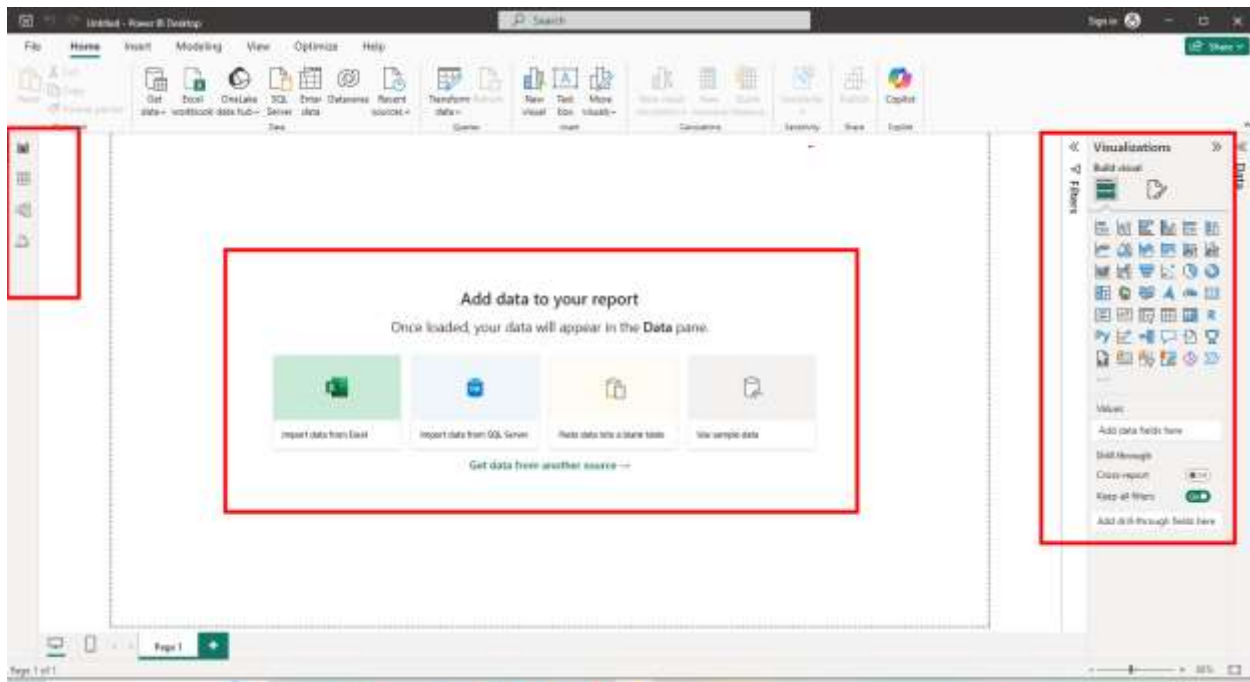


EXTRACT DATA FROM CSV DATA SOURCE BY USING POWER BI

1-Launch of Power BI



2- Access to Power BI Desktop



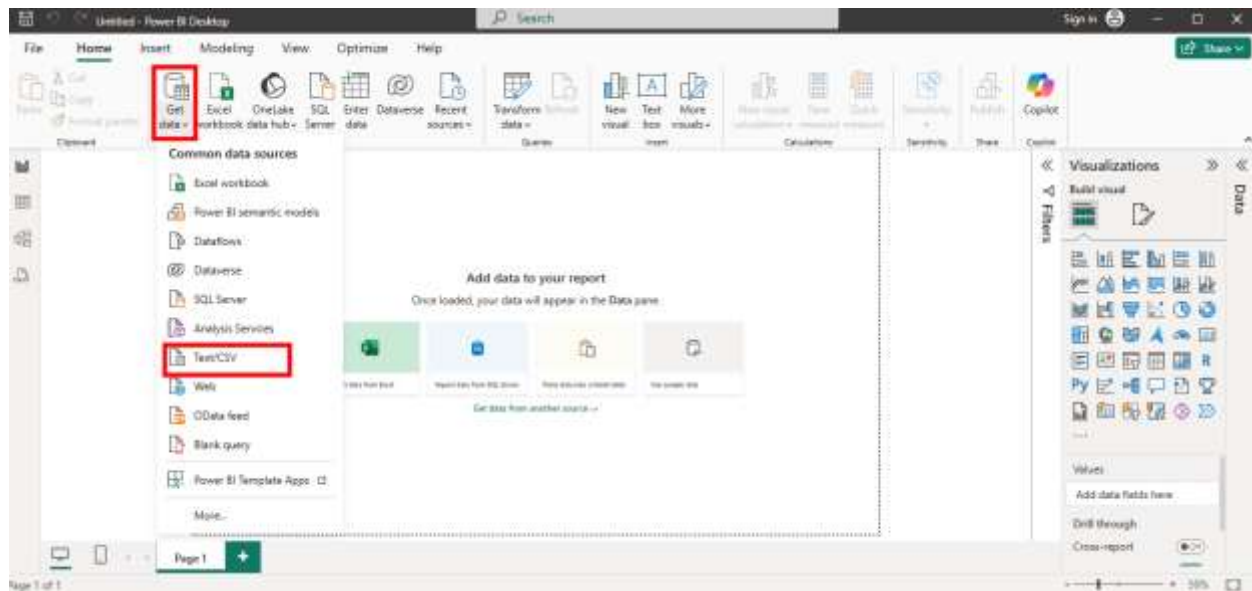
-In the right we can see the tool and elements for visualise the data

