

Wireframe Documentation

CROP ANALYSIS

MAIN PAGE

This is the main or first page of our analysis. This page describes the original problem statement, names of project members who had participated on this project and various buttons which we had made for visualization.

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Problem Statement

This dataset provides a huge amount of information on crop production in India ranging from 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 the crop production.

Project Members

. Chetan Patil	in
. Pushpendra	in
. Mohit Tomar	in
. Sayani Mitra	in
. Subhangi Doye	in

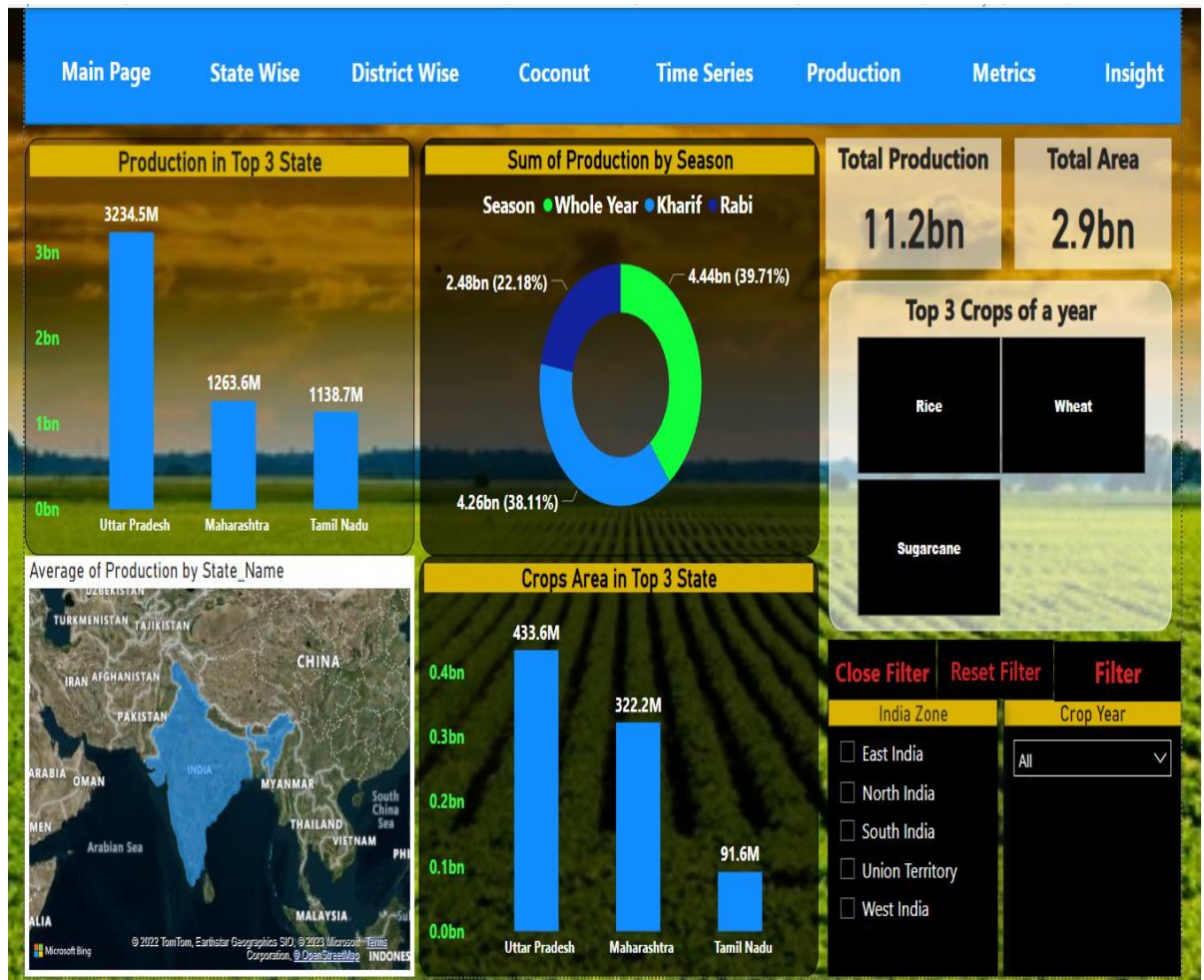
Buttons Meaning

- State Wise (State Wise Visualisations will be in this page)
- District Wise (District Wise Visualisation will be in this page)
- Time Series (How production is performing in all years)
- Metrics (Production is presented in form of numbers)
- Insight (Insight for Respective Page)

STATE WISE ANALYSIS

This page shows -

- Top 3 states on production
- Season wise total production of those states.
- 2 cards are there which displays total production and total area of production.
- We can filter out zone and year to see top3 states vs. production of that particular zone and year.



