

# CROP PRODUCTION-INDIA

CROP PROJECT PRESENTATION

Data set Link



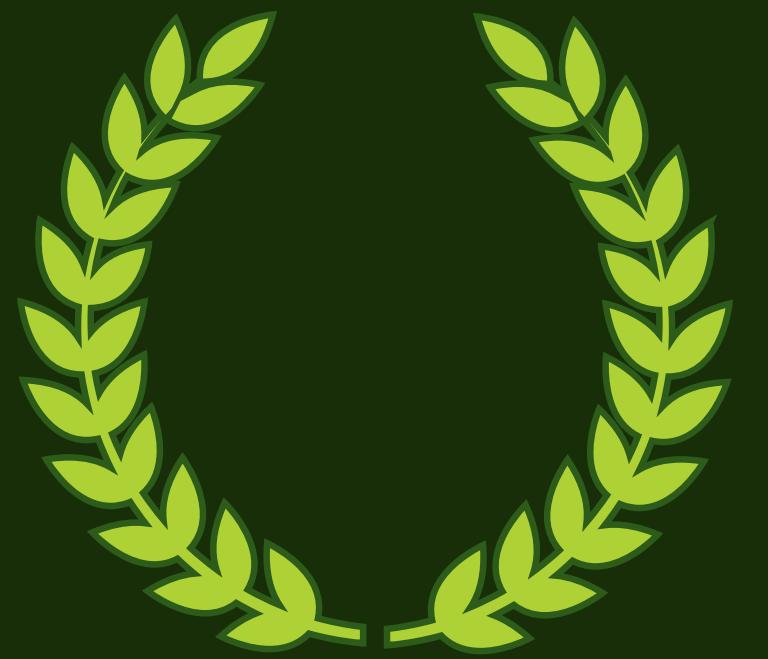
Presented BY,  
Ankit Gangwar





# WELCOME TO OUR PRESENTATION

I am Ankit, and I'm excited to share with you today a project that delves into the fascinating world of crop production. In this project, we'll explore how data analysis can provide valuable insights into agricultural practices and contribute to informed decision-making in the farming sector.



tsk®

# PROJECT-OVERVIEW

For this project, I have collected and analyzed a comprehensive dataset on crop production, encompassing various parameters such as state, district, crop year, season, crop type, area cultivated, and production levels. The dataset has **246091 Rows**, The dataset provides a wealth of information about agricultural practices and trends over multiple years.

## BACKGROUND

Agriculture is the backbone of our economy, providing food, raw materials, and livelihoods for millions of people around the world. With the growing global population and the increasing demand for food security, optimizing crop production has become more critical than ever before.





# KEY COMPONENTS



Throughout this presentation, we'll explore several key components of the project:

- **Data Exploration:** Understanding the structure and content of the dataset.
- **Analysis Techniques:** Employing various analytical methods to extract meaningful insights.
- **Visualization:** Communicating findings effectively through visually compelling charts, graphs, and maps.
- **Interpretation:** Interpreting the results to gain actionable insights and derive practical recommendations.



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100%  
ORGANIC

# Total Area In Million Beegha



## Total Area

**2,954M**

Sum of Area



# Total Production Count In Million kg

100%  
ORGANIC



## Total Production

**1,41,176M**

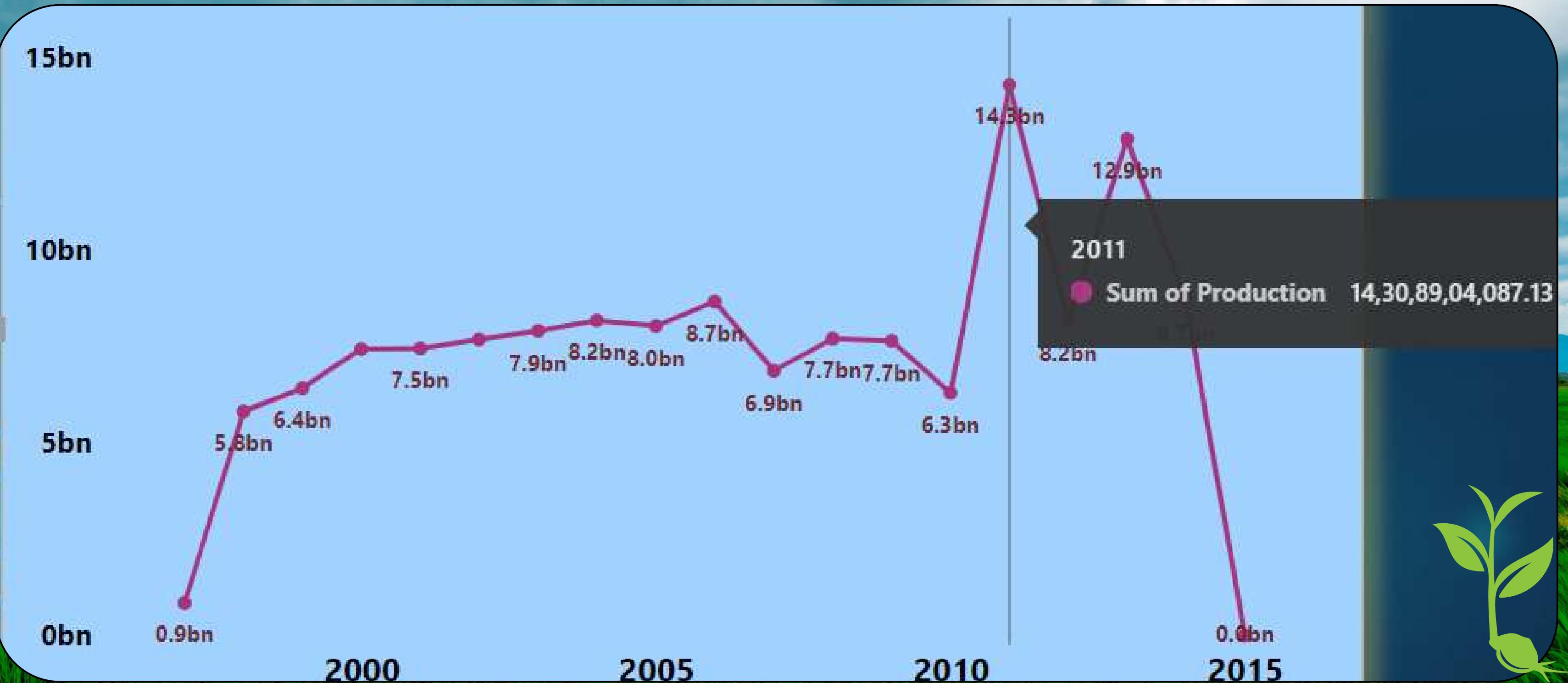
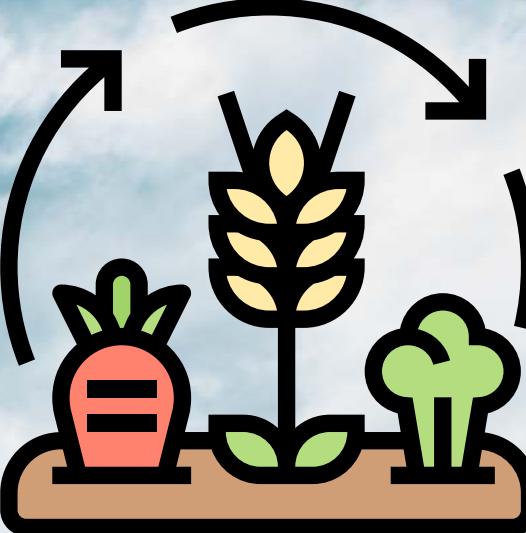
Sum of Production



