



CROP PRODUCTION ANALYSIS IN INDIA

INTRODUCTION



The Agriculture business domain, as a vital part of the overall supply chain, is expected to highly evolve 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 facilitate the collaboration of numerous stakeholders



OVERVIEW OF DASHBOARD

KPI's

Total production:

Aggregate data showing total production overtime

Total Area: Area used for growing different crops

Total Crops: Different Crops grown by each State

Pie charts and Donut charts

Production by season:

Showing total production of crops in each season

Crop Count by Season:

Showing total percent of crop grown per season



Column Chart

Top 10 States with max production: Showing different states having maximum production

Top 5 Districts: Showing different districts of different states having maximum production

Bar Chart

Area required by crop: Showing total area acquired by each crop to grow

Yield by State: Showing amount of crop produced per unit area of land in different states

Slices

Crop slicer:

For selecting different crops and analyzing different parameters related

Year Slicer:

For selecting Different years from 1997-2015



DAX Queries

DistinctCropsByState = **DISTINCTCOUNT**('Crop Production data'[Crop])

used for calculating total crops

```
DistinctCropsProduced = COUNTROWS(  
    SUMMARIZE(  
        DISTINCT('Crop Production data'),  
        'Crop Production data'[State_Name],  
        'Crop Production data'[Crop]  
    )  
)
```

used in crop count by season as values



TotalAreaByCrop = SUM('Crop Production data'[Area])

#used in calculating total area

TotalProductionByState = SUM('Crop Production data'[Production])

#used in top 10 states with max production

Yield = DIVIDE(SUM('Crop Production data'[Production]), SUM('Crop Production data'[Area]))

used for calculating Yield

INSIGHTS



Year 2011 has maximum crop Production

From 1998-2015 ,Rice production is highest

Total of 124 different crops are grown in India

Rice production depends on Season ,Area and place

Kerala has maximum Production and Yield for Rice Production

Wheat depends on season and UP is largest producer

Coconut Production is directly proportional to area and does not depend on season Kerala being highest producer

Pom fruit and bhindi are grown whole year and Andhra Pradesh has maximum production of it