- In the left we can see report view, table view and model view

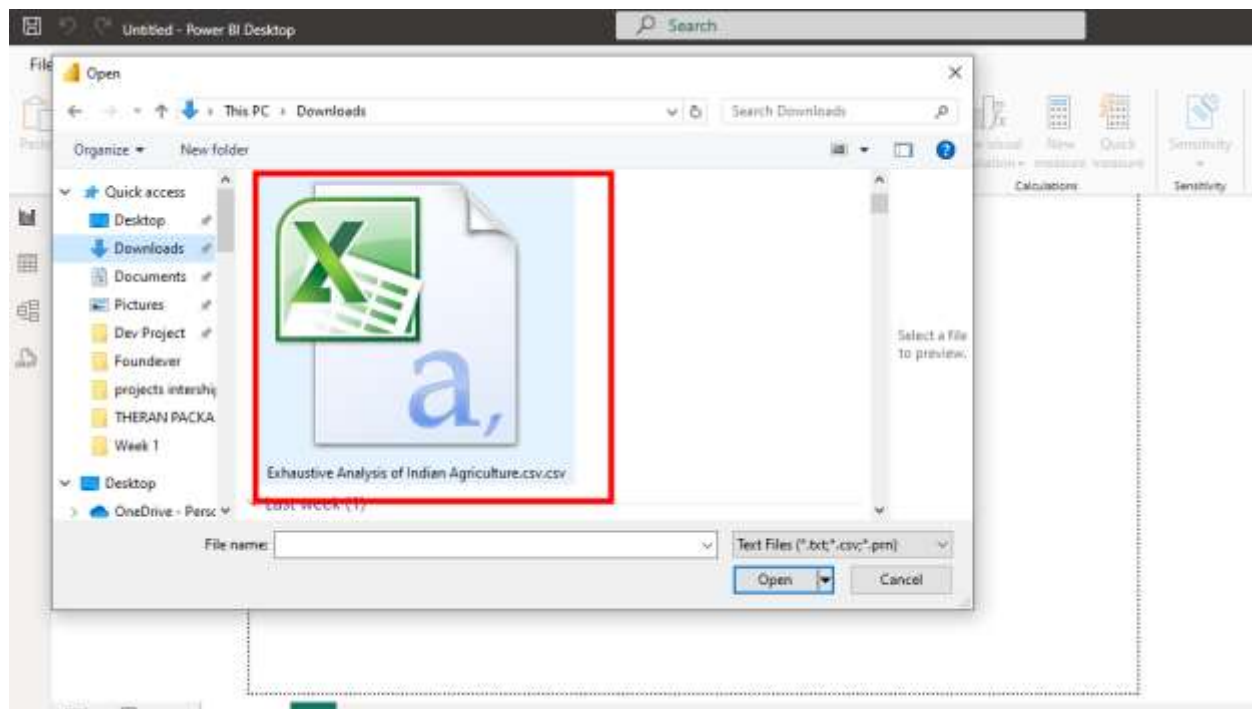
-In the centre we can see many options to extract data from source

