

CAPSTONE PROJECT :- 1 :- (RELATED TO MACHINE LEARNING:-REGRESSION PROBLEM)

In []:

CAPSTONE PROJECT NAME :- CROP YIELD PREDICTION

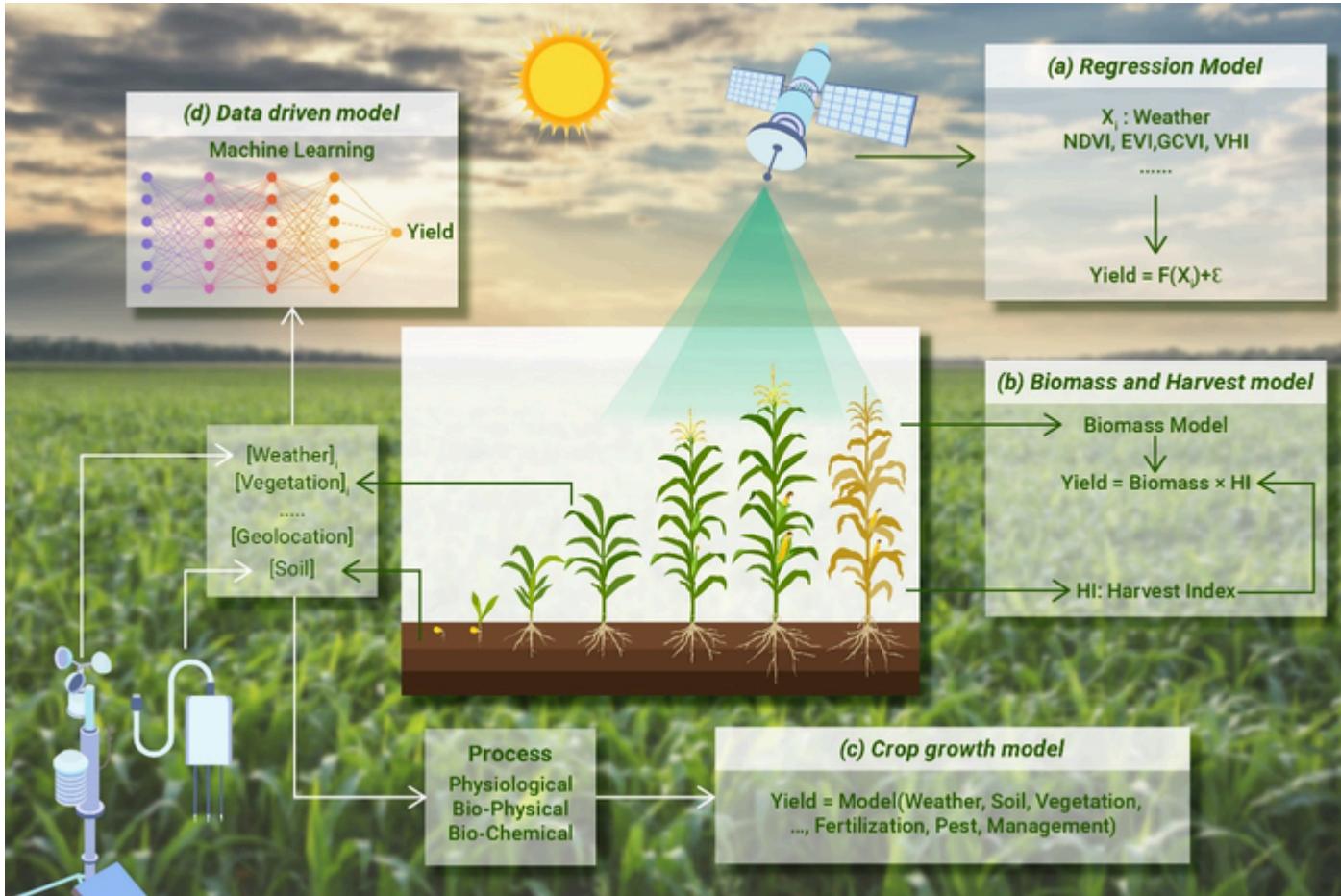
In []:

CREATED BY :- JAYASHRI PACHARANE, DATE :- 25TH NOV.2024

In []:

```
In [1]: from IPython import display  
display.Image("C:\\\\Users\\\\DELL\\\\Downloads\\\\Crop_yeild_Image.jpg")
```

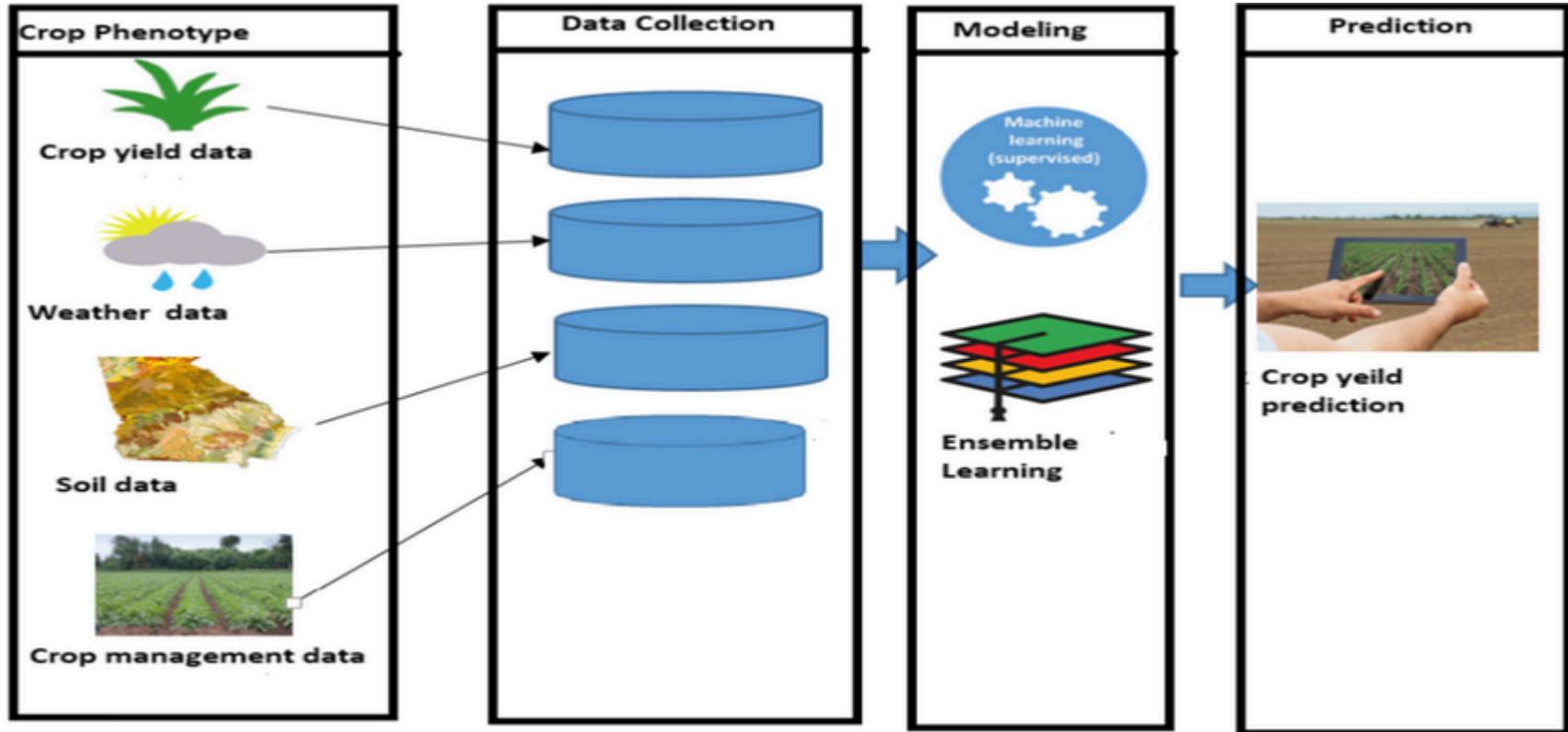
Out[1]:



In []:

```
from IPython import display
display.Image("C:\\\\Users\\\\DELL\\\\Downloads\\\\crop_yield_prediction_image.png")
```

Out[2]:



In []:

PROBLEM STATEMENT :-

This dataset encompasses agricultural data for multiple crops cultivated across various states in India from the year

1997 till 2020.

The dataset provides crucial features related to crop yield prediction, including crop types, crop years, cropping seasons,

states, areas under cultivation, production quantities, annual rainfall, fertilizer usage, pesticide usage, and calculated yields.

In []:

COLUMNS DESCRIPTION:-

- 1.Crop:- The name of the crop cultivated.
- 2.Crop_Year:- The year in which the crop was grown.
- 3.Season:- The specific cropping season (e.g., Kharif, Rabi, Whole Year).
- 4.State:- The Indian state where the crop was cultivated.
- 5.Area:- The total land area (in hectares) under cultivation for the specific crop.
- 6.Production:- The quantity of crop production (in metric tons).
- 7.Annual_Rainfall:- The annual rainfall received in the crop-growing region (in mm).
- 8.Fertilizer:- The total amount of fertilizer used for the crop (in kilograms).
- 9.Pesticide:- The total amount of pesticide used for the crop (in kilograms).
- 10.Yield:- The calculated crop yield (production per unit area).

In []:

In []:

IMPORTING LIBRARIES AND DATA :-

```
In [3]: import warnings  
warnings.filterwarnings('ignore')  
  
import matplotlib.pyplot as plt  
import numpy as np  
import pandas as pd
```

```
import pickle
import seaborn as sns

from pandas.plotting import scatter_matrix
from sklearn.ensemble import GradientBoostingRegressor, RandomForestRegressor
from sklearn.linear_model import ElasticNet, Lasso, LinearRegression, Ridge
from sklearn.metrics import mean_squared_error, r2_score
from sklearn.model_selection import cross_val_score, train_test_split
from sklearn.neighbors import KNeighborsRegressor
from sklearn.svm import SVR
from sklearn.tree import DecisionTreeRegressor

sns.set()
%matplotlib inline

pd.set_option("display.max.columns",None)
pd.set_option("display.max.rows",None)
```

In []:

Loading the data from csv file to a Pandas DataFrame :-

```
In [4]: # Loading the data from csv file to a Pandas DataFrame

df = pd.read_csv('crop_yield.csv')
```

```
In [5]: df.head(10)
```

Out[5]:

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
0	Arecanut	1997	Whole Year	Assam	73814.0	56708	2051.4	7024878.38	22882.34	0.796087
1	Arhar/Tur	1997	Kharif	Assam	6637.0	4685	2051.4	631643.29	2057.47	0.710435
2	Castor seed	1997	Kharif	Assam	796.0	22	2051.4	75755.32	246.76	0.238333
3	Coconut	1997	Whole Year	Assam	19656.0	126905000	2051.4	1870661.52	6093.36	5238.051739
4	Cotton(lint)	1997	Kharif	Assam	1739.0	794	2051.4	165500.63	539.09	0.420909
5	Dry chillies	1997	Whole Year	Assam	13587.0	9073	2051.4	1293074.79	4211.97	0.643636
6	Gram	1997	Rabi	Assam	2979.0	1507	2051.4	283511.43	923.49	0.465455
7	Jute	1997	Kharif	Assam	94520.0	904095	2051.4	8995468.40	29301.20	9.919565
8	Linseed	1997	Rabi	Assam	10098.0	5158	2051.4	961026.66	3130.38	0.461364
9	Maize	1997	Kharif	Assam	19216.0	14721	2051.4	1828786.72	5956.96	0.615652

In []:

EDA PART :-

In []:

First 5 rows of the dataframe :-

In [6]:

```
# first 5 rows of the dataframe
df.head()
```

Out[6]:

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
0	Arecanut	1997	Whole Year	Assam	73814.0	56708	2051.4	7024878.38	22882.34	0.796087
1	Arhar/Tur	1997	Kharif	Assam	6637.0	4685	2051.4	631643.29	2057.47	0.710435
2	Castor seed	1997	Kharif	Assam	796.0	22	2051.4	75755.32	246.76	0.238333
3	Coconut	1997	Whole Year	Assam	19656.0	126905000	2051.4	1870661.52	6093.36	5238.051739
4	Cotton(lint)	1997	Kharif	Assam	1739.0	794	2051.4	165500.63	539.09	0.420909

In []:

Last 5 rows of the dataframe :-

In [7]:

```
# Last 5 rows of the dataframe  
df.tail()
```

Out[7]:

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
19684	Small millets	1998	Kharif	Nagaland	4000.0	2000	1498.0	395200.00	1160.00	0.500000
19685	Wheat	1998	Rabi	Nagaland	1000.0	3000	1498.0	98800.00	290.00	3.000000
19686	Maize	1997	Kharif	Jammu and Kashmir	310883.0	440900	1356.2	29586735.11	96373.73	1.285000
19687	Rice	1997	Kharif	Jammu and Kashmir	275746.0	5488	1356.2	26242746.82	85481.26	0.016667
19688	Wheat	1997	Rabi	Jammu and Kashmir	239344.0	392160	1356.2	22778368.48	74196.64	1.261818

In []:

Check the number of rows and columns :-

In [8]:

```
# number of rows and columns
```

```
print("Shape of the dataset : ",df.shape)
```

```
Shape of the dataset : (19689, 10)
```

In []:

Checking data types :-

```
In [9]: # Checking data types
```

```
df.dtypes
```

```
Out[9]: Crop          object  
Crop_Year      int64  
Season         object  
State          object  
Area           float64  
Production     int64  
Annual_Rainfall float64  
Fertilizer     float64  
Pesticide      float64  
Yield           float64  
dtype: object
```

In []:

Getting some informations about the dataset :-

```
In [10]: # Getting some informations about the dataset
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 19689 entries, 0 to 19688
Data columns (total 10 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Crop              19689 non-null   object  
 1   Crop_Year         19689 non-null   int64  
 2   Season            19689 non-null   object  
 3   State             19689 non-null   object  
 4   Area              19689 non-null   float64 
 5   Production        19689 non-null   int64  
 6   Annual_Rainfall  19689 non-null   float64 
 7   Fertilizer        19689 non-null   float64 
 8   Pesticide         19689 non-null   float64 
 9   Yield              19689 non-null   float64 
dtypes: float64(5), int64(2), object(3)
memory usage: 1.5+ MB
```

In []:

Check the duplicate records :-

```
In [11]: # Check the duplicate records
df.duplicated().sum()
```

Out[11]: 0

In []:

Check the all columns :-

```
In [12]: # Check the all columns
df.columns
```

```
Out[12]: Index(['Crop', 'Crop_Year', 'Season', 'State', 'Area', 'Production',
       'Annual_Rainfall', 'Fertilizer', 'Pesticide', 'Yield'],
      dtype='object')
```

```
In [ ]:
```

Statistical Measures of the dataset :-

```
In [13]: # statistical Measures of the dataset
```

```
pd.options.display.float_format = '{:.2f}'.format
df.describe(include=[ "int64", "float64"]).T
```

```
Out[13]:
```

	count	mean	std	min	25%	50%	75%	max
Crop_Year	19689.00	2009.13	6.50	1997.00	2004.00	2010.00	2015.00	2020.00
Area	19689.00	179926.57	732828.68	0.50	1390.00	9317.00	75112.00	50808100.00
Production	19689.00	16435941.27	263056839.81	0.00	1393.00	13804.00	122718.00	6326000000.00
Annual_Rainfall	19689.00	1437.76	816.91	301.30	940.70	1247.60	1643.70	6552.70
Fertilizer	19689.00	24103312.45	94946004.48	54.17	188014.62	1234957.44	10003847.20	4835406877.00
Pesticide	19689.00	48848.35	213287.35	0.09	356.70	2421.90	20041.70	15750511.00
Yield	19689.00	79.95	878.31	0.00	0.60	1.03	2.39	21105.00

```
In [ ]:
```

```
In [14]: df.describe(include=[ "object"]).T
```

```
Out[14]:
```

	count	unique	top	freq
Crop	19689	55	Rice	1197
Season	19689	6	Kharif	8232
State	19689	30	Karnataka	1432

```
In [ ]:
```

Check the categorical columns :-

```
In [15]: # Check the categorical columns
```

```
obj_df = df.select_dtypes(include=[object]).columns
```

```
In [16]: obj_df
```

```
Out[16]: Index(['Crop', 'Season', 'State'], dtype='object')
```

```
In [ ]:
```

Check the numerical data :-

```
In [17]: # Check the numerical data
```

```
numerical_data=df.select_dtypes(include=['float64','int64']).columns.tolist()
```

```
In [18]: numerical_data
```

```
Out[18]: ['Crop_Year',
          'Area',
          'Production',
          'Annual_Rainfall',
          'Fertilizer',
          'Pesticide',
          'Yield']
```

```
In [ ]:
```

SEPARATE NUMERICAL AND CATEGORICAL VARIABLES:-

```
In [19]: numerical_data = df.select_dtypes(include=[np.number])
numerical_data.head()
```

```
Out[19]:
```

	Crop_Year	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
0	1997	73814.00	56708	2051.40	7024878.38	22882.34	0.80
1	1997	6637.00	4685	2051.40	631643.29	2057.47	0.71
2	1997	796.00	22	2051.40	75755.32	246.76	0.24
3	1997	19656.00	126905000	2051.40	1870661.52	6093.36	5238.05
4	1997	1739.00	794	2051.40	165500.63	539.09	0.42

```
In [ ]:
```

```
In [20]: categorical_data = df.select_dtypes(exclude=[np.number])
categorical_data.head()
```

Out[20]:

	Crop	Season	State
0	Arecanut	Whole Year	Assam
1	Arhar/Tur	Kharif	Assam
2	Castor seed	Kharif	Assam
3	Coconut	Whole Year	Assam
4	Cotton(lint)	Kharif	Assam

In []:

CORRELATION MATRIX OF NUMERICAL DATA:-

In [21]: `numerical_data.corr()`

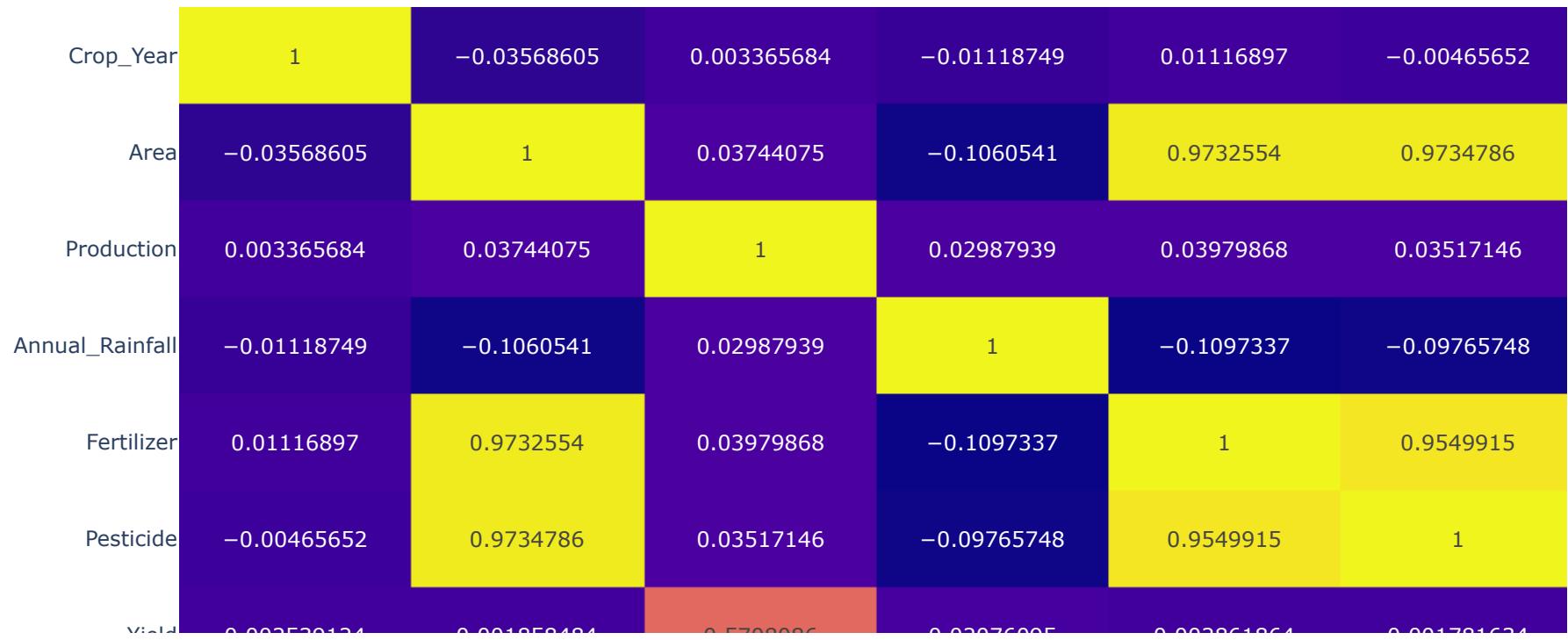
Out[21]:

	Crop_Year	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
Crop_Year	1.00	-0.04	0.00	-0.01	0.01	-0.00	0.00
Area	-0.04	1.00	0.04	-0.11	0.97	0.97	0.00
Production	0.00	0.04	1.00	0.03	0.04	0.04	0.57
Annual_Rainfall	-0.01	-0.11	0.03	1.00	-0.11	-0.10	0.02
Fertilizer	0.01	0.97	0.04	-0.11	1.00	0.95	0.00
Pesticide	-0.00	0.97	0.04	-0.10	0.95	1.00	0.00
Yield	0.00	0.00	0.57	0.02	0.00	0.00	1.00

In []:

VISUALIZATION OF CORRELATION HEATMAP:-

```
In [22]: import plotly.express as px  
  
fig = px.imshow(numerical_data.corr(),text_auto = True,aspect="auto")  
fig.show()
```



```
In [ ]:
```

Observation :-

- 1.Crop Year:- It has almost No Correlation with any other variable.
- 2.Area And Fertilizer/Pesticide:- Area shows a Strong Positive Correlation with Fertilizer(0.97) and Pesticide(0.97).
- 3.Production And Yield:- Production has a Moderate Positive Correlation with Yield(0.57).
Yield shows no significant correlation with other variables except Production.
- 4.Annual Rainfall:- Weak Correlation with most variables, indicating that rainfall variability might not directly influence these factors significantly in the dataset.
- 5.Fertilizer And Pesticide:- A Very Strong Correlation(0.95), implying these two variables tend to move together,
possibly due to integrated farming practices.

In []:

Insights For Action :-

- 1).Strong Correlation(e.g, Area-Fertilizer And Area-Pesticide) could indicate a need to investigate cost-effectiveness ecological impacts of input usage in large farming areas.
- 2).The Moderate Production-Yield Correlation suggest potential room for optimization to increase production further by addressing unstatistical model.