100%  
ORGANIC

# Total Production Over Year

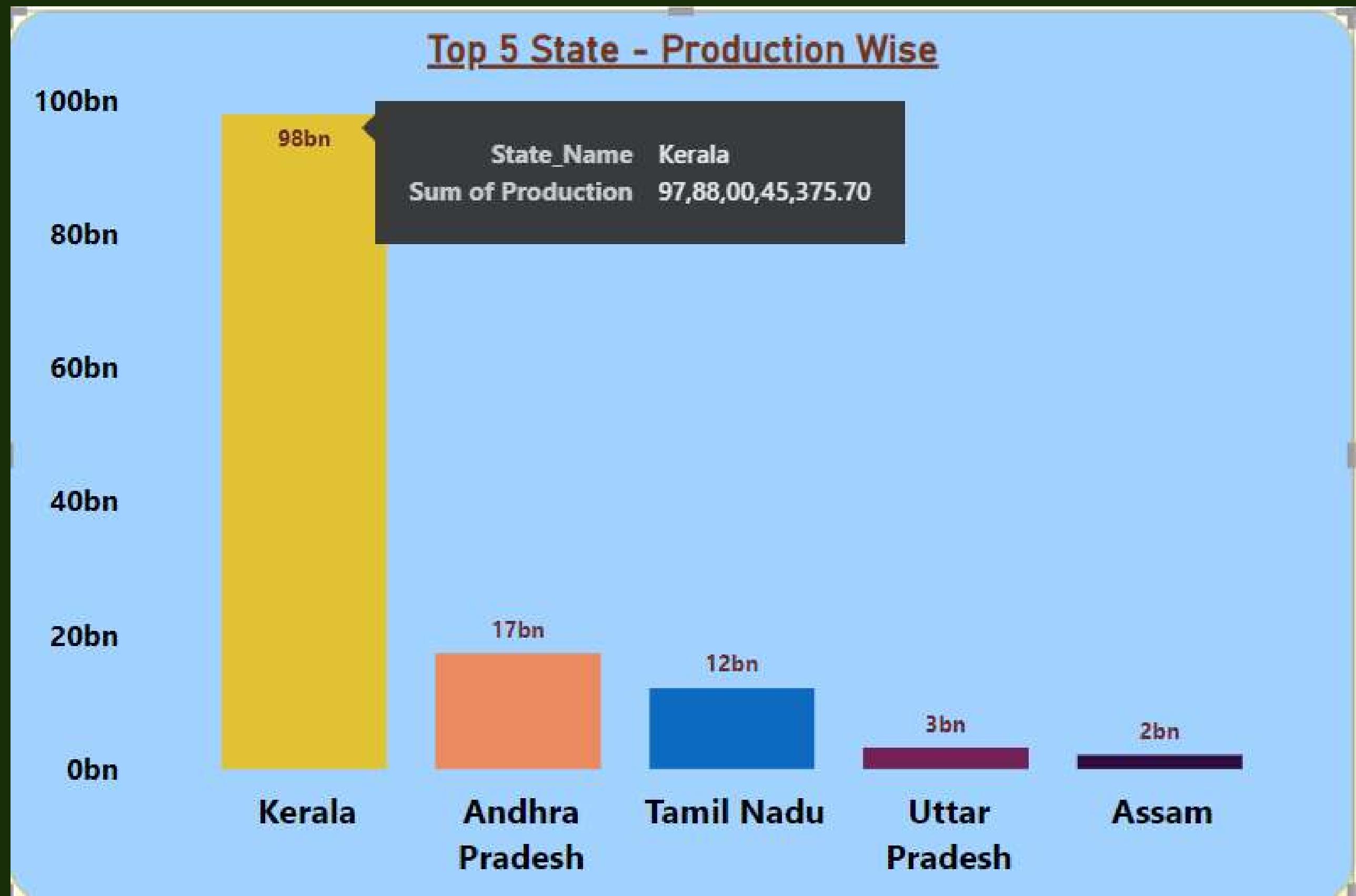
- The Top Production year is 2011.
- The Down Production Year Is 2015





# Top 5 State- Production wise

- Kerla is the 1st top state based on production.