3-Get Data From source

-Our data source its csv file so we click on text/CSV



-File explorer for choose the data source directly on the laptop



-Select the load option if the data is clean

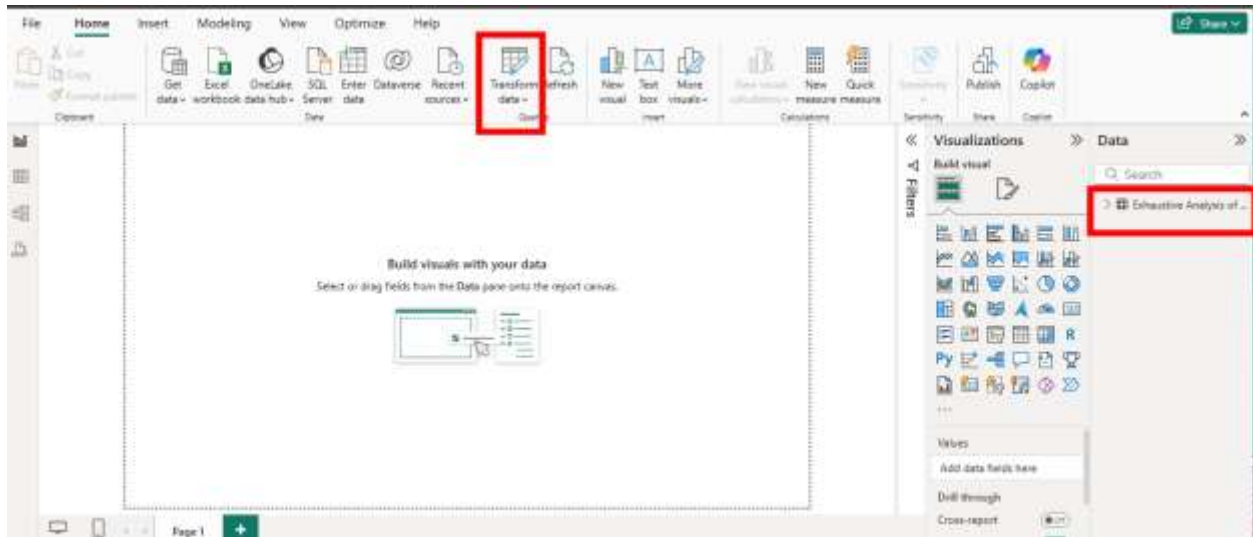
The screenshot shows the Power BI Desktop interface with the 'Exhaustive Analysis of Indian Agriculture.csv.csv' data source loaded. The 'Load' button is highlighted with a red box. The data table is as follows:

RowID	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production
1	Bihar	NALANDA	2020	Rabi	Wheat	81994	280425
2	Assam	KARBI ANGLONG	2020	Whole Year	Cocoa	257	514
3	Gujarat	ANAND	2020	Summer	Maize	500	330
4	Karnataka	UTTAR KANNAD	2018	Rabi	Groundnut	1872	4572
5	Uttar Pradesh	JAMUNSI	2019	Rabi	Onion	110	1206
6	Assam	MARIGADH	2014	Rabi	Repseed & Mustard	4515	2719
7	Odisha	SONEPUR	2008	Winter	Repseed & Mustard	91	8
8	Rajasthan	DUNGAPUR	2017	Whole Year	Garlic	5	5
9	Karnataka	BELGALUR	2018	Whole Year	Coconut	336	3212
10	Bihar	MUNGER	2020	Summer	Mung/Green Gram	126	79
11	Chhattisgarh	JANGSI-CHAMPA	2011	Kharif	Other Kharif pulses	225	207
12	Assam	KARBI ANGLONG	2019	Rabi	Repseed & Mustard	19187	8652
13	Uttar Pradesh	SHRAWASTI	2009	Kharif	Groundnut	72	58
14	Gujarat	PATAN	2019	Kharif	Mung/Green Gram	4109	3360
15	Tamil Nadu	KARUR	2008	Whole Year	Sweet potato	30	309
16	Uttar Pradesh	KASGANJ	2019	Rabi	Tobacco	1247	2054
17	Haryana	MAHENDRAGARH	2006	Rabi	Wheat	40014	100000
18	Assam	DHEKIAJ	2017	Whole Year	Turmeric	821	211
19	Assam	BAGLA	2015	Kharif	Small millets	284	127
20	Kerala	POTHANATHIYITA	2009	Whole Year	Sugarcane	224	22009