In []:

checking for missing values :-

```
In [23]: # checking for missing values  
  
df.isnull().sum()
```

```
Out[23]: Crop          0  
Crop_Year       0  
Season          0  
State           0  
Area            0  
Production      0  
Annual_Rainfall 0  
Fertilizer      0  
Pesticide       0  
Yield            0  
dtype: int64
```

```
In [ ]:
```

Count of unique Values in the columns :-

```
In [24]: # to check the unique values  
for i in df.columns:  
    print("*****",i,"*****")  
    print()  
    print(set(df[i].tolist()))  
    print()
```

***** Crop *****

{'Garlic', 'Maize', 'Other Kharif pulses', 'other oilseeds', 'Peas & beans (Pulses)', 'Sweet potato', 'Rice', 'Safflower', 'Khesari', 'Sesamum', 'Sunflower', 'Oilseeds total', 'Moth', 'Other Cereals', 'Black pepper', 'Castor seed', 'Banana', 'Masoor', 'Cowpea(Lobia)', 'Moong(Green Gram)', 'Niger seed', 'Onion', 'Tapioca', 'Barley', 'Coconut ', 'Mesta', 'Cashewnut', 'Tobacco', 'Rapeseed &Mustard', 'Wheat', 'Dry chillies', 'Gram', 'Other Summer Pulses', 'Sannhamp', 'Arhar/Tur', 'Bajra', 'Ginger', 'Arecanut', 'Other Rabi pulses', 'Groundnut', 'Linseed', 'Sugarcane', 'Turmeric', 'Jowar', 'Cardamom', 'Ragi', 'Cotton(lint)', 'Urad', 'Horse-gram', 'Jute', 'Guar seed', 'Soyabean', 'Small millets', 'Coriander', 'Potato'}

***** Crop_Year *****

{1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020}

***** Season *****

{'Summer ', 'Autumn ', 'Rabi ', 'Winter ', 'Kharif ', 'Whole Year '}

***** State *****

{'Andhra Pradesh', 'Chhattisgarh', 'Uttarakhand', 'Goa', 'Nagaland', 'Odisha', 'Uttar Pradesh', 'Assam', 'Haryana', 'Gujarat', 'Maharashtra', 'Kerala', 'Puducherry', 'Tripura', 'Tamil Nadu', 'Jharkhand', 'Arunachal Pradesh', 'Jammu and Kashmir', 'Madhya Pradesh', 'Telangana', 'Bihar', 'Meghalaya', 'Manipur', 'Sikkim', 'Karnataka', 'West Bengal', 'Punjab', 'Himachal Pradesh', 'Mizoram', 'Delhi'}

***** Area *****

{0.5, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 426000.0, 16.0, 17.0, 18.0, 20.0, 21.0, 22.0, 23.0, 393240.0, 25.0, 26.0, 27.0, 65560.0, 29.0, 30.0, 32799.0, 32.0, 33.0, 31.0, 35.0, 34.0, 37.0, 36.0, 39.0, 40.0, 41.0, 38.0, 43.0, 44.0, 45.0, 42.0, 47.5, 48.0, 49.0, 50.0, 51.0, 52.0, 53.0, 54.0, 55.0, 56.0, 57.0, 58.0, 59.0, 60.0, 61.0, 62.0, 63.0, 64.0, 65.0, 66.0, 131139.0, 68.0, 67.0, 69.0, 71.0, 72.0, 70.66, 74.0, 75.0, 76.0, 77.0, 78.0, 79.0, 80.0, 15.5, 82.0, 83.0, 84.0, 85.0, 86.0, 87.0, 88.0, 86.5, 90.0, 91.0, 92.0, 93.0, 89.0, 95.0, 94.0, 97.0, 19.0, 99.0, 100.0, 101.0, 102.0, 103.0, 104.326, 105.0, 100.9, 107.0, 104.0, 109.0, 110.0, 111.0, 112.0, 113.0, 114.0, 557169.0, 116.0, 117.0, 118.0, 119.0, 120.0, 121.0, 24.0, 122.0, 124.0, 125.0, 126.0, 127.0, 128.0, 3408000.0, 129.0, 131.0, 5.5, 133.0, 134.0, 135.0, 131207.0, 137.0, 138.0, 138.5, 140.0, 141.0, 142.0, 143.0, 144.0, 145.0, 146.0, 147.0, 148.0, 149.0, 150.0, 151.0, 152.0, 153.0, 154.0, 155.0, 156.0, 157.0, 158.0, 159.0, 160.0, 491681.0, 162.0, 163.0, 557220.0, 164.0, 164003.0, 165.0, 168.0, 166.0, 170.0, 171.0, 172.0, 173.0, 174.0, 175.0, 176.0, 884913.0, 178.0, 178.696, 180.0, 179.0, 182.0, 183.0, 184.0, 185.0, 186.0, 187.0, 188.0, 189.0, 190.0, 191.0, 187.3, 193.0, 194.0, 195.0, 196.0, 197.0, 196.56, 199.0, 200.0, 201.0, 202.0, 203.0, 204.0, 205.0, 206.0, 207.0, 208.0, 209.0, 210.0, 210.41, 212.0, 213.0, 214.0, 215.0, 207.94, 217.0, 211.0, 219.0, 220.0, 221.0, 222.0, 32989.0, 224.0, 225.0, 226.0, 227.0, 224.7, 164069.0, 230.0, 65767.0, 232.0, 33000.0, 231.0, 65771.0, 233.0, 237.0, 47.0, 239.0, 239.104, 241.0, 242.0, 243.0, 244.0, 245.0, 246.0, 238.0, 248.0, 249.0, 250.0, 251.0, 252.0, 65789.0, 33013.0, 255.0, 256.0, 257.0, 258.0, 259.0, 260.0}

0, 261.0, 262.0, 263.0, 65800.0, 265.0, 266.0, 267.0, 268.0, 269.0, 270.0, 271.0, 272.0, 273.0, 274.0, 275.0, 276.0, 590100.0, 278.0, 279.0, 196888.0, 280.0, 282.0, 283.0, 284.0, 285.0, 286.0, 287.0, 288.0, 281.0, 290.0, 291.0, 292.0, 293.0, 294.0, 295.0, 296.0, 297.0, 298.0, 299.0, 300.0, 302.0, 131376.0, 305.0, 306.0, 304.0, 308.0, 307.0, 310.0, 311.0, 312.0, 313.0, 314.0, 315.0, 316.0, 317.0, 318.0, 33083.0, 320.0, 321.0, 33088.0, 323.0, 324.0, 325.0, 319.0, 327.0, 328.0, 131400.0, 330.0, 329.0, 332.0, 333.0, 33102.0, 335.0, 336.0, 164169.0, 338.0, 98643.0, 339.0, 341.0, 342.0, 340.0, 344.0, 295256.0, 346.0, 338.45, 348.0, 349.0, 350.0, 351.0, 343.0, 353.0, 354.0, 70.0, 356.0, 357.0, 358.0, 359.0, 360.0, 361.0, 362.0, 33124.0, 65893.0, 365.0, 363.0, 366.0, 33136.0, 328048.0, 369.0, 371.0, 370.0, 33141.0, 374.0, 373.0, 376.0, 377.657, 377.0, 379.0, 380.0, 381.0, 382.0, 383.0, 378.0, 385.0, 386.0, 387.0, 388.0, 389.0, 390.0, 391.0, 33158.0, 393.0, 394.0, 395.0, 197000.0, 396.0, 398.0, 399.0, 78683.1.0, 400.0, 402.0, 393619.0, 403.0, 405.0, 406.0, 404.0, 81.0, 409.0, 33178.0, 410.0, 411.0, 407.0, 414.0, 415.0, 983456.0, 416.0, 33184.0, 418.0, 419.0, 421.0, 422.0, 420.0, 423.0, 425.0, 417.0, 427.0, 428.0, 429.0, 430.0, 431.0, 2654636.0, 433.0, 65970.0, 434.0, 436.0, 65972.0, 438.0, 439.0, 440.0, 295351.0, 442.0, 443.0, 65980.0, 444.0, 446.0, 441.0, 448.0, 449.0, 450.0, 451.0, 452.0, 453.0, 33220.0, 455.0, 456.0, 457.0, 458.0, 262595.0, 460.0, 33229.0, 462.0, 463.0, 464.0, 66000.0, 466.0, 164300.0, 468.0, 469.0, 465.0, 471.0, 470.0, 473.0, 467.0, 475.0, 476.0, 477.0, 478.0, 472.0, 480.0, 481.0, 623072.0, 483.0, 484.0, 33253.0, 486.0, 96.0, 485.0, 489.0, 490.0, 491.0, 487.0, 493.0, 494.0, 492.0, 496.0, 495.0, 498.0, 499.0, 500.0, 501.0, 426486.0, 1442288.0, 504.0, 505.0, 506.0, 507.0, 508.0, 505.2, 510.0, 511.0, 512.0, 513.0, 514.0, 515.0, 516.0, 517.0, 518.81, 519.0, 33288.0, 520.0, 521.0, 523.0, 518.0, 525.0, 526.0, 527.0, 528.0, 131600.0, 530.0, 531.0, 529.0, 533.0, 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668.0, 669.0, 670.0, 33439.0, 1573535.0, 673.0, 674.0, 688800.0, 672.0, 98981.0, 678.0, 671.0, 680.0, 681.0, 682.0, 683.0, 684.0, 685.0, 686.0, 687.0, 295600.0, 136.0, 690.86, 690.0, 33460.0, 693.0, 689.0, 695.0, 696.0, 697.0, 230073.0, 66235.0, 33468.0, 700.0, 702.0, 33467.0, 139.0, 699.0, 28.0, 707.0, 708.0, 709.0, 710.0, 711.0, 33480.0, 713.0, 131779.0, 262854.0, 716.0, 714.0, 718.0, 719.0, 720.0, 721.0, 197322.0, 723.0, 724.0, 725.0, 33494.0, 727.0, 393944.0, 728.0, 730.0, 729.0, 732.0, 33501.0, 731.0, 131803.0, 729.31, 737.0, 738.0, 99043.0, 295651.0, 740.0, 742.0, 743.0, 33512.0, 744.0, 99047.0, 747.0, 748.0, 459500.0, 750.0, 751.0, 745.0, 753.0, 754.0, 755.0, 557812.0, 262900.0, 758.0, 759.0, 760.0, 756.0, 99066.0, 762.0, 764.0, 763.0, 766.0, 765.3, 768.0, 762.5, 770.0, 771.0, 772.0, 774.0, 775.0, 776.0, 777.0, 778.0, 779.0, 780.0, 781.0, 782.0, 783.0, 784.0, 785.0, 786.0, 788.0, 789.0, 790.0, 791.0, 792.0, 99097.0, 794.0, 793.0, 796.0, 797.0, 798.0, 799.0, 800.0, 801.0, 802.0, 803.0, 804.0, 33572.0, 806.0, 33575.0, 808.0, 807.0, 810.0, 811.0, 812.0, 813.0, 814.0, 815.0, 816.0, 817.0, 818.0, 161.0, 820.0, 99125.71, 822.0, 823.0, 824.0, 825.0, 295734.0, 827.0, 828.0, 829.0, 830.0, 831.0, 832.0, 33600.0, 834.0, 835.0, 836.0, 837.0, 33599.0, 838.0, 840.0, 841.0, 33610.0, 843.0, 167.0, 29553.0, 846.0, 847.0, 848.0, 849.0, 850.0, 851.0, 852.0, 853.0, 854.0, 855.0, 856.0, 263000.0, 857.0, 859.0, 860.0, 861.0, 862.0, 863.0, 164703.0, 865.0, 99168.0, 864.0, 33636.0, 66400.0, 870.0, 871.0, 872.0, 873.0, 874.0, 394083.0, 869.0, 877.0, 878.0, 879.0, 33646.0, 881.0, 882.0, 883.0, 884.0, 880.0, 886.0, 99190.0, 888.0, 889.0, 890.0, 891.0, 892.0, 887.0, 894.0, 895.0, 896.0, 897.0, 898.0, 899.0, 900.0, 893.0, 902.0, 903.0, 904.0, 901.0, 906.0, 33674.0, 33676.0, 908.0, 910.0, 911.0, 912.0, 913.0, 909.0, 181.0, 916.0, 917.0, 295830.0, 33685.0, 918.0, 921.0, 263066.0, 922.0, 919.0, 1246109.0, 923.0, 927.0, 132000.0, 929.0, 930.0, 931.0, 932.0, 33701.0, 934.0, 33700.0, 933.0, 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1472.0, 1473.0, 34235.0, 1475.0, 1476.0, 1477.0, 2655684.0, 1479.0, 1480.0, 1481.0, 918984.0, 99787.0, 132555.0, 1483.0, 1484.0, 1487.0, 1488.0, 1482.0, 1490.0, 165330.0, 1017300.0, 1493.0, 1495.0, 1498.0, 1499.0, 1500.0, 1501.0, 296414.0, 1502.0, 1504.0, 1505.0, 1506.0, 34273.0, 1508.0, 1509.0, 1512.0, 1513.0, 1515.0, 1517.06, 1518.0, 1519.0, 1520.0, 99825.0, 9733617.0, 1523.0, 230900.0, 1522.0, 67062.0, 263671.0, 34296.0, 263673.0, 99833.5, 1527.0, 1532.826, 1526.0, 1534.0, 1532.0, 1535.0, 1537.0, 1538.0, 1531.0, 1540.0, 32870.0, 1542.0, 1543.0, 1544.0, 34313.0, 1546.0, 1547.0, 1548.0, 1279500.0, 1550.0, 1551.0, 1552.0, 1549.0, 1554.0, 1555.0, 1556.0, 263700.0, 1558.8, 99863.0, 1560.0, 1561.0, 1562.0, 1559.0, 1564.0, 67100.0, 165406.0, 1568.0, 1569.0, 1570.0, 1571.0, 34339.0, 329255.0, 1576.0, 1577.0, 1578.3, 34347.0, 1580.0, 34349.0, 1579.0, 1583.0, 1584.0, 1578.0, 1585.0, 1586.0, 1588.0, 1589.0, 1590.0, 1591.0, 1592.0, 1593.0, 9668152.0, 1595.0, 99900.0, 1597.0, 1598.0, 1596.0, 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```
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5714286, 3.395714286, 3.381333333, 3.020714286, 0.6844}
```

In []:

COUNT DETAILS OF EACH CROP YEAR :-

```
In [25]: df['Crop_Year'].value_counts(ascending=False)
```

```
Out[25]: Crop_Year  
2019    1079  
2017    1070  
2018    1063  
2016    1036  
2015    998  
2013    976  
2014    965  
2011    907  
2012    894  
2009    865  
2010    859  
2008    847  
2007    828  
2006    823  
2002    815  
2005    811  
2003    801  
2004    787  
2000    772  
2001    750  
1999    650  
1998    646  
1997    410  
2020     37  
Name: count, dtype: int64
```

Insufficient Records For Year 2020

In []:

REMOVE RECORDS FOR YEAR 2020 :-

In [26]: `df = df[df['Crop_Year'] != 2020]`

In [27]: `df.head()`

Out[27]:

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
0	Arecanut	1997	Whole Year	Assam	73814.00	56708	2051.40	7024878.38	22882.34	0.80
1	Arhar/Tur	1997	Kharif	Assam	6637.00	4685	2051.40	631643.29	2057.47	0.71
2	Castor seed	1997	Kharif	Assam	796.00	22	2051.40	75755.32	246.76	0.24
3	Coconut	1997	Whole Year	Assam	19656.00	126905000	2051.40	1870661.52	6093.36	5238.05
4	Cotton(lint)	1997	Kharif	Assam	1739.00	794	2051.40	165500.63	539.09	0.42

In []:

COUNT DETAILS FOR EACH CROPS :-

In [28]: `df['Crop'].value_counts(ascending=False)`

Out[28]:	Crop
Rice	1195
Maize	973
Moong(Green Gram)	738
Urad	731
Groundnut	724
Sesamum	684
Potato	626
Sugarcane	604
Wheat	544
Rapeseed &Mustard	527
Bajra	524
Jowar	513
Arhar/Tur	507
Ragi	497
Gram	489
Small millets	484
Cotton(lint)	476
Onion	453
Sunflower	439
Dry chillies	419
Other Kharif pulses	381
Horse-gram	370
Peas & beans (Pulses)	368
Tobacco	363
Other Rabi pulses	354
Soyabean	348
Turmeric	336
Ginger	323
Masoor	323
Linseed	308
Castor seed	300
Barley	296
Sweet potato	273
Garlic	249
Banana	245
Mesta	210
Tapioca	201
Coriander	199
Niger seed	192

```
Jute           181
Coconut        172
Safflower      169
Arecanut       162
Sannhamp       160
Other Cereals  144
Cowpea(Lobia) 134
Cashewnut      134
Black pepper   126
other oilseeds 124
Moth           109
Khesari         75
Cardamom        74
Guar seed       63
Oilseeds total 29
Other Summer Pulses 10
Name: count, dtype: int64
```

In []:

COUNT DETAILS FOR EACH SEASON :-

```
In [29]: df['Season'].value_counts(ascending=False)
```

```
Out[29]: Season
Kharif        8215
Rabi          5732
Whole Year    3712
Summer         1190
Autumn         414
Winter         389
Name: count, dtype: int64
```

In []:

COUNT DETAILS FOR EACH STATE :-

```
In [30]: df['State'].value_counts(ascending=False)
```

```
Out[30]: State
Karnataka      1432
Andhra Pradesh 1266
West Bengal    1094
Chhattisgarh   915
Bihar          896
Madhya Pradesh 845
Uttar Pradesh   825
Tamil Nadu     822
Gujarat         817
Maharashtra    770
Odisha          760
Assam           731
Uttarakhand    727
Nagaland        689
Puducherry     670
Meghalaya      649
Haryana         631
Jammu and Kashmir 631
Himachal Pradesh 616
Kerala          534
Manipur          444
Tripura          441
Mizoram          416
Telangana        397
Punjab           397
Arunachal Pradesh 292
Jharkhand        270
Goa               246
Sikkim           226
Delhi             203
Name: count, dtype: int64
```

```
In [ ]:
```

CROP YIELD PER STATE :-

```
In [31]: df_state_sort=df.groupby('State',as_index=False)[ 'Yield'].sum().sort_values(by='Yield',ascending=False)
df_state_sort
```

Out[31]:

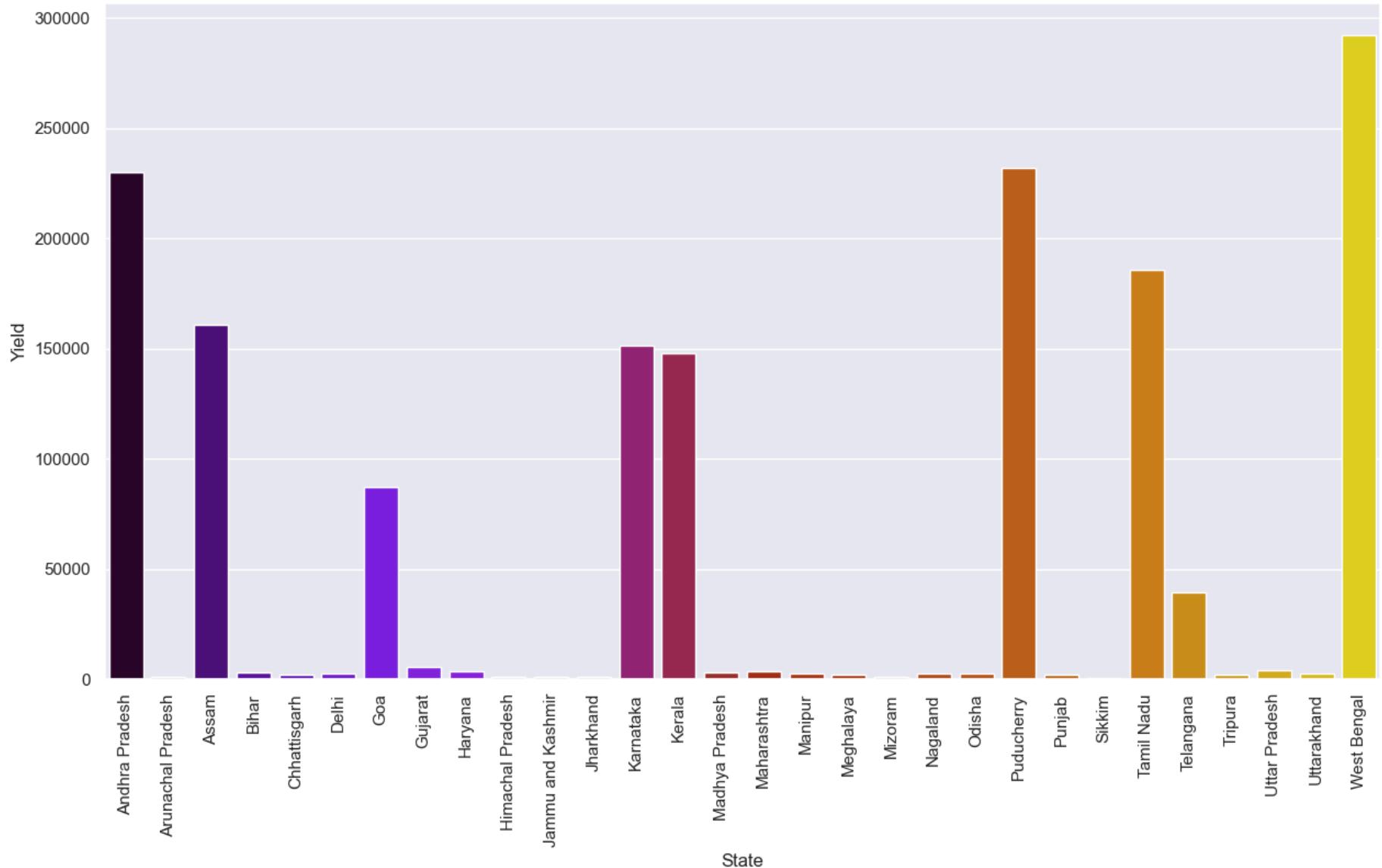
	State	Yield
29	West Bengal	291986.75
21	Puducherry	232163.60
0	Andhra Pradesh	229735.18
24	Tamil Nadu	185813.28
2	Assam	160612.65
12	Karnataka	151391.87
13	Kerala	147710.35
6	Goa	87275.96
25	Telangana	39508.73
7	Gujarat	5471.63
27	Uttar Pradesh	4168.82
8	Haryana	3491.15
15	Maharashtra	3388.79
3	Bihar	3114.94
14	Madhya Pradesh	2921.85
28	Uttarakhand	2690.16
5	Delhi	2663.09
20	Odisha	2387.35
19	Nagaland	2344.35
16	Manipur	2316.35
22	Punjab	1926.57
26	Tripura	1891.46

	State	Yield
17	Meghalaya	1868.33
4	Chhattisgarh	1799.56
9	Himachal Pradesh	1170.09
1	Arunachal Pradesh	1090.64
18	Mizoram	1068.81
11	Jharkhand	974.63
10	Jammu and Kashmir	825.38
23	Sikkim	278.63

In []:

VISUALIZATION OF CROP YIELD PER STATE :-

```
In [32]: df_state=df.groupby('State',as_index=False)[['Yield']].sum()
plt.figure(figsize = (15,8))
sns.barplot(x = df_state['State'], y=df_state['Yield'], palette = 'gnuplot')
plt.xticks(rotation = 90)
plt.show()
```

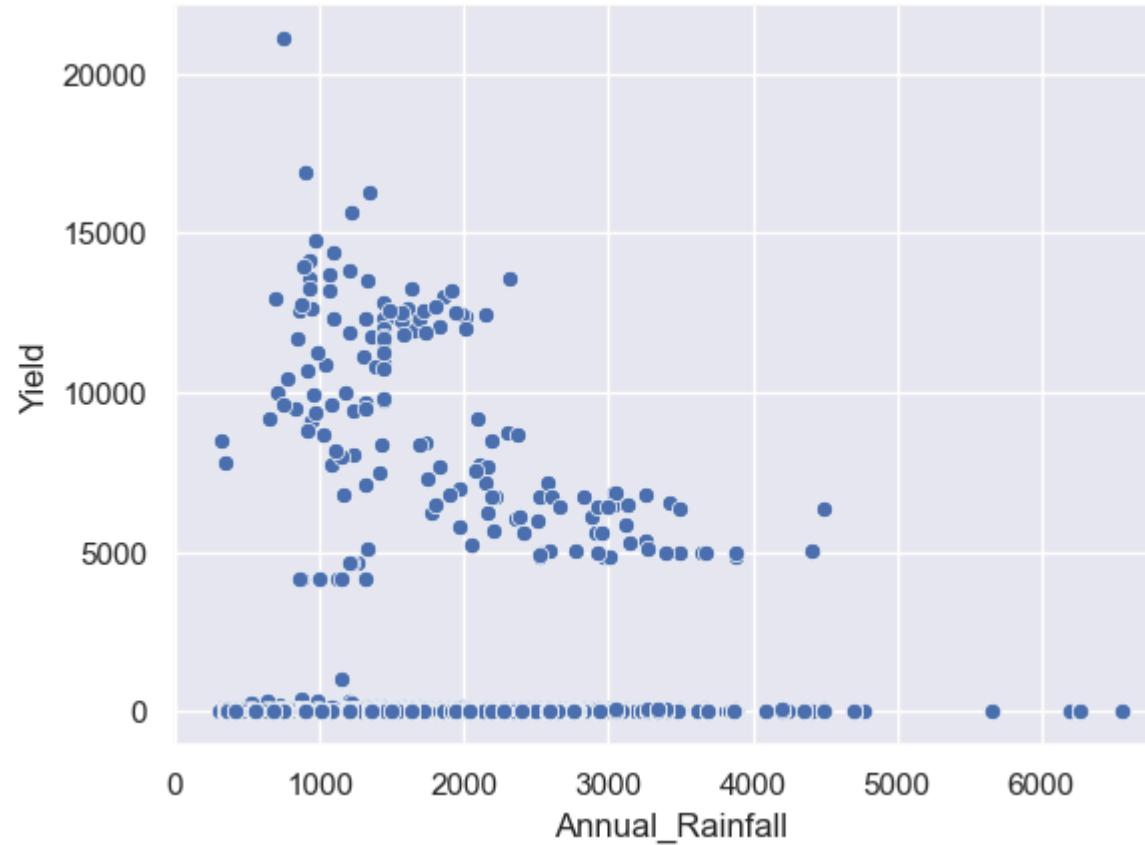


In []:

VISUALIZATION :-

