



CROP PRODUCTION DATA

INTRODUCTION

I have efficiently finished project on Crop Production Analysis .This Project all about analyzing the sales data of Crop provided by the organization and uncovering the hidden patterns, trend and provided insights into sales, profit, and costs across different regions and time periods from the Crop Productio Data by creating interactive dashboard in Microsoft Power Bi.

The provided visualizations offer a comprehensive overview of crop production in India, highlighting key statistics such as total production, area under cultivation, crop diversity, and seasonal patterns. With data spanning from 1997 to 2015, the dashboards reveal trends and insights into agricultural practices across 33 states.

Major crops and their production areas, as well as seasonal contributions, are detailed, showcasing regional variations and specialization. These visualizations serve as valuable tools for understanding the dynamics of Indian agriculture, informing policy decisions, and optimizing resource allocation for sustainable crop production

DETAILS OF DATA

1. State_Name
2. District_Name
3. Crop_Year
4. Season
5. Crop
6. Area
7. Production

MAIN KPI'S

- **Total Crop Production:**
 - **Value:** 141.18 billion units **Significance:** Indicates the overall agricultural output in the country.
- **Total Area Under Cultivation:**
 - **Value:** 2.95 billion units **Significance:** Reflects the scale of land dedicated to crop production.
- **Count of Crop Seasons:**
 - **Value:** 6 (Kharif, Rabi, Whole Year, Summer, Winter, Autumn) **Significance:** Demonstrates the diversity in planting and harvesting periods.
- **Number of Crop Types:**
 - **Value:** 124 **Significance:** Shows the variety of crops cultivated, highlighting agricultural diversity.
- **Total Number of States Involved:**
 - **Value:** 33 **Significance:** Indicates the widespread geographic distribution of agricultural activities.
- **Annual Production Goal Achievement:**
 - **Value:** 6.94 million units (with an actual achievement exceeding this goal by 1,233,897.28%) **Significance:** Reflects productivity and efficiency in meeting and surpassing production targets.
- **Seasonal Crop Distribution:**
 - **Values:**
 - Kharif: 95.95k (38.99%)
 - Rabi: 66.99k (27.22%)
 - Whole Year: 57.31k (23.29%)
 - Summer: 14.84k (6.03%)
 - Winter: 4.63k (1.88%)
 - Autumn: 1.02k (0.42%)
 - **Significance:** Highlights the seasonal contribution to total crop production.
- **Top Crops by Area:**
 - **Top Crops:** Arhar/Tur, Bajra, Cotton (lint), Gram, Jowar, Maize, Rice, Soybean, Sugarcane **Significance:** Identifies the primary crops that occupy the largest cultivation areas, crucial for resource planning and management.
- **Sum of Production by Crop Year:**
 - **Range:** 1997 to 2015
 - **Peak Values:** Notable peaks in 2010 (14.3 billion units) and 2015 (12.9 billion units)
 - **Significance:** Provides insights into historical trends and significant production years.
- **State-wise Crop Count:**
 - **Leading States:** Uttar Pradesh, Madhya Pradesh, Bihar
 - **Significance:** Shows regional agricultural productivity and diversity.

Crop Production In INDIA

Total Production
141.18bn

Total Production
141.18bn

Sum Of Area
2.95bn

Sum Of Area
2.95bn

Count Of Season
6

Count Of Season
6

Number Of Crop
124

Number Of Crop
124

Total State Name
33

Total State Name
33

Sum of Production and Count of Crop by Crop_Y...

6.94M ✓

Goal: 562 (+1233897.28%)

Sum of Production and Count of Crop by Crop_Y...

6.94M ✓

Goal: 562 (+1233897.28%)

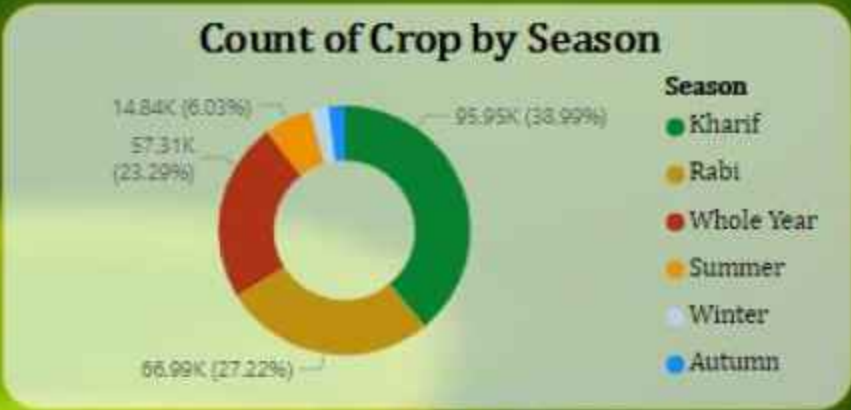
Sum of Production and Count of Crop by Crop_Y...

