate how visual analytics can help in exploring the data.

### **PROJECT CHALLENGES:**

This project gives information about:

- What is Horticulture?
- What are major horticulture crops producing countries in the world in terms of productivity? (where productivity=area of production / total amount of production).
- What is the area of production and amount of production in these countries?
- What is the state wise production of different horticulture crops in INDIA?
- What is the overall production of different horticulture crops in INDIA?

(Note: The data is taken from the year 2010\_2011.)

### **PURPOSE OF THE PROJECT:**

The purpose of this project is:

- To show the world wide trend of horticulture.
- To show the national trend of horticulture.

## **PROPOSED SOLUTIONS FOR THE CHALLENGES:**

- **What is horticulture?**

### **What is Horticulture?**

Horticulture is the science and art of the improvement, economical production, marketing, and utilization of high-value, intensively developed food, and ornamental plants. Horticultural crops are different; they incorporate yearly and perennial species, scrumptious natural products and vegetables, and enriching indoor and scene plants.

#### **Advantages:**

- 1) Reduces Pollution
- 2) Reduces Temperature
- 3) Provides Employment
- 4) Acts as Recreational Areas
- 5) Provides Fresh Air

#### **Disadvantages:**

- 1) Costly Procedure
- 2) High Maintenance
- 3) Requires Huge Labour Force
- 4) Skilled Labor and Techniques are necessary
- 5) Hectic and Hard Procedure



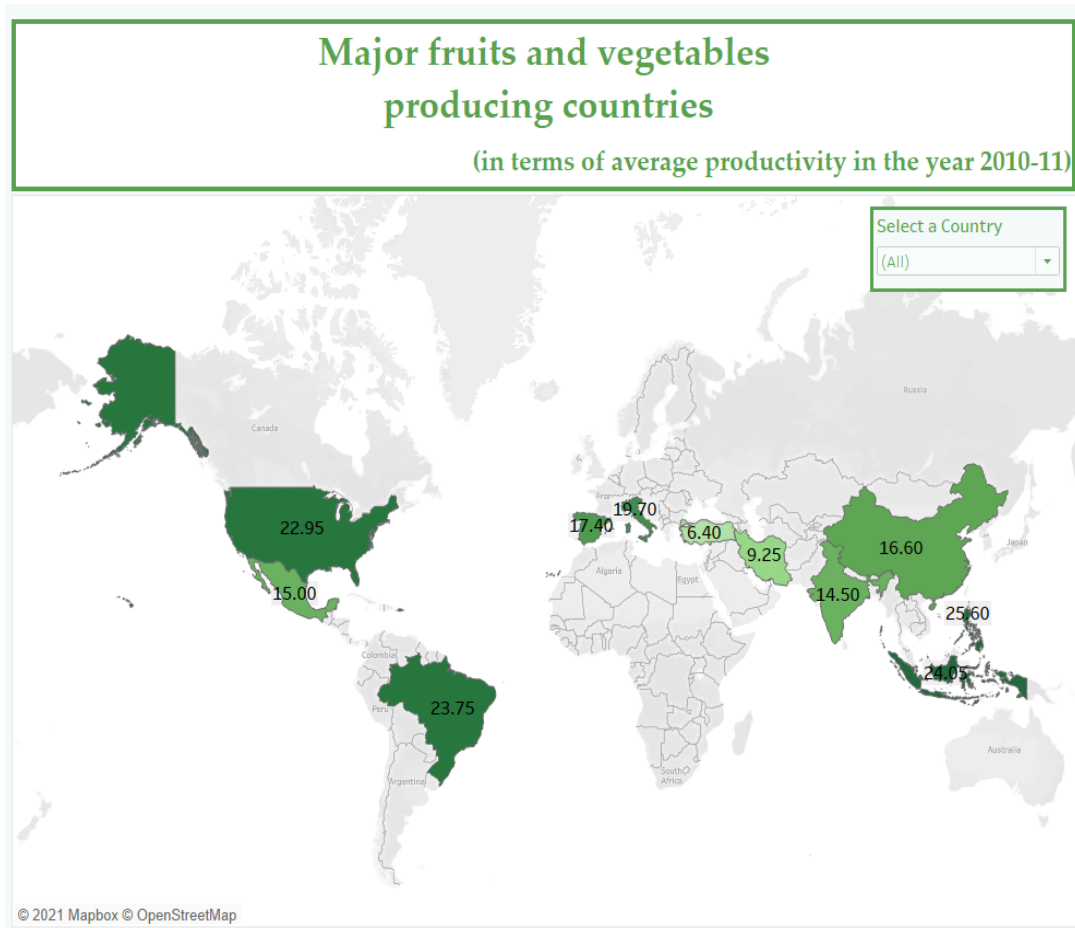
- **What are major horticulture crops producing countries in the world in terms of productivity?**