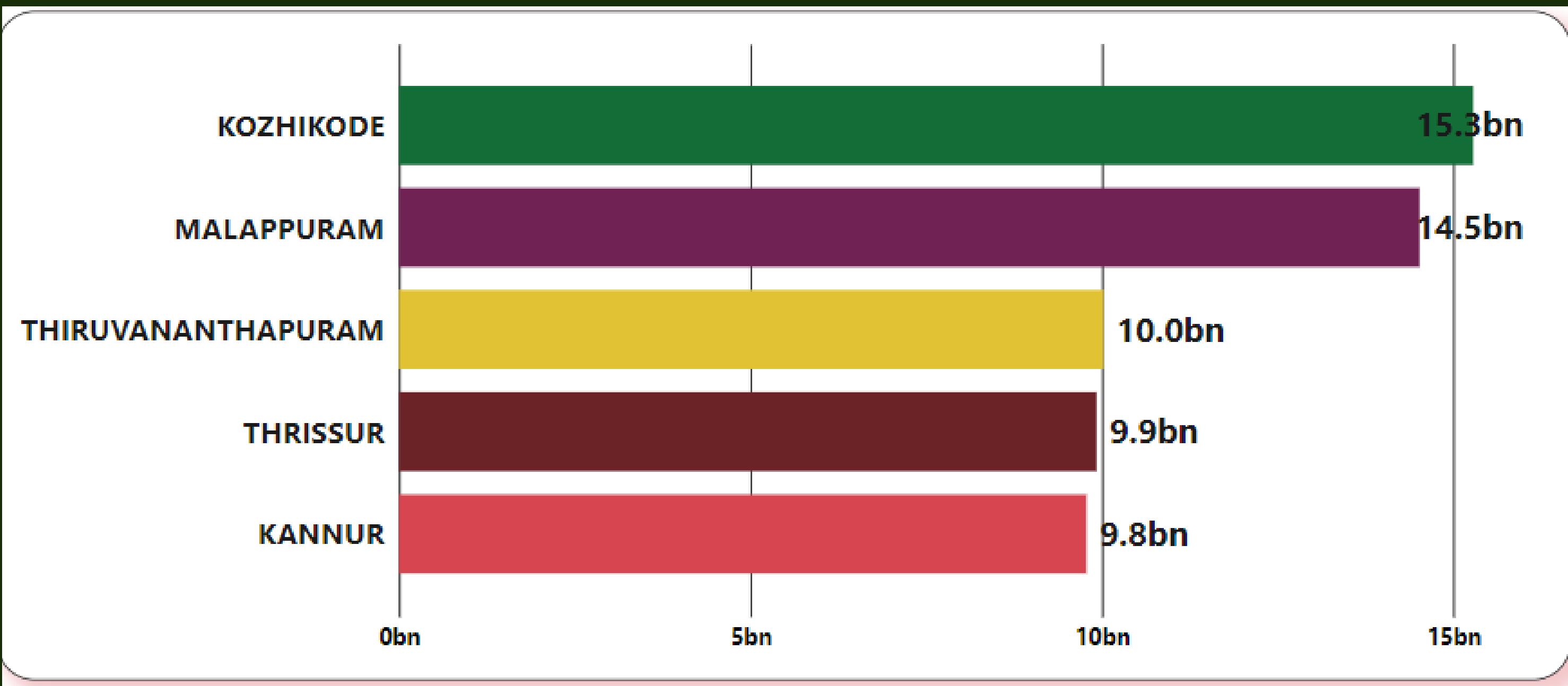




# Top 5 District- Production wise



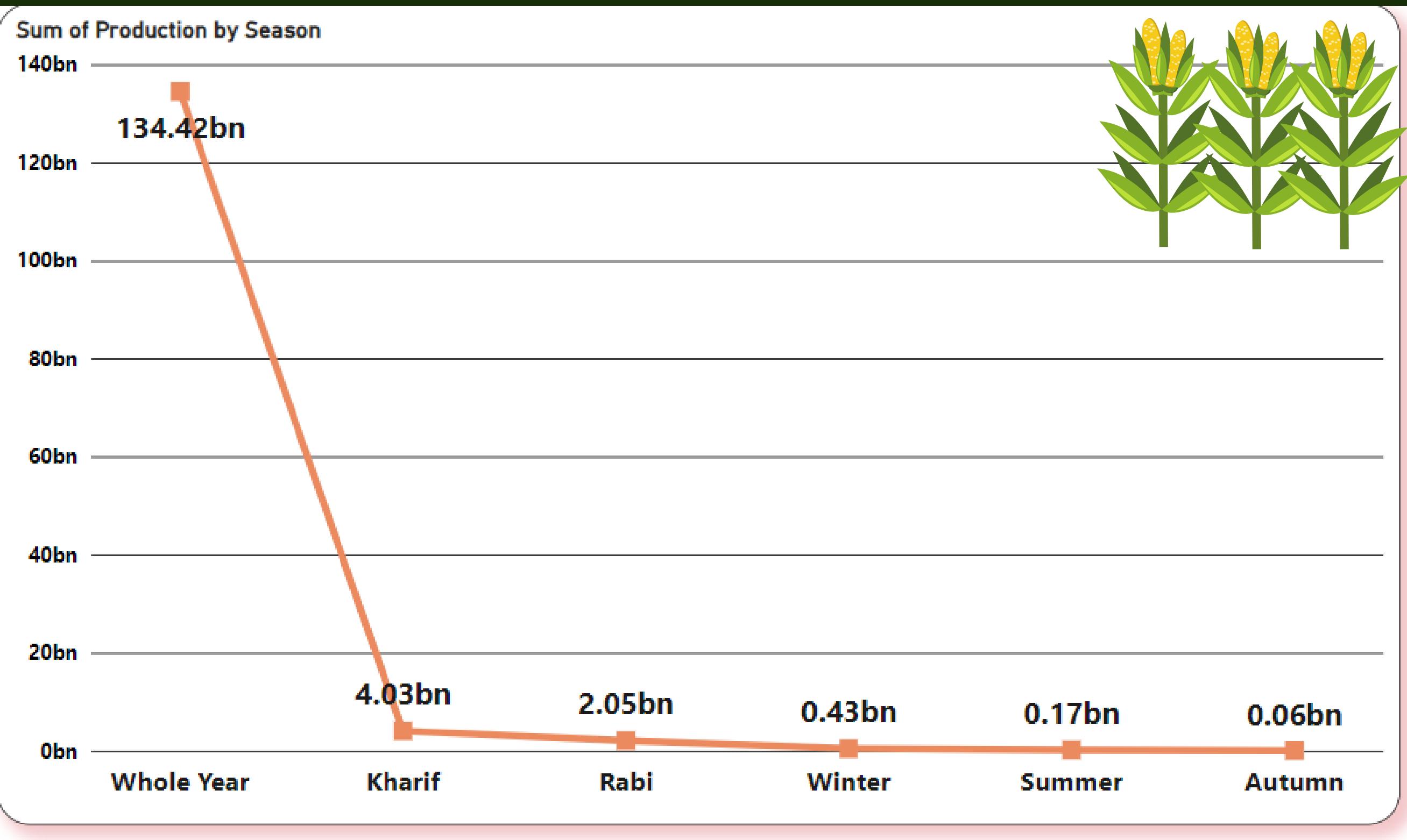
- Kozhikode (kerla) is the 1st top District based on production.