Insight page of state wise production

Top 3 crops as per Production in India

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- . Sugarcane
- . Rice
- . Wheat

Total production of Sugarcane is Highest Among All Crops

- . Uttar Pradesh is having Highest Production and Cultivation area among all state
- . Maximum Production of Sugarcane Comes When It Sown in Whole Year Season

Total production of Rice is Second Highest Among All Crops

- . West Bengal is having Highest Production, but Cultivation area is highest in Uttar Pradesh
- . Maximum Production of Rice Comes When It Sown in Kharif Season

Total production of Wheat is Third Highest Among All Crops

- . Uttar Pradesh is having Highest Production and Cultivation area among all state
- . Maximum Production of Wheat Comes When It Sown in Rabi Season

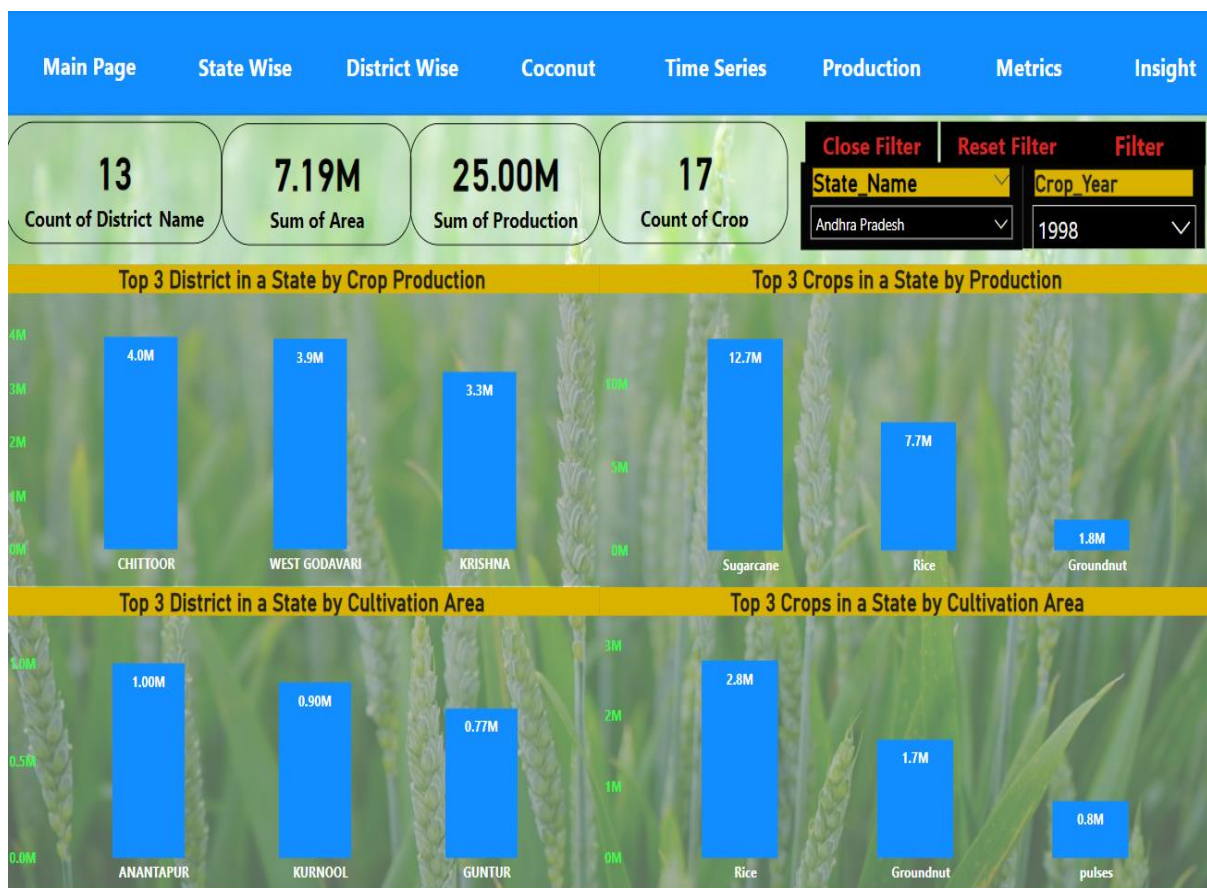
North India Is Having Maximum Production Among All Zones