```
In [33]: sns.scatterplot(x = df['Annual_Rainfall'], y = df['Yield'])
plt.show
```

```
Out[33]: <function matplotlib.pyplot.show(close=None, block=None)>
```



```
In [ ]:
```

YEAR WISE ANALYSIS OF AGRICULTURAL PRODUCTION :-

```
In [34]: df_year = df[df['Crop_Year']!=2020] # As the data of 2020 is incomplete
```

```
In [35]: year_yield = df_year.groupby('Crop_Year').sum()  
year_yield
```

Out[35]:

Crop_Year		Crop	Season		State	Area
1997	ArecanutArhar/TurCastor seedCoconut Cotton(lin...		Whole Year Kharif Kharif Whole Year Kh...	Assam Assam Assam Assam Assam Assam Assam Assam A...	166068574.00	
1998	ArecanutBajraBlack pepperCorianderCotton(lint)...		Kharif Kharif Kharif Kharif Su...	Puducherry Puducherry Puducherry Puducherry Puduch...	150123778.00	
1999	ArecanutArhar/TurBananaCastor seedCoconut Cott...		Whole Year Kharif Whole Year Kharif Wh...	Assam Assam Assam Assam Assam Assam Assam Assam A...	147057393.00	
2000	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...		Whole Year Kharif Rabi Kharif Ra...	Andhra Pradesh Andhra Pradesh Andhra Pradesh Andh...	147527729.00	
2001	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...		Whole Year Kharif Rabi Kharif Ra...	Andhra Pradesh Andhra Pradesh Andhra Pradesh Andh...	145694329.67	
2002	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...		Whole Year	Andhra Pradesh Andhra Pradesh Andhra Pradesh Andh...	142785766.81	

Crop_Year	Crop	Season	State	Area
		Kharif Rabi Kharif Ra...		
2003	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...	Whole Year Kharif Rabi Kharif Ra...	Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh	149696843.14
2004	ArecanutArhar/TurBajraBajraBajraBananaBlack pe...	Whole Year Kharif Kharif Rabi Su...	Karnataka Karnataka Karnataka Karnataka Karnataka	148024472.96
2005	ArecanutArhar/TurBajraBajraBananaCashewnutCast...	Whole Year Kharif Kharif Rabi Wh...	Andhra Pradesh Andhra Pradesh Andhra Pradesh Andhra Pradesh	147918314.26
2006	ArecanutArecanutBananaBlack pepperCotton(lint)...	Kharif Whole Year Kharif Kharif Su...	Puducherry Puducherry Puducherry Puducherry Puduch...	152249118.13
2007	Areca nutBajraBananaBlack pepperCoconut Coriand...	Kharif Kharif Kharif Kharif Wh...	Puducherry Puducherry Puducherry Puducherry Puduch...	152486069.30

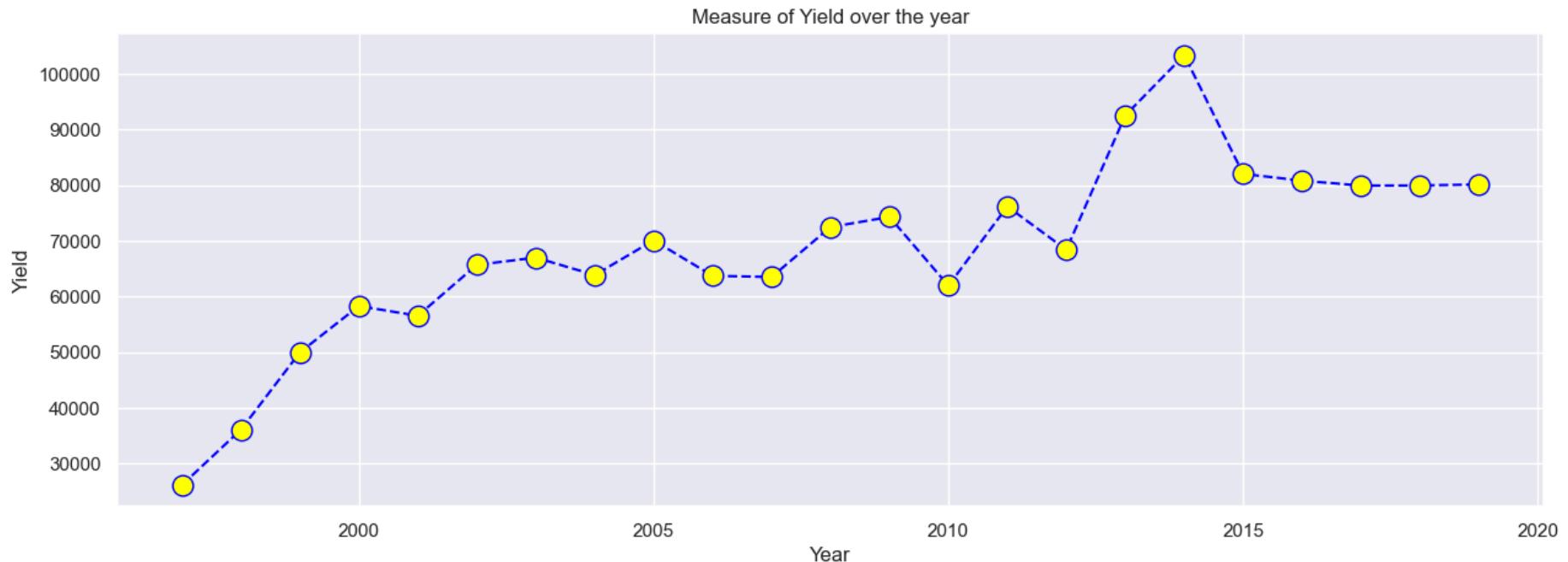
Crop_Year		Crop	Season	State	Area
2008		ArecanutBajraBajraBananaBlack pepperCashewnutC...	Kharif Kharif Summer Kharif Kh...	PuducherryPuducherryPuducherryPuducherryPuduch...	150964656.52
2009		ArecanutBajraBajraBananaBlack pepperCashewnutC...	Kharif Kharif Summer Kharif Kh...	PuducherryPuducherryPuducherryPuducherryPuduch...	148668461.00
2010		ArecanutBajraBajraBananaBlack pepperCashewnutC...	Kharif Kharif Summer Kharif Kh...	PuducherryPuducherryPuducherryPuducherryPuduch...	158189369.10
2011		ArecanutBajraBajraBananaBlack pepperCashewnutC...	Kharif Kharif Summer Kharif Kh...	PuducherryPuducherryPuducherryPuducherryPuduch...	154412050.28
2012	ArecanutArhar/TurBajraBajraCashewnutCastor see...		Kharif Kharif Kharif Rabi Kh...	Andhra PradeshAndhra PradeshAndhra PradeshAndh...	158536017.20
2013	ArecanutArhar/TurArhar/TurBajraBajraBananaBlac...		Kharif Kharif Rabi Kharif Ra...	Andhra PradeshAndhra PradeshAndhra PradeshAndh...	157564435.29
2014	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...		Kharif Kharif	Andhra PradeshAndhra PradeshAndhra PradeshAndh...	154436550.86

Crop_Year	Crop	Season	State	Area
		Rabi Kharif Ra...		
2015	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...	Kharif Kharif Rabi Kharif Ra...	Andhra PradeshAndhra PradeshAndhra PradeshAndhra Pradesh	155935936.92
2016	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...	Kharif Kharif Rabi Kharif Ra...	Andhra PradeshAndhra PradeshAndhra PradeshAndhra Pradesh	160364906.17
2017	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...	Kharif Kharif Rabi Kharif Ra...	Andhra PradeshAndhra PradeshAndhra PradeshAndhra Pradesh	162500116.61
2018	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...	Kharif Kharif Rabi Kharif Ra...	Andhra PradeshAndhra PradeshAndhra PradeshAndhra Pradesh	161359528.15
2019	ArecanutArhar/TurArhar/TurBajraBajraBananaBlac...	Kharif Kharif Rabi Kharif Ra...	Andhra PradeshAndhra PradeshAndhra PradeshAndhra Pradesh	169091910.43

In []:

VISUALIZATION OF YIELD OVER THE YEAR :-

```
In [36]: plt.figure(figsize = (15,5))
plt.plot(year_yield.index, year_yield['Yield'],color='blue', linestyle='dashed', marker='o',
         markersize=12, markerfacecolor='yellow')
plt.xlabel('Year')
plt.ylabel('Yield')
plt.title('Measure of Yield over the year')
plt.show()
```

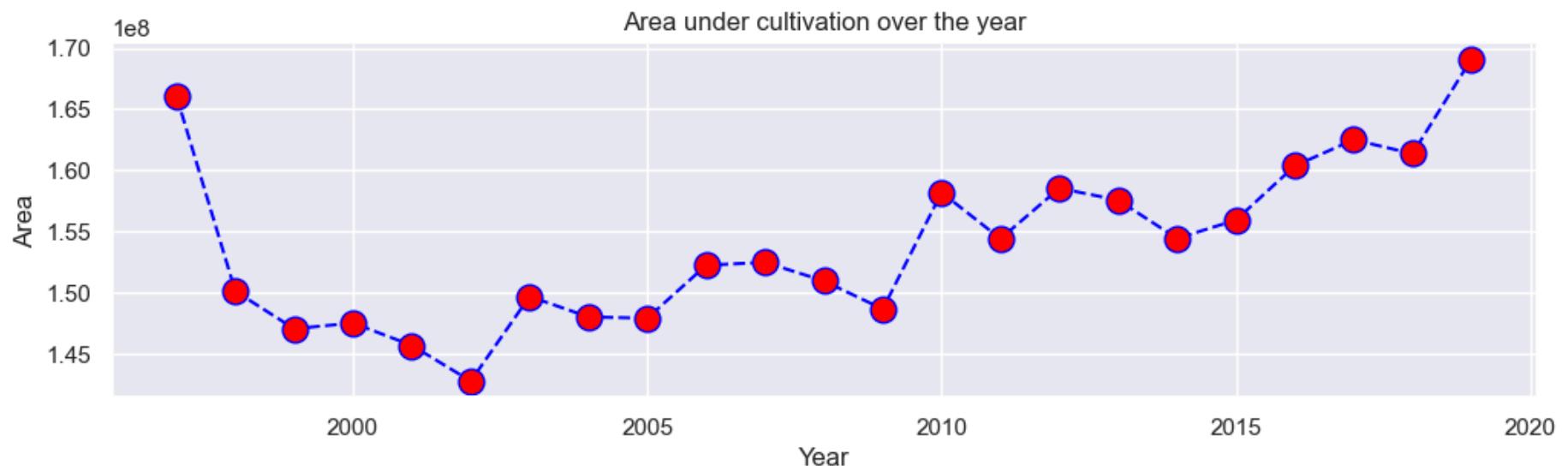


It can be observed that the yield has increased over the year, but after 2014 it is showing the declining trend. Reasons can be climate change, decrease in soil fertility.

```
In [ ]:
```

VISUALIZATION OF AREA UNDER CULTIVATION OVER THE YEAR :-

```
In [37]: plt.figure(figsize = (12,3))
plt.plot(year_yield.index, year_yield['Area'],color='blue', linestyle='dashed', marker='o',
         markersize=12, markerfacecolor='red')
plt.xlabel('Year')
plt.ylabel('Area')
plt.title('Area under cultivation over the year')
plt.show()
```



It can be observed that the area under cultivation has increased substantially. Either with the help of fertilizer and more irrigation fallow land is now under cultivation or area under forest is used for agriculture.

```
In [ ]:
```

VISUALIZATION OF USE OF FERTILIER OVER THE YEAR :-

```
In [38]: plt.figure(figsize = (12,3))
plt.plot(year_yield.index, year_yield['Fertilizer'], color='blue', linestyle='dashed', marker='o',
         markersize=12, markerfacecolor='green')
plt.xlabel('Year')
plt.ylabel('Fertilizer')
plt.title('Use of Fertilizer over the year')
plt.show()
```



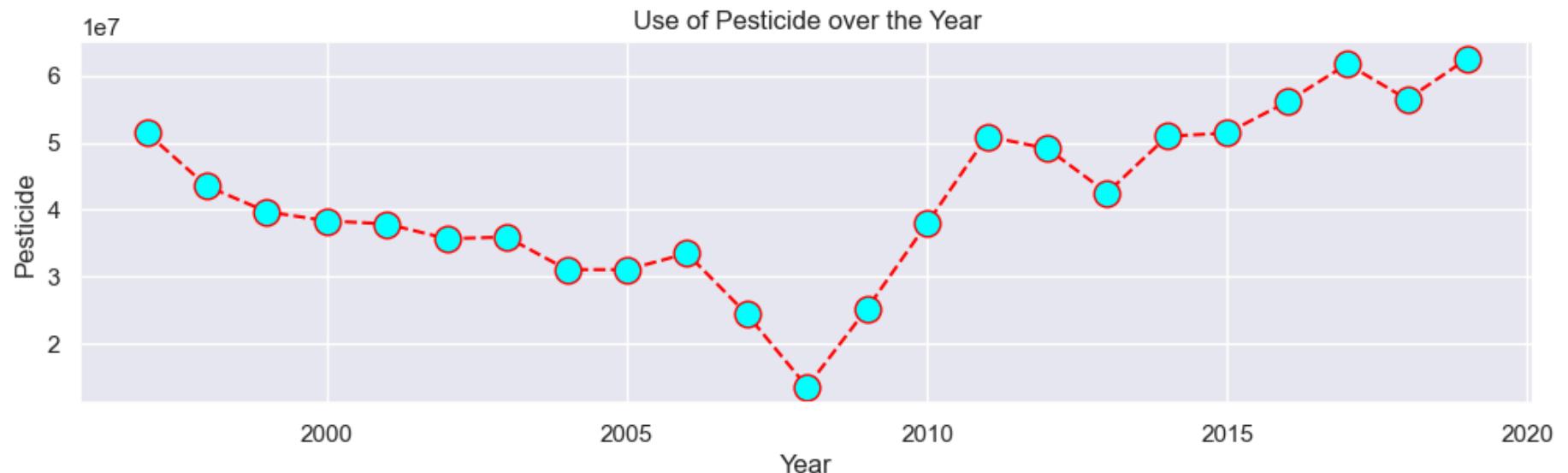
The use of Fertilizer in the fields is increasing.

```
In [ ]:
```

VISUALIZATION OF USE OF PESTICIDE OVER THE YEAR :-

```
In [39]: plt.figure(figsize = (12,3))
plt.plot(year_yield.index, year_yield['Pesticide'], color='red', linestyle='dashed', marker='o',
         markersize=12, markerfacecolor='cyan')
plt.xlabel('Year')
plt.ylabel('Pesticide')
```

```
plt.title('Use of Pesticide over the Year')
plt.show()
```



In []:

STATE WISE ANALYSIS OF AGRICULTURAL PRODUCTION :-

In []:

```
In [40]: df_state = df.groupby('State').sum()
df_state.sort_values(by = 'Yield', inplace=True, ascending = False)
df_state
```

Out[40]:

		Crop	Crop_Year	Season	Area	Production	Annual_Rainfall	F
State								
West Bengal	ArecanutArhar/TurBajraBarleyCardamomCastor see...	2196856	Whole Year Whole Year Kharif Whole Year Wh...	237682264.87	8941179120	1883455.70	2970480	
Puducherry	ArecanutBajraBlack pepperCorianderCotton(lint)...	1346899	Kharif Kharif Kharif Kharif Su...	653541.00	493815573	959916.00	8480	
Andhra Pradesh	ArecanutArhar/TurArhar/TurBajraBajraBananaCash...	2543550	Whole Year Kharif Rabi Kharif Ra...	238925335.00	26076218605	1160139.90	3125890	
Tamil Nadu	ArecanutArhar/TurBajraBananaCashewnutCastor se...	1652030	Whole Year Kharif Kharif Whole Year Wh...	110372797.00	78051759253	765414.20	1473239	
Assam	ArecanutArhar/TurCastor seedCoconut Cotton(lin...	1468138	Whole Year Kharif Kharif Whole Year Kh...	77342600.00	3637714928	1531493.36	1029303	

State	Crop	Crop_Year	Season	Area	Production	Annual_Rainfall	F
Karnataka	ArecanutArhar/TurBajraBajraBlack pepperCardamo...	2876568	Whole Year	257907399.00	63772797366	1692392.73	3458024
			Kharif Kharif Summer Kh...				
Kerala	ArecanutBlack pepperCashewnutCoconut TapiocaAr...	1072892	Whole Year	36391060.29	129700649853	1536641.30	474460
			Whole Year				
Goa	ArecanutBananaBlack pepperCashewnutCoconut Gro...	494067	Whole Year	2749600.50	2193998349	824746.06	35810
			Whole Year				
Telangana	Arhar/TurArhar/TurBajraBajraBananaCashewnutCas...	800319	Kharif Rabi	39792142.00	147700034	395509.50	626253
			Kharif Rabi Wh...				
Gujarat	Arhar/TurBajraBajraBananaCastor seedCastor see...	1641081	Kharif Kharif Summer Whole	222434333.20	807581678	641179.90	2993028

State	Crop	Crop_Year	Season	Area	Production	Annual_Rainfall	F
							Year
Uttar Pradesh	Arhar/Tur/Bajra/Barley/Castor seed/Gram/Groundnut/Jowar/Maize/Mustard/Pigeonpea/Ragi/Sugarcane	1657261	Kharif Kharif Rabi Kharif Ra...	542672635.00	4442585302	625575.60	7245281
Haryana	Arhar/Tur/Bajra/Barley/Cotton(lint)/Dry chillies/Gram/G...	1267508	Kharif Kharif Rabi Kharif Wh...	131506993.60	589739640	294622.15	1764513
Maharashtra	Arhar/Tur/Bajra/Cotton(lint)/Gram/Jowar/Jowar/Maize/Ma...	1546539	Kharif Kharif Whole Year Kharif Kh...	461939552.15	1878564915	905670.75	6238906
Bihar	Arhar/Tur/Bajra/Banana/Barley/Castor seed/Coriander/...	1799058	Kharif Kharif Whole Year Rabi Kh...	167995431.00	544953534	1042239.50	2220211
Madhya Pradesh	Arhar/Tur/Bajra/Barley/Cotton(lint)/Groundnut/Jowar/...	1697425	Kharif Kharif Rabi Kharif Kh...	492087994.46	834490323	847829.30	6708800
Uttarakhand	Arhar/Tur/Bajra/Barley/Garlic/Gram/Groundnut/Horse-g...	1460872	Kharif Kharif Rabi	21553975.00	169520122	1038481.20	294886

		Crop	Crop_Year	Season	Area	Production	Annual_Rainfall	F
State								
				Whole Year Ra...				
Delhi	Arhar/TurBajraBarleyGramJowarMaizeOther Kharif...	407560		Kharif Kharif Kharif Rabi Kh...	797903.00	2666022	128479.36	10453
Odisha	Arhar/TurArhar/TurArhar/TurGroundnutGroundnutG...	1525934		Autumn Summer Winter Autumn Su...	124646660.00	194080325	1098412.40	1663862
Nagaland	Arhar/TurBajraCastor seedCotton(lint)GramGroun...	1384791		Kharif Kharif Kharif Kharif Ra...	8426731.70	18748702	1064884.45	116079
Manipur	Arhar/TurBananaCashewnutDry chilliesGingerMaiz...	891535		Kharif Whole Year Whole Year Whole Year Kh...	5727639.00	18764635	686844.06	80098
Punjab	Arhar/TurBajraBarleyCotton(lint)GramGroundnutM...	797278		Kharif Kharif Rabi Whole Year Ra...	162040200.00	781551409	202057.80	2165229

State	Crop	Crop_Year	Season	Area	Production	Annual_Rainfall	F
Tripura	Arhar/TurCotton(lint)GramGroundnutGroundnutJut...	886679	Kharif Kharif Rabi Kharif Ra...	6278528.00	16952054	1015519.79	85617
Meghalaya	ArecanutArhar/TurBananaCastor seedCotton(lint)...	1303721	Whole Year Kharif Whole Year Rabi Kh...	5178776.00	16516629	2623959.14	69780
Chhattisgarh	Arhar/TurBajraBajraBarleyCastor seedCorianderC...	1838861	Kharif Kharif Whole Year Rabi Kh...	110536194.00	143096606	1159347.20	1529375
Himachal Pradesh	Arhar/TurBajraBarleyCorianderCotton(lint)Dry c...	1237740	Kharif Kharif Rabi Rabi Wh...	17810207.80	32297151	706851.50	239050
Arunachal Pradesh	Arhar/TurDry chilliesGingerGroundnutMaizeMasoo...	586807	Kharif Whole Year Whole Year Kharif Kh...	5725531.00	9522010	762047.00	77469
Mizoram	Arhar/TurCoconut GroundnutMaizeMaizePeas & bea...	835617	Kharif Kharif Kharif	1542189.47	2769208	1013275.26	19954

		Crop	Crop_Year	Season	Area	Production	Annual_Rainfall	F
State								
				Kharif Ra...				
				Rabi Rabi				
Jharkhand	Arhar/TurGramMaizeMasoorPotatoPotatoRagiRapese...	543138	Autumn	30435526.75	43793850	319456.50	438207	
				Rabi Ra...				
Jammu and Kashmir	Arhar/TurBarleyGarlicGramLinseedMasoorOnionOth...	1268456	Rabi Rabi Rabi Rabi Ra...	18743187.00	30298377	752008.20	253472	
Sikkim	BarleyMaizeMaizeOther Rabi pulsesRapeseed &Mu...	453793	Rabi Kharif Whole Year Rabi Ra...	1759399.00	2744927	580895.78	23018	

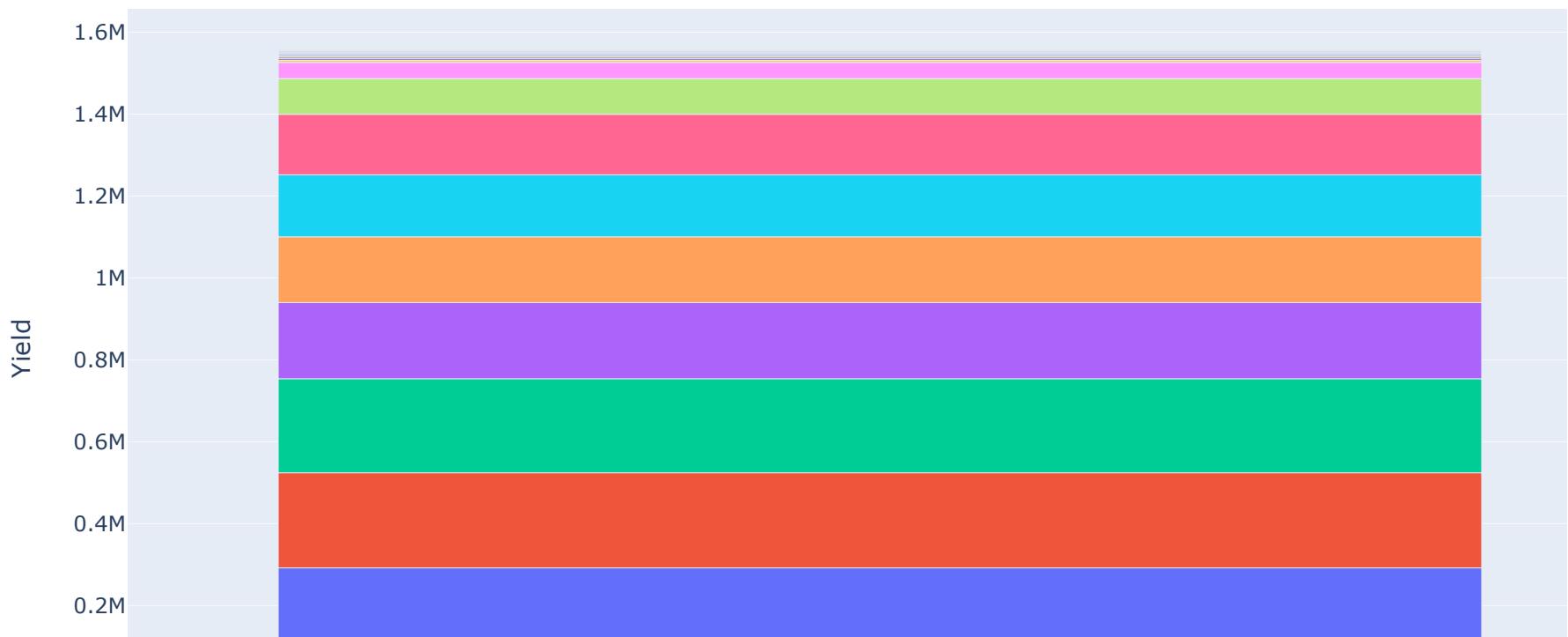
In []:

VISUALIZATION OF STATE WISE :-