6.94M ✓

Goal: 562 (+1233897.28%)

Count of Crop by Season

Season	Count	Percentage
Kharif	95.95K	38.99%
Rabi	66.99K	27.22%
Whole Year	57.31K	23.29%
Summer	14.84K	6.03%
Winter	1.1K	0.44%
Autumn	1.1K	0.44%



Count of Crop by Season

Season	Count	Percentage
Kharif	95.95K	38.99%
Rabi	66.99K	27.22%
Whole Year	57.31K	23.29%
Summer	14.84K	6.03%
Winter	1.1K	0.44%
Autumn	1.1K	0.44%

Crop_Year		
1997	1998	1999
2000	2001	2002
2003	2004	2005

Crop_Year		
1997	1998	1999
2000	2001	2002
2003	2004	2005

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1997	1998	1999
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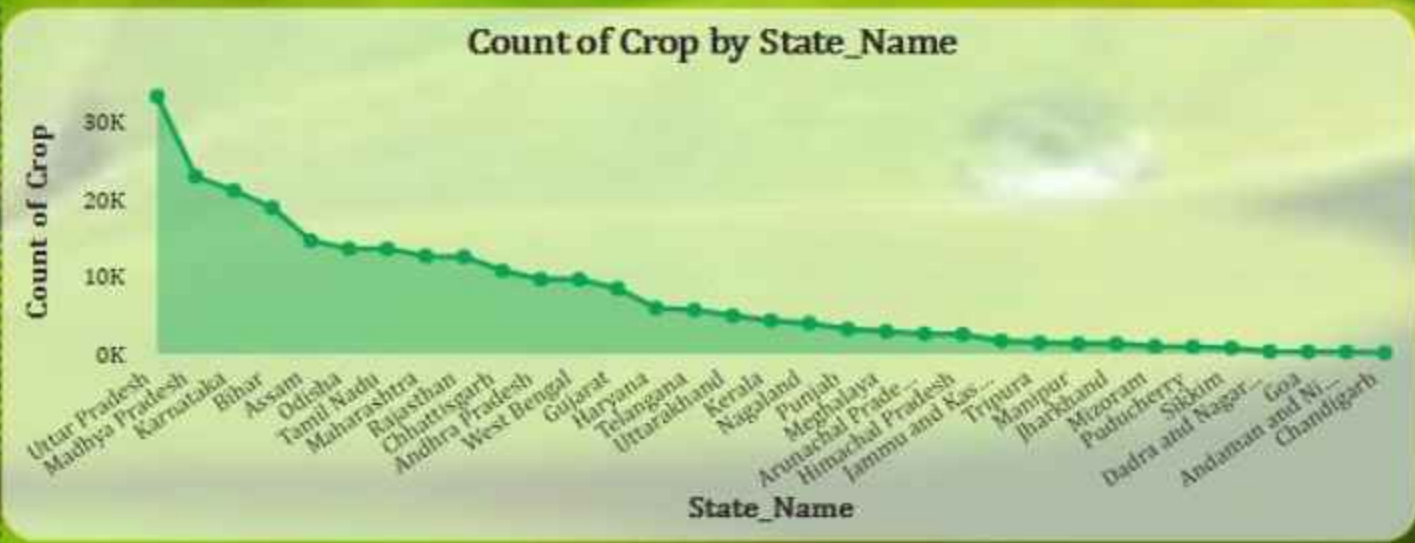
Crop_Year		
1997	1998	1999
2000	2001	2002
2003	2004	2005

Crop_Year		
1997	1998	1999
2000	2001	2002
2003	2004	2005

Crop_Year		
1997	1998	1999
2000	2001	2002
2003	2004	2005

Count of Crop by State_Name

State_Name	Count of Crop
Uttar Pradesh	33K
Madhya Pradesh	23K
Karnataka	21K
Bihar	20K
Assam	19K
Odisha	15K
Tamil Nadu	14K
Maharashtra	14K
Rajasthan	13K
Chhattisgarh	13K
Andhra Pradesh	11K
West Bengal	10K
Gujarat	10K
Haryana	9K
Telangana	6K
Uttarakhand	6K
Kerala	5K
Nagaland	4K
Punjab	4K
Meghalaya	3K
Arunachal Pradesh	3K
Himachal Pradesh	3K
Jammu and Kashmir	2K
Tripura	2K
Manipur	2K
Jharkhand	2K
Mizoram	2K
Putucherry	2K
Sikkim	2K
Dadra and Nagar Haveli	1K
Goa	1K
Andaman and Nicobar Islands	1K
Chandigarh	1K