DISTRICT WISE ANALYSIS

Here we used some cards to show total production, number of crops produces of those districts, total area of production and total number of district.

Different bar graphs are used to show different insights-

- Top 3 district of a state vs. production
- Top 3 crops of that state
- Area wise top three district



Insight page of District wise production

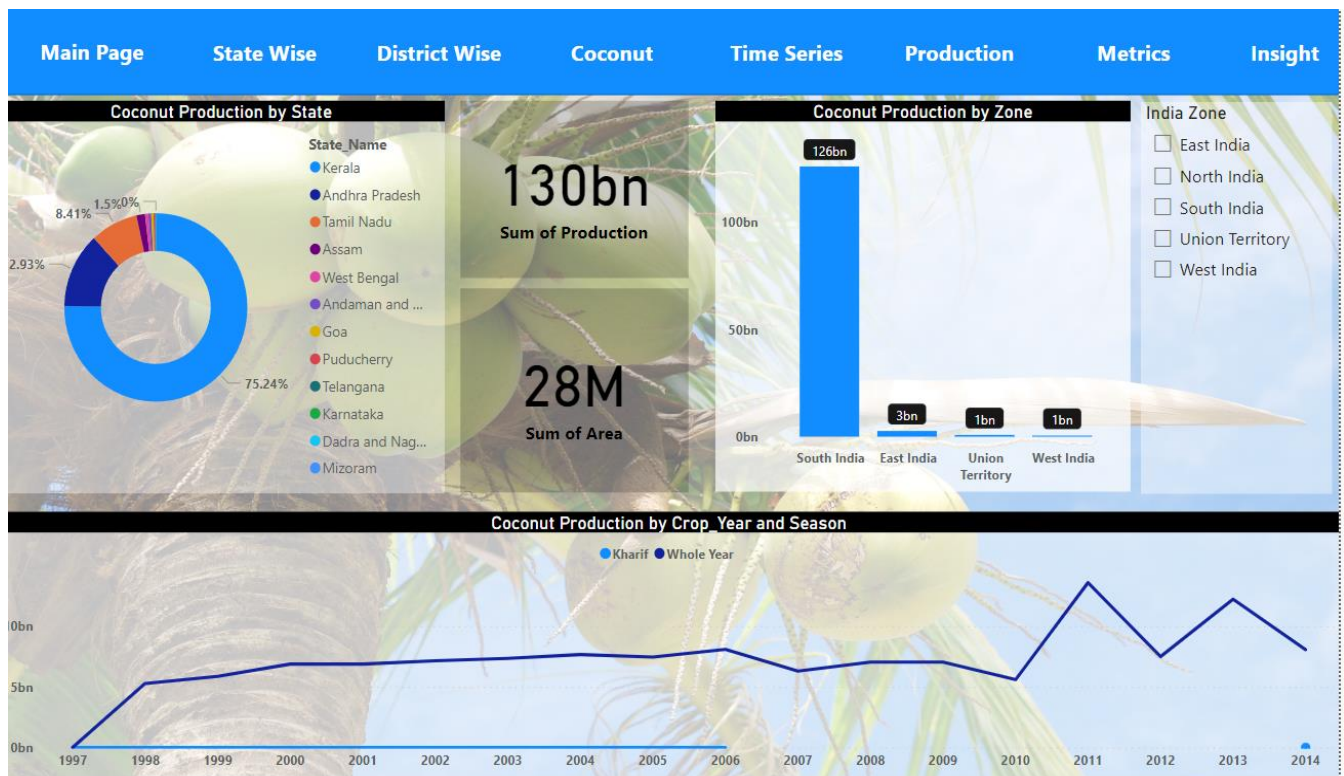
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- Top 3 Districts in production and cultivation area belongs to Utter Pradesh
- In Every state some Districts are Dominating in Production and cultivation area like
 - In West Bengal - Murshidabad, Midnapur west, Bardhman Are Dominating
 - In Utter Pradesh - Muzzfer Nagar, Kheri, Bijnor
- If variety of crops are higher in state Dosent mean maximum production will come from same state
- Kranatka is having highest counts of Crops but maximum production comes from other state
lowest variety of crops belong from Chandigarh
- 38 different types of crops are cultivating in 646 districts of India