-Wait for data to load in Power BI

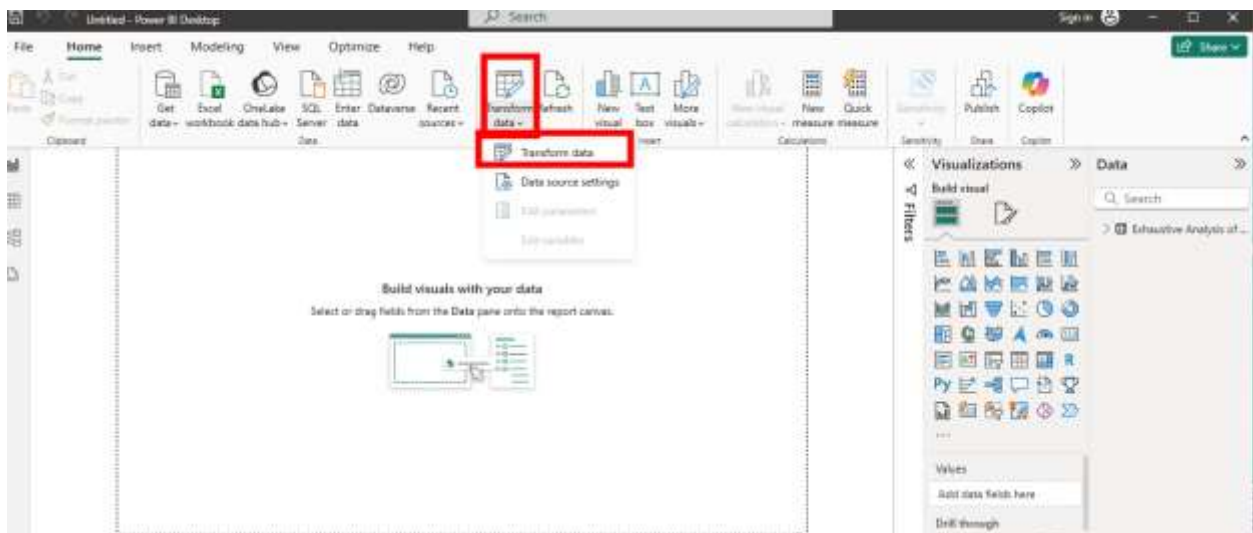
The screenshot shows the Power BI Desktop interface with the 'Load' dialog box open. The dialog box indicates that the data is being loaded and the connection is being created in the model. The 'Load' button is highlighted with a red box.

-Once the data is loaded into Power BI, we can see the data source name in the left side