```
In [41]: import plotly.express as px

df_state['Region'] = ['States' for i in range(len(df_state))]

fig = px.bar(df_state, x='Region', y = 'Yield', color=df_state.index, hover_data=['Yield'])
fig.show()
```



From the above graph it can be observed that the yield of West Bengal is highest. Reason can be more annual rainfall, use of fertilizers.

In []:

ANNUAL RAINFALL PER STATE :-

```
In [42]: df_state_sort = df.groupby('State',as_index=False)[ 'Annual_Rainfall' ].sum().sort_values(by='Annual_Rainfall',ascending=False)
df_state_sort
```

Out[42]:

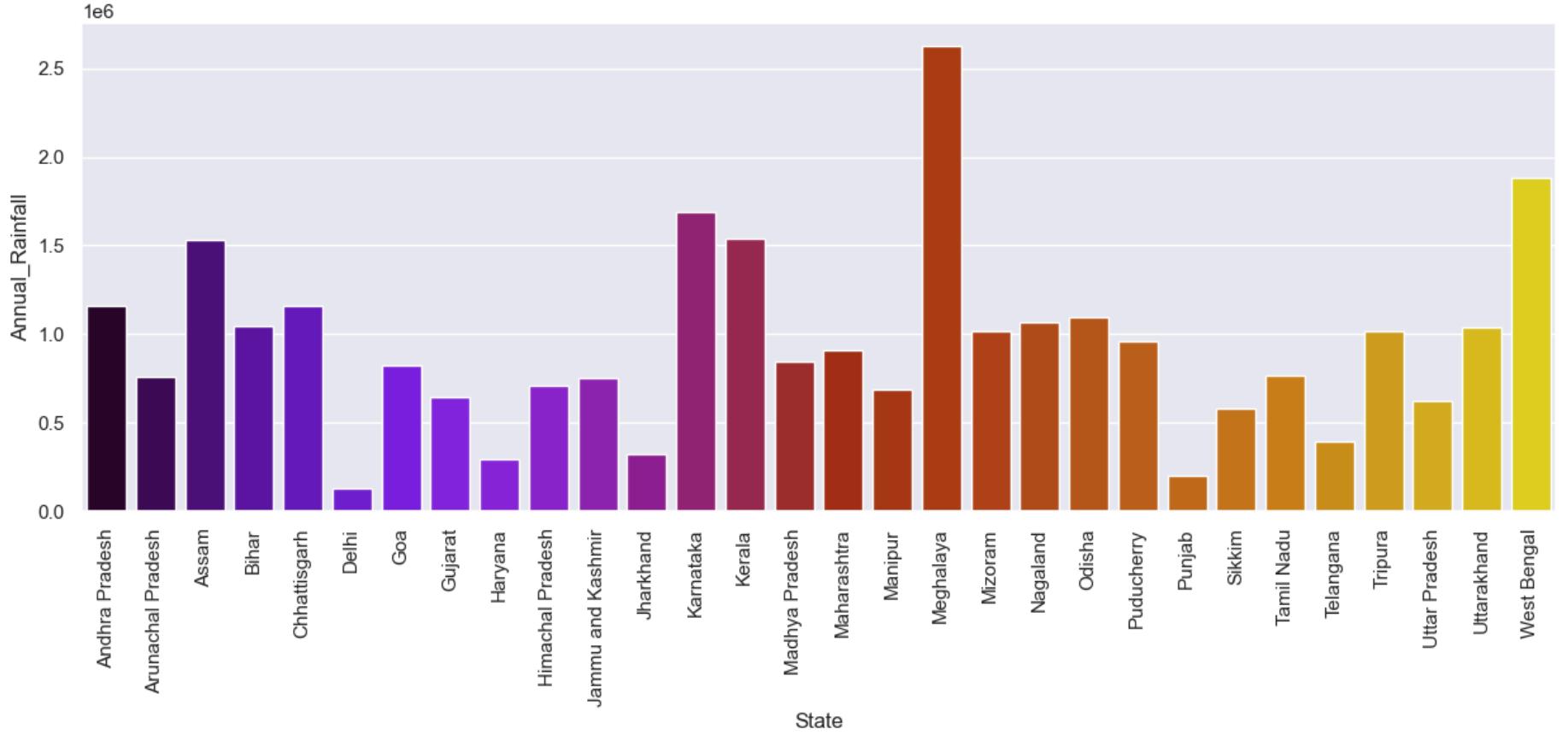
	State	Annual_Rainfall
17	Meghalaya	2623959.14
29	West Bengal	1883455.70
12	Karnataka	1692392.73
13	Kerala	1536641.30
2	Assam	1531493.36
0	Andhra Pradesh	1160139.90
4	Chhattisgarh	1159347.20
20	Odisha	1098412.40
19	Nagaland	1064884.45
3	Bihar	1042239.50
28	Uttarakhand	1038481.20
26	Tripura	1015519.79
18	Mizoram	1013275.26
21	Puducherry	959916.00
15	Maharashtra	905670.75
14	Madhya Pradesh	847829.30
6	Goa	824746.06
24	Tamil Nadu	765414.20
1	Arunachal Pradesh	762047.00
10	Jammu and Kashmir	752008.20
9	Himachal Pradesh	706851.50
16	Manipur	686844.06

	State	Annual_Rainfall
7	Gujarat	641179.90
27	Uttar Pradesh	625575.60
23	Sikkim	580895.78
25	Telangana	395509.50
11	Jharkhand	319456.50
8	Haryana	294622.15
22	Punjab	202057.80
5	Delhi	128479.36

In []:

VISUALIZATION OF ANNUAL RAIFALL PER STATE :-

```
In [43]: df_state = df.groupby('State',as_index=False)[ 'Annual_Rainfall'].sum()
plt.figure(figsize = (15,5))
sns.barplot(x = df_state['State'], y=df_state[ 'Annual_Rainfall'], palette = 'gnuplot')
plt.xticks(rotation = 90)
plt.show()
```



In []:

Observations:

Annual Rainfall is highest in Chattisgarh but the yield is not the highest.

West Bengal has the maximum yield.

Uttar Pradesh, Haryana, Maharashtra are using high amount of fertilizer but yield is not high reason can be low annual rainfall.

In []:

SEASON WISE ANALYSIS :-

In []:

```
In [44]: df_Seas = df[df['Season']!='Whole Year ']

df_season = df_Seas.groupby('Season').sum()
df_season
```

Out[44]:

Season	Crop	Crop_Year	State	Area
Autumn	RiceRagiRiceRiceRiceRiceDry chilliesRi...	832058	AssamWest BengalWest BengalAssamKeralaWest Ben...	58626370.49
Kharif	Arhar/TurCastor seedCotton(lint)JuteMaizeMesta...	16504625	AssamAssamAssamAssamAssamAssamAssamKarnat...	1702290574.26
Rabi	GramLinseedOther Rabi pulsesRapeseed &Mustard...	11519394	AssamAssamAssamAssamKarnatakaKarnatakaKar...	1172237717.01
Summer	RiceBajraJowarMaizeRagiRiceMoong(Green Gram)Ri...	2392424	AssamKarnatakaKarnatakaKarnatakaKarnatakaKarna...	98775535.92
Winter	RiceRiceRiceRiceRiceRicePotatoRiceSesamumR...	781718	AssamWest BengalAssamKeralaWest BengalAssamKer...	280684654.63



In []:

VISUALIZATION OF SEASON WISE / AREA:-

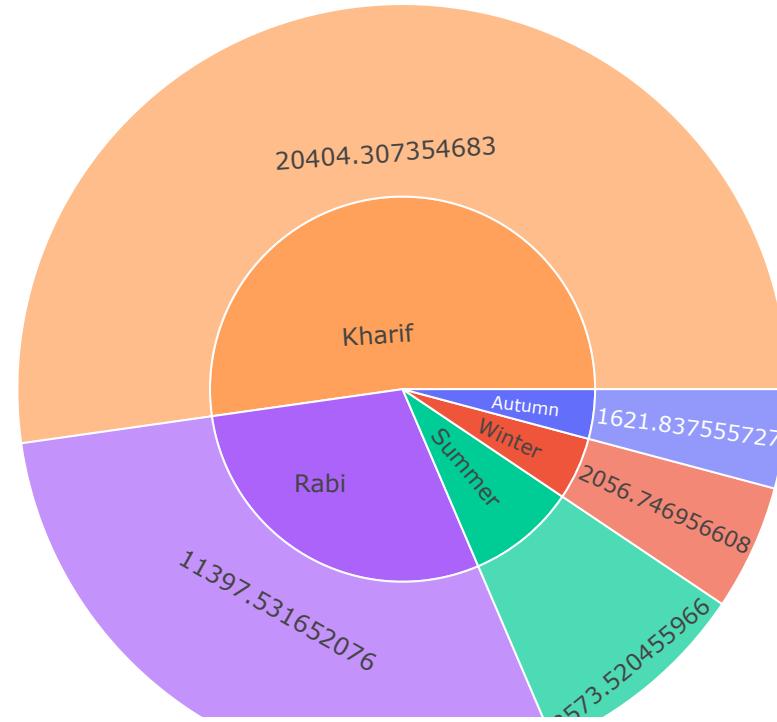
```
In [45]: fig = px.bar(df_season, y = 'Area', color=df_season.index, hover_data=['Area'],text = 'Area')
fig.show()
```



In []:

VISUALIZATION OF SEASON WISE/YIELD :-

```
In [46]: fig = px.sunburst(df_season, path=[df_season.index, 'Yield'], values='Yield',
                      color=df_season.index, hover_data=['Yield'])
fig.show()
```



```
In [ ]:
```

Observations:

Area under cultivation in Kharif season is highest, second is Rabi season.

Crops in autumn, summer are not grown over large area.

```
Yield in India is maximum in Kharif season.
```

```
In [ ]:
```

CROP WISE ANALYSIS :-

```
In [ ]:
```

```
In [47]: # Where the Yield is zero  
df_yz = df[df['Yield']==0]  
df_yz.shape
```

```
Out[47]: (112, 10)
```

```
In [ ]:
```

```
In [48]: df_yz.head()
```

```
Out[48]:
```

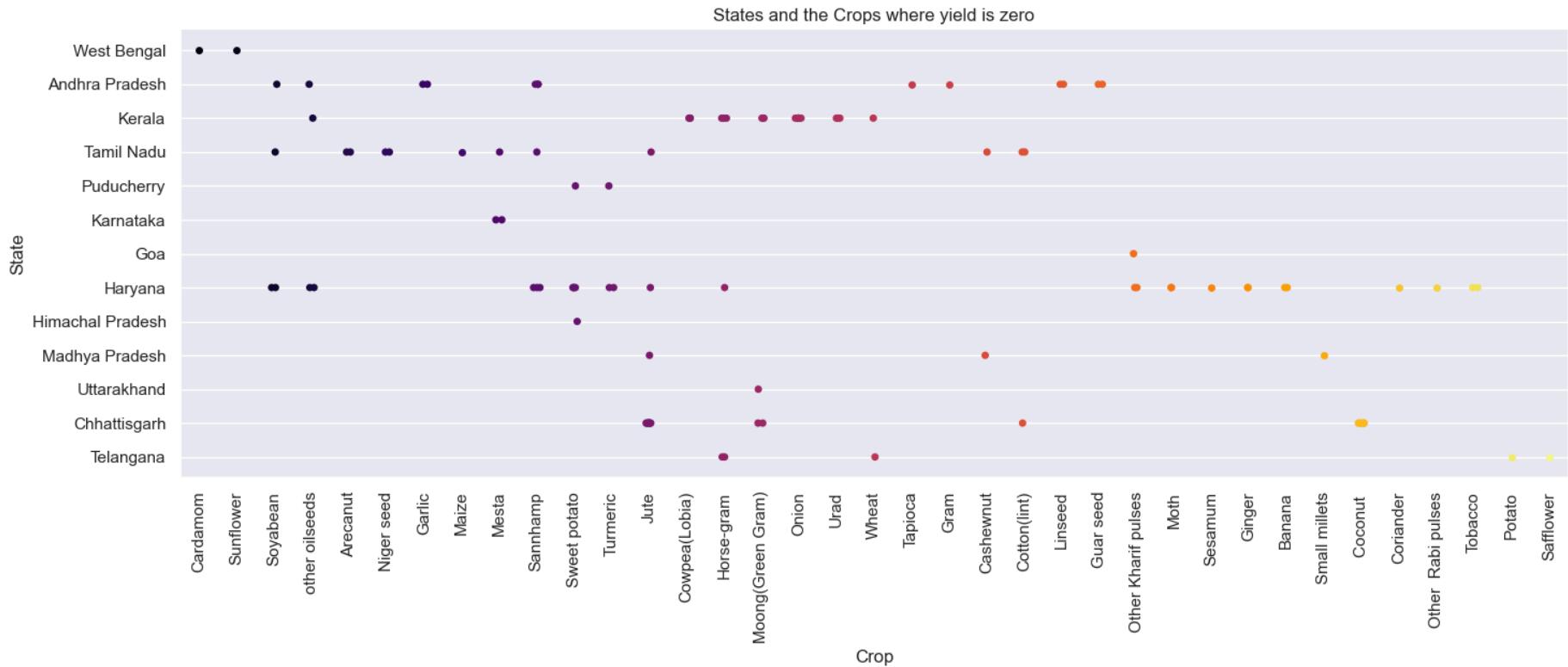
	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
92	Cardamom	1997	Whole Year	West Bengal	2674.00	7	1852.90	254484.58	828.94	0.00
125	Sunflower	1997	Whole Year	West Bengal	278.00	1	1852.90	26457.26	86.18	0.00
1058	Soyabean	2002	Kharif	Andhra Pradesh	41284.00	0	648.10	3908356.28	10321.00	0.00
1134	other oilseeds	2002	Whole Year	Kerala	2253.00	0	2511.20	213291.51	563.25	0.00
1135	Areca nut	2002	Whole Year	Tamil Nadu	4956.00	0	315.90	469184.52	1239.00	0.00

```
In [ ]:
```

VISUALIZATION OF STATES AND THE CROPS WHERE YIELD IS ZERO :-

```
In [91]: plt.figure(figsize = (25,15))
sns.catplot(y="State", x="Crop", data=df_yz, aspect = 3, palette ='inferno')
plt.xticks(rotation=90)
plt.title('States and the Crops where yield is zero')
plt.show()
```

<Figure size 2500x1500 with 0 Axes>



In []:

VISUALIZATION OF WHERE YIELD IS MORE THAN ZERO :-

```
In [50]: df_ynz = df[df['Yield']>0] # where yield is more than zero
df_crop = df_ynz.groupby('Crop').sum()
df_crop
```

Out[50]:

	Crop_Year	Season		State	Area	Production	Annual_Rainfall
	Crop						
Arecanut	321347	Whole Year	AssamKarnatakaKeralaMeghalayaWest BengalPuduch...		8765157.86	39144261	341457.80
		Whole Year					
		Whole Year					
		Wh...					
Arhar/Tur	1018521	Kharif					
		Kharif					
		Kharif					
		Whole Year	AssamKarnatakaMeghalayaWest BengalAssamKarnata...		82350245.99	60909841	708993.86
		Kh...					
Bajra	1052589	Kharif					
		Summer					
		Kharif					
		Kharif	KarnatakaKarnatakaWest BengalPuducherryKarnata...		93358103.60	118137047	556674.76
		Kh...					
Banana	488061	Whole Year					
		Whole Year					
		Whole Year					
		Wh...	MeghalayaAssamGoaKeralaMeghalayaAssamGoaKerala...		7127320.69	226471979	419995.58
		Wh...					
Barley	594537	Whole Year	West BengalWest BengalWest BengalWest BengalWe...		9250804.39	19474208	346158.28
		Rabi					
		Rabi					

	Crop_Year	Season	State	Area	Production	Annual_Rainfall
Crop						
		Rabi Ra...				
		Kharif Whole Year				
Black pepper	253163	Kharif Whole Year Wh...	KarnatakaKeralaPuducherryGoaKarnatakaKeralaGoa...	4362226.11	2095650	270000.18
		Whole Year				
		Whole Year				
Cardamom	146569	Whole Year Whole Year Whole Year Wh...	KarnatakaKarnatakaKeralaWest BengalKeralaWest ...	1305531.87	255490	124148.79
		Whole Year				
		Whole Year				
Cashewnut	265313	Whole Year Whole Year Whole Year Wh...	KeralaGoaKeralaGoaKeralaPuducherryAndhra Prade...	7472794.46	3737207	258148.47
		Whole Year				
		Whole Year				
Castor seed	602681	Kharif Rabi Whole Year Kharif Kh...	AssamMeghalayaWest BengalAssamKarnatakaWest Be...	16596319.00	24049211	414426.25
		Kharif Rabi				
		Whole Year				

	Crop_Year	Season		State	Area	Production	Annual_Rainfall
Crop							
Coconut	331429	Whole Year					
		Whole Year					
		Whole Year					
		Whole Year	AssamKeralaWest BengalAssamGoaKarnatakaKeralaW...	38453016.88	308751970278		299400.80
		Wh...					
Coriander	397906	Whole Year					
		Whole Year					
		Kharif					
		Whole Year	KarnatakaPuducherryKarnatakaPuducherryAndhra P...	4520541.67		3242496	223138.01
		Whole Year					
Cotton(lint)	950038	Wh...					
		Kharif					
		Kharif					
		Kharif	AssamMeghalayaWest BengalPuducherryAssamKarnat...	220828402.40		457830976	686389.97
		Summer					
Cowpea(Lobia)	263939	Kh...					
		Kharif					
		Rabi					
		Kharif	KarnatakaKarnatakaAndhra PradeshAndhra Pradesh...	1307011.70		732573	203056.32
		Rabi					
		Kh...					

	Crop_Year	Season		State	Area	Production	Annual_Rainfall
Crop							
Dry chillies	841584	Whole Year					
		Kharif					
		Rabi	Assam	Karnataka	Karnataka	Meghalaya	West Bengal
		Whole Year	Pud...				
		Wh...					
Garlic	496276	Whole Year					
		Whole Year					
		Whole Year	Karnataka	Karnataka	Kerala	Kerala	Karnataka
		Whole Year	Kerala	Karnataka	Kerala	Karnataka	Kerala
		Wh...					
Ginger	644944	Kharif					
		Kharif					
		Kharif	Karnataka	Meghalaya	Karnataka	Kerala	Meghalaya
		Whole Year	West...				
		Kh...					
Gram	980215	Rabi					
		Rabi	Assam	Meghalaya	West Bengal	Assam	Karnataka
		Rabi	Karnataka	Meghalaya	West Bengal	Assam	Karnataka
		Rabi	West...				
		Ra...					
Groundnut	1454622	Kharif					
		Rabi					
		Whole Year	Karnataka	Karnataka	West Bengal	Puducherry	Goa
		Rabi	Goa	Goa	Karnataka	Karnataka	West Bengal
		Kh...					

	Crop_Year	Season		State	Area	Production	Annual_Rainfall
Crop							
Guar seed	122657	Rabi Whole Year Whole Year Whole Year Wh...	Andhra PradeshTamil NaduGujaratGujaratGujaratP...	6114917.00	7227527	41758.60	
Horse-gram	731534	Kharif Rabi Kharif Kharif Ra...	KarnatakaKarnatakaWest BengalKarnatakaKarnatak...	12169306.00	5263938	423985.87	
Jowar	1030385	Kharif Rabi Summer Whole Year Kh...	KarnatakaKarnatakaKarnatakaWest BengalKarnatak...	164535755.00	141915435	584500.65	
Jute	333372	Kharif Kharif Kharif Kharif Kh...	AssamMeghalayaWest BengalAssamMeghalayaWest Be...	18139888.00	230423821	328935.53	
Khesari	150678	Rabi Rabi Rabi Rabi Ra...	West BengalWest BengalWest BengalWest BengalWe...	9973860.00	7115452	102543.10	
Linseed	614576	Rabi Kharif Whole Year	AssamMeghalayaWest BengalAssamKarnatakaMeghala...	7764671.00	3187572	439141.80	

	Crop_Year	Season		State	Area	Production	Annual_Rainfall
Crop							
		Rabi Ra...					
		Kharif Kharif					
Maize	1952758	Rabi Summer Kh...	AssamKarnatakaKarnatakaKarnatakaMeghalayaWest ...	157665605.60	410869643	1369607.92	
Masoor	649121	Rabi Rabi Rabi Ra...	West BengalWest BengalWest BengalWest BengalAs...	26305086.30	19717555	442344.43	
Mesta	415840	Kharif Kharif Whole Year Kharif Kh...	AssamMeghalayaMeghalayaWest BengalAssamMeghala...	1854066.00	14052802	367021.62	
Moong(Green Gram)	1470904	Kharif Rabi Summer Kharif Ra...	West BengalWest BengalWest BengalKarnatakaKarn...	51938557.27	22490478	938433.12	
Moth	214966	Kharif Kharif Kharif Kh...	GujaratUttar PradeshGujaratHaryanaUttar Prades...	1814175.00	913726	102578.74	
Niger seed	381651	Whole Year Rabi Whole	AssamWest BengalWest BengalAssamKarnatakaWest ...	57265109.00	40641053	259897.25	

	Crop_Year	Season		State	Area	Production	Annual_Rainfall
Crop							
		Summer					
		Summer					
		Su...					
Peas & beans (Pulses)	739568	Kharif					
		Rabi					
		Summer		Karnataka	Karnataka	Karnataka	West Bengal
		Rabi		West Bengal	West Ben...	12846324.40	14306374
		Ra...					520368.01
Potato	1255941	Whole					
		Year					
		Whole		Assam	Meghalaya	West Bengal	Assam
		Year		Assam	Karnataka	Karnata...	Karnata...
		Whole		Karnataka	Karnataka	Karnata...	31394775.74
		Year		Karnataka	Karnataka	Karnata...	629573397
Ragi	998519	Whole					
		Kh...					
		Kharif					
		Rabi					
		Summer		Karnataka	Karnataka	Karnataka	West Bengal
		Autumn		Karnataka	Karnataka	Karnata...	Puducher...
Rapeseed &Mustard	1058570	Whole					
		Rabi					
		Rabi		Assam	Meghalaya	West Bengal	Assam
		Year		Assam	Karnataka	Karnata...	Karnata...
		Rabi		Karnataka	Karnataka	Karnata...	Meghala...
		Kh...		Karnataka	Karnataka	Karnata...	72048298.81
Rice	2400561	Autumn					
		Summer					
		Winter		Assam	Assam	Assam	Karnataka
		Kharif		Karnataka	Karnataka	Karnata...	Karnata...
		Ra...		Karnataka	Karnataka	Karnata...	Megh...
				Karnataka	Karnataka	Karnata...	991600824.27

1

	Crop_Year	Season		State	Area	Production	Annual_Rainfall
Crop							
Safflower	337522	Whole Year					
		Rabi					
		Rabi	West Bengal	Karnataka	West Bengal	West Bengal	Andhra Pradesh
		Rabi					
		Rabi					
		Ra...					
Sannhamp	307237	Whole Year					
		Whole Year					
		Autumn	West Bengal	West Bengal	West Bengal	West Bengal	Karnataka
		Rabi					
		Wh...					
Sesamum	1372313	Whole Year					
		Kharif					
		Whole Year	Assam	Meghalaya	West Bengal	Puducherry	Assam
		Kharif					Karnataka
		Kh...					
Small millets	970378	Kharif					
		Kharif					
		Whole Year	Assam	Meghalaya	West Bengal	Puducherry	Assam
		Kharif					Meghalaya
		Kh...					
Soyabean	691289	Kharif					
		Kharif					
		Kharif	Meghalaya	West Bengal	Karnataka	Meghalaya	West Bengal
		Kharif					
		Kh...					
Sugarcane	1212992	Kharif	Assam	Karnataka	Meghalaya	West Bengal	Puducherry
		Whole					As... sia

	Crop_Year	Season		State	Area	Production	Annual_Rainfall
Crop							
		Year					
		Whole					
		Year					
		Whole					
		Year					
		Kh...					
		Kharif					
		Rabi					
Sunflower	879951	Summer	Karnataka	Karnataka	Karnataka	West Bengal	West Ben...
						26137916.00	14644633
							515211.35
		Whole					
		Year					
		Whole					
		Year					
Sweet potato	538489	Whole	Assam	Meghalaya	Assam	Kerala	Meghalaya
		Year					Assam
		Whole					
		Year					
		Wh...					
		Whole					
		Year					
		Whole					
Tapioca	401856	Year	Assam	Kerala	Meghalaya	Puducherry	Assam
		Whole					Kerala
		Year					Meghalaya
		Wh...					Puducherry
		Whole					Assam
		Year					Kerala
		Kharif					Meghalaya
		Wh...					Puducherry
Tobacco	725349	Whole	Assam	Meghalaya	Assam	Kerala	Meghalaya
		Year					Assam
		Rabi					Meghalaya
		Whole					Assam
		Year					Kerala
		Whole					Meghalaya

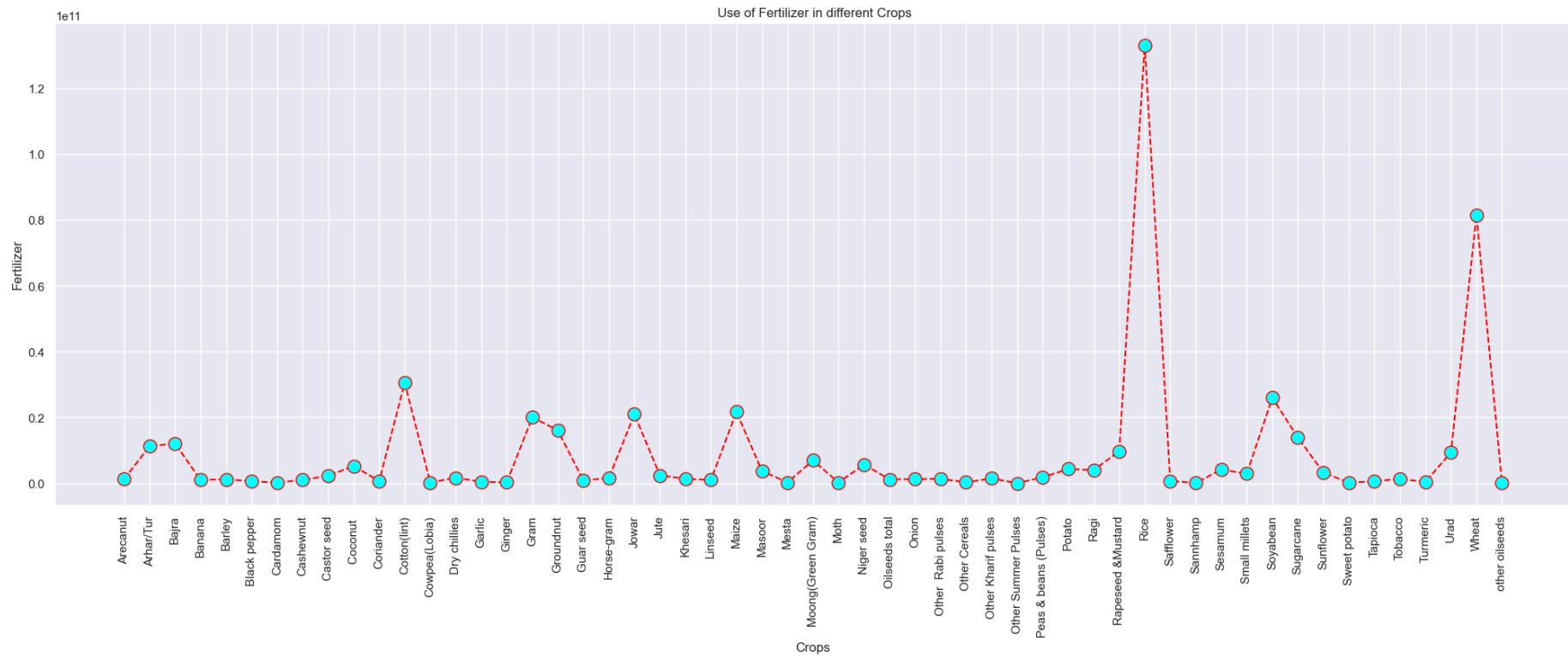
	Crop_Year	Season		State	Area	Production	Annual_Rainfall
Crop		Year					
		Year					
		Wh...					
		Whole					
		Year					
		Whole					
		Year					
Turmeric	668970	Whole	Assam	Karnataka	Meghalaya	West Bengal	Assam
		Year					
		Whole					
		Year					
		Whole					
		Year					
		Whole					
		Year					
		Wh...					
Urad	1463017	Kharif					
		Rabi					
		Kharif	West Bengal	West Bengal	West Bengal	West Bengal	Pu...
		Rabi					
		Ra...					
Wheat	1088664	Rabi					
		Rabi					
		Rabi	Assam	Karnataka	Meghalaya	West Bengal	Assam
		Rabi					
		Rabi					
		Ra...					
other oilseeds	241368	Rabi					
		Kharif					
		Rabi	Andhra Pradesh	Andhra Pradesh	Andhra Pradesh	Andhra Pradesh	Andh...
		Kharif					
		Kh...					

In []:

VISUALIZATION OF USE OF FERTILIZER IN DIFFERENT CROPS :-