COCONUT PRODUCTION ANALYSIS

This page describes

- Total production of coconut
- State wise production of coconut
- Analyze the top zone where huge amount of coconut production happens
- Time series analysis of coconut production



Insight page of coconut production

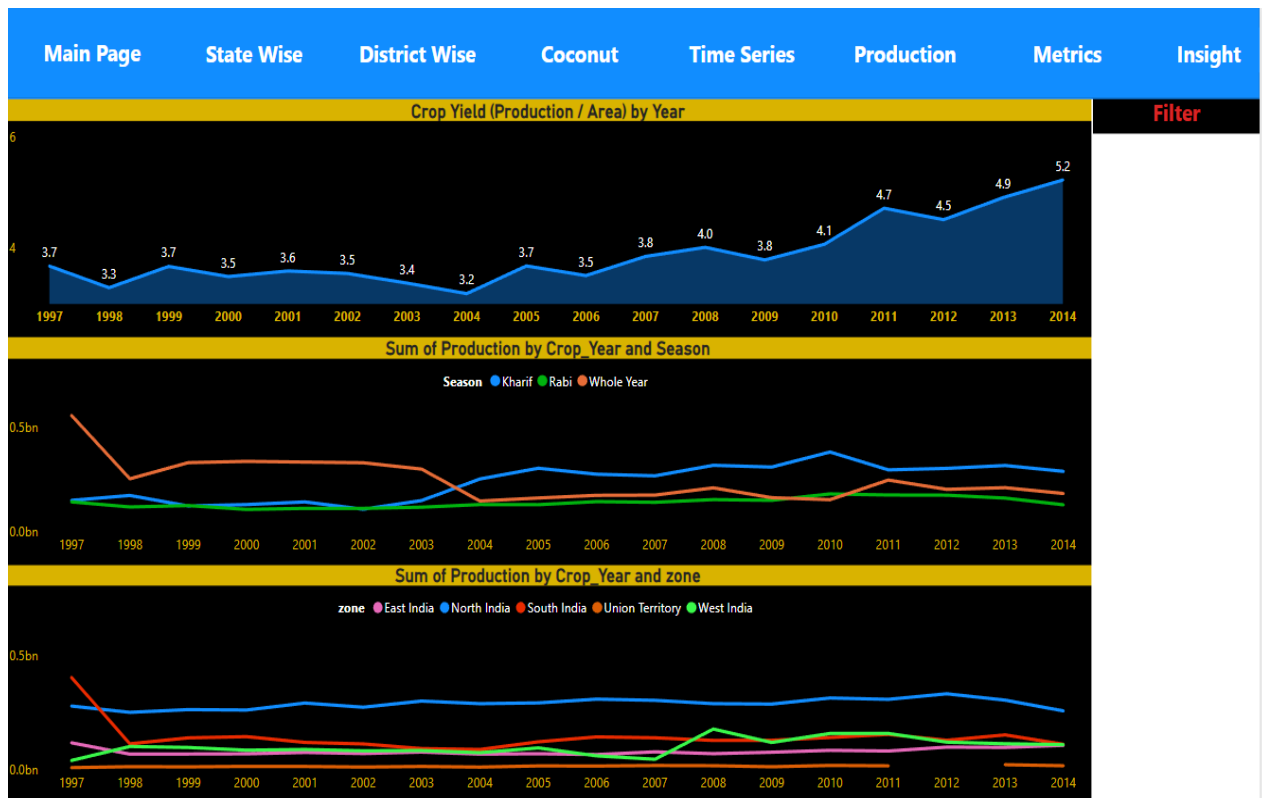
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- Coconut is having highest production of India
- North Zone is having zero production of coconut
- South zone is having highest coconut production
- Kerla is having maximum production in South Zone which is approx 75% of total coconut production
- Assam is having maximum production in East Zone
- Goa is having maximum production in West Zone

