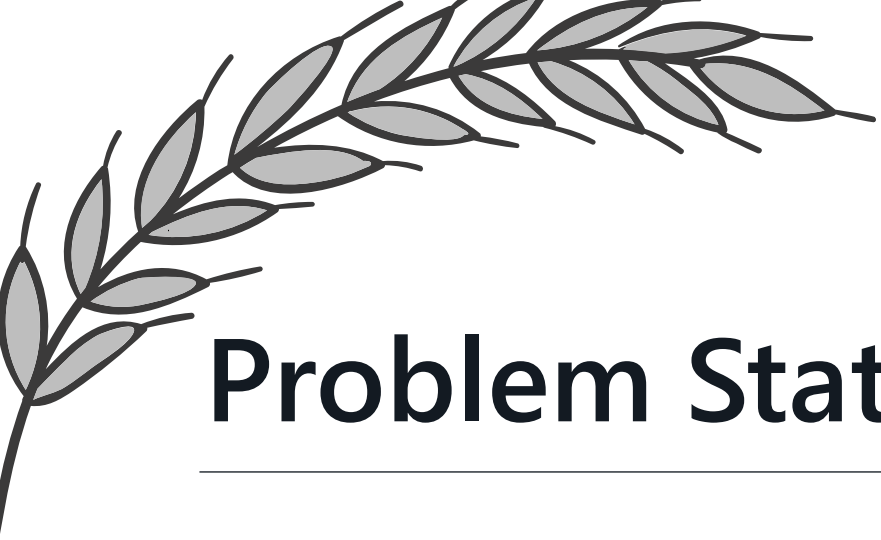




# Crop Production Analysis in India

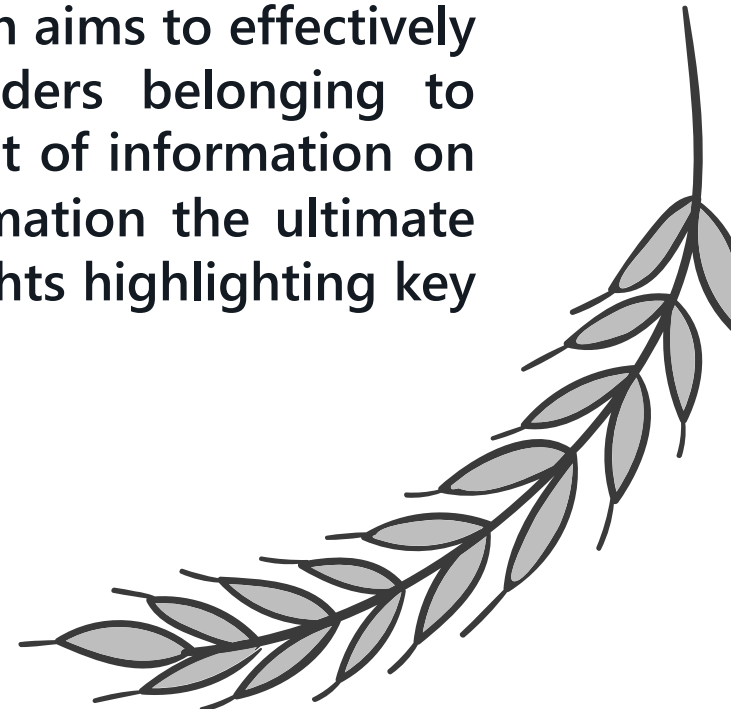




# Problem Statement

---

As a vital part of the overall supply chain, the Agriculture business domain is expected to evolve highly in the upcoming years via the developments, which are taking place on the side of the Future Internet. This paper presents a novel Business-to-Business collaboration platform from the agri-food sector perspective, which aims to effectively and flexibly facilitate the collaboration of numerous stakeholders belonging to associated business domains. This dataset provides a huge amount of information on crop production in India over several years. Based on the Information the ultimate goal would be to predict crop production and find important insights highlighting key indicators and metrics that influence crop production.