```
In [92]:
```

```
plt.figure(figsize = (25,8))
plt.plot(df_crop.index, df_crop['Fertilizer'], color='red', linestyle='dashed', marker='o',
         markersize=12, markerfacecolor='cyan')
plt.xlabel('Crops')
plt.ylabel('Fertilizer')
plt.title(' Use of Fertilizer in different Crops')
plt.xticks(rotation=90)
plt.show()
```



The amount of Fertilizer used is maximum in Rice Crop.

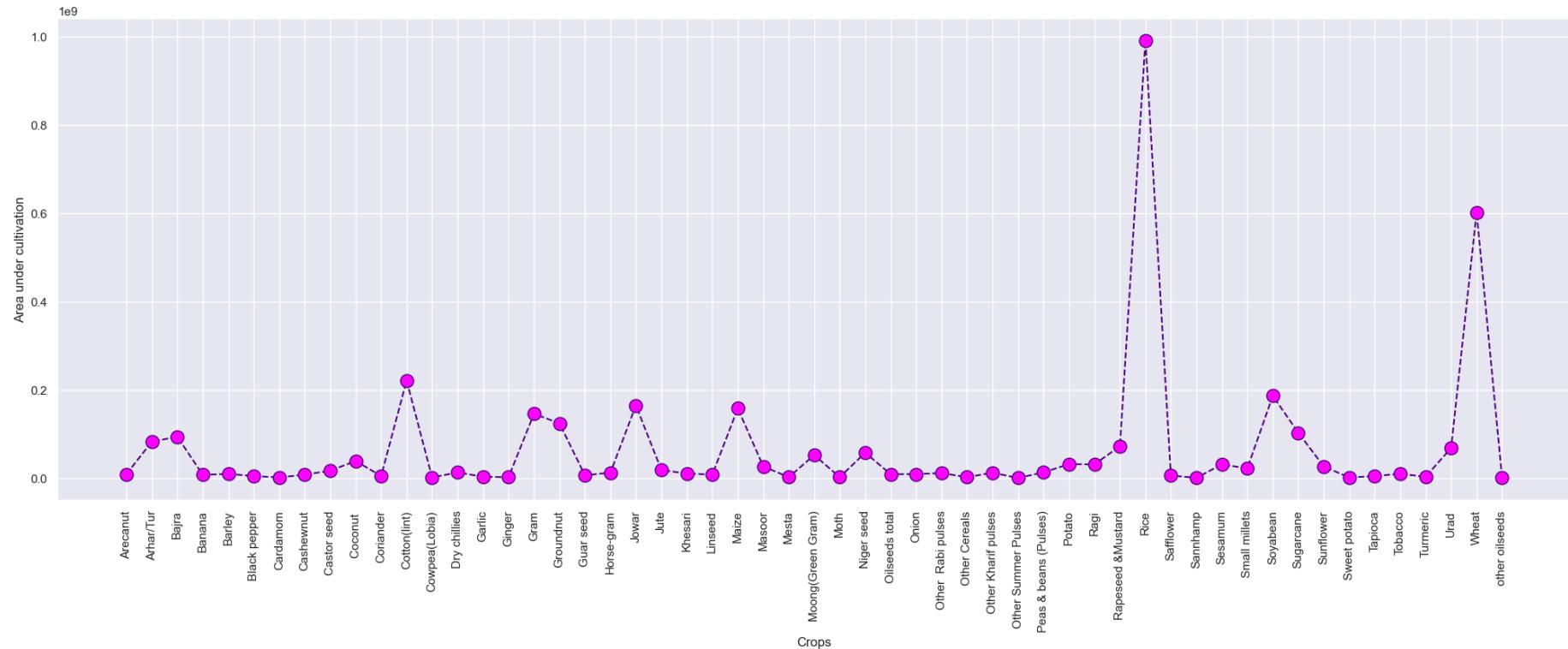
The second crop to use more fertilizer is Wheat crop.

```
In [ ]:
```

VISULIZATION OF AREA UNDER CULTIVATION :-

In [93]:

```
plt.figure(figsize = (25,8))
plt.plot(df_crop.index, df_crop['Area'], color='indigo', linestyle='dashed', marker='o',
          markersize=12, markerfacecolor='fuchsia')
plt.xlabel('Crops')
plt.ylabel('Area under cultivation')
plt.xticks(rotation=90)
plt.show()
```



Area under cultivation is larger for Rice and Wheat crops.

In []:

ANALYSIS OF WHEAT CROP :-