TIME SERIES ANALYSIS

This page shows-

- Time series of yields
- Total production by crop year and seasons
- Time series analysis of total production vs. zone

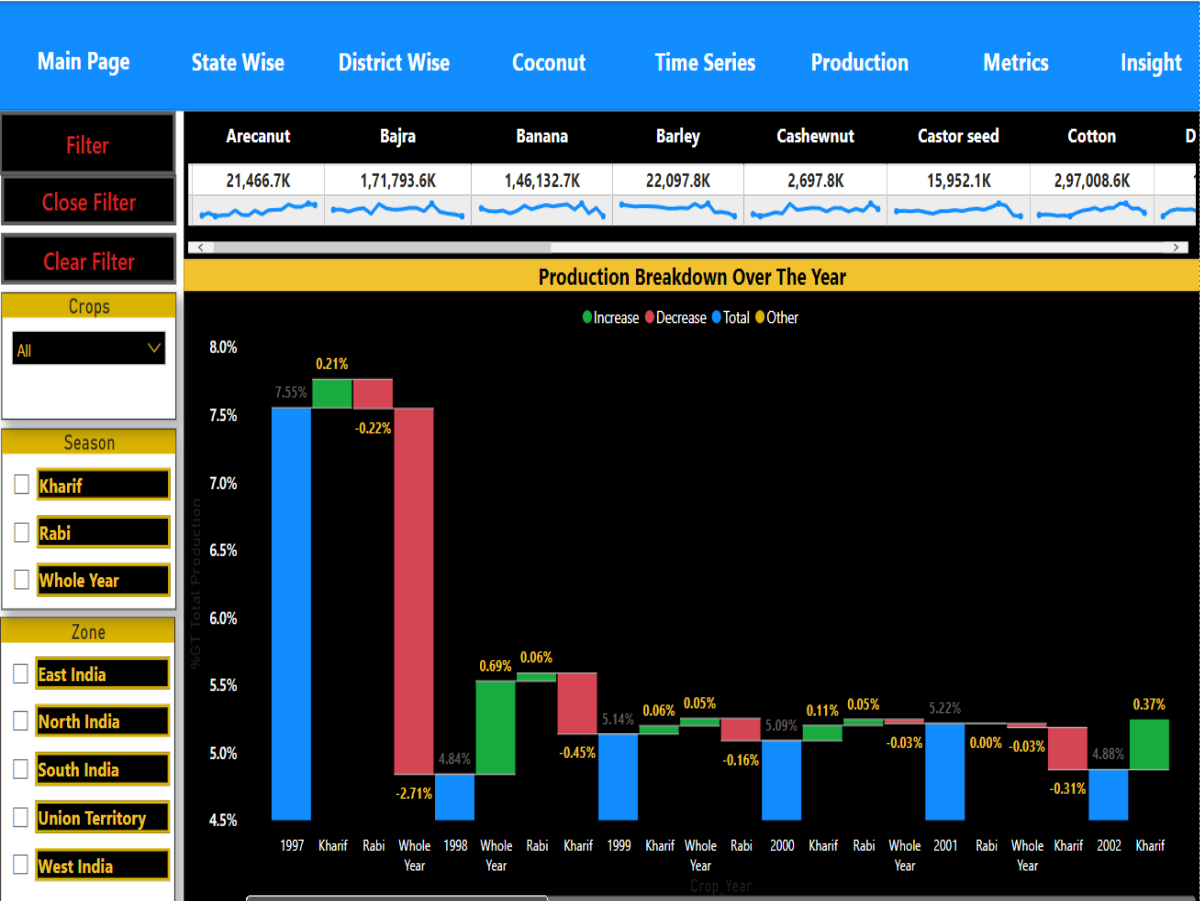


Insights of time series analysis

- Sugarcane, Potato, Coconut is having highest yeilds (production/crop) among all crops.
- Total production and Total Cultivating area of India is decreasing continuously after year 2010.
- Crops whose yield is maximum, those crops generally sown in whole year season
- Crops whose Production is higher are also having higher yield
- North Zone has highest production in all years among all Zone
- Union Territory is having lowest production in all years among all Zones
- South Zone is having maximum production in whole year season
- North Zone is having maximum production from 1997 to 2003 in whole year season and from year 2003 to 2014 in kharif season
- West Zone is having highest production in whole year season and East Zone is having highest in Rabi Season

PRODUCTION BREAKDOWN OVER YEAR

This page describes variation of production year over year



Insights of production breakdown.