The solution for this challenge contains the information about the top countries which have highest productivity rate in producing fruits and vegetables. Where the productivity is given by the ratio of area and production. it can be represented easily by using choropleth maps (i.e. filled maps) and filling it with colors according to the productivity rate.

The countries considered are Brazil, China , India, Indonesia, Iran, Italy, Mexico,

Philippines, Spain, Turkey, USA.

From the map we can easily see that the Philippines has highest productivity rate followed by Indonesia. Similarly we can look at productivity rate of different countries.

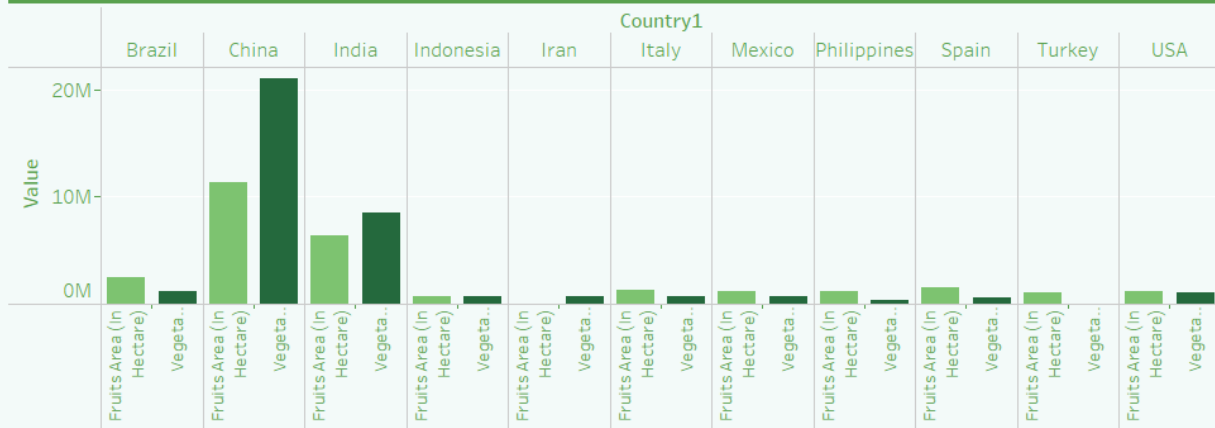


- **What is the area of production and amount of production in these countries?**

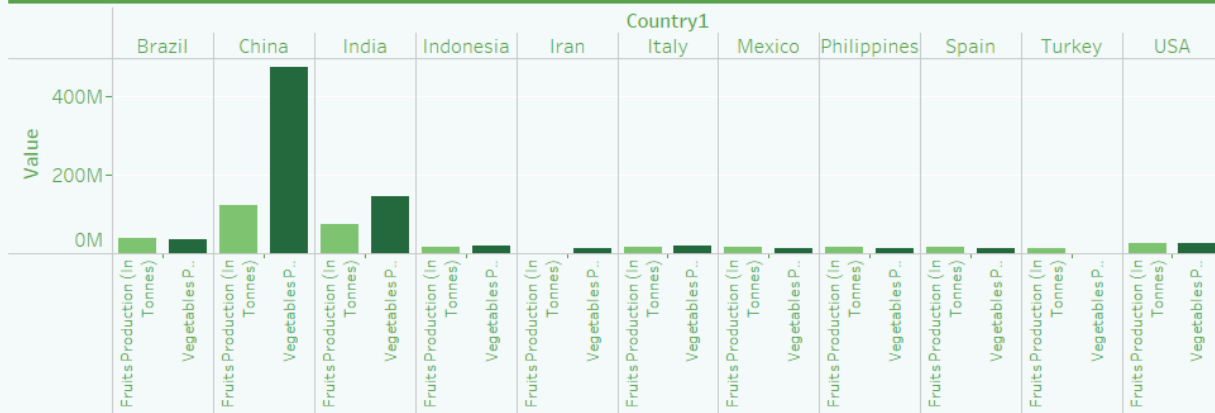
This solution gives information about the area and production of fruits and vegetables in the above discussed countries. From this we can see the trend in area and production.