```
In [53]: df_wheat = df[df['Crop']=='Wheat']
df_wheat.reset_index(drop=True,inplace=True)
df_wheat
```

Out[53]:

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
0	Wheat	1997	Rabi	Assam	84698.00	110054	2051.40	8060708.66	26256.38	1.26
1	Wheat	1997	Rabi	Karnataka	250698.00	118512	1266.70	23858928.66	77716.38	0.55
2	Wheat	1997	Rabi	Meghalaya	4287.00	6894	3818.20	407993.79	1328.97	1.39
3	Wheat	1997	Rabi	West Bengal	367374.00	810480	1852.90	34962983.58	113885.94	1.89
4	Wheat	1998	Rabi	Assam	89591.00	90509	2354.40	8851590.80	25981.39	1.00
5	Wheat	1998	Rabi	Karnataka	268981.00	219433	1260.80	26575322.80	78004.49	0.85
6	Wheat	1998	Rabi	Meghalaya	4287.00	6998	6552.70	423555.60	1243.23	1.60
7	Wheat	1998	Rabi	West Bengal	367472.00	778090	2152.50	36306233.60	106566.88	1.87
8	Wheat	1999	Rabi	Assam	76310.00	97583	2201.80	8098780.30	20603.70	1.26
9	Wheat	1999	Rabi	West Bengal	364155.00	850778	2318.10	38647770.15	98321.85	2.10
10	Wheat	2000	Rabi	Andhra Pradesh	14261.00	8121	935.60	1400002.37	3707.86	0.58
11	Wheat	2000	Rabi	Assam	70301.00	85695	1965.50	6901449.17	18278.26	1.18
12	Wheat	2000	Rabi	Karnataka	266310.00	249880	1213.30	26143652.70	69240.60	0.93
13	Wheat	2000	Rabi	Meghalaya	4215.00	6892	6258.80	413786.55	1095.90	1.40
14	Wheat	2000	Rabi	West Bengal	426000.00	1057610	1907.70	41820420.00	110760.00	2.33
15	Wheat	2001	Rabi	Andhra Pradesh	13793.00	9486	928.40	1408679.09	3586.18	0.63
16	Wheat	2001	Rabi	Assam	72245.00	85300	1824.70	7378381.85	18783.70	1.19
17	Wheat	2001	Rabi	Karnataka	260486.00	198822	1002.90	26603435.18	67726.36	0.78
18	Wheat	2001	Rabi	Meghalaya	2753.00	4812	4241.00	281163.89	715.78	1.46
19	Wheat	2001	Rabi	West Bengal	434004.00	961533	1556.60	44324828.52	112841.04	2.11
20	Wheat	2002	Rabi	Andhra Pradesh	11044.00	14898	648.10	1045535.48	2761.00	1.09
21	Wheat	2002	Rabi	Assam	69061.00	77952	1973.60	6538004.87	17265.25	1.15

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
22	Wheat	2002	Rabi	West Bengal	405350.00	887437	1629.10	38374484.50	101337.50	1.99
23	Wheat	2003	Rabi	Andhra Pradesh	11928.00	6741	826.00	1180633.44	2862.72	0.48
24	Wheat	2003	Rabi	Assam	69954.00	73186	2213.70	6924046.92	16788.96	1.04
25	Wheat	2003	Rabi	Karnataka	231994.00	96150	867.60	22962766.12	55678.56	0.52
26	Wheat	2003	Rabi	Meghalaya	862.00	1540	3321.30	85320.76	206.88	1.49
27	Wheat	2003	Rabi	West Bengal	425721.00	985686	1526.70	42137864.58	102173.04	2.19
28	Wheat	2004	Rabi	Karnataka	241991.00	206296	1117.70	26217304.94	50818.11	0.85
29	Wheat	2004	Rabi	Meghalaya	863.00	1564	4767.90	93497.42	181.23	1.16
30	Wheat	2005	Rabi	Andhra Pradesh	11109.00	8891	1075.50	1332191.28	2332.89	0.77
31	Wheat	2005	Rabi	Assam	49961.00	53735	2184.60	5991323.12	10491.81	1.08
32	Wheat	2005	Rabi	Karnataka	252588.00	226369	1316.20	30290352.96	53043.48	0.88
33	Wheat	2005	Rabi	Meghalaya	670.00	1198	3374.40	80346.40	140.70	1.31
34	Wheat	2005	Rabi	West Bengal	366729.00	773514	1650.10	43978141.68	77013.09	1.95
35	Wheat	2006	Rabi	Meghalaya	656.00	1183	2454.70	83777.76	144.32	1.32
36	Wheat	2006	Rabi	Andhra Pradesh	10016.00	8796	845.20	1279143.36	2203.52	0.68
37	Wheat	2006	Rabi	Assam	59573.00	67413	1774.90	7608067.83	13106.06	1.13
38	Wheat	2006	Rabi	Karnataka	269494.00	223806	1146.30	34417078.74	59288.68	0.81
39	Wheat	2006	Rabi	West Bengal	350621.00	799876	1631.40	44777807.91	77136.62	2.17
40	Wheat	2007	Rabi	Assam	56069.00	70797	2154.10	7479604.60	8971.04	1.23
41	Wheat	2007	Rabi	Karnataka	275583.00	280384	1323.30	36762772.20	44093.28	1.02
42	Wheat	2007	Rabi	West Bengal	352579.00	917284	2007.50	47034038.60	56412.64	2.45
43	Wheat	2008	Rabi	Andhra Pradesh	13687.00	15421	944.60	1957788.48	1231.83	1.03

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
44	Wheat	2008	Rabi	Assam	50053.00	54551	2109.90	7159581.12	4504.77	1.05
45	Wheat	2008	Rabi	Karnataka	268600.00	257181	1164.10	38420544.00	24174.00	1.01
46	Wheat	2008	Rabi	Meghalaya	416.00	739	3114.30	59504.64	37.44	1.25
47	Wheat	2008	Rabi	West Bengal	306985.00	764528	1560.10	43911134.40	27628.65	2.17
48	Wheat	2009	Rabi	Andhra Pradesh	9872.00	10319	711.00	1538255.04	1678.24	0.95
49	Wheat	2009	Rabi	Assam	60067.00	65301	1727.10	9359639.94	10211.39	1.10
50	Wheat	2009	Rabi	Karnataka	283427.00	263877	1321.00	44163595.14	48182.59	0.92
51	Wheat	2009	Rabi	Meghalaya	405.00	718	2995.90	63107.10	68.85	1.25
52	Wheat	2010	Rabi	Assam	44772.00	56216	2578.50	7437076.92	10745.28	1.20
53	Wheat	2010	Rabi	Andhra Pradesh	10085.00	13143	1297.00	1675219.35	2420.40	1.31
54	Wheat	2010	Rabi	Karnataka	254755.00	300237	1317.70	42317353.05	61141.20	1.17
55	Wheat	2010	Rabi	Meghalaya	393.00	704	3119.70	65281.23	94.32	1.25
56	Wheat	2011	Rabi	Assam	40194.00	48592	1743.40	6733298.88	13264.02	1.17
57	Wheat	2011	Rabi	Andhra Pradesh	8255.00	10914	861.90	1382877.60	2724.15	1.31
58	Wheat	2011	Rabi	Karnataka	225472.00	200932	1178.99	37771069.44	74405.76	0.98
59	Wheat	2011	Rabi	Meghalaya	395.00	710	4083.10	66170.40	130.35	1.34
60	Wheat	2012	Rabi	Andhra Pradesh	8000.00	9000	968.70	1206400.00	2480.00	1.25
61	Wheat	2012	Rabi	Assam	33984.00	44190	2167.50	5124787.20	10535.04	1.25
62	Wheat	2012	Rabi	Karnataka	225274.00	178871	956.20	33971319.20	69834.94	0.85
63	Wheat	2012	Whole Year	Kerala	1.00	0	2187.60	150.80	0.31	0.00
64	Wheat	2012	Rabi	Meghalaya	406.00	742	2945.30	61224.80	125.86	1.36
65	Wheat	2013	Rabi	Andhra Pradesh	348.00	249	1062.30	50282.52	93.96	0.68

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
66	Wheat	2013	Rabi	Assam	31294.00	40444	1797.70	4521670.06	8449.38	1.23
67	Wheat	2013	Rabi	Karnataka	209079.00	210041	1235.60	30209824.71	56451.33	1.07
68	Wheat	2013	Rabi	Meghalaya	422.00	789	2448.40	60974.78	113.94	1.51
69	Wheat	2014	Rabi	Andhra Pradesh	320.00	256	687.60	48307.20	105.60	1.02
70	Wheat	2014	Rabi	Assam	23646.00	28769	1899.00	3569600.16	7803.18	1.20
71	Wheat	2014	Rabi	Karnataka	197615.00	260093	1238.50	29831960.40	65212.95	1.29
72	Wheat	2014	Whole Year	Kerala	1.00	3	3046.40	150.96	0.33	3.00
73	Wheat	2014	Rabi	Meghalaya	442.00	844	3484.40	66724.32	145.86	1.57
74	Wheat	2015	Rabi	Andhra Pradesh	164.00	115	940.70	25897.24	54.12	0.70
75	Wheat	2015	Rabi	Assam	20975.00	24489	2155.30	3312162.25	6921.75	1.18
76	Wheat	2015	Rabi	Meghalaya	448.00	875	3870.80	70743.68	147.84	1.65
77	Wheat	2015	Rabi	Karnataka	173856.00	128988	1024.90	27453600.96	57372.48	0.85
78	Wheat	2015	Whole Year	Kerala	2.00	3	2602.90	315.82	0.66	1.50
79	Wheat	2016	Rabi	Andhra Pradesh	33.00	76	890.00	5057.25	11.55	2.15
80	Wheat	2016	Rabi	Assam	17452.00	23459	2296.80	2674519.00	6108.20	1.27
81	Wheat	2016	Rabi	Meghalaya	456.00	878	3837.10	69882.00	159.60	1.63
82	Wheat	2016	Rabi	Karnataka	168242.00	171429	1147.20	25783086.50	58884.70	0.94
83	Wheat	2016	Whole Year	Kerala	1.00	1	2924.30	153.25	0.35	1.00
84	Wheat	2017	Kharif	Andhra Pradesh	11.00	8	868.20	1731.84	4.18	0.85
85	Wheat	2017	Rabi	Andhra Pradesh	38.00	27	868.20	5982.72	14.44	0.72
86	Wheat	2017	Rabi	Assam	17786.00	24658	2098.56	2800227.84	6758.68	1.34
87	Wheat	2017	Rabi	Meghalaya	460.00	887	4472.30	72422.40	174.80	1.64

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
88	Wheat	2017	Rabi	Karnataka	193338.00	219087	1111.70	30439134.72	73468.44	1.07
89	Wheat	2017	Whole Year	Kerala	1.00	1	2664.80	157.44	0.38	1.00
90	Wheat	2018	Rabi	Andhra Pradesh	102.00	19	1220.50	16544.40	35.70	0.10
91	Wheat	2018	Rabi	Assam	16945.00	23693	2372.90	2748479.00	5930.75	1.37
92	Wheat	2018	Rabi	Meghalaya	462.00	892	5649.10	74936.40	161.70	1.64
93	Wheat	2018	Rabi	Karnataka	157525.00	163113	1419.10	25550555.00	55133.75	0.96
94	Wheat	2018	Whole Year	Kerala	1.40	2	2989.70	227.08	0.49	1.45
95	Wheat	2019	Rabi	Andhra Pradesh	37.00	11	899.20	6355.12	13.69	0.15
96	Wheat	2019	Rabi	Assam	11336.00	14430	2084.70	1947071.36	4194.32	1.27
97	Wheat	2019	Rabi	Meghalaya	464.00	898	3844.40	79696.64	171.68	1.64
98	Wheat	2019	Rabi	Karnataka	158319.00	180114	1422.30	27192871.44	58578.03	1.08
99	Wheat	2019	Whole Year	Kerala	1.00	2	3119.20	171.76	0.37	2.00
100	Wheat	1997	Rabi	Odisha	5162.00	6360	1496.60	491267.54	1600.22	0.86
101	Wheat	1997	Rabi	Andhra Pradesh	11000.00	6000	927.50	1046870.00	3410.00	0.55
102	Wheat	1997	Rabi	Bihar	2067610.00	4048699	1303.70	196774443.70	640959.10	1.81
103	Wheat	1997	Rabi	Gujarat	694000.00	1647100	798.90	66047980.00	215140.00	2.36
104	Wheat	1997	Rabi	Madhya Pradesh	4507600.00	7088900	1189.10	428988292.00	1397356.00	1.48
105	Wheat	1997	Rabi	Maharashtra	747300.00	670600	1156.10	71120541.00	231663.00	0.85
106	Wheat	1997	Rabi	Mizoram	22.00	11	2644.20	2093.74	6.82	0.50
107	Wheat	1997	Rabi	Punjab	3300000.00	12715000	690.10	314061000.00	1023000.00	3.78
108	Wheat	1997	Rabi	Uttar Pradesh	9152928.00	22830886	473.90	871084157.80	2837407.68	2.42
109	Wheat	1998	Rabi	Andhra Pradesh	11500.00	6400	1048.30	1136200.00	3335.00	0.47

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
110	Wheat	1998	Rabi	Bihar	2121335.00	4403655	1332.50	209587898.00	615187.15	1.89
111	Wheat	1998	Rabi	Gujarat	705400.00	1702600	775.60	69693520.00	204566.00	2.43
112	Wheat	1998	Rabi	Haryana	2185662.00	8563000	687.60	215943405.60	633841.98	3.83
113	Wheat	1998	Rabi	Himachal Pradesh	379718.00	481267	1381.60	37516138.40	110118.22	1.36
114	Wheat	1998	Rabi	Madhya Pradesh	4577900.00	8179600	962.70	452296520.00	1327591.00	1.62
115	Wheat	1998	Rabi	Maharashtra	1015500.00	1308500	1314.80	100331400.00	294495.00	1.26
116	Wheat	1998	Rabi	Punjab	3338000.00	14460000	588.60	329794400.00	968020.00	4.30
117	Wheat	1998	Rabi	Tripura	1110.00	2100	2472.90	109668.00	321.90	1.90
118	Wheat	1998	Rabi	Uttar Pradesh	9317904.00	23465191	743.40	920608915.20	2702192.16	2.37
119	Wheat	1999	Rabi	Bihar	2080847.00	4583515	1402.70	220840292.10	561828.69	2.11
120	Wheat	1999	Rabi	Gujarat	482100.00	1020000	458.90	51165273.00	130167.00	2.24
121	Wheat	1999	Rabi	Haryana	2316531.00	9650000	344.00	245853435.00	625463.37	4.05
122	Wheat	1999	Rabi	Himachal Pradesh	370587.00	583300	1144.90	39330398.31	100058.49	1.58
123	Wheat	1999	Rabi	Karnataka	261275.00	217613	1203.80	27729115.75	70544.25	0.88
124	Wheat	1999	Rabi	Madhya Pradesh	4661524.00	8685197	1222.90	494727542.10	1258611.48	1.88
125	Wheat	1999	Rabi	Maharashtra	1041800.00	1425900	1166.50	110566234.00	281286.00	1.30
126	Wheat	1999	Rabi	Odisha	18540.00	24850	1484.30	1967650.20	5005.80	1.35
127	Wheat	1999	Rabi	Punjab	3388000.00	15910000	364.40	359568440.00	914760.00	4.65
128	Wheat	1999	Rabi	Uttar Pradesh	9381878.00	26050768	883.40	995698712.10	2533107.06	2.64
129	Wheat	2000	Rabi	Bihar	2067333.00	4437958	1207.00	202950080.60	537506.58	2.07
130	Wheat	2000	Rabi	Chhattisgarh	77844.00	79488	896.40	7641945.48	20239.44	1.21
131	Wheat	2000	Rabi	Gujarat	286100.00	649000	379.70	28086437.00	74386.00	2.35

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
132	Wheat	2000	Rabi	Haryana	2354779.00	9669000	383.70	231168654.40	612242.54	3.99
133	Wheat	2000	Rabi	Himachal Pradesh	362660.00	261319	1068.40	35602332.20	94291.60	0.80
134	Wheat	2000	Rabi	Madhya Pradesh	3299120.00	4861992	723.30	323874610.40	857771.20	1.50
135	Wheat	2000	Rabi	Maharashtra	754200.00	947600	1057.80	74039814.00	196092.00	1.20
136	Wheat	2000	Rabi	Nagaland	5000.00	10000	1631.80	490850.00	1300.00	2.07
137	Wheat	2000	Rabi	Odisha	8819.00	12904	1066.00	865761.23	2292.94	1.20
138	Wheat	2000	Rabi	Punjab	3408000.00	15551000	405.30	334563360.00	886080.00	4.50
139	Wheat	2000	Rabi	Uttar Pradesh	9239311.00	25168332	874.40	907023160.90	2402220.86	2.68
140	Wheat	2000	Rabi	Uttarakhand	377340.00	711036	1413.40	37043467.80	98108.40	1.55
141	Wheat	2001	Rabi	Bihar	2181543.00	4499130	1247.00	222800986.60	567201.18	1.98
142	Wheat	2001	Rabi	Chhattisgarh	97861.00	103480	1550.00	9994543.93	25443.86	1.20
143	Wheat	2001	Rabi	Gujarat	470100.00	1144700	666.50	48011313.00	122226.00	2.47
144	Wheat	2001	Rabi	Haryana	2299876.00	9437000	483.80	234886335.90	597967.76	3.98
145	Wheat	2001	Rabi	Himachal Pradesh	366518.00	637068	918.10	37432483.34	95294.68	1.72
146	Wheat	2001	Rabi	Madhya Pradesh	3691707.00	5993596	955.00	377034035.90	959843.82	1.65
147	Wheat	2001	Rabi	Maharashtra	776000.00	1077400	1035.80	79252880.00	201760.00	1.31
148	Wheat	2001	Rabi	Nagaland	6000.00	12350	1532.00	612780.00	1560.00	2.04
149	Wheat	2001	Rabi	Odisha	6976.00	10565	1672.50	712458.88	1813.76	1.13
150	Wheat	2001	Rabi	Punjab	3420000.00	15499000	479.30	349284600.00	889200.00	4.49
151	Wheat	2001	Rabi	Uttar Pradesh	9255937.00	25498002	849.90	945308845.80	2406543.62	2.73
152	Wheat	2001	Rabi	Uttarakhand	375967.00	721618	1541.30	38397509.71	97751.42	1.62
153	Wheat	2002	Rabi	Bihar	2130933.00	4040610	1105.80	201735427.10	532733.25	1.84

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
154	Wheat	2002	Rabi	Chhattisgarh	93846.00	98592	1001.40	8884400.82	23461.50	1.19
155	Wheat	2002	Rabi	Gujarat	435600.00	856600	458.40	41238252.00	108900.00	2.19
156	Wheat	2002	Rabi	Haryana	2267140.00	9188000	353.90	214630143.80	566785.00	3.95
157	Wheat	2002	Rabi	Himachal Pradesh	359439.00	495558	890.80	34028090.13	89859.75	1.39
158	Wheat	2002	Rabi	Karnataka	246855.00	147748	860.80	23369762.85	61713.75	0.57
159	Wheat	2002	Rabi	Madhya Pradesh	3369481.00	4916044	800.80	318988766.30	842370.25	1.50
160	Wheat	2002	Rabi	Maharashtra	759800.00	983900	967.40	71930266.00	189950.00	1.23
161	Wheat	2002	Rabi	Meghalaya	2714.00	4745	4355.30	256934.38	678.50	1.46
162	Wheat	2002	Rabi	Nagaland	7650.00	15820	1536.60	724225.50	1912.50	2.08
163	Wheat	2002	Rabi	Odisha	4627.00	5767	1102.80	438038.09	1156.75	1.13
164	Wheat	2002	Rabi	Punjab	3375000.00	14175000	301.80	319511250.00	843750.00	4.13
165	Wheat	2002	Rabi	Uttarakhand	374802.00	721653	1610.30	35482505.34	93700.50	1.65
166	Wheat	2002	Rabi	Jharkhand	57203.69	78365	1041.20	5415473.33	14300.92	1.42
167	Wheat	2003	Rabi	Bihar	2076839.00	3688941	1353.90	205565524.20	498441.36	1.75
168	Wheat	2003	Rabi	Chhattisgarh	106109.00	113138	1643.70	10502668.82	25466.16	1.21
169	Wheat	2003	Rabi	Delhi	18973.00	82893	962.30	1877947.54	4553.52	4.37
170	Wheat	2003	Rabi	Gujarat	759500.00	2036500	902.50	75175310.00	182280.00	2.69
171	Wheat	2003	Rabi	Haryana	2315496.00	9114000	592.30	229187794.10	555719.04	3.83
172	Wheat	2003	Rabi	Jharkhand	60269.70	80183	1258.30	5965494.91	14464.73	1.36
173	Wheat	2003	Rabi	Madhya Pradesh	4078974.00	7357255	1163.00	403736846.50	978953.76	1.80
174	Wheat	2003	Rabi	Maharashtra	664700.00	778200	1037.40	65792006.00	159528.00	1.17
175	Wheat	2003	Rabi	Nagaland	10000.00	19500	1709.80	989800.00	2400.00	1.87

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
176	Wheat	2003	Rabi	Odisha	5129.00	7517	1648.20	507668.42	1230.96	1.38
177	Wheat	2003	Rabi	Punjab	3444000.00	14489000	451.70	340887120.00	826560.00	4.17
178	Wheat	2003	Rabi	Uttar Pradesh	9443104.00	26349910	1075.60	934678433.90	2266344.96	2.77
179	Wheat	2003	Rabi	Uttarakhand	383387.00	729653	1734.30	37947645.26	92012.88	1.53
180	Wheat	2004	Rabi	Andhra Pradesh	9174.00	4605	781.80	993911.16	1926.54	0.39
181	Wheat	2004	Rabi	Assam	63854.00	68083	2536.90	6917942.36	13409.34	1.06
182	Wheat	2004	Rabi	Bihar	2027643.00	3263385	1147.80	219674842.60	425805.03	1.57
183	Wheat	2004	Rabi	Chhattisgarh	99245.00	85215	1122.80	10752203.30	20841.45	0.96
184	Wheat	2004	Rabi	Delhi	18695.00	80800	651.90	2025416.30	3925.95	4.32
185	Wheat	2004	Rabi	Gujarat	727400.00	1805500	719.80	78806516.00	152754.00	2.63
186	Wheat	2004	Rabi	Haryana	2316674.00	9043000	484.60	250988461.20	486501.54	3.77
187	Wheat	2004	Rabi	Madhya Pradesh	4188248.00	7320042	895.70	453754788.30	879532.08	1.71
188	Wheat	2004	Rabi	Maharashtra	755700.00	1016300	1052.00	81872538.00	158697.00	1.20
189	Wheat	2004	Rabi	Nagaland	8200.00	13000	1711.50	888388.00	1722.00	1.49
190	Wheat	2004	Rabi	Punjab	3482000.00	14698000	366.40	377239880.00	731220.00	4.18
191	Wheat	2004	Rabi	Tripura	944.00	1942	2706.30	102272.96	198.24	2.05
192	Wheat	2004	Rabi	Uttarakhand	387103.00	799221	1219.60	41938739.02	81291.63	1.78
193	Wheat	2004	Rabi	Jharkhand	57905.58	72740	1149.20	6273490.54	12160.17	1.26
194	Wheat	2004	Rabi	West Bengal	400093.00	841471	1612.90	43346075.62	84019.53	2.10
195	Wheat	2005	Rabi	Bihar	2001771.00	2821120	907.80	240052378.30	420371.91	1.35
196	Wheat	2005	Rabi	Chhattisgarh	97074.00	85191	1292.70	11641114.08	20385.54	1.01
197	Wheat	2005	Rabi	Delhi	18279.00	79404	653.10	2192017.68	3838.59	4.34

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
198	Wheat	2005	Rabi	Gujarat	858800.00	2319200	942.40	102987296.00	180348.00	2.58
199	Wheat	2005	Rabi	Haryana	2302682.00	8502000	516.90	276137625.40	483563.22	3.61
200	Wheat	2005	Rabi	Himachal Pradesh	358453.00	365885	1248.10	42985683.76	75275.13	1.08
201	Wheat	2005	Rabi	Madhya Pradesh	3772615.00	6192368	1032.70	452411990.80	792249.15	1.65
202	Wheat	2005	Rabi	Maharashtra	932800.00	1300700	1387.20	111861376.00	195888.00	1.33
203	Wheat	2005	Rabi	Nagaland	1200.00	1920	1568.60	143904.00	252.00	1.66
204	Wheat	2005	Rabi	Punjab	3468000.00	14493000	566.70	415882560.00	728280.00	4.15
205	Wheat	2005	Rabi	Tripura	1750.00	3184	1765.90	209860.00	367.50	1.83
206	Wheat	2005	Rabi	Uttarakhand	379237.00	642216	1353.30	45478101.04	79639.77	1.35
207	Wheat	2005	Rabi	Jharkhand	50326.23	51263	965.20	6035121.50	10568.51	1.02
208	Wheat	2006	Rabi	Bihar	2076727.00	4155541	1052.80	265218805.20	456879.94	1.92
209	Wheat	2006	Rabi	Chhattisgarh	93213.00	93952	1317.20	11904232.23	20506.86	1.06
210	Wheat	2006	Rabi	Delhi	17884.00	77885	462.70	2283965.64	3934.48	4.36
211	Wheat	2006	Rabi	Gujarat	1072300.00	2791500	1056.20	136943433.00	235906.00	2.57
212	Wheat	2006	Rabi	Haryana	2377067.00	10059000	329.30	303575226.60	522954.74	4.06
213	Wheat	2006	Rabi	Himachal Pradesh	362245.00	596493	1207.00	46262308.95	79693.90	1.64
214	Wheat	2006	Rabi	Madhya Pradesh	4262382.00	7840446	1072.30	544348805.20	937724.04	1.73
215	Wheat	2006	Rabi	Maharashtra	1230800.00	1871000	1439.40	157185468.00	270776.00	1.45
216	Wheat	2006	Rabi	Nagaland	1500.00	1250	1362.50	191565.00	330.00	0.86
217	Wheat	2006	Rabi	Punjab	3467000.00	14596000	569.60	442770570.00	762740.00	4.15
218	Wheat	2006	Rabi	Tripura	970.00	1845	1764.30	123878.70	213.40	1.89
219	Wheat	2006	Rabi	Uttar Pradesh	9197642.00	25443428	590.50	1174630860.00	2023481.24	2.73

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
220	Wheat	2006	Rabi	Uttarakhand	377870.00	796548	1178.90	48257777.70	83131.40	1.76
221	Wheat	2006	Rabi	Jharkhand	124418.04	163905	1465.10	15889427.89	27371.97	1.28
222	Wheat	2007	Rabi	Andhra Pradesh	8000.00	8000	1004.20	1067200.00	1280.00	1.00
223	Wheat	2007	Rabi	Bihar	2131232.00	4977463	1600.20	284306348.80	340997.12	2.23
224	Wheat	2007	Rabi	Chhattisgarh	95020.00	104548	1246.20	12675668.00	15203.20	1.30
225	Wheat	2007	Rabi	Gujarat	1273900.00	3837700	1021.60	169938260.00	203824.00	2.93
226	Wheat	2007	Rabi	Haryana	2460680.00	10232000	443.80	328254712.00	393708.80	4.04
227	Wheat	2007	Rabi	Himachal Pradesh	366592.00	504360	1095.40	48903372.80	58654.72	1.50
228	Wheat	2007	Rabi	Madhya Pradesh	4089343.00	6729363	740.40	545518356.20	654294.88	1.55
229	Wheat	2007	Rabi	Maharashtra	1252800.00	2371100	1257.20	167123520.00	200448.00	1.78
230	Wheat	2007	Rabi	Meghalaya	622.00	1120	4702.00	82974.80	99.52	1.24
231	Wheat	2007	Rabi	Nagaland	1150.00	1800	1769.00	153410.00	184.00	1.56
232	Wheat	2007	Rabi	Punjab	3488000.00	15720000	527.20	465299200.00	558080.00	4.48
233	Wheat	2007	Rabi	Tripura	1023.00	1889	2831.80	136468.20	163.68	1.88
234	Wheat	2007	Rabi	Uttar Pradesh	9114880.00	25679089	672.90	1215924992.00	1458380.80	2.72
235	Wheat	2007	Rabi	Uttarakhand	372919.00	798233	1924.30	49747394.60	59667.04	1.67
236	Wheat	2007	Rabi	Jharkhand	54845.72	68534	1444.70	7316419.05	8775.32	1.43
237	Wheat	2008	Rabi	Bihar	2158345.00	4413017	1197.70	308729668.80	194251.05	1.98
238	Wheat	2008	Rabi	Chhattisgarh	94834.00	97424	1117.90	13565055.36	8535.06	1.15
239	Wheat	2008	Rabi	Gujarat	1091400.00	2592600	746.10	156113856.00	98226.00	2.35
240	Wheat	2008	Rabi	Haryana	2461420.00	11360000	715.60	352081516.80	221527.80	4.44
241	Wheat	2008	Rabi	Himachal Pradesh	359961.00	381180	1357.10	51488821.44	32396.49	1.08

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
242	Wheat	2008	Rabi	Madhya Pradesh	3997666.00	7272210	895.00	571826144.60	359789.94	1.76
243	Wheat	2008	Rabi	Maharashtra	1021800.00	1516400	1052.80	146158272.00	91962.00	1.43
244	Wheat	2008	Rabi	Manipur	2050.00	5120	1134.80	293232.00	184.50	2.50
245	Wheat	2008	Rabi	Nagaland	1380.00	2070	1540.90	197395.20	124.20	1.50
246	Wheat	2008	Rabi	Punjab	3466000.00	15733000	691.30	495776640.00	311940.00	4.50
247	Wheat	2008	Rabi	Tripura	635.00	1195	1827.80	90830.40	57.15	1.91
248	Wheat	2008	Rabi	Uttar Pradesh	9513039.00	28554178	891.60	1360745099.00	856173.51	2.96
249	Wheat	2008	Rabi	Uttarakhand	379081.00	770934	1363.70	54223746.24	34117.29	1.49
250	Wheat	2008	Rabi	Jammu and Kashmir	274022.00	492140	1390.10	39196106.88	24661.98	1.44
251	Wheat	2008	Rabi	Jharkhand	58602.34	79871	1295.20	8382478.71	5274.21	1.44
252	Wheat	2009	Rabi	Bihar	2116098.00	4403841	889.30	329730390.40	359736.66	2.08
253	Wheat	2009	Rabi	Chhattisgarh	109163.00	118923	956.90	17009778.66	18557.71	1.30
254	Wheat	2009	Rabi	Gujarat	878000.00	2351300	618.00	136809960.00	149260.00	2.62
255	Wheat	2009	Rabi	Haryana	2487756.00	10488000	393.00	387642139.90	422918.52	4.13
256	Wheat	2009	Rabi	Himachal Pradesh	350440.00	324174	969.90	54605560.80	59574.80	0.93
257	Wheat	2009	Rabi	Maharashtra	1080900.00	1740200	1002.40	168425838.00	183753.00	1.53
258	Wheat	2009	Rabi	Manipur	12000.00	25050	992.50	1869840.00	2040.00	2.07
259	Wheat	2009	Rabi	Nagaland	2010.00	2410	1225.90	313198.20	341.70	1.20
260	Wheat	2009	Rabi	Punjab	3522000.00	15169000	371.30	548798040.00	598740.00	4.32
261	Wheat	2009	Rabi	Tripura	667.00	1323	2004.20	103931.94	113.39	1.98
262	Wheat	2009	Rabi	Uttar Pradesh	9668152.00	27518022	585.80	1506491445.00	1643585.84	2.81
263	Wheat	2009	Rabi	Uttarakhand	372846.00	829319	847.80	58096863.72	63383.82	1.67

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
264	Wheat	2009	Rabi	Jharkhand	52510.00	61618	996.10	8182108.20	8926.70	1.31
265	Wheat	2009	Rabi	West Bengal	315888.00	846657	1317.20	49221668.16	53700.96	2.40
266	Wheat	2009	Whole Year	Madhya Pradesh	4458995.00	8865378	904.10	694800600.90	758029.15	1.85
267	Wheat	2010	Rabi	Bihar	2100181.00	5094030	629.20	348861065.90	504043.44	2.28
268	Wheat	2010	Rabi	Chhattisgarh	103701.00	121745	1283.10	17225773.11	24888.24	1.40
269	Wheat	2010	Rabi	Gujarat	1588600.00	5013400	1107.50	263882346.00	381264.00	3.04
270	Wheat	2010	Rabi	Haryana	2503963.00	11578000	639.20	415933293.90	600951.12	4.48
271	Wheat	2010	Rabi	Himachal Pradesh	346936.00	534707	1319.80	57629538.96	83264.64	1.54
272	Wheat	2010	Rabi	Madhya Pradesh	4633125.00	9219781	856.30	769608393.70	1111950.00	1.87
273	Wheat	2010	Rabi	Maharashtra	1306600.00	2300800	1389.00	217039326.00	313584.00	1.71
274	Wheat	2010	Rabi	Manipur	2100.00	5250	2160.50	348831.00	504.00	2.48
275	Wheat	2010	Rabi	Nagaland	3120.00	5340	1771.80	518263.20	748.80	1.71
276	Wheat	2010	Rabi	Punjab	3510000.00	16472000	392.70	583046100.00	842400.00	4.65
277	Wheat	2010	Rabi	Tripura	316.00	637	2348.30	52490.76	75.84	2.02
278	Wheat	2010	Rabi	Uttar Pradesh	9636540.00	30000632	742.60	1600725659.00	2312769.60	3.08
279	Wheat	2010	Rabi	Uttarakhand	371225.00	882920	1419.00	61664184.75	89094.00	1.86
280	Wheat	2010	Rabi	Jammu and Kashmir	286777.00	442706	1352.00	47636527.47	68826.48	1.47
281	Wheat	2010	Rabi	Jharkhand	49596.00	54110	694.60	8238391.56	11903.04	1.09
282	Wheat	2010	Rabi	West Bengal	316808.00	874415	1096.00	52624976.88	76033.92	2.50
283	Wheat	2011	Rabi	Bihar	2141892.00	6530955	1097.10	358809747.80	706824.36	3.03
284	Wheat	2011	Rabi	Chhattisgarh	104825.00	135121	1302.70	17560284.00	34592.25	1.51
285	Wheat	2011	Rabi	Gujarat	1350600.00	4072100	890.50	226252512.00	445698.00	3.01

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
286	Wheat	2011	Rabi	Haryana	2531302.00	13119000	471.54	424043711.00	835329.66	5.03
287	Wheat	2011	Rabi	Himachal Pradesh	345182.00	506782	1108.30	57824888.64	113910.06	1.42
288	Wheat	2011	Rabi	Madhya Pradesh	5248479.00	14537038	852.60	879225202.10	1731998.07	2.59
289	Wheat	2011	Rabi	Maharashtra	878100.00	1498800	1174.10	147099312.00	289773.00	1.65
290	Wheat	2011	Rabi	Manipur	2150.00	5370	1533.56	360168.00	709.50	2.47
291	Wheat	2011	Rabi	Nagaland	3150.00	5390	1544.35	527688.00	1039.50	1.71
292	Wheat	2011	Rabi	Punjab	3528000.00	17982000	705.20	591010560.00	1164240.00	5.07
293	Wheat	2011	Rabi	Tripura	274.00	536	2295.61	45900.48	90.42	1.94
294	Wheat	2011	Rabi	Uttar Pradesh	9731150.00	31892480	777.40	1630162248.00	3211279.50	3.25
295	Wheat	2011	Rabi	Uttarakhand	355549.00	864836	1564.70	59561568.48	117331.17	1.87
296	Wheat	2011	Rabi	Jharkhand	47933.00	73657	1374.70	8029736.16	15817.89	1.49
297	Wheat	2011	Rabi	West Bengal	315659.00	872895	1686.50	52879195.68	104167.47	2.49
298	Wheat	2012	Rabi	Bihar	2207704.00	6174260	924.10	332921763.20	684388.24	2.75
299	Wheat	2012	Rabi	Chhattisgarh	102230.00	143226	1366.80	15416284.00	31691.30	1.61
300	Wheat	2012	Rabi	Gujarat	1023500.00	2944000	460.60	154343800.00	317285.00	2.92
301	Wheat	2012	Rabi	Haryana	2496905.00	11117000	307.90	376533274.00	774040.55	4.41
302	Wheat	2012	Rabi	Himachal Pradesh	350121.00	656543	1035.00	52798246.80	108537.51	1.89
303	Wheat	2012	Rabi	Madhya Pradesh	5601025.00	16510524	1049.50	844634570.00	1736317.75	2.86
304	Wheat	2012	Rabi	Maharashtra	785000.00	1198700	1003.40	118378000.00	243350.00	1.46
305	Wheat	2012	Rabi	Manipur	2400.00	6000	1176.70	361920.00	744.00	2.50
306	Wheat	2012	Rabi	Nagaland	3270.00	5890	1296.60	493116.00	1013.70	1.80
307	Wheat	2012	Rabi	Punjab	3517000.00	16614000	338.90	530363600.00	1090270.00	4.68

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
308	Wheat	2012	Rabi	Tripura	334.00	827	1882.20	50367.20	103.54	2.44
309	Wheat	2012	Rabi	Uttar Pradesh	9733617.00	31332434	746.30	1467829444.00	3017421.27	3.25
310	Wheat	2012	Rabi	Uttarakhand	349669.00	853769	1309.80	52730085.20	108397.39	1.95
311	Wheat	2012	Rabi	Jharkhand	69336.00	128571	1102.00	10455868.80	21494.16	1.66
312	Wheat	2012	Rabi	West Bengal	321572.00	895927	1566.00	48493057.60	99687.32	2.56
313	Wheat	2013	Rabi	Bihar	2148818.00	6134679	1069.90	310482712.80	580180.86	2.83
314	Wheat	2013	Rabi	Chhattisgarh	105033.00	140756	1418.30	15176218.17	28358.91	1.53
315	Wheat	2013	Rabi	Gujarat	1442288.00	4607993	1006.50	208396193.10	389417.76	3.07
316	Wheat	2013	Rabi	Haryana	2499000.00	11800000	452.20	361080510.00	674730.00	4.62
317	Wheat	2013	Rabi	Himachal Pradesh	415665.00	324283	1216.90	60059435.85	112229.55	0.79
318	Wheat	2013	Rabi	Madhya Pradesh	6123044.00	15722722	1451.40	884718627.60	1653221.88	2.54
319	Wheat	2013	Rabi	Maharashtra	1028200.00	1480000	1409.80	148564618.00	277614.00	1.46
320	Wheat	2013	Rabi	Manipur	2160.00	5400	1428.80	312098.40	583.20	2.50
321	Wheat	2013	Rabi	Nagaland	3000.00	5470	1350.90	433470.00	810.00	1.82
322	Wheat	2013	Rabi	Punjab	3512000.00	17620000	586.60	507448880.00	948240.00	4.94
323	Wheat	2013	Rabi	Telangana	7039.00	4366	1348.70	1017065.11	1900.53	0.74
324	Wheat	2013	Rabi	Tripura	150.00	300	2043.50	21673.50	40.50	1.93
325	Wheat	2013	Rabi	Uttar Pradesh	9839197.00	31492656	995.20	1421665575.00	2656583.19	3.22
326	Wheat	2013	Rabi	Uttarakhand	343637.00	848134	1735.40	49652110.13	92781.99	1.98
327	Wheat	2013	Rabi	Jharkhand	73527.00	106208	1253.60	10623916.23	19852.29	1.55
328	Wheat	2013	Rabi	West Bengal	331481.00	927837	1939.90	47895689.69	89499.87	2.54
329	Wheat	2014	Rabi	Bihar	2154423.00	3570211	1061.00	325231696.10	710959.59	1.68

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330	Wheat	2014	Rabi	Chhattisgarh	103195.00	153321	1274.70	15578317.20	34054.35	1.75
331	Wheat	2014	Rabi	Gujarat	1171449.00	3293487	605.60	176841941.00	386578.17	2.82
332	Wheat	2014	Rabi	Haryana	2628000.00	10457000	301.30	396722880.00	867240.00	3.78
333	Wheat	2014	Rabi	Himachal Pradesh	345548.00	639209	1019.90	52163926.08	114030.84	1.85
334	Wheat	2014	Rabi	Madhya Pradesh	5999000.00	18463000	891.20	905609040.00	1979670.00	2.90
335	Wheat	2014	Rabi	Maharashtra	1067300.00	1307700	1001.60	161119608.00	352209.00	1.20
336	Wheat	2014	Rabi	Manipur	2160.00	5620	987.50	326073.60	712.80	2.63
337	Wheat	2014	Rabi	Nagaland	3070.00	5600	1333.30	463447.20	1013.10	1.82
338	Wheat	2014	Rabi	Punjab	3505000.00	15050000	382.70	529114800.00	1156650.00	4.17
339	Wheat	2014	Rabi	Telangana	5828.00	6929	746.40	879794.88	1923.24	1.16
340	Wheat	2014	Rabi	Tripura	135.00	304	2015.70	20379.60	44.55	2.21
341	Wheat	2014	Rabi	Uttar Pradesh	9846466.00	20054791	616.40	1486422507.00	3249333.78	2.07
342	Wheat	2014	Rabi	Uttarakhand	343879.00	662026	1287.40	51911973.84	113480.07	1.54
343	Wheat	2014	Rabi	Jharkhand	63741.00	96435	1156.60	9622341.36	21034.53	1.47
344	Wheat	2014	Winter	Jharkhand	23515.00	42516	1156.60	3549824.40	7759.95	1.44
345	Wheat	2014	Rabi	West Bengal	334640.00	939254	1483.50	50517254.40	110431.20	2.62
346	Wheat	2015	Rabi	Bihar	2110750.00	4736448	874.00	333308532.50	696547.50	2.31
347	Wheat	2015	Rabi	Chhattisgarh	105785.00	142329	1136.00	16704509.35	34909.05	1.52
348	Wheat	2015	Rabi	Gujarat	857696.00	2315849	584.30	135438775.40	283039.68	2.68
349	Wheat	2015	Rabi	Haryana	2576000.00	11350000	426.80	406776160.00	850080.00	4.25
350	Wheat	2015	Rabi	Himachal Pradesh	342675.00	602287	1223.20	54111809.25	113082.75	1.60
351	Wheat	2015	Rabi	Madhya Pradesh	5914000.00	18408000	1000.70	933879740.00	1951620.00	2.96

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352	Wheat	2015	Rabi	Maharashtra	910854.00	981351	875.70	143832955.10	300581.82	1.03
353	Wheat	2015	Rabi	Manipur	2250.00	5620	1329.10	355297.50	742.50	2.50
354	Wheat	2015	Rabi	Nagaland	3250.00	5950	1308.30	513207.50	1072.50	1.83
355	Wheat	2015	Rabi	Punjab	3508000.00	16077000	512.60	553948280.00	1157640.00	4.55
356	Wheat	2015	Rabi	Telangana	4952.00	16902	747.90	781970.32	1634.16	2.95
357	Wheat	2015	Rabi	Tripura	182.00	407	2334.40	28739.62	60.06	2.22
358	Wheat	2015	Rabi	Uttar Pradesh	9644838.00	26874361	596.70	1523016369.00	3182796.54	2.77
359	Wheat	2015	Rabi	Uttarakhand	342650.00	790370	1247.60	54107861.50	113074.50	1.68
360	Wheat	2015	Rabi	Jharkhand	71027.00	113701	1085.60	11215873.57	23438.91	1.46
361	Wheat	2015	Rabi	West Bengal	339851.00	788503	1717.00	53665871.41	112150.83	2.19
362	Wheat	2016	Rabi	Arunachal Pradesh	3910.00	7700	2933.70	599207.50	1368.50	2.10
363	Wheat	2016	Rabi	Bihar	2105811.00	5985841	1205.60	322715535.80	737033.85	2.78
364	Wheat	2016	Rabi	Chhattisgarh	102114.00	151078	1298.90	15648970.50	35739.90	1.66
365	Wheat	2016	Rabi	Gujarat	999370.00	2757755	710.50	153153452.50	349779.50	2.74
366	Wheat	2016	Rabi	Haryana	2542100.00	12310000	554.70	389576825.00	889735.00	4.74
367	Wheat	2016	Rabi	Himachal Pradesh	325910.00	331303	1373.90	49945707.50	114068.50	1.03
368	Wheat	2016	Rabi	Madhya Pradesh	6423000.00	21916000	1048.40	984324750.00	2248050.00	3.29
369	Wheat	2016	Rabi	Maharashtra	1272006.00	2214012	1151.10	194934919.50	445202.10	1.73
370	Wheat	2016	Rabi	Manipur	2250.00	5620	2039.80	344812.50	787.50	2.50
371	Wheat	2016	Rabi	Nagaland	3380.00	6220	1959.80	517985.00	1183.00	1.84
372	Wheat	2016	Rabi	Punjab	3495000.00	17636000	635.90	535608750.00	1223250.00	4.97
373	Wheat	2016	Rabi	Telangana	5409.00	7413	942.60	828929.25	1893.15	1.22

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374	Wheat	2016	Rabi	Tripura	200.00	460	2475.30	30650.00	70.00	2.26
375	Wheat	2016	Rabi	Uttar Pradesh	9884913.00	34971381	965.30	1514862917.00	3459719.55	3.56
376	Wheat	2016	Rabi	Uttarakhand	339572.00	891700	1580.90	52039409.00	118850.20	1.96
377	Wheat	2016	Rabi	Jharkhand	112109.00	226854	1296.30	17180704.25	39238.15	2.15
378	Wheat	2016	Rabi	West Bengal	321621.00	862712	1795.80	49288418.25	112567.35	2.39
379	Wheat	2017	Rabi	Arunachal Pradesh	3930.00	7742	2745.50	618739.20	1493.40	2.10
380	Wheat	2017	Rabi	Bihar	2101311.00	6104303	1112.00	330830403.80	798498.18	2.87
381	Wheat	2017	Rabi	Chhattisgarh	102195.00	141642	1124.50	16089580.80	38834.10	1.50
382	Wheat	2017	Rabi	Gujarat	1058778.00	3101037	814.80	166694008.30	402335.64	2.93
383	Wheat	2017	Rabi	Haryana	2530500.00	12265100	417.10	398401920.00	961590.00	4.71
384	Wheat	2017	Rabi	Himachal Pradesh	342675.00	603587	1182.20	53950752.00	130216.50	1.61
385	Wheat	2017	Rabi	Jharkhand	220963.00	468754	1165.70	34788414.72	83965.94	2.16
386	Wheat	2017	Rabi	Madhya Pradesh	5802980.00	20019950	800.00	913621171.20	2205132.40	3.35
387	Wheat	2017	Rabi	Maharashtra	1137731.50	1884842	1129.50	179124447.40	432337.97	1.51
388	Wheat	2017	Rabi	Manipur	2250.00	5620	1780.00	354240.00	855.00	2.50
389	Wheat	2017	Rabi	Nagaland	3410.00	6260	1722.10	536870.40	1295.80	1.83
390	Wheat	2017	Rabi	Punjab	3512000.00	17830000	497.50	552929280.00	1334560.00	5.01
391	Wheat	2017	Kharif	Telangana	2.00	2	815.70	314.88	0.76	1.00
392	Wheat	2017	Rabi	Telangana	4156.00	5771	815.70	654320.64	1579.28	1.43
393	Wheat	2017	Rabi	Tripura	195.00	396	3326.80	30700.80	74.10	2.02
394	Wheat	2017	Rabi	Uttar Pradesh	9752941.00	35645666	652.10	1535503031.00	3706117.58	3.65
395	Wheat	2017	Rabi	Uttarakhand	330401.00	929884	1475.80	52018333.44	125552.38	2.10

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396	Wheat	2017	Rabi	West Bengal	117360.00	362744	1830.00	18477158.40	44596.80	2.68
397	Wheat	2018	Rabi	Arunachal Pradesh	3930.00	7742	2992.90	637446.00	1375.50	2.15
398	Wheat	2018	Rabi	Bihar	2156652.00	6465905	1521.40	349808954.40	754828.20	2.96
399	Wheat	2018	Rabi	Chhattisgarh	99925.00	166979	1515.50	16207835.00	34973.75	1.79
400	Wheat	2018	Rabi	Gujarat	797156.00	2407132	1125.40	129298703.20	279004.60	3.01
401	Wheat	2018	Rabi	Haryana	2553100.00	12573000	533.20	414112820.00	893585.00	4.83
402	Wheat	2018	Rabi	Himachal Pradesh	319002.00	564634	1052.20	51742124.40	111650.70	1.59
403	Wheat	2018	Rabi	Jharkhand	163847.00	302559	1222.70	26575983.40	57346.45	1.92
404	Wheat	2018	Rabi	Madhya Pradesh	7721549.00	25276038	1102.20	1252435248.00	2702542.15	3.14
405	Wheat	2018	Rabi	Maharashtra	834423.25	1249407	1387.40	135343451.10	292048.14	1.39
406	Wheat	2018	Rabi	Manipur	2290.00	5730	1196.90	371438.00	801.50	2.40
407	Wheat	2018	Rabi	Nagaland	3420.00	6260	1372.70	554724.00	1197.00	1.83
408	Wheat	2018	Rabi	Punjab	3520000.00	18262000	585.50	570944000.00	1232000.00	5.07
409	Wheat	2018	Rabi	Telangana	4844.00	9093	1350.30	785696.80	1695.40	1.81
410	Wheat	2018	Rabi	Tripura	157.00	332	2169.10	25465.40	54.95	2.09
411	Wheat	2018	Rabi	Uttar Pradesh	9855900.00	38039724	792.80	1598626980.00	3449565.00	3.86
412	Wheat	2018	Rabi	Uttarakhand	307452.00	927657	1373.00	49868714.40	107608.20	2.35
413	Wheat	2018	Rabi	West Bengal	112147.00	337751	2012.60	18190243.40	39251.45	2.48
414	Wheat	2019	Rabi	Arunachal Pradesh	3930.00	7742	2433.30	675016.80	1454.10	2.17
415	Wheat	2019	Rabi	Bihar	2150180.00	5579348	1194.70	369314916.80	795566.60	2.57
416	Wheat	2019	Rabi	Chhattisgarh	116274.00	135888	1420.30	19971222.24	43021.38	1.34
417	Wheat	2019	Rabi	Gujarat	1393487.00	4553681	1067.80	239345327.10	515590.19	3.14

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418	Wheat	2019	Rabi	Haryana	2533800.00	11876900	351.80	435205488.00	937506.00	4.62
419	Wheat	2019	Rabi	Himachal Pradesh	319098.00	619689	1217.70	54808272.48	118066.26	1.76
420	Wheat	2019	Rabi	Jharkhand	214780.00	439401	1137.80	36890612.80	79468.60	2.06
421	Wheat	2019	Rabi	Madhya Pradesh	10216517.00	37507219	1446.70	1754788960.00	3780111.29	3.52
422	Wheat	2019	Rabi	Maharashtra	1056965.00	1793440	1555.80	181544308.40	391077.05	1.56
423	Wheat	2019	Rabi	Nagaland	3430.00	6280	1593.00	589136.80	1269.10	1.83
424	Wheat	2019	Summer	Odisha	118.00	164	1593.90	20267.68	43.66	1.50
425	Wheat	2019	Rabi	Punjab	3521000.00	17619000	653.20	604766960.00	1302770.00	4.89
426	Wheat	2019	Kharif	Telangana	1.00	0	1031.70	171.76	0.37	0.00
427	Wheat	2019	Rabi	Telangana	4471.00	8237	1031.70	767938.96	1654.27	1.80
428	Wheat	2019	Rabi	Tripura	148.00	331	2252.80	25420.48	54.76	2.23
429	Wheat	2019	Rabi	Uttar Pradesh	9852504.00	36209665	814.50	1692266087.00	3645426.48	3.69
430	Wheat	2019	Rabi	Uttarakhand	303283.00	887440	1378.90	52091888.08	112214.71	2.38
431	Wheat	2019	Rabi	West Bengal	188308.00	509970	1733.40	32343782.08	69673.96	2.65
432	Wheat	1997	Rabi	Haryana	2057000.00	7528000	661.20	195764690.00	637670.00	3.61
433	Wheat	1998	Rabi	Delhi	31037.00	107729	784.50	3066455.60	9000.73	3.47
434	Wheat	1999	Rabi	Andhra Pradesh	13515.00	9056	650.40	1434346.95	3649.05	0.66
435	Wheat	1999	Rabi	Delhi	33505.00	122058	365.90	3555885.65	9046.35	3.64
436	Wheat	2000	Rabi	Delhi	27836.00	97927	544.30	2732660.12	7237.36	3.52
437	Wheat	2000	Rabi	Jammu and Kashmir	276815.00	145060	989.50	27174928.55	71971.90	0.82
438	Wheat	2001	Rabi	Delhi	26114.00	91660	611.90	2667022.82	6789.64	3.51
439	Wheat	2001	Rabi	Jammu and Kashmir	255514.00	339390	953.80	26095644.82	66433.64	1.42

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
440	Wheat	2002	Rabi	Delhi	19860.00	79718	593.60	1880146.20	4965.00	4.01
441	Wheat	2002	Rabi	Jammu and Kashmir	244157.00	401900	933.20	23114343.19	61039.25	1.47
442	Wheat	2002	Rabi	Uttar Pradesh	9162749.00	23745162	664.00	867437447.80	2290687.25	2.56
443	Wheat	2003	Rabi	Himachal Pradesh	365359.00	496930	1112.60	36163233.82	87686.16	1.36
444	Wheat	2003	Rabi	Jammu and Kashmir	250282.00	455540	1430.30	24772912.36	60067.68	1.51
445	Wheat	2004	Rabi	Himachal Pradesh	367770.00	687452	939.20	39844201.80	77231.70	1.84
446	Wheat	2004	Rabi	Jammu and Kashmir	248613.00	474415	1032.10	26934732.42	52208.73	1.81
447	Wheat	2004	Summer	Odisha	4054.00	5313	1290.40	439210.36	851.34	1.27
448	Wheat	2004	Rabi	Uttar Pradesh	9373402.00	23430044	704.00	1015514373.00	1968414.42	2.47
449	Wheat	2005	Kharif	Jammu and Kashmir	436.00	60	1721.80	52285.12	91.56	0.14
450	Wheat	2005	Rabi	Jammu and Kashmir	436.00	60	1721.80	52285.12	91.56	0.14
451	Wheat	2005	Rabi	Uttar Pradesh	9163949.00	23573776	751.90	1098940764.00	1924429.29	2.54
452	Wheat	2006	Rabi	Jammu and Kashmir	261584.00	494300	1786.50	33406892.64	57548.48	1.82
453	Wheat	2007	Rabi	Delhi	17482.00	76222	677.50	2332098.80	2797.12	4.36
454	Wheat	2007	Kharif	Jammu and Kashmir	20.00	2	1042.20	2668.00	3.20	0.12
455	Wheat	2007	Rabi	Jammu and Kashmir	261584.00	494300	1042.20	34895305.60	41853.44	1.76
456	Wheat	2008	Rabi	Delhi	18430.00	80355	614.60	2636227.20	1658.70	4.36
457	Wheat	2009	Rabi	Delhi	21309.00	92480	528.40	3320368.38	3622.53	4.34
458	Wheat	2009	Rabi	Jammu and Kashmir	284644.00	286143	751.70	44353228.08	48389.48	1.17
459	Wheat	2010	Rabi	Delhi	20135.00	87385	989.50	3344624.85	4832.40	4.34
460	Wheat	2011	Rabi	Delhi	18927.00	82142	641.40	3170651.04	6245.91	4.34
461	Wheat	2011	Rabi	Jammu and Kashmir	291994.00	496542	887.60	48914834.88	96358.02	1.42

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
462	Wheat	2012	Rabi	Delhi	19450.00	84802	451.90	2933060.00	6029.50	4.36
463	Wheat	2012	Rabi	Jammu and Kashmir	289964.00	462422	1116.70	43726571.20	89888.84	1.33
464	Wheat	2013	Rabi	Delhi	19450.00	86498	706.80	2810330.50	5251.50	4.45
465	Wheat	2014	Rabi	Delhi	19360.00	85558	416.40	2922585.60	6388.80	4.42
466	Wheat	2015	Rabi	Delhi	19050.00	83419	757.70	3008185.50	6286.50	4.38
467	Wheat	2015	Rabi	Jammu and Kashmir	281870.00	544889	1572.60	44510091.70	93017.10	1.33
468	Wheat	2016	Rabi	Delhi	19622.00	87182	747.10	3007071.50	6867.70	4.44
469	Wheat	2016	Rabi	Jammu and Kashmir	290301.00	548542	902.80	44488628.25	101605.35	1.42
470	Wheat	2017	Rabi	Delhi	19671.00	83419	533.70	3097002.24	7474.98	4.24
471	Wheat	2017	Rabi	Jammu and Kashmir	299336.00	640196	1279.10	47127459.84	113747.68	1.65
472	Wheat	2018	Rabi	Delhi	19220.00	82876	678.50	3117484.00	6727.00	4.31
473	Wheat	2018	Rabi	Jammu and Kashmir	288387.00	671799	1016.30	46776371.40	100935.45	1.69
474	Wheat	2019	Rabi	Delhi	19228.00	82905	546.90	3302601.28	7114.36	4.31
475	Wheat	2019	Rabi	Jammu and Kashmir	243929.00	488297	1324.10	41897245.04	90253.73	1.66
476	Wheat	1997	Rabi	Sikkim	8090.00	14200	2804.10	769925.30	2507.90	1.75
477	Wheat	1998	Rabi	Sikkim	7941.00	6416	3183.80	784570.80	2302.89	0.79
478	Wheat	1999	Rabi	Sikkim	8100.00	12849	2678.50	859653.00	2187.00	1.57
479	Wheat	2000	Rabi	Sikkim	7215.00	10103	2504.80	708296.55	1875.90	1.37
480	Wheat	2001	Rabi	Sikkim	8710.00	10485	2372.50	889552.30	2264.60	1.12
481	Wheat	2002	Rabi	Sikkim	8330.00	10400	2496.20	788601.10	2082.50	1.21
482	Wheat	2003	Rabi	Sikkim	6805.00	8686	2838.10	673558.90	1633.20	1.21
483	Wheat	2004	Rabi	Sikkim	5740.00	8250	1650.50	621871.60	1205.40	1.39

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
484	Wheat	2005	Rabi	Sikkim	5740.00	9250	2041.60	688340.80	1205.40	1.55
485	Wheat	2006	Rabi	Sikkim	6380.00	10360	2270.20	814789.80	1403.60	1.57
486	Wheat	2007	Rabi	Sikkim	4460.00	4460	2003.40	594964.00	713.60	1.00
487	Wheat	2008	Rabi	Sikkim	3900.00	3500	2247.50	557856.00	351.00	0.88
488	Wheat	2009	Rabi	Sikkim	5200.00	4720	2176.60	810264.00	884.00	0.93
489	Wheat	2010	Rabi	Sikkim	2650.00	2710	2527.00	440191.50	636.00	1.03
490	Wheat	2011	Rabi	Sikkim	2500.00	2650	2585.49	418800.00	825.00	1.06
491	Wheat	2012	Rabi	Sikkim	520.00	550	3006.90	78416.00	161.20	1.05
492	Wheat	2013	Rabi	Jammu and Kashmir	292380.00	464577	1193.80	42245986.20	78942.60	1.27
493	Wheat	2013	Rabi	Sikkim	360.00	385	2567.60	52016.40	97.20	1.03
494	Wheat	2014	Rabi	Sikkim	390.00	420	2627.00	58874.40	128.70	1.05
495	Wheat	2015	Rabi	Sikkim	323.00	346	2949.10	51004.93	106.59	1.04
496	Wheat	2016	Rabi	Sikkim	265.00	286	2971.60	40611.25	92.75	1.05
497	Wheat	2017	Rabi	Sikkim	172.00	185	2873.60	27079.68	65.36	1.03
498	Wheat	2018	Rabi	Sikkim	163.00	176	3350.10	26438.60	57.05	1.04
499	Wheat	2019	Rabi	Sikkim	165.00	178	2740.00	28340.40	61.05	1.03
500	Wheat	1998	Rabi	Mizoram	55.00	48	2640.70	5434.00	15.95	1.09
501	Wheat	1999	Rabi	Mizoram	43.00	38	2535.90	4563.59	11.61	0.88
502	Wheat	1999	Rabi	Tripura	1250.00	2400	2147.40	132662.50	337.50	2.00
503	Wheat	2000	Rabi	Tripura	1065.00	2230	2437.50	104551.05	276.90	2.10
504	Wheat	2001	Rabi	Tripura	1220.00	2455	2284.40	124598.60	317.20	2.02
505	Wheat	2002	Rabi	Tripura	919.00	1827	2579.80	87001.73	229.75	2.00

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
506	Wheat	2003	Rabi	Tripura	895.00	1810	2487.90	88587.10	214.80	2.03
507	Wheat	2004	Rabi	Mizoram	3.00	4	2640.80	325.02	0.63	1.33
508	Wheat	1998	Rabi	Arunachal Pradesh	3660.00	4395	3616.70	361608.00	1061.40	1.17
509	Wheat	1999	Rabi	Arunachal Pradesh	3896.00	5069	2338.60	413482.48	1051.92	1.37
510	Wheat	2000	Rabi	Arunachal Pradesh	4397.00	6226	2157.70	431653.49	1143.22	1.37
511	Wheat	2001	Rabi	Arunachal Pradesh	3805.00	5341	2128.50	388604.65	989.30	1.43
512	Wheat	2002	Rabi	Arunachal Pradesh	4114.00	6250	2832.80	389472.38	1028.50	1.48
513	Wheat	2003	Rabi	Arunachal Pradesh	4150.00	6320	2782.20	410767.00	996.00	1.51
514	Wheat	2004	Rabi	Arunachal Pradesh	4278.00	6652	2939.50	463478.52	898.38	1.55
515	Wheat	2005	Rabi	Arunachal Pradesh	3976.00	6140	2767.00	476801.92	834.96	1.59
516	Wheat	2006	Rabi	Arunachal Pradesh	3979.00	6301	1940.00	508158.09	875.38	1.67
517	Wheat	2007	Rabi	Arunachal Pradesh	3558.00	5294	3223.90	474637.20	569.28	1.58
518	Wheat	2008	Rabi	Arunachal Pradesh	3278.00	5169	2244.40	468885.12	295.02	1.57
519	Wheat	2009	Rabi	Arunachal Pradesh	3170.00	4770	1701.90	493949.40	538.90	1.59
520	Wheat	2010	Rabi	Arunachal Pradesh	3699.00	5872	2574.10	614440.89	887.76	1.65
521	Wheat	2011	Rabi	Arunachal Pradesh	3700.00	6500	2193.70	619824.00	1221.00	1.82
522	Wheat	2012	Rabi	Arunachal Pradesh	2937.00	4401	2760.70	442899.60	910.47	1.73
523	Wheat	2013	Rabi	Arunachal Pradesh	2960.00	4470	2042.90	427690.40	799.20	1.73
524	Wheat	2014	Rabi	Arunachal Pradesh	3800.00	7500	2403.20	573648.00	1254.00	2.45
525	Wheat	2015	Rabi	Arunachal Pradesh	3910.00	7700	2593.20	617428.10	1290.30	2.10
526	Wheat	1997	Rabi	Arunachal Pradesh	3785.00	5475	2274.90	360218.45	1173.35	1.59
527	Wheat	1998	Summer	Odisha	3868.00	4441	1357.10	382158.40	1121.72	1.11

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
528	Wheat	2005	Summer	Odisha	3276.00	4486	1503.40	392857.92	687.96	1.21
529	Wheat	2006	Summer	Odisha	3913.00	5802	1716.90	499729.23	860.86	1.30
530	Wheat	2007	Summer	Odisha	5548.00	8721	1633.80	740103.20	887.68	1.40
531	Wheat	2008	Summer	Odisha	5267.00	7386	1539.00	753391.68	474.03	1.38
532	Wheat	2009	Summer	Odisha	3994.00	5782	1330.30	622345.08	678.98	1.35
533	Wheat	2010	Summer	Odisha	2857.00	4176	1291.90	474576.27	685.68	1.34
534	Wheat	2011	Summer	Odisha	1461.00	2396	1346.20	244746.72	482.13	1.39
535	Wheat	2012	Summer	Odisha	1039.00	1974	1430.20	156681.20	322.09	1.62
536	Wheat	2013	Summer	Odisha	678.00	1069	1632.40	97964.22	183.06	1.67
537	Wheat	2014	Summer	Odisha	403.00	658	1536.90	60836.88	132.99	1.44
538	Wheat	2015	Summer	Odisha	367.00	494	1210.10	57952.97	121.11	1.27
539	Wheat	2016	Summer	Odisha	57.00	80	1460.50	8735.25	19.95	0.95
540	Wheat	2017	Summer	Odisha	73.00	158	1344.40	11493.12	27.74	2.39
541	Wheat	2018	Summer	Odisha	147.00	268	1635.90	23843.40	51.45	1.82
542	Wheat	1998	Rabi	Nagaland	1000.00	3000	1498.00	98800.00	290.00	3.00
543	Wheat	1997	Rabi	Jammu and Kashmir	239344.00	392160	1356.20	22778368.48	74196.64	1.26

In []:

```
In [54]: df_wheat1 = df_wheat[df_wheat['Crop_Year']!=2020]
df_wheat_year = df_wheat1.groupby('Crop_Year').sum()
df_wheat_year
```

Out[54]:

Crop_Year	Crop	Season	State	Area	Prod
1997	Wheat	Rabi	Assam	23500	898.00
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	Meghalaya		
	Wheat	Rabi	West Bengal		
	Wheat	Rabi	Odisha		
	Wheat	Rabi	Andhra...		
	W...	Ra...			
1998	Wheat	Rabi	Assam	24431	921.00
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	Meghalaya		
	Wheat	Rabi	West Bengal		
	Wheat	Rabi	Andhra Prade...		
	W...	Ra...			
1999	Wheat	Rabi	Assam	24503	856.00
	Wheat	Rabi	West Bengal		
	Wheat	Rabi	Bihar		
	Wheat	Rabi	Gujarat		
	Wheat	Rabi	Haryana		
	Wheat	Rabi	Himachal Pr...		
	W...	Ra...			
2000	Wheat	Rabi	Andhra	23338	921.00
	Wheat	Rabi	Pradesh		
	Wheat	Rabi	Assam		
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	Meghalaya		
	Wheat	Rabi	West Beng...		
	W...	Ra...			
2001	Wheat	Rabi	Andhra	24027	129.00
	Wheat	Rabi	Pradesh		
	Wheat	Rabi	Assam		
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	Meghalaya		
	Wheat	Rabi	West Beng...		
	W...	Ra...			
2002	Wheat	Rabi	Andhra Pradesh	23410	674.69
	Wheat	Rabi	Assam		
	Wheat	Rabi	West Bengal		
	Wheat	Rabi	Bihar		
	Wheat	Rabi	Chhattisgar...		
	W...	Ra...			
2003	Wheat	Rabi	Andhra	24734	430.70
	Wheat	Rabi	Pradesh		
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	Meghalaya		
	Wheat	Rabi	West Beng...		
	W...	Ra...			

Crop_Year	Crop	Season	State	Area	Prod
	Rabi	Beng...			
	Rabi				
	Ra...				
2004	Wheat	Rabi	Karnataka	24789592.58	639
	Wheat	Rabi	Meghalaya		
	Wheat	Rabi	Andhra		
	Wheat	Rabi	Pradesh		
	Wheat	Rabi	Assam		
	Wheat	Rabi	Bihar		
	Wheat	Ra...	Chha...		
2005	Wheat	Rabi	Andhra	24101857.23	615
	Wheat	Rabi	Pradesh		
	Wheat	Rabi	Assam		
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	Meghalaya		
	Wheat	Rabi	West Beng...		
	Wheat	Rabi	Beng...		
	Wheat	Rabi			
2006	Wheat	Rabi	Meghalaya	25628234.04	701
	Wheat	Rabi	Andhra		
	Wheat	Rabi	Pradesh		
	Wheat	Rabi	Assam		
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	West Beng...		
	Wheat	Rabi	Beng...		
	Wheat	Rabi			
2007	Wheat	Rabi	Assam	25687889.72	728
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	West Bengal		
	Wheat	Rabi	Andhra		
	Wheat	Rabi	Pradesh		
	Wheat	Rabi	Bihar		
	Wheat	Rabi	Chha...		
2008	Wheat	Rabi	Andhra	25550851.34	744
	Wheat	Rabi	Pradesh		
	Wheat	Rabi	Assam		
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	Meghalaya		
	Wheat	Rabi	West Beng...		
	Wheat	Rabi	Beng...		
	Wheat	Rabi			
2009	Wheat	Rabi	Andhra	26099513.00	734
	Wheat	Rabi	Pradesh		
	Wheat	Rabi	Assam		
	Wheat	Rabi	Karnataka		
	Wheat	Rabi	Meghalaya		
	Wheat	Rabi	Bihar		
	Wheat	Rabi	Chha...		

Crop_Year	Crop	Season	State	Area	Prod
2010	Wheat	Rabi Ra...	Assam Pradesh Karnataka Meghalaya Bihar Chha...	27098934.00	830
2011	Wheat	Rabi Rabi Rabi Rabi Ra...	Assam Pradesh Karnataka Meghalaya Bihar Chha...	27177143.00	929
2012	Wheat	Rabi Rabi Rabi Whole Year Ra...	Andhra Pradesh Assam Karnataka Kerala Meghalaya Bih...	27145258.00	893
2013	Wheat	Rabi Rabi Rabi Rabi Ra...	Andhra Pradesh Assam Karnataka Meghalaya Bihar Chha...	28431210.00	920
2014	Wheat	Rabi Rabi Rabi Whole Year Ra...	Andhra Pradesh Assam Karnataka Kerala Meghalaya Bih...	27843326.00	751
2015	Wheat	Rabi Rabi Rabi	Andhra Pradesh Assam Meghalaya Karnataka Kerala Bih...	27235725.00	840

Crop_Year	Crop	Season	State	Area	Prod
2016	Wheat	Rabi Rabi Rabi Rabi Rabi Rabi Wh...	Andhra Pradesh Assam Meghalaya Karnataka Kerala Aru...	28435104.00	1011
2017	Wheat	Kharif Rabi Rabi Rabi Rabi Ra...	Andhra Pradesh Andhra Pradesh Assam Meghalaya Karn...	27554664.50	1003
2018	Wheat	Rabi Rabi Rabi Rabi Rabi Wh...	Andhra Pradesh Assam Meghalaya Karnataka Kerala Aru...	28938746.65	1075
2019	Wheat	Rabi Rabi Rabi Rabi Rabi Wh...	Andhra Pradesh Assam Meghalaya Karnataka Kerala Aru...	32311773.00	1185

In []:

VISUALIZATION OF YIELD OF WHEAT CROP OVER THE YEARS :-

