



# Indian Agricultural Analysis

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**01**

# **POWER BI PROJECT**

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### Problem Statement:

This internship project aims to conduct a comprehensive analysis of Indian agriculture, focusing on district-wise and year-wise data. The dataset provides detailed information on various crops, their areas, production, and yields across different districts and years. The goal is to leverage Power BI to create interactive visualizations that uncover trends, patterns, and disparities in agricultural practices, enabling stakeholders to make informed decisions for sustainable farming and resource allocation.

### Dataset Description:

The dataset encompasses a wide range of agricultural variables, including crop areas, production quantities, and yields for different crops such as rice, wheat, sorghum, millets, pulses, oilseeds, sugarcane, and more.



# INDIAN AGRICULTURAL ANALYSIS

Year

All

State Name

All

Dist Name

All

Dist Code

All

1.24M

Sum of WHEAT AREA (10...

452.38K

Sum of COTTON AREA  
(1000 ha)

10.19M

Sum of CHICKPEA YIELD  
(Kg per ha)

Max of CASTOR PRODUCTION (1000 tons)



Sum of CASTOR YIELD (Kg per ha) by Year

111.05K

Sum of CASTOR YIELD (Kg per ha)

0.00M... 3.48M 6.96M

## CROP-SPECIFIC ANALYSIS

94.98K

Sum of BARLEY PRODUCTION (1000 tons)

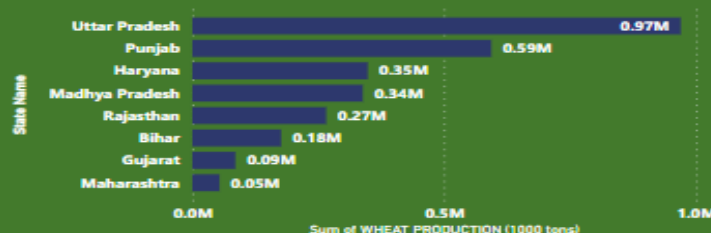
291.38K

Sum of CHICKPEA PRODUCTION (1000 to...

116.72K

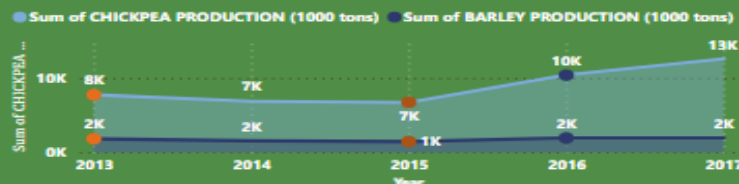
Sum of COTTON PRODUCTION (1000 to...

Total Wheat Production by State

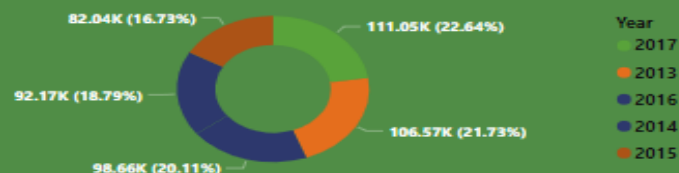


Year	Sum of CASTOR PRODUCTION (1000 tons)	Sum of CHICKPEA PRODUCTION (1000 tons)
2011	2,315.28	7,500.45
2012	1,963.29	8,121.57
2014	1,853.14	6,885.25
2013	1,764.21	7,735.31
2015	1,742.00	6,725.57
2017	1,720.04	12,587.44
2016	1,373.79	10,389.78
2010	1,349.78	7,694.06
2008	1,161.53	7,062.15
2009	1,008.08	7,259.84
Total	16,251.14	82,061.46