From this we can say that China has highest area of production and production of fruits and vegetables compared to other countries.

### Area of production of fruits and vegetables in major countries



### Production of fruits and vegetables in major countries

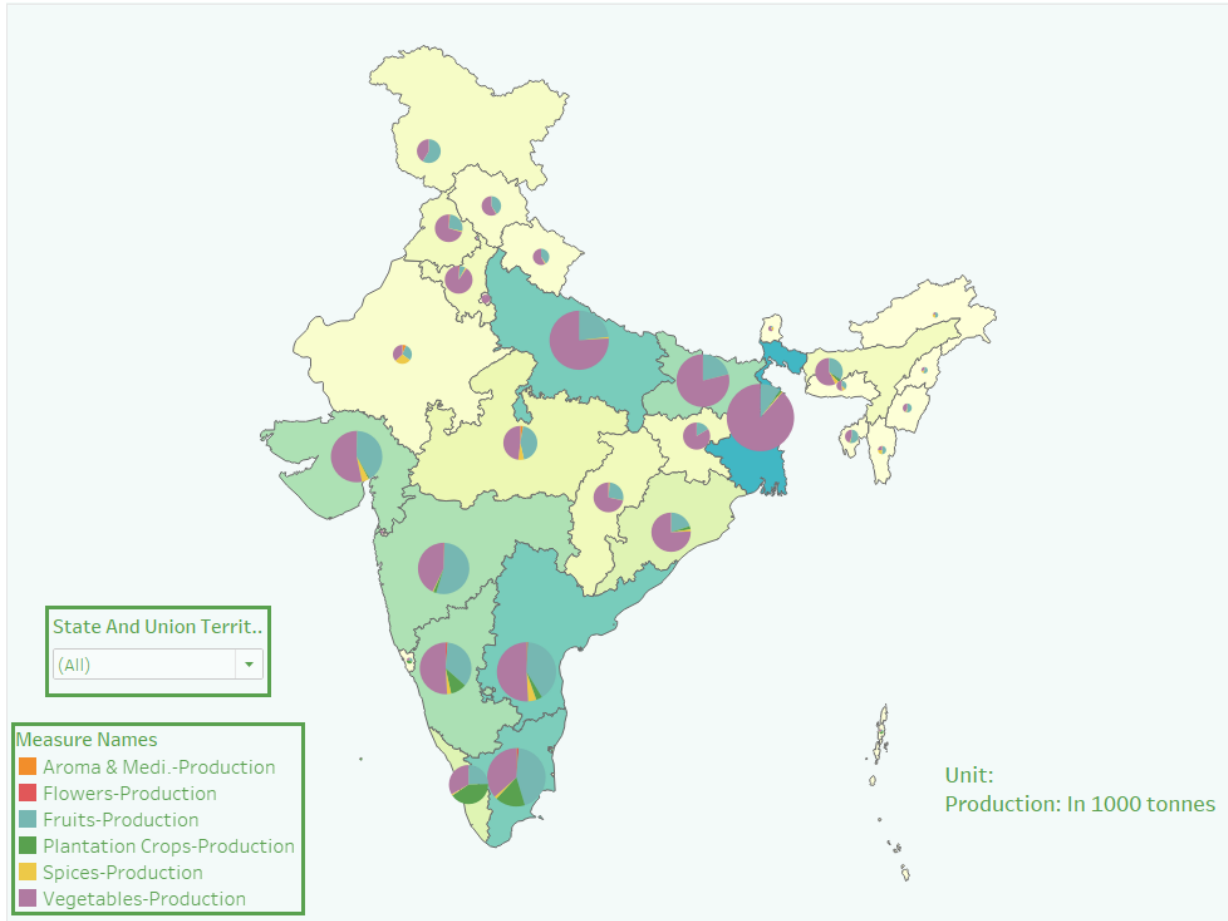


- What is the state wise production of different horticulture crops in INDIA?