85%

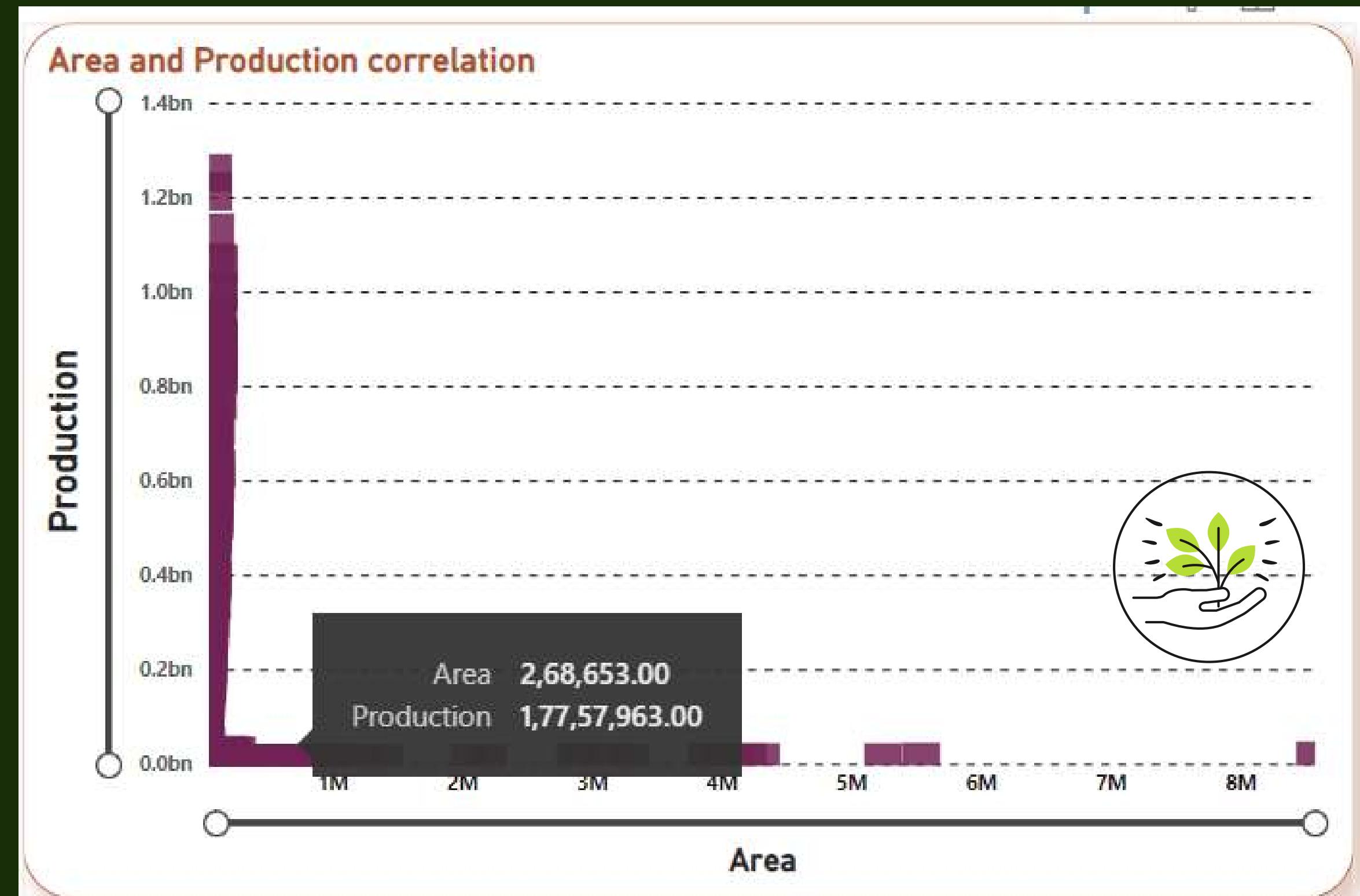
# Seasonal Variations in Production

- in This Insights we can see seasonal patterns in crop production.



# Area vs. Production Correlation

- for this scatter chart we can find correlation between land area and production levels.