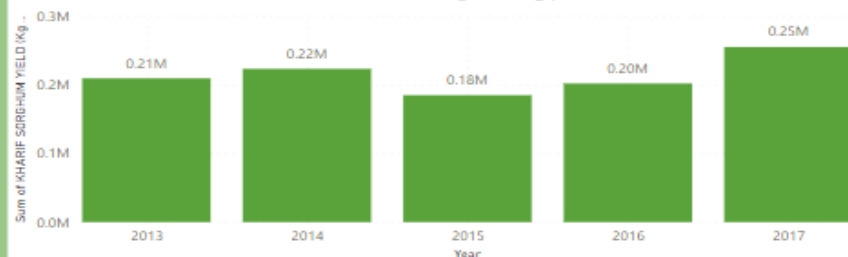
Combined Production of Chickpeas and Barley by Year



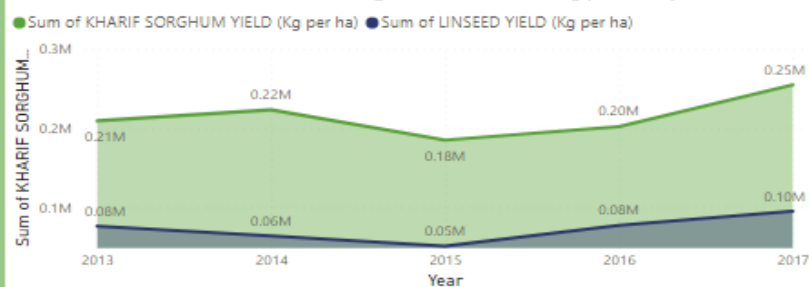
Annual Castor Yield by year



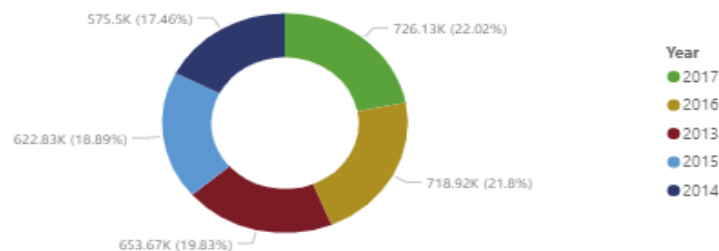
Annual Harvest of Sorghum (Kg per ha)



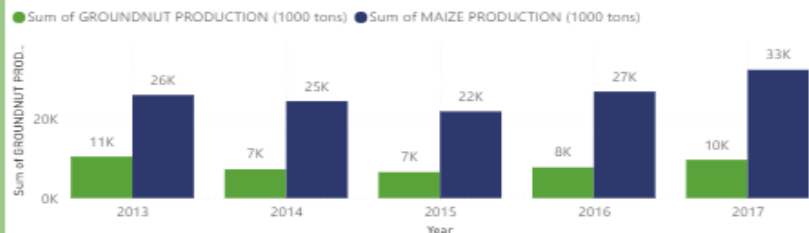
Combined Yields of Kharif Sorghum and Linseed (Kg per ha) by Year



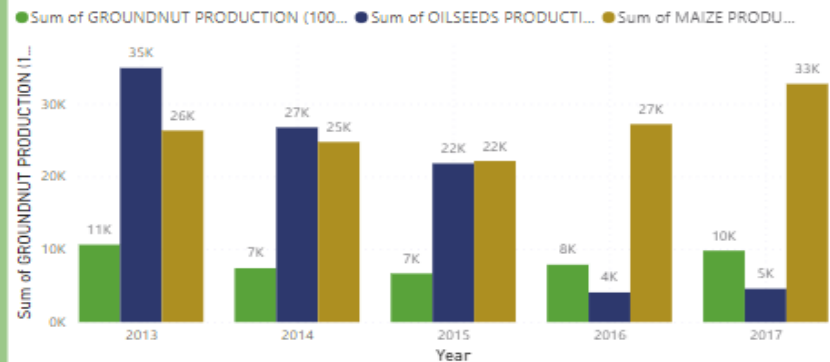
Sum of WHEAT YIELD (Kg per ha) by Year



Sum of GROUNDNUT PRODUCTION (1000 tons) and Sum of MAIZE PRODUCTION (1000 tons) by Year