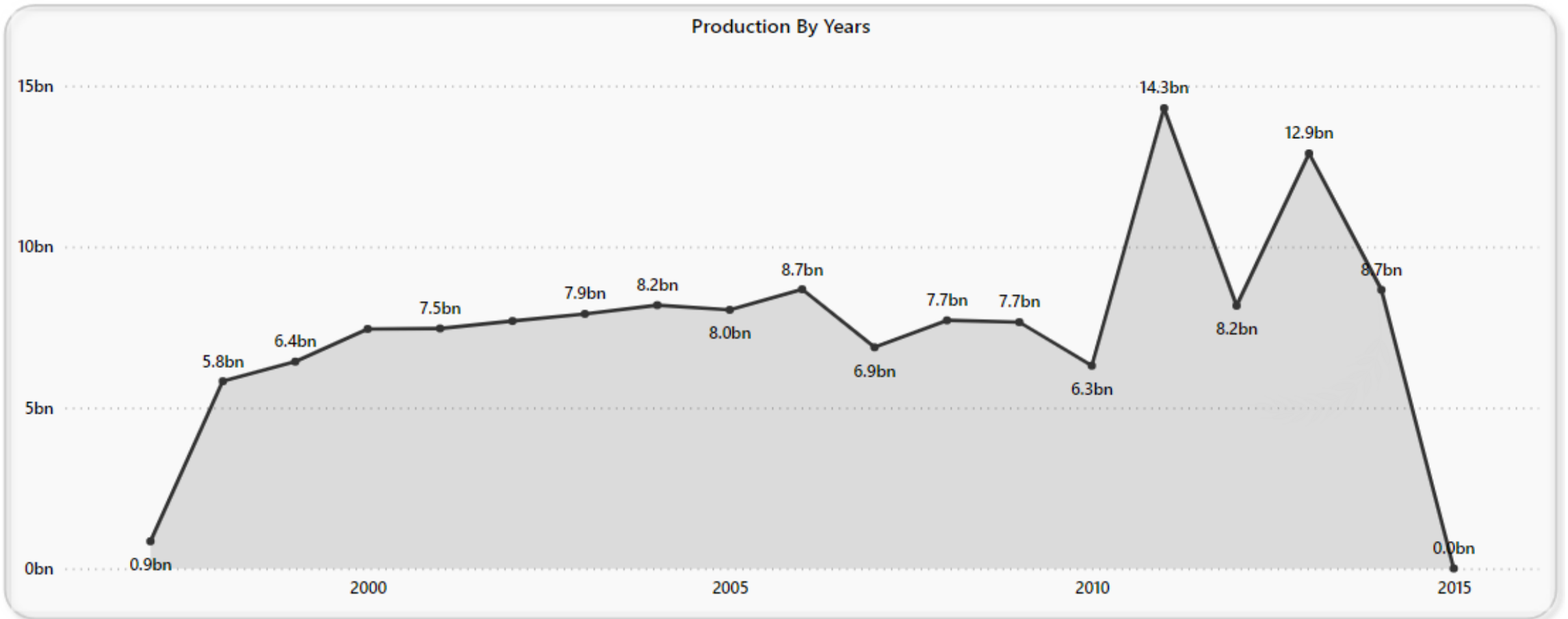
# Production by Years



**1995:** Production was **850 million** units.

**2011:** Production increased to **14.3 billion** units, representing a **1,582% increase** from **1995**.

**2014:** Production decreased to **8.66 billion** units, reflecting a **39.44% decrease** from **2011**.





# Key Metrics

---

**141bn+**

## Total Production

The overall quantity of harvested crops over a specific period includes grains, vegetables, fruits, and other plant-based products.

**2.90bn+**

## Total Area

Total area for agriculture, residential, commercial, and industrial activities, including farming, urban development, infrastructure, and natural reserves.

**100+**

## Crop Types

This includes grains (e.g., rice, barley), fruits (e.g., bananas, coconuts), vegetables (e.g., tomatoes, potatoes), and others (e.g., sugarcane, cotton, and bajra).

**42**

## Average Production/Unit Area

The overall yield of crops is the amount harvested per unit of land area, typically measured in weight per hectare or acre. This metric reflects agricultural productivity and farming practices.

**6**

## Seasons

A diverse range of agricultural products is cultivated across distinct growing seasons, including crops that grow year-round.eg Autumn, Summer, Kharif, Rabi, Winter, and crops that grow the whole year





## Production by State

### Kerala:

- Total Production: **97.88 billion**
- **Highest** producer of crops

### Andhra Pradesh:

- Total Production: **17.32 billion**
- **Second highest** producer of crops.