- Maximum growth in production was in between year 2007-2008
- Maximum downfall of growth was in year 1997-1998.
- Production of North Zone is decreased and West Zone, Union Territory production increased.
- Production In Whole Year Season declined continuously after the year 2003 but production In Rabi and Kharif Season increased after year 2003.

METRICS

This page helps us to understand how the production of crops varies with different metrics

Main Page State Wise District Wise Coconut Time Series Production Metrics						
State_Name	Sum of Area	Sum of Production	Crop	Average of Area	Average of Production	area production yield
Uttar Pradesh	43,36,22,306.00	3,23,44,92,662.70	Sugarcane	9,844.10	7,10,904.75	
KHERI	1,26,73,591.00	24,49,73,686.00	Tapioca	2,222.06	66,334.31	
HARDOI	1,18,68,401.00	5,72,43,379.00	Banana	1,689.58	47,078.83	
BUDAUN	1,15,30,734.00	5,91,04,456.00	Potato	3,229.28	61,712.79	
SITAPUR	1,09,20,142.00	13,48,64,863.10	Jute	5,127.01	60,815.24	
SHAHJAHANPUR	1,04,76,161.00	7,45,61,329.00	Onion	902.77	10,372.71	
AZAMGARH	92,89,165.00	3,87,10,078.00	Dry ginger	405.00	3,366.87	
ALLAHABAD	92,74,343.00	2,25,13,315.00	Sweet potato	231.28	1,909.03	
BAREILLY	91,54,845.00	10,20,65,965.00	Fruits	1,718.83	12,564.95	
ALIGARH	86,25,127.00	3,67,95,821.00	Garlic	581.83	2,733.68	
BAHRAICH	86,13,305.00	3,70,45,089.00	Turmeric	656.51	2,395.73	
JAUNPUR	82,79,988.00	3,07,58,890.00	Areca nut	3,985.57	13,603.72	
GONDA	82,63,848.00	6,58,03,063.10	Wheat	59,894.71	1,69,592.16	
MORADABAD	80,73,046.00	8,62,27,783.10	Maize	8,884.17	19,992.87	
UNNAO	79,94,761.00	1,96,54,381.00	Rice	49,094.91	1,05,393.40	
JHANSI	77,69,822.00	99,48,895.10	Barley	2,552.12	5,424.10	
ETAH	77,47,878.00	2,79,78,580.00	Cotton	35,892.86	68,089.99	
BARABANKI	77,15,424.00	3,50,46,928.00	Other Vegetables	1,348.59	2,445.09	
BULANDSHAHR	76,65,952.00	7,63,59,869.10	Dry chillies	1,563.87	2,767.11	
BANDA	75,01,982.00	88,80,002.00	Total foodgrain	81,175.51	1,38,198.95	
BIJNOR	72,58,722.00	24,05,69,063.00	Tobacco	2,456.99	3,980.34	
GHAZIPUR	71,94,875.00	2,38,19,030.10	Sannhamp	124.14	176.04	
FATEHPUR	71,76,822.00	2,36,07,848.00	Castor seed	3,988.66	4,894.77	
LALITPUR	71,75,024.00	90,14,879.00	Groundnut	11,836.25	12,877.75	
AGRA	70,88,627.00	3,36,69,079.10	Rapeseed & Mustard	11,576.43	12,152.55	
PILIBHIT	70,50,728.00	7,89,68,255.10	Soyabean	42,701.21	44,728.49	
GORAKHPUR	70,13,477.00	2,04,86,667.10	Bajra	12,216.14	11,631.25	
RAE BARELI	69,77,601.00	1,78,42,834.00	Jowar	19,763.38	16,453.45	
MUZAFFARNAGAR	69,54,727.00	26,89,93,239.30				
Total	2,91,36,95,431.93	11,18,61,08,915.70	Total	12,335.45	47,357.63	

THANK YOU