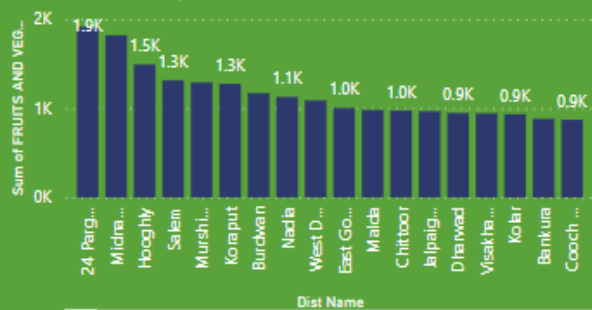


Aggregate Production of Groundnut, Oilseeds, and Maize Over Time

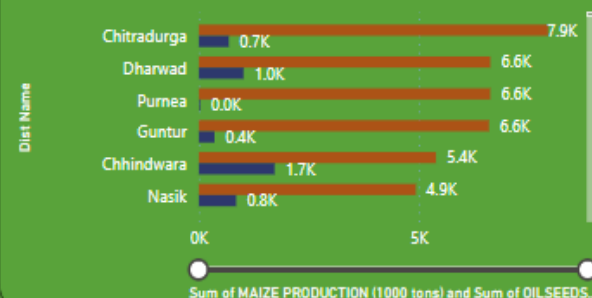


Year	State Name	Sum of SUGARCANE PRODUCTION (1000 tons)	Sum of SORGHUM YIELD (Kg per ha)
2017	Madhya Pradesh	54.33	80,886
2012	Madhya Pradesh	275.71	60,885
2010	Madhya Pradesh	196.10	58,435
2011	Madhya Pradesh	267.30	51,247
2014	Madhya Pradesh	409.00	49,996
2009	Madhya Pradesh	184.70	49,579
1989	Uttar Pradesh	9,427.30	48,429
2008	Madhya Pradesh	238.10	47,180
2012	Uttar Pradesh	14,226.79	47,162
2017	Uttar Pradesh	18,195.33	45,761
1984	Uttar Pradesh	6,881.30	45,520
2003	Madhya Pradesh	187.00	45,448
2008	Uttar Pradesh	11,448.67	45,438
2009	Uttar Pradesh	12,405.80	45,345
Total		12,19,213.15	94,63,066

### Total Area Dedicated to Fruit and Vegetable Cultivation (in 1000 hectares) by District



### Aggregate Production of Maize and Oilseeds (1000 tons) by District



Dist Name	State Name	Sum of FRUITS AREA (1000 ha)	Sum of FINGER MILLET YIELD (Kg per ha)
24 Parganas	West Bengal	970.40	0.00
Adilabad	Telangana	197.39	2,181.82
Agra	Uttar Pradesh	138.78	1,000.00
Ahmedabad	Gujarat	174.01	2,533.77
Ahmednagar	Maharashtra	250.17	44,219.92
Ajmer	Rajasthan	41.73	0.00
Akola	Maharashtra	201.10	0.00
Alappuzha	Kerala	840.85	6,361.19
Aligarh	Uttar Pradesh	390.74	0.00
Allahabad	Uttar Pradesh	173.03	12,938.25
Almorah	Uttarakhand	9.82	34,302.33
Alwar	Rajasthan	34.02	0.00
Amarawati	Maharashtra	1,147.41	500.00
Ambala	Haryana	50.87	0.00
Amreli	Gujarat	108.41	0.00
Amritsar	Punjab	159.82	0.00
Ananthapur	Andhra Pradesh	1,149.67	88,477.42
Aurangabad	Maharashtra	416.79	5,821.43
Azamgarh	Uttar Pradesh	87.84	17,582.11
Bahraich	Uttar Pradesh	163.22	6,222.23
Balaghat	Madhya Pradesh	16.06	10,803.76
Balasore	Orissa	600.33	12,000.00
Ballia	Uttar Pradesh	128.59	13,403.94
<b>Total</b>		<b>1,25,139.21</b>	<b>57,29,393.82</b>