### Tamil Nadu:

- Total Production: **12 billion**
- **Third highest** producer of crops

## Production by District

### Kozhikode:

- Total Production: **15.28 billion**
- **Highest** producer of crops

### Malappuram:

- Total Production: **14.52 billion**
- **Second highest** producer of crops

### Thiruvananthapuram:

- Total Production: **10 billion**
- **Third highest** producer of crops

## Production by Season


### Whole Year:

- Total Production: **134.42 billion**
- **Highest** production throughout the year **Mostly Coconut**

### Kharif Season:

- Total Production: **4 billion**
- **Second-highest** production

### Rabi Season:

- Total Production: **2 billion**
  - **Third-highest** production
- 



# Production by Seasons

---

## Autumn Season:

- Total Production: 64 million
- Highest Producer: Rice (51 million)
- Second Highest: Maize (8 million)
- Third Highest: Paddy (2 million)

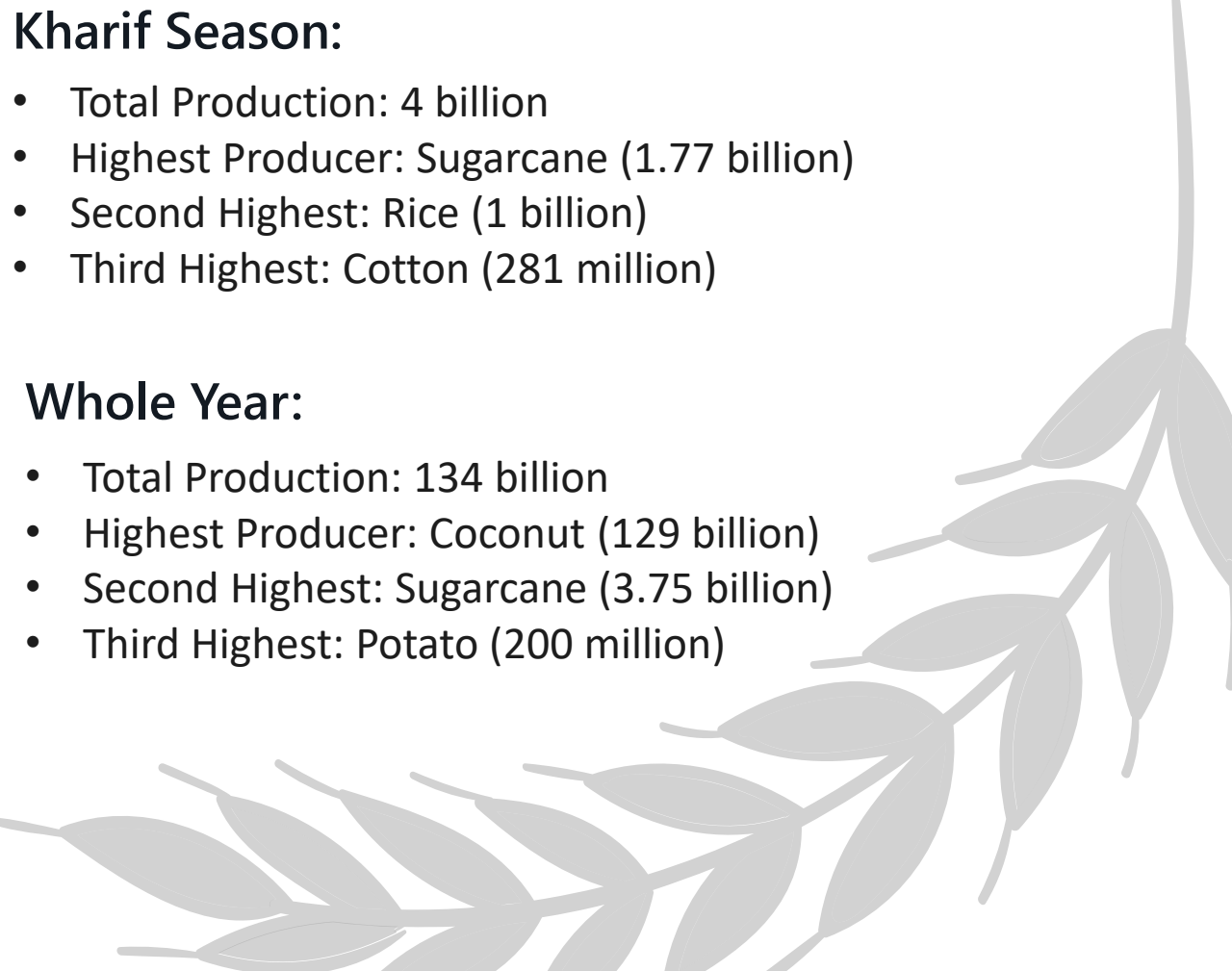
## Rabi Season:

- Total Production: 2 billion
- Highest Producer: Wheat (1.32 billion)
- Second Highest: Potato (200 million)
- Third Highest: Gram (95 million)

## Kharif Season:

- Total Production: 4 billion
- Highest Producer: Sugarcane (1.77 billion)
- Second Highest: Rice (1 billion)
- Third Highest: Cotton (281 million)

## Whole Year:

- Total Production: 134 billion
  - Highest Producer: Coconut (129 billion)
  - Second Highest: Sugarcane (3.75 billion)
  - Third Highest: Potato (200 million)
- 

[Home](#)[Map](#)

## Crop Production Analysis

Year

All

Crop

All

Season

All

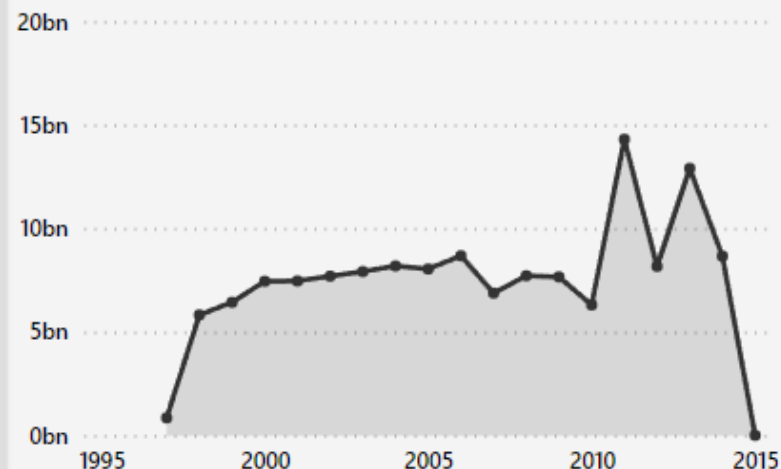
District

All

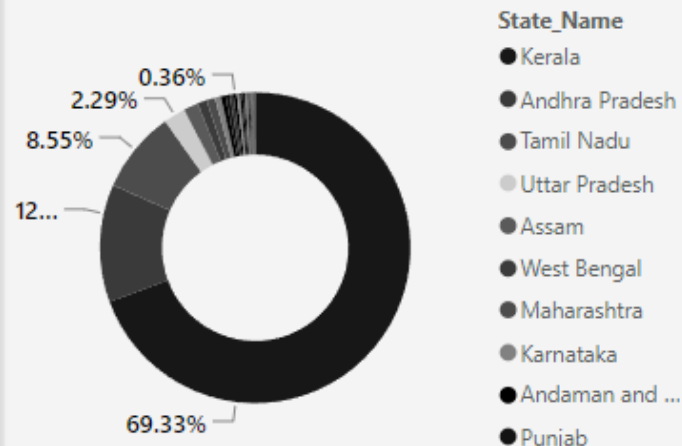
State

All

### Production By Years



### Production by State

**141.18bn**

Total Production

**2.95bn**

Total Area

**105**

Total Crop Type

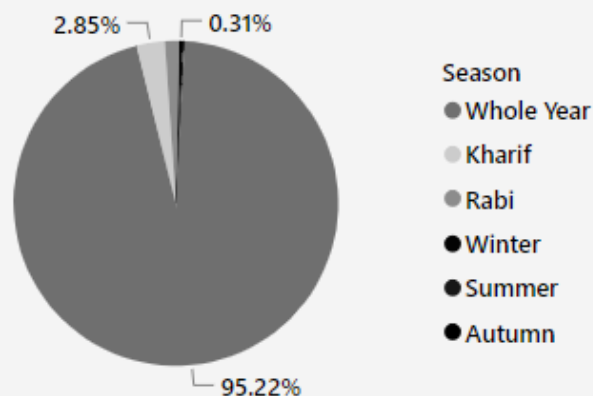
**42**

Avg Production/UnitArea

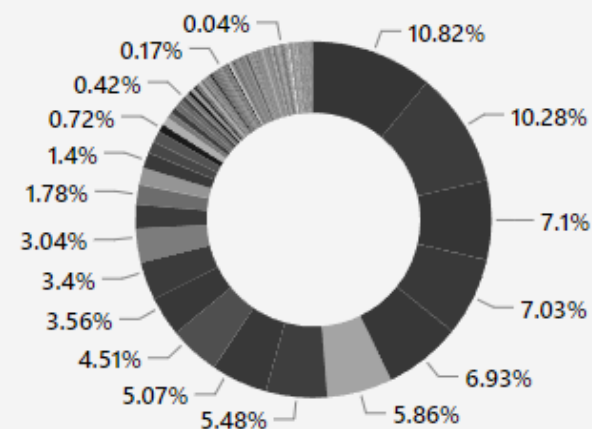
### Production by Crop



### Production by Seasons



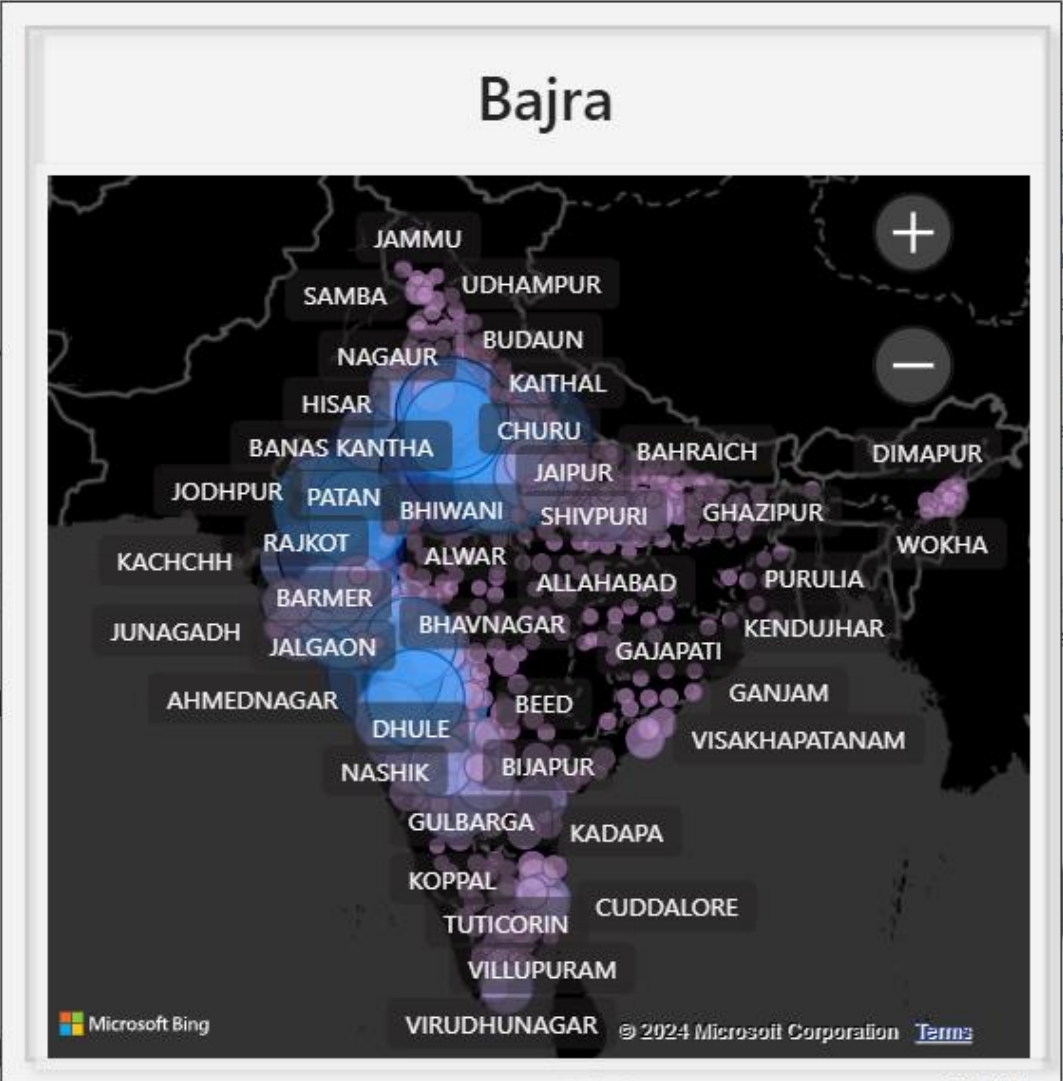
### Production by District







- Coconut