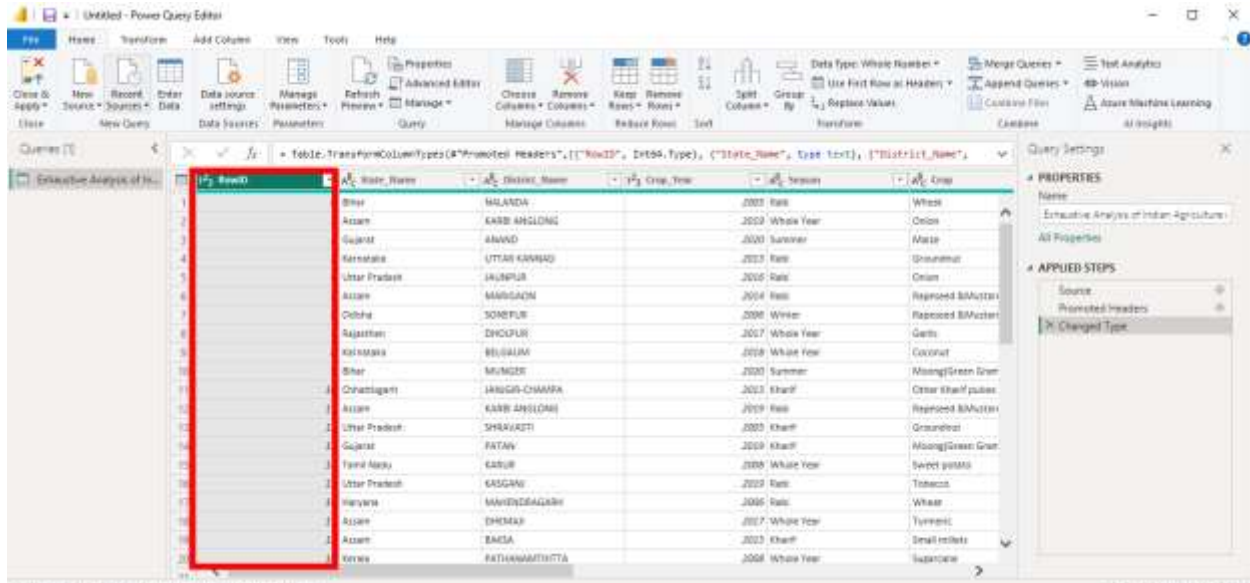


4-Transform Data

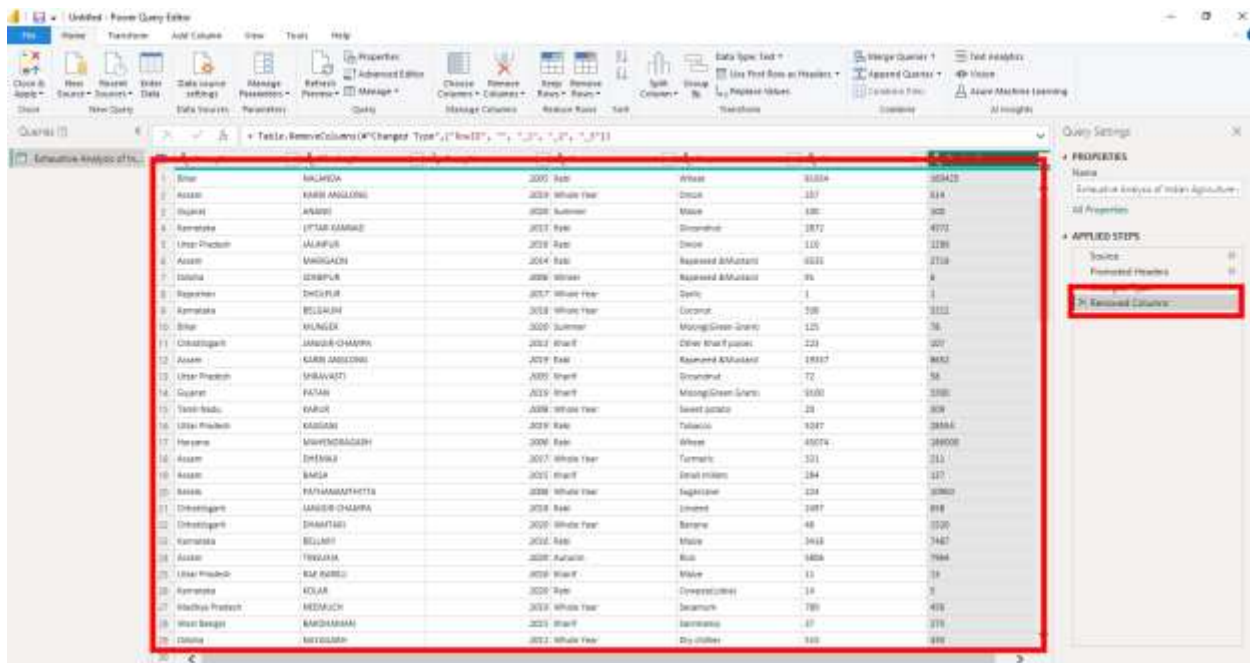
-This phase consists of validating the data and for this we will click on transform data