This solution contains the information of production of different horticulture crops in each state. We can represent the data by using a filled map and inserting a pie chart for each state to represent the production of different horticulture crops in each state. While the color of the map represents the total production of horticulture crops in each state.

From the map we can say that West Bengal has the highest production of different horticulture crops.

## All India State wise production of different Horticulture Crops

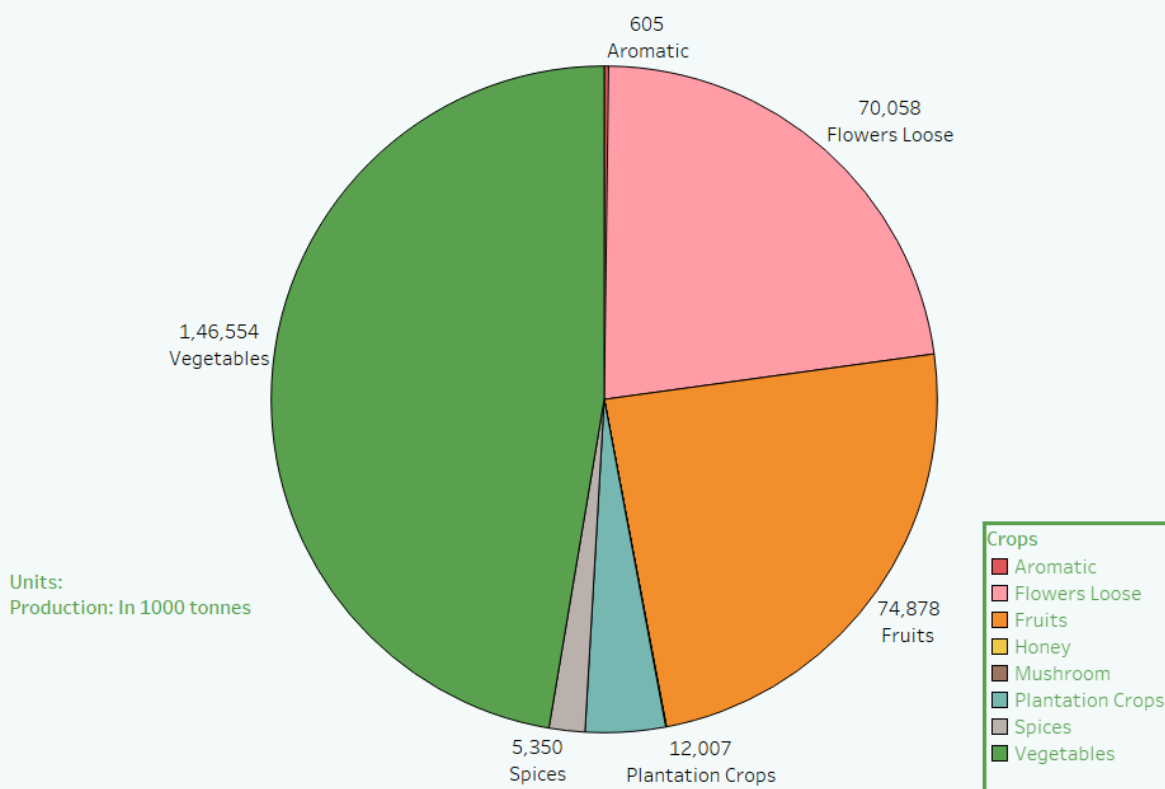


- **What is the overall production of different horticulture crops in INDIA?**

This solution gives the overall production of different horticulture crops in INDIA.

From the chart we can say that the vegetables have the highest production followed by fruits. While Aromatic plants have least production.

## Total Production of different horticulture crops



### **CONCLUSION:**

Here, I have come to the end of the project on the topic Horticulture.

I tried my best to include all the necessary points that are required related to the given topic. Some of the information I wrote in the project were taken from internet and also from the website <http://data.gov.in>.

This project contains information of horticulture, major horticulture crops producing countries, area and production of horticulture crops in this countries, all India state wise production of different horticulture crops, total production of different horticulture crops in India. I do hope that my project will be interesting and knowledgeable.