- Sugarcane
- Rice
- Wheat
- Potato
- Cotton(lint)
- Maize
- Jute
- Banana
- Soyabean
- Bajra
- Jowar
- Groundnut



- Andhra Pradesh
- Assam
- Bihar
- Chhattisgarh
- Goa
- Gujarat
- Haryana
- Karnataka
- Kerala
- Madhya Pradesh
- Maharashtra
- Manipur
- Mizoram
- Nagaland
- Nararnataka
- Northern
- Odisha
- Punjab
- Rajasthan
- Tamil Nadu
- Telangana
- Uttar Pradesh
- West Bengal
- Yerala

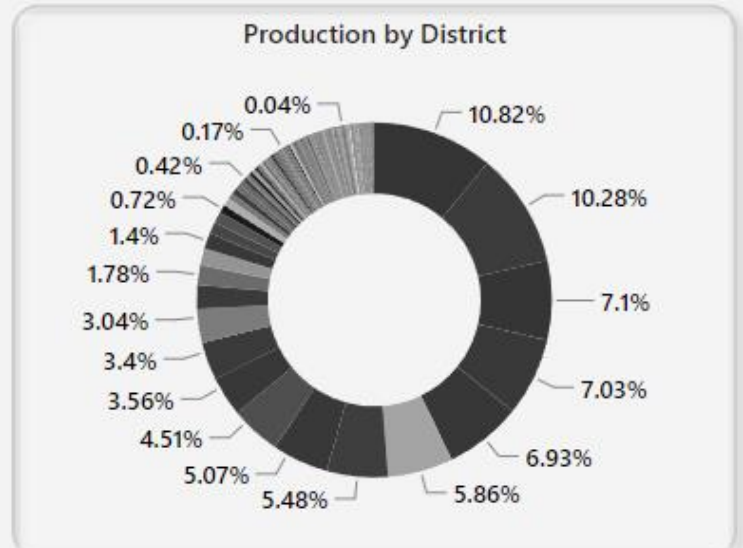
- Season
- Whole Year
  - Kharif
  - Rabi
  - Winter
  - Summer
  - Autumn