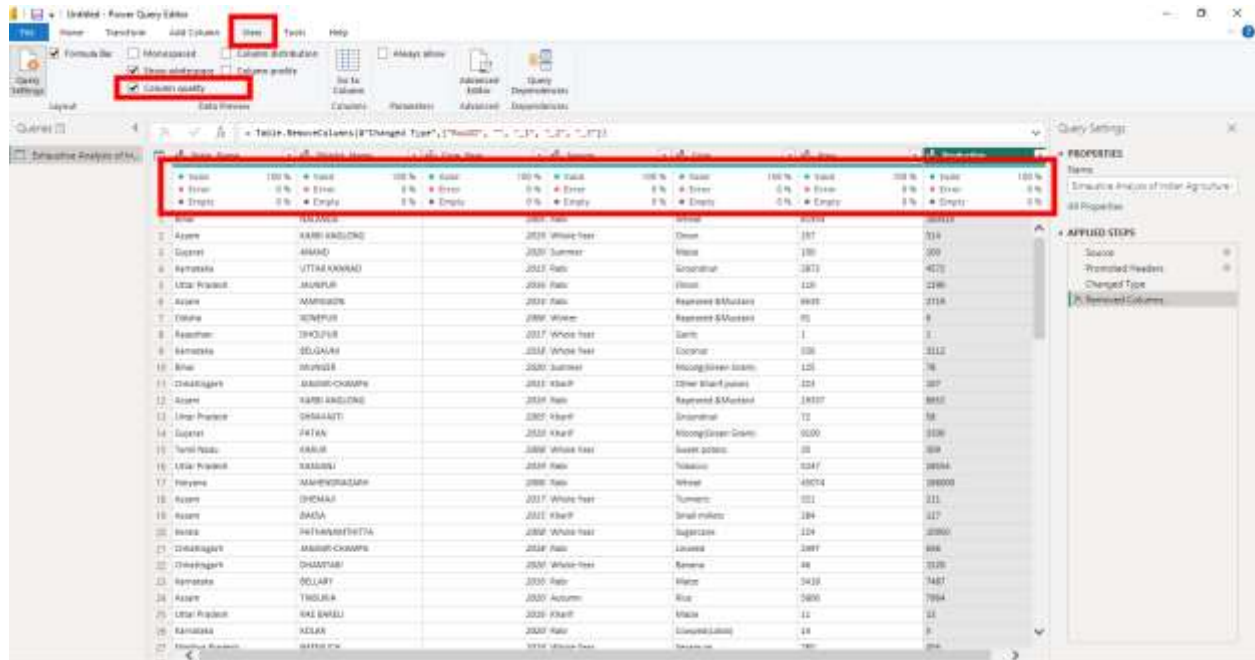
- After clicking on transform data the Power Query Editor window will appear which will allow us to evaluate and perform several actions to validate our data and we will start by removing unnecessary and blank columns by just select the columns and make a right click and choose remove.



-Data source after removing columns



-After this we validated columns by click to the view tab then check column quality and a line will be displayed with statistics of the quality of the data of each column. After than we need to close and apply for save and close the Power Query Editor.



5-Final data results after data transformation

The screenshot shows the Power BI Desktop interface with the 'Table tools' tab selected. A red box highlights the data table, which contains the following data:

State Name	District Name	Crop Year	Season	Crop	Area	Production
Uttar Pradesh	RAE BAREILLY	2018	Kharif	Maize	11	12
Uttar Pradesh	PILBHEHT	2021	Kharif	Maize	281	570
Uttar Pradesh	ALLAHABAD	2008	Kharif	Maize	211	447
Uttar Pradesh	BANDA	2014	Kharif	Maize	20	26
Uttar Pradesh	HARDOI	2006	Kharif	Maize	55411	61728
Uttar Pradesh	GAUTAM BUDDHA NAGAR	2020	Kharif	Maize	739	1752
Uttar Pradesh	SANT KABIR NAGAR	2005	Kharif	Maize	1655	2088
Uttar Pradesh	UNNAO	2006	Kharif	Maize	38370	51488
Uttar Pradesh	ETAWAH	2019	Kharif	Maize	5898	9904
Uttar Pradesh	AGRA	2022	Kharif	Maize	45	117
Uttar Pradesh	AMBEDKAR NAGAR	2021	Kharif	Maize	477	317
Uttar Pradesh	ALLAHABAD	2021	Kharif	Maize	448	484
Uttar Pradesh	LAUTPUR	2019	Kharif	Maize	32502	36288
Uttar Pradesh	PRIDEHABAD	2017	Kharif	Maize	8606	21589
Uttar Pradesh	SONBHADRA	2017	Kharif	Maize	12356	8452
Uttar Pradesh	AMETHI	2020	Kharif	Maize	399	416
Uttar Pradesh	LUCKNOW	2011	Kharif	Maize	2584	2018
Uttar Pradesh	GHAZIPUR	2009	Kharif	Maize	675	1128
Uttar Pradesh	LUCKNOW	2010	Kharif	Maize	2524	1262
Uttar Pradesh	GHAZIPUR	2016	Kharif	Maize	5747	4465