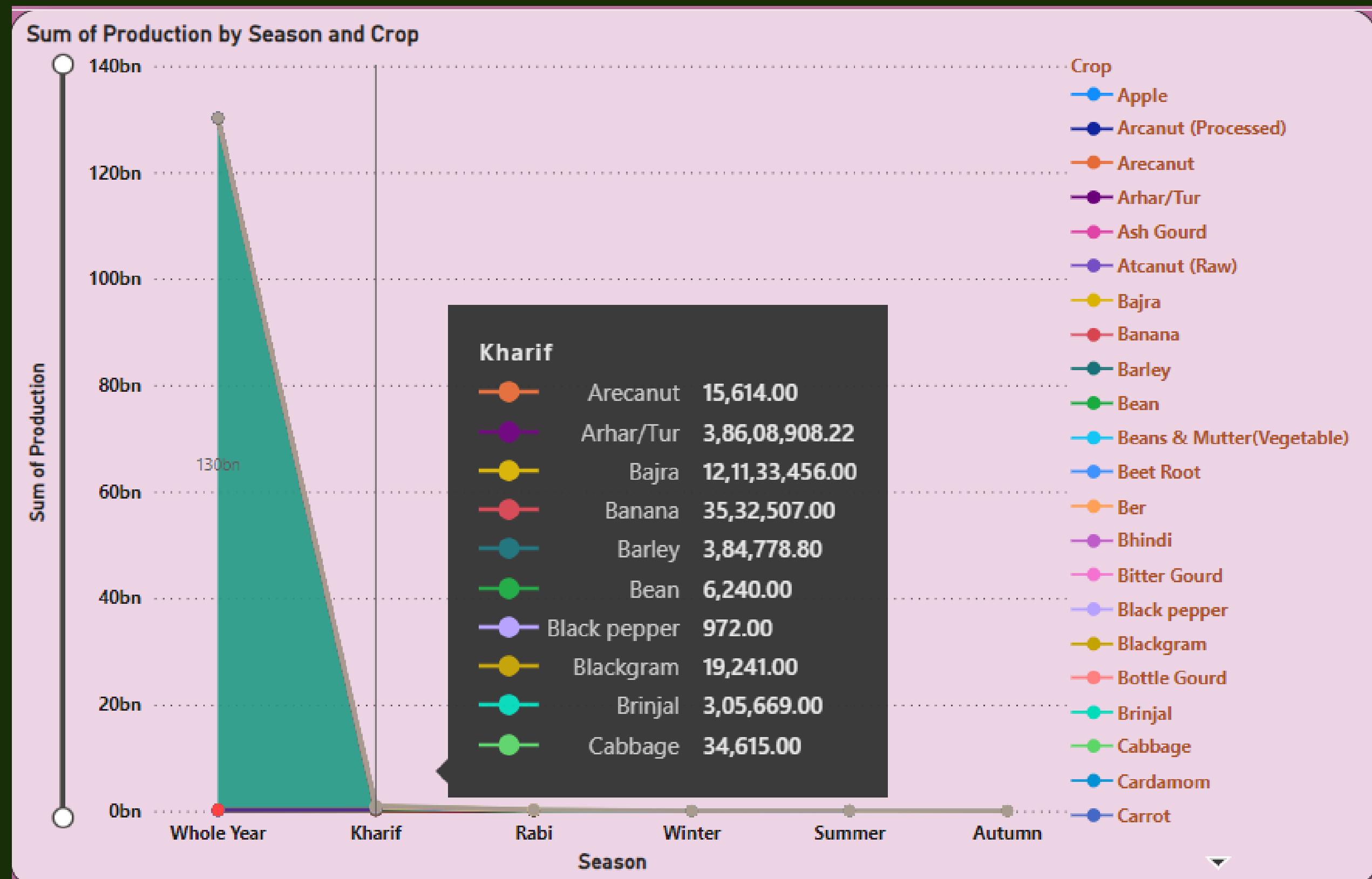




# Seasonality Visualization



- we can now see a stacked area chart that visualizes production levels for different crops across different seasons.





# Sum of production over state, year, season

Sum of Production	State_Name
97,88,00,45,375.70	Kerala
17,32,45,90,296.00	Andhra Pradesh
12,07,64,43,048.93	Tamil Nadu
3,23,44,92,662.70	Uttar Pradesh
2,11,17,51,759.00	Assam
1,39,79,04,389.70	West Bengal
1,26,36,40,606.20	Maharashtra
86,34,29,811.68	Karnataka
71,82,23,239.99	Andaman and Nicobar Islands
58,63,85,001.00	Punjab
52,42,91,337.00	Gujarat
50,57,55,757.58	Goa
44,88,40,738.66	Madhya Pradesh
38,47,24,502.00	Puducherry
38,12,73,890.00	Haryana
36,64,83,596.66	Bihar
33,51,47,930.00	Telangana
28,13,20,270.50	Rajasthan
16,09,04,070.10	Odisha
13,21,77,355.00	Uttarakhand
10,09,51,908.01	Chhattisgarh
1,41,17,61,16,767.39	

Sum of Production	Crop_Year
14,30,89,04,087.13	2011
12,90,35,88,632.88	2013
8,68,19,13,123.78	2006
8,66,45,40,631.11	2014
8,18,94,61,694.86	2004
8,17,10,54,746.03	2012
8,04,37,57,329.74	2005
7,91,79,73,504.73	2003
7,71,70,18,402.16	2008
7,69,69,55,162.64	2002
7,66,04,94,024.81	2009
7,46,55,40,840.27	2001
7,44,97,09,127.10	2000
6,87,94,42,338.58	2007
6,43,46,65,985.10	1999
6,30,76,08,525.37	2010
5,82,53,20,640.40	1998
85,12,32,906.00	1997
69,35,064.70	2015
1,41,17,61,16,767.39	

Sum of Production	Season
1,34,42,48,37,450.19	Whole Year
4,02,99,70,242.70	Kharif
2,05,16,87,553.08	Rabi
43,45,49,828.17	Winter
17,06,57,925.03	Summer
6,44,13,768.22	Autumn
1,41,17,61,16,767.39	

# Sum of Area, Production over state, year, season

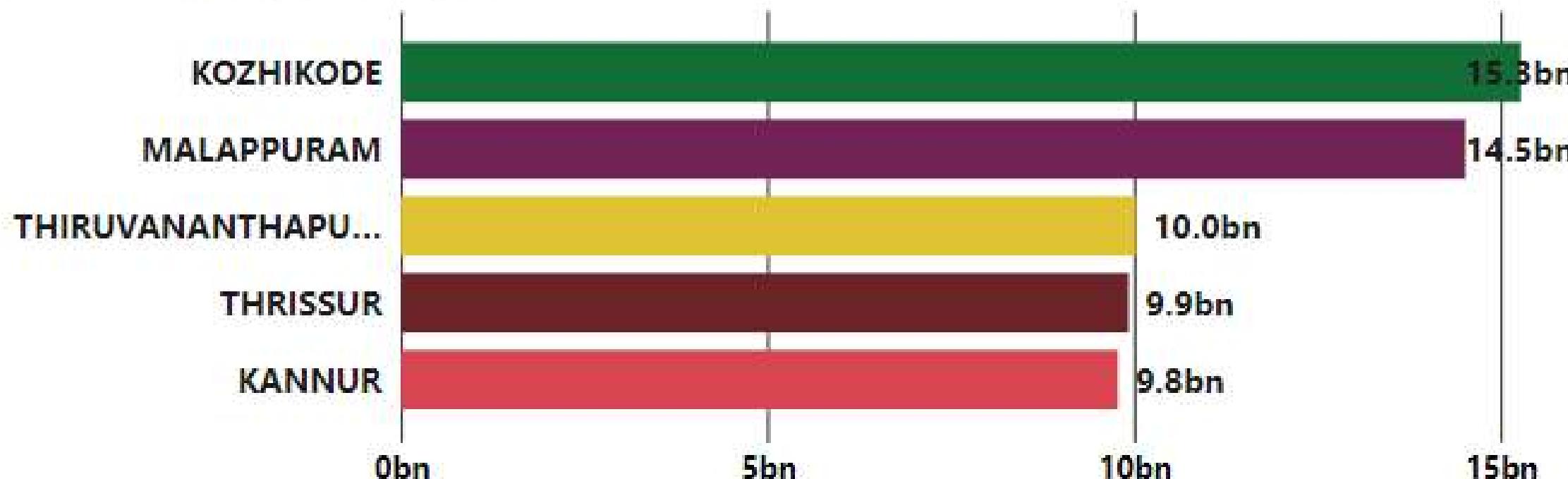
Season	Sum of Area	Sum of Production
Kharif	1,40,48,45,226.76	4,02,99,70,242.70
Rabi	94,79,87,431.69	2,05,16,87,553.08
Whole Year	25,73,00,465.61	1,34,42,48,37,450.19
Winter	21,95,97,876.14	43,45,49,828.17
Summer	7,59,84,058.64	17,06,57,925.03
Autumn	4,80,71,130.33	6,44,13,768.22
<b>Total</b>	<b>2,95,37,86,189.17</b>	<b>1,41,17,61,16,767.39</b>
Crop_Year	Sum of Area	Sum of Production
1997	23,17,15,046.00	85,12,32,906.00
2010	17,66,19,202.02	6,30,76,08,525.37
2003	17,20,88,098.54	7,91,79,73,504.73
2008	17,12,32,070.00	7,71,70,18,402.16
2006	17,06,99,101.65	8,68,19,13,123.78
2004	16,78,78,424.73	8,18,94,61,694.86
1998	16,69,88,082.00	5,82,53,20,640.40
2009	16,56,94,709.00	7,66,04,94,024.81
2000	16,52,97,477.00	7,44,97,09,127.10
2001	16,52,95,604.67	7,46,55,40,840.27
<b>Total</b>	<b>2,95,37,86,189.17</b>	<b>1,41,17,61,16,767.39</b>