**141.18bn**  
Total Production

**2.95bn**  
Total Area

**105**  
Total Crop Type

**42**  
Avg Production/UnitArea







# Crop Production Analysis

Year

All

Crop

All

Season

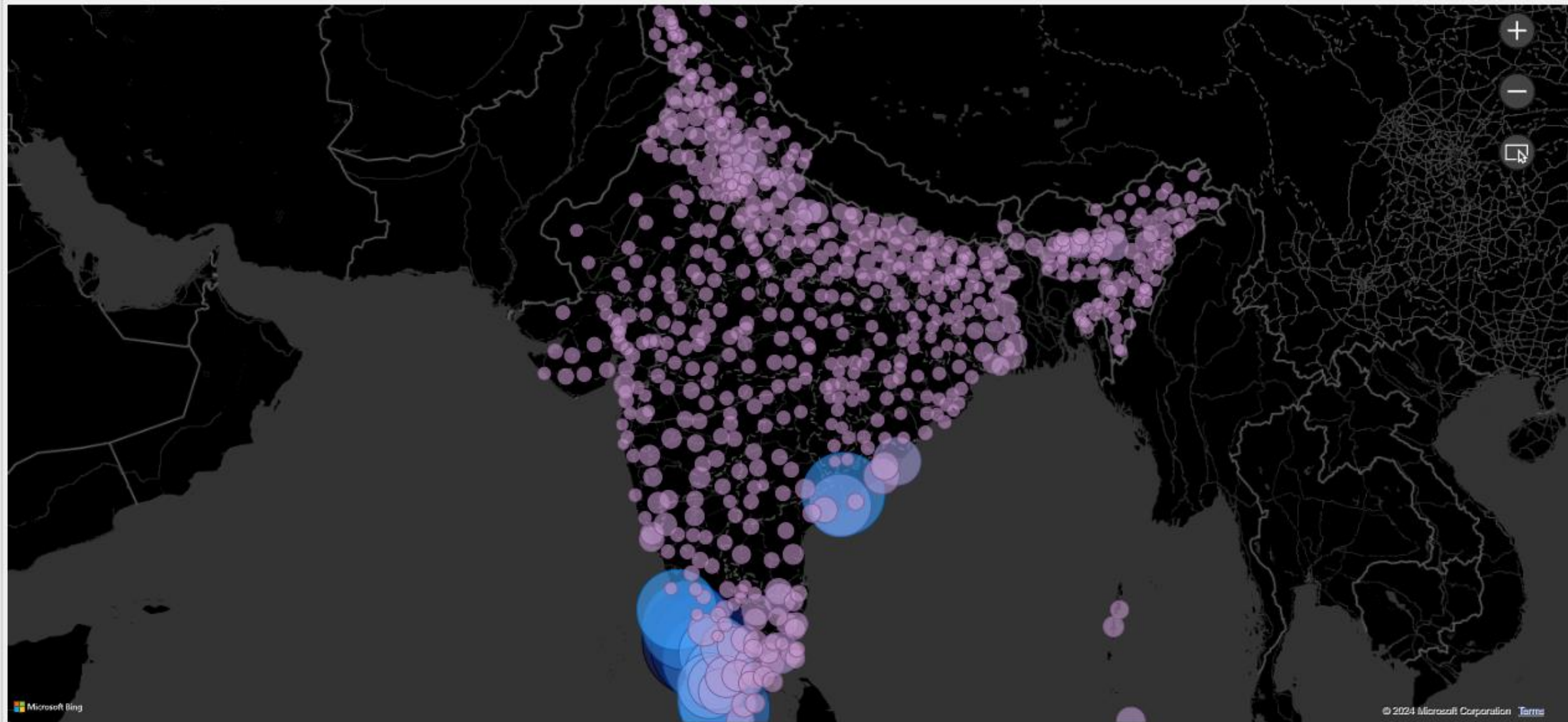
All

District

All

State

All



Home

Map



## Crop Production Analysis

Year



All



Crop



All



Season



All



District



All



State

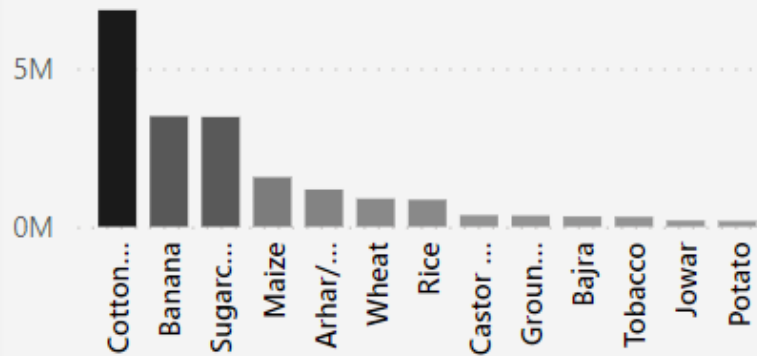


All



### VADODARA

#### Production by Crop



Home

Map



## Crop Production Analysis

Year

All

Crop

Banana

Season

All

District

All

State

All

☒ Select all

☐ Arhar/Tur

☐ Bajra

☒ Banana

☐ Coconut

☐ Cotton(lint)

☐ Gram





# Conclusion

---

- **Diversification:** Explore diversifying crops to balance production across seasons and reduce dependency on a few key crops.
- **Technology Integration:** Utilize advanced agricultural technologies and practices to boost yields for the highest-producing crops.
- **Resource Management:** Improve resource allocation and management to enhance production efficiency for lesser-producing crops.
- **Market Analysis:** Conduct regular market analysis to align production with demand trends and optimize profit margins.
- **Sustainability Practices:** Implement sustainable farming practices to maintain long-term production capacity and environmental health.