Sum of Production by Crop_Year

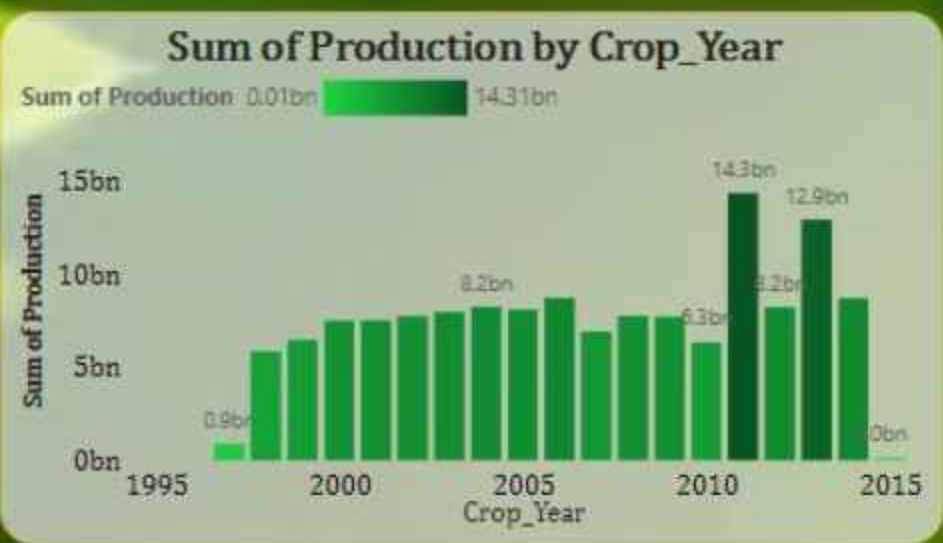
Sum of Production: 0.01bn 14.31bn

Crop_Year	Sum of Production (bn)
1995	0.9
1996	5.8
1997	6.5
1998	7.5
1999	7.5
2000	7.8
2001	8.2
2002	8.2
2003	8.2
2004	8.2
2005	8.2
2006	8.8
2007	7.0
2008	7.8
2009	7.8
2010	6.3
2011	14.3
2012	8.2
2013	12.9
2014	8.8
2015	0

Sum of Production by Crop_Year

Sum of Production: 0.01bn 14.31bn

Crop_Year	Sum of Production (bn)
1995	0.9
1996	5.8
1997	6.5
1998	7.5
1999	7.5
2000	7.8
2001	8.2
2002	8.2
2003	8.2
2004	8.2
2005	8.2
2006	8.8
2007	7.0
2008	7.8
2009	7.8
2010	6.3
2011	14.3
2012	8.2
2013	12.9
2014	8.8
2015	0



Crop Production In INDIA

Top Ten Crop By Area

Sum of Area	Crop
43,642,713.00	Arhar/Tur
48,470,862.00	Bajra
75,260,350.00	Cotton(lint)
84,257,016.00	Gram
116,398,091.00	Jowar
71,837,309.00	Maize
402,721,806.00	Rice
123,113,138.00	Soyabean
63,885,701.00	Sugarcane
1,331,925,089.00	

Sum of Production by Season



Season

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

Crop_Year

1997	2002	2007	2012
1998	2003	2008	2013
1999	2004	2009	2014
2000	2005	2010	2015
2001	2006	2011	

Top Ten Crop Production According To State

Crop	Assam	Bihar	Karnataka	Madhya Pradesh	Maharashtra	Odisha	Tamil Nadu	Uttar Pradesh	1
Banana	11,724,386.00	2,884,412.00	10,986,598.00	6,405,551.00	3,634,720.00		58,716,087.00	809,492.00	95,
Coconut	1,954,408,105.00		56,767,101.29				10,937,742,655.00		12,948,
Cotton(lint)	12,341.00	488.00	15,319,987.00	10,109,481.10	71,786,349.00	126,120.00	4,277,078.00	30,768.00	101,
Jowar		83,110.00	24,191,754.00	10,051,589.00	55,018,576.00	40,401.00	4,905,140.00	4,374,182.00	98,
Maize	389,382.00	32,232,829.00	48,308,900.00	22,546,783.00	20,853,343.00	2,667,442.80	11,201,656.00	22,377,151.00	160,
Potato	11,021,521.00	14,035,519.00	5,950,292.00	10,386,198.00		15,20,018.30	1,081,953.00	192,068,401.00	236,
Rice	71,801,090.00	92,022,922.00	65,837,072.79	27,622,679.00	43,008,628.00	119,422,742.00	100,122,666.00	218,793,359.00	738,
Soyabean			1,844,638.00	85,273,955.00	39,994,352.00	10.00		247,229.00	127,
Sugarcane	18,845,994.00	106,227,183.00	515,845,482.00	33,870,810.00	938,485,965.00	18,114,891.60	847,496,816.00	2,202,874,890.00	4,681,
Wheat	1,218,370.00	81,020,206.00	3,856,245.00	147,153,856.00	22,443,475.00	120,656.70	110.00	469,911,750.00	725,
Total	2,069,421,189.00	328,506,669.00	748,908,070.08	353,420,902.10	1,195,225,408.00	142,012,282.40	11,965,544,161.00	3,111,487,222.00	19,914,



THANK YOU