State_Name	Sum of Area	Sum of Production
Uttar Pradesh	43,36,31,630.00	3,23,44,92,662.70
Madhya Pradesh	32,98,13,136.00	44,88,40,738.66
Maharashtra	32,22,06,237.00	1,26,36,40,606.20
Rajasthan	27,20,24,905.00	28,13,20,270.50
West Bengal	21,54,05,247.87	1,39,79,04,389.70
Karnataka	20,29,10,123.00	86,34,29,811.68
Gujarat	15,49,44,024.00	52,42,91,337.00
Andhra Pradesh	13,15,45,844.00	17,32,45,90,296.00
Bihar	12,82,72,031.00	36,64,83,596.66
Punjab	12,67,25,586.00	58,63,85,001.00
Odisha	11,05,33,616.00	16,09,04,070.10
Tamil Nadu	9,58,97,867.00	12,07,64,43,048.93
Haryana	8,95,97,306.00	38,12,73,890.00
Chhattisgarh	8,30,39,664.00	10,09,51,908.01
Telangana	8,13,60,624.00	33,51,47,930.00
Assam	7,03,78,758.00	2,11,17,51,759.00
Kerala	3,19,08,073.33	97,88,00,45,375.70
Uttarakhand	1,87,93,179.00	13,21,77,355.00
Himachal Pradesh	1,00,03,878.00	1,78,05,168.60
Jharkhand	93,91,046.23	1,07,77,741.75
<b>Total</b>	<b>2,95,37,86,189.17</b>	<b>1,41,17,61,16,767.39</b>

# Harvest Insights

Sum of Production by District\_Name



## Total Area

2.954M

Sum of Area

Crop

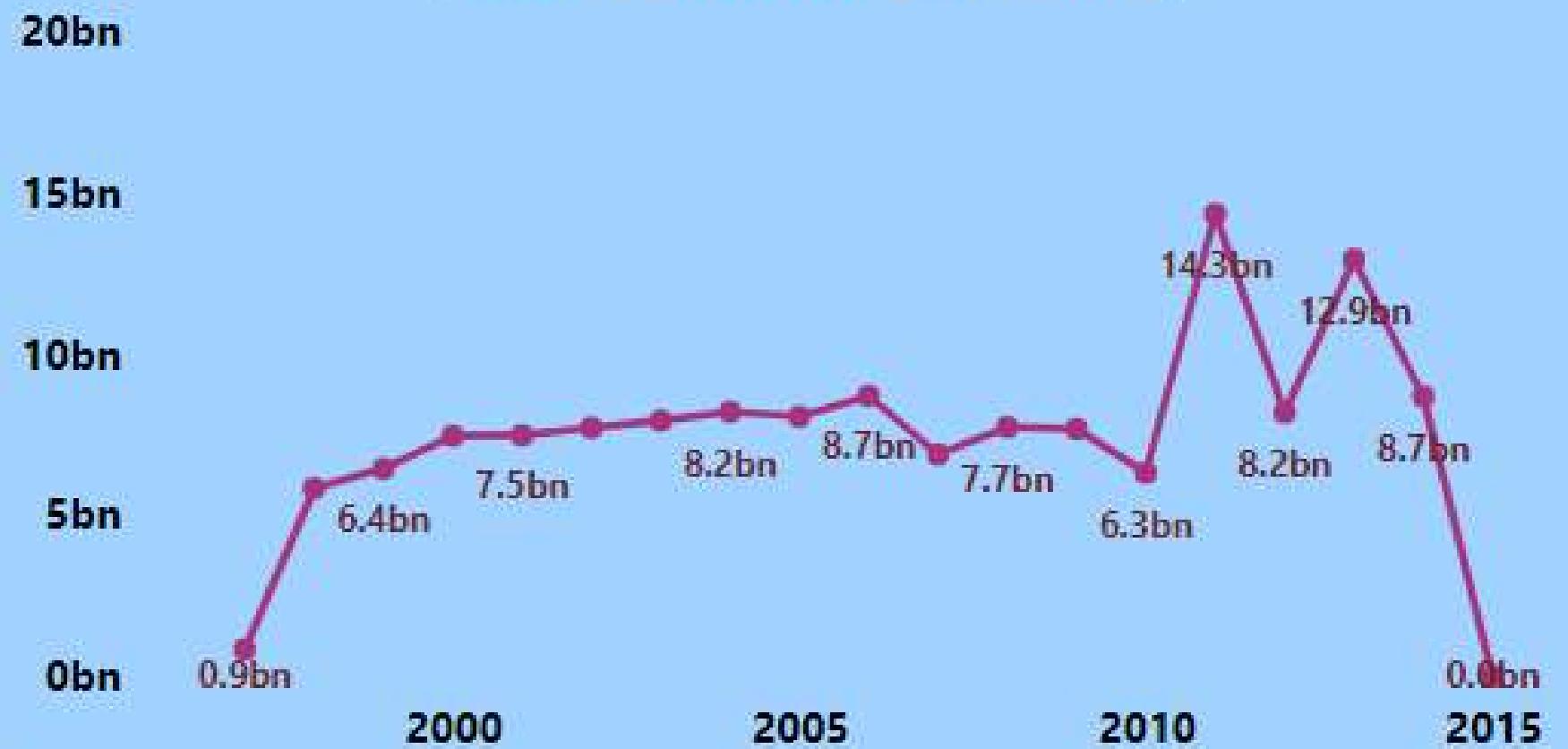
- Apple
- Arcanut (Processed)
- ArecaNut
- Arhar/Tur
- Ash Gourd
- Atcanut (Raw)