Crop Production Analysis

Crop

Rice

2011

2012

2013

2014

2015

Total Production

102.09M

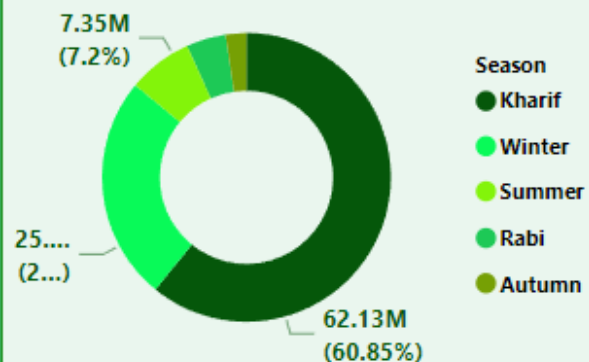
Total area

42,011,893.74

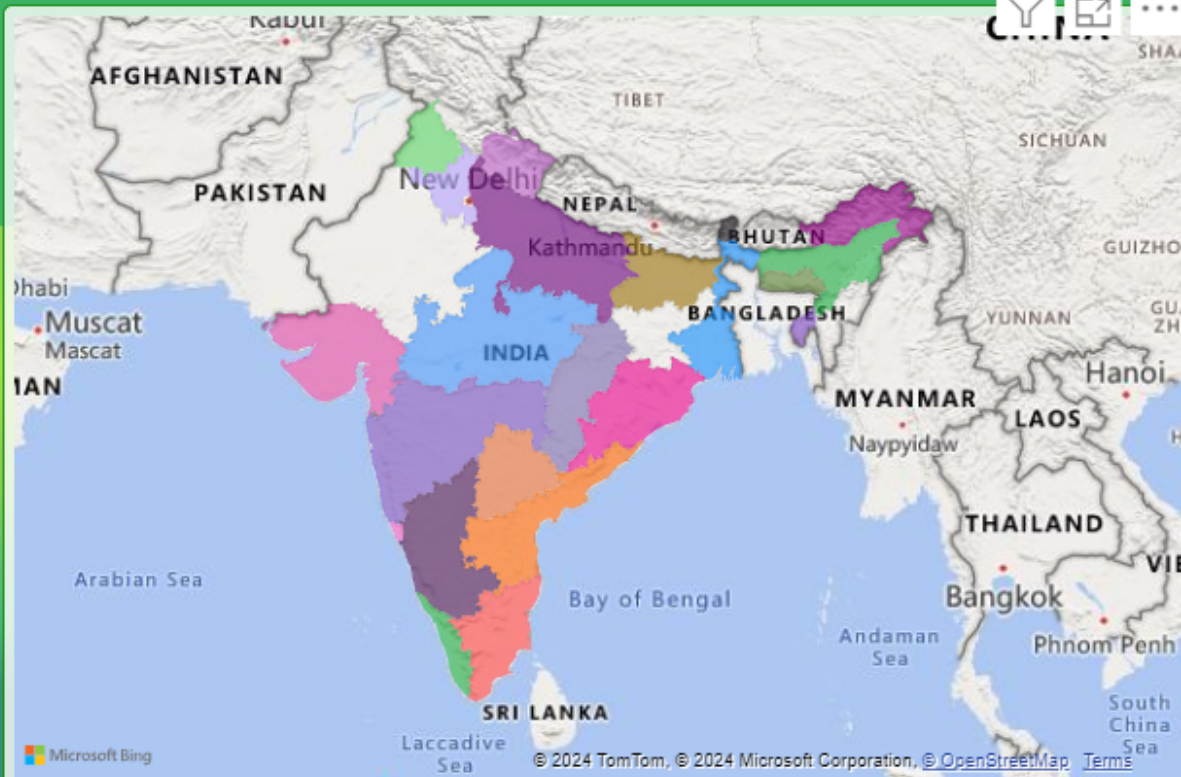
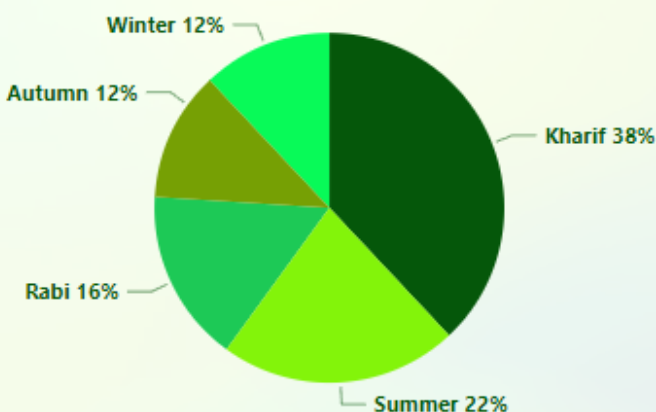
Total Crops

1

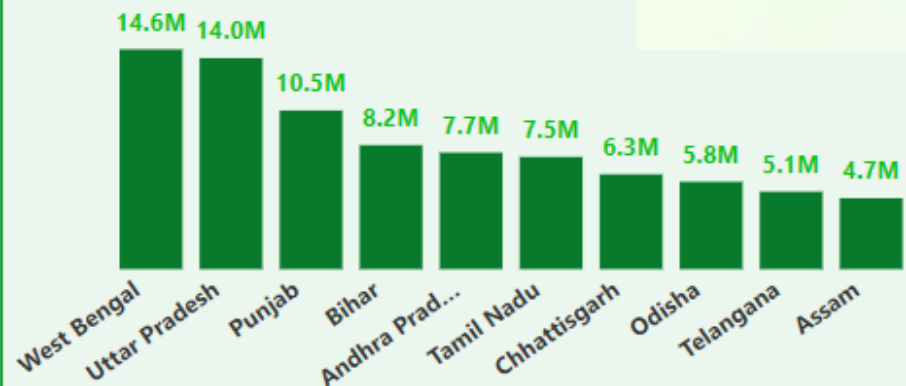
Production by Season



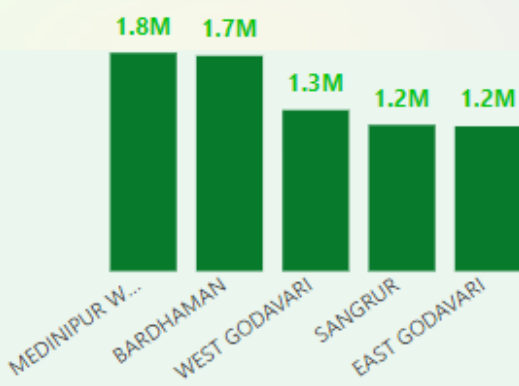
Crop Count by Season



Top 10 States with Max Production



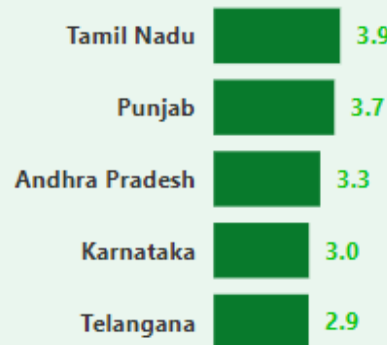
Top production by Districts



Area Required by Crop



Yield by State



THANK YOU

SAGAR

sagarchauhan2952@gmail.com