```
In [55]: plt.figure(figsize = (12,5))
plt.plot(df_wheat_year.index, df_wheat_year['Yield'],color='red', linestyle='dashed', marker='o',
         markersize=12, markerfacecolor='blue')
```

```
plt.xlabel('Year')
plt.ylabel('Yield')
plt.title('Yield of Wheat Crop over the Years')
plt.show()
```



In []:

MODELLING :-

```
In [56]: df1 = df.copy()
```

```
In [57]: df1.head()
```

Out[57]:

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
0	Arecanut	1997	Whole Year	Assam	73814.00	56708	2051.40	7024878.38	22882.34	0.80
1	Arhar/Tur	1997	Kharif	Assam	6637.00	4685	2051.40	631643.29	2057.47	0.71
2	Castor seed	1997	Kharif	Assam	796.00	22	2051.40	75755.32	246.76	0.24
3	Coconut	1997	Whole Year	Assam	19656.00	126905000	2051.40	1870661.52	6093.36	5238.05
4	Cotton(lint)	1997	Kharif	Assam	1739.00	794	2051.40	165500.63	539.09	0.42

In []:

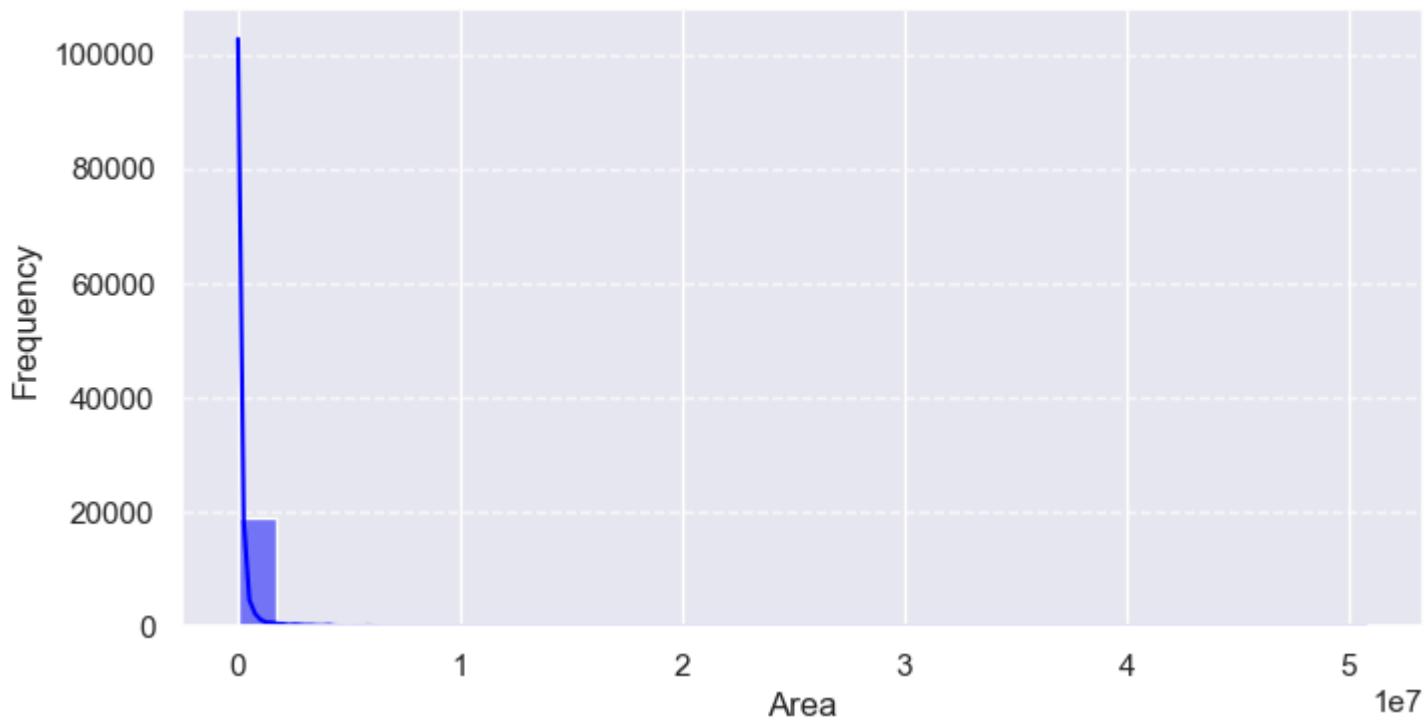
PLOT DISTRIBUTION :-

In [58]:

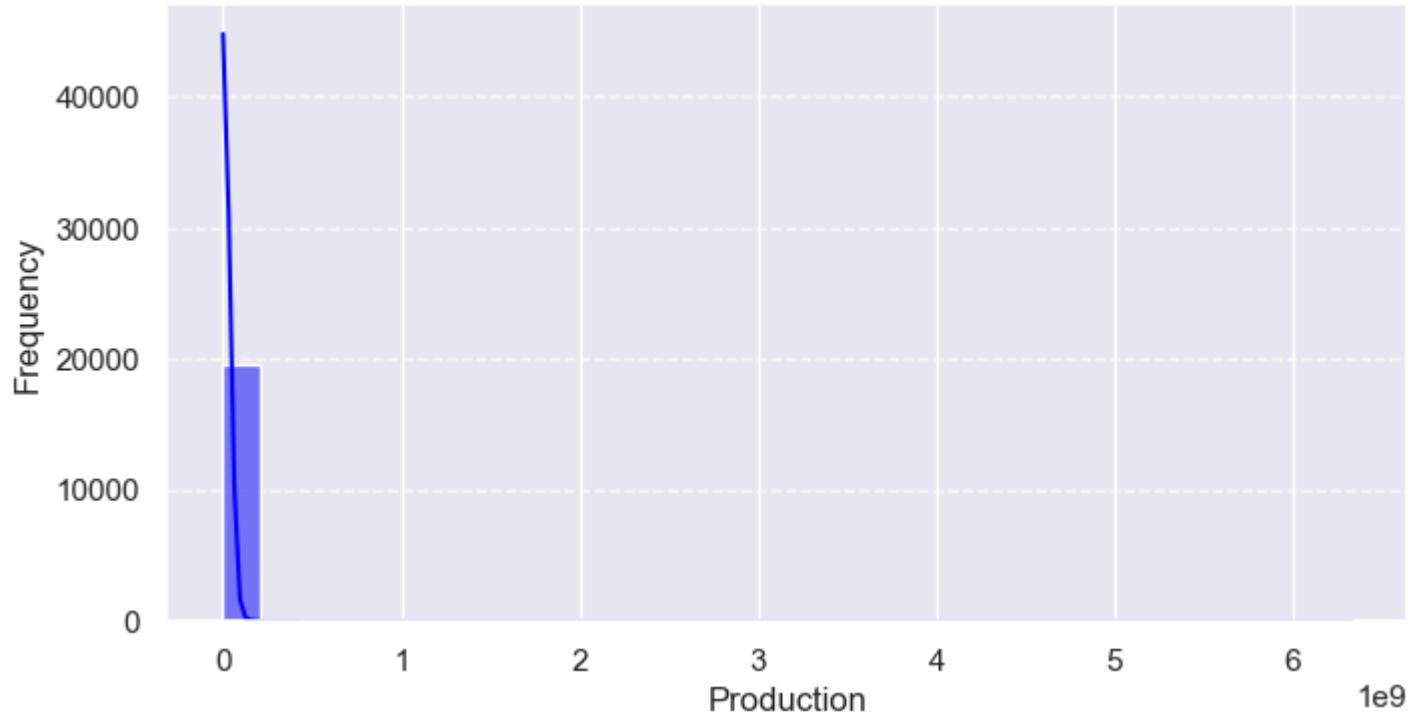
```
filtered_data = [col for col in numerical_data if col != 'Crop_Year']

for col in filtered_data:
    plt.figure(figsize=(8,4))
    sns.histplot(df[col], kde=True, bins=30, color='blue') #Create a histogram with KDE overlay
    plt.title(f'Distribution of {col}', fontsize=16) # Set the title dynamically
    plt.xlabel(col, fontsize=12)
    plt.ylabel('Frequency', fontsize=12)
    plt.grid(axis='y', linestyle='--', alpha=0.7)
    plt.show()
```

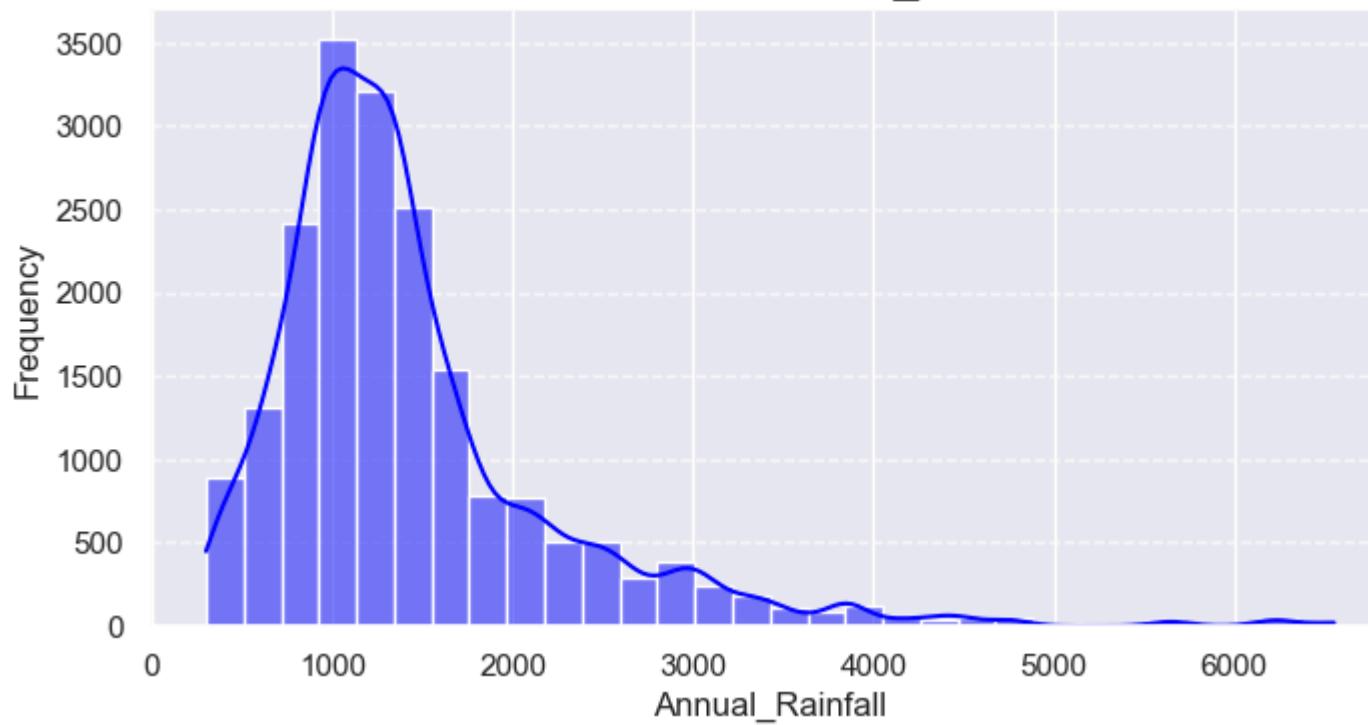
Distribution of Area



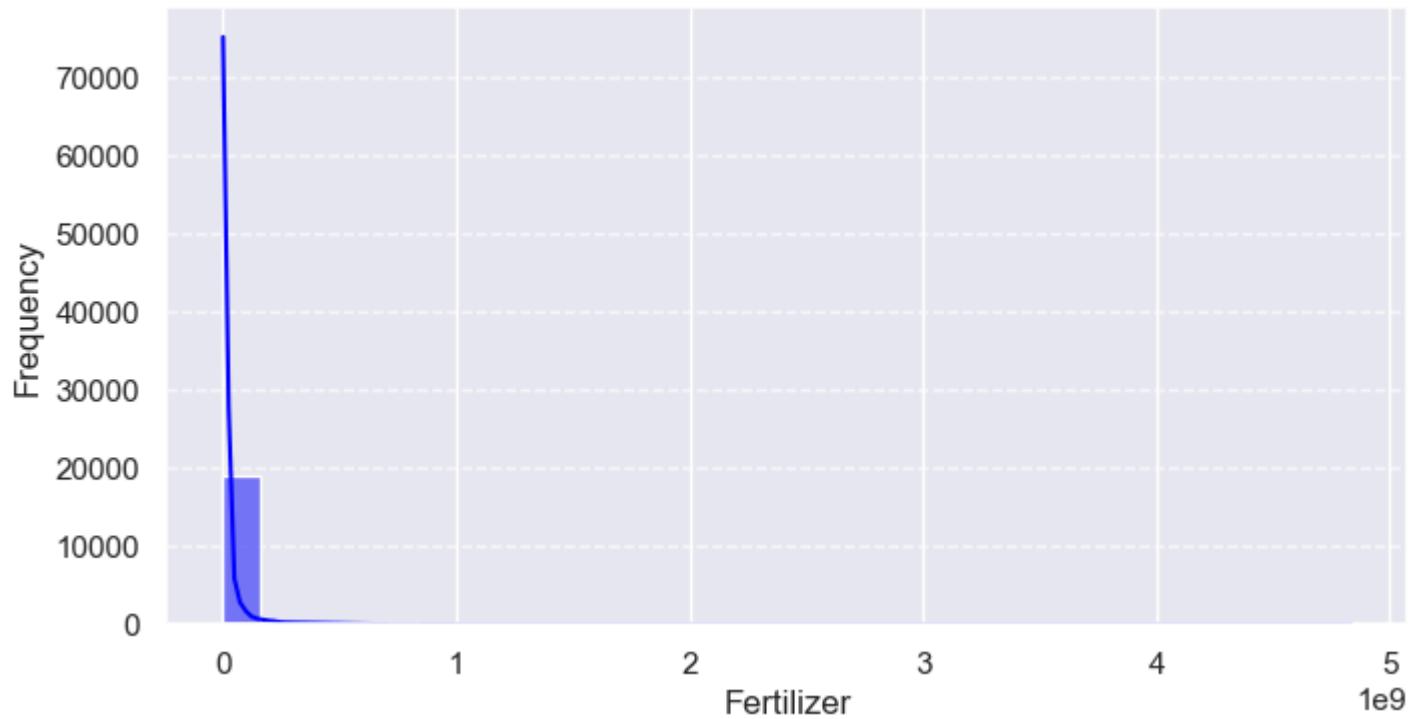
Distribution of Production