## Total Production

1.41.176M

Sum of Production

## Total Production Over Time

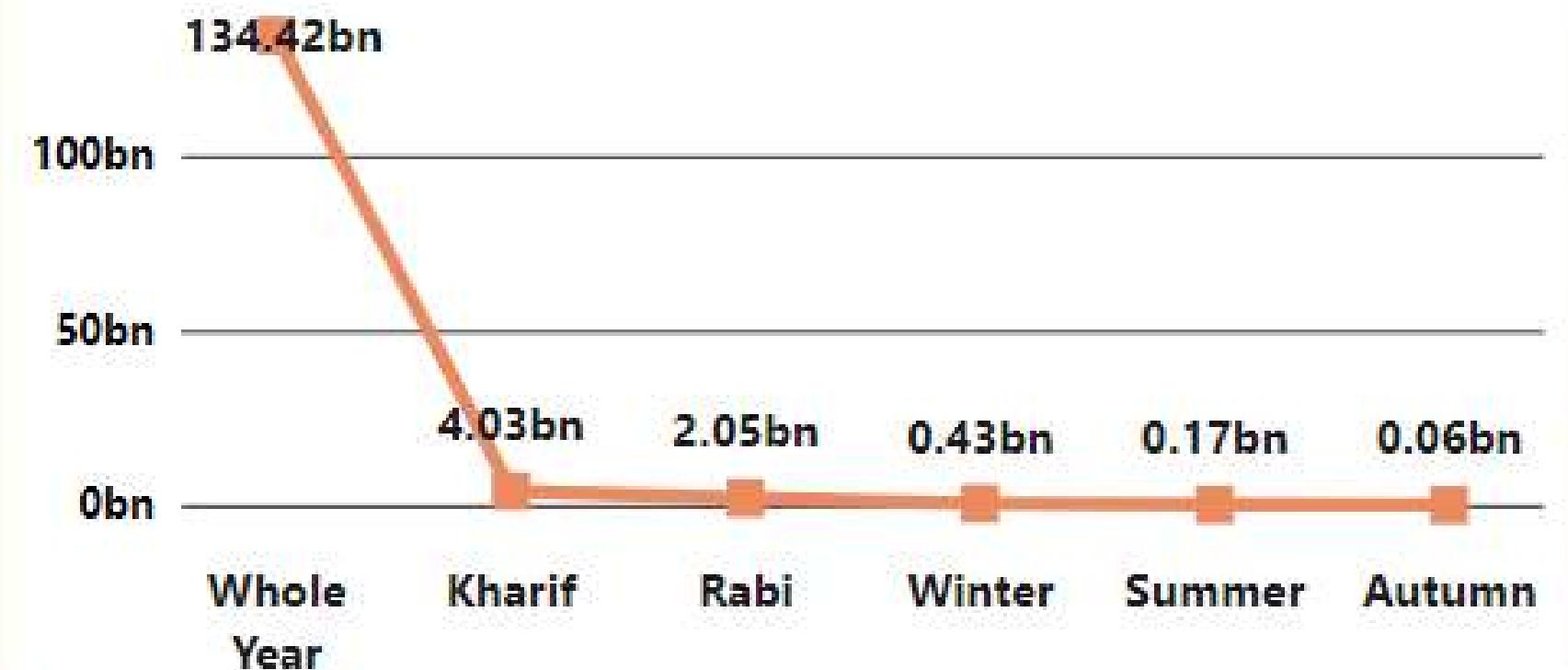


## Top 5 State - Production Wise



- State\_Name**
- Andaman and Nicobar Islands
  - Andhra Pradesh
  - Arunachal Pradesh
  - Assam
  - Bihar
  - Chandigarh
  - Chhattisgarh
  - Dadra and Nagar Haveli
  - Goa

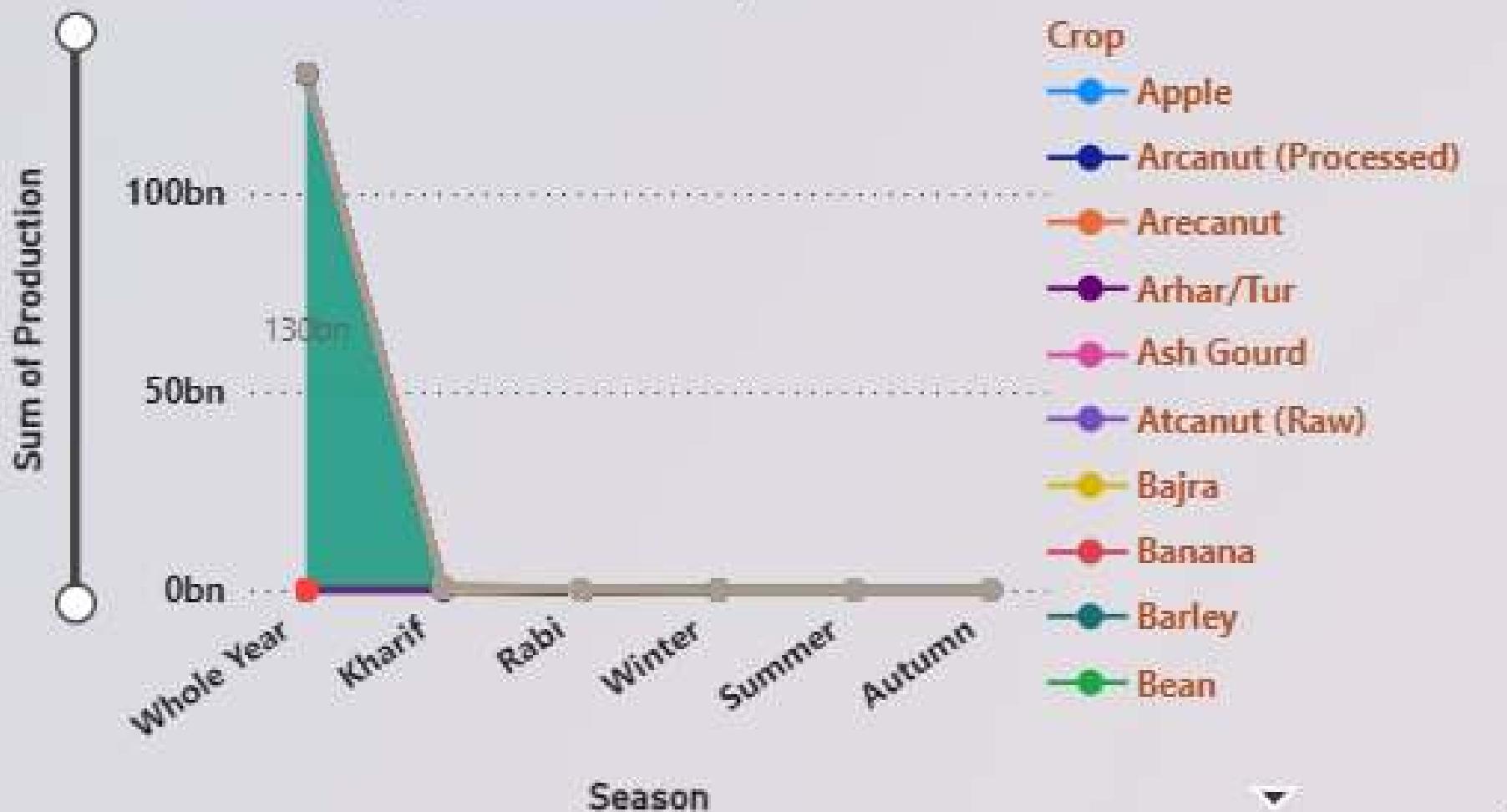
Sum of Production by Season



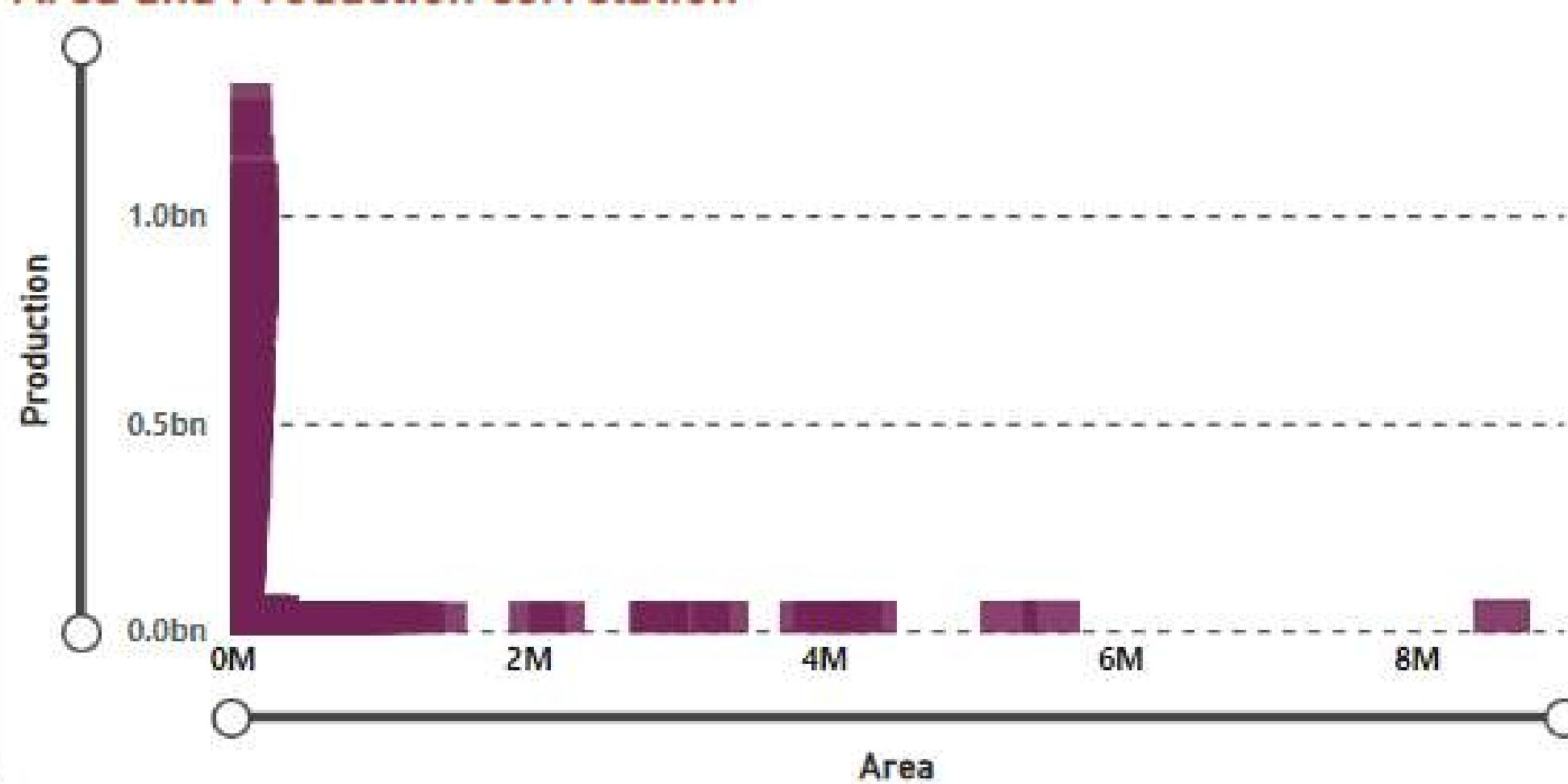
Crop

- Apple
- Arcanut (Processed)
- ArecaNut
- Arhar/Tur
- Ash Gourd
- Atcanut (Raw)
- Bajra
- Banana
- Barley

Sum of Production by Season and Crop



Area and Production correlation



Season	Sum of Area	Sum of Production
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Rabi	94,79,87,431.69	2,05,16,87,553.08
Whole Year	25,73,00,465.61	1,34,42,48,37,450.19
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## MY CONTACT



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**THANK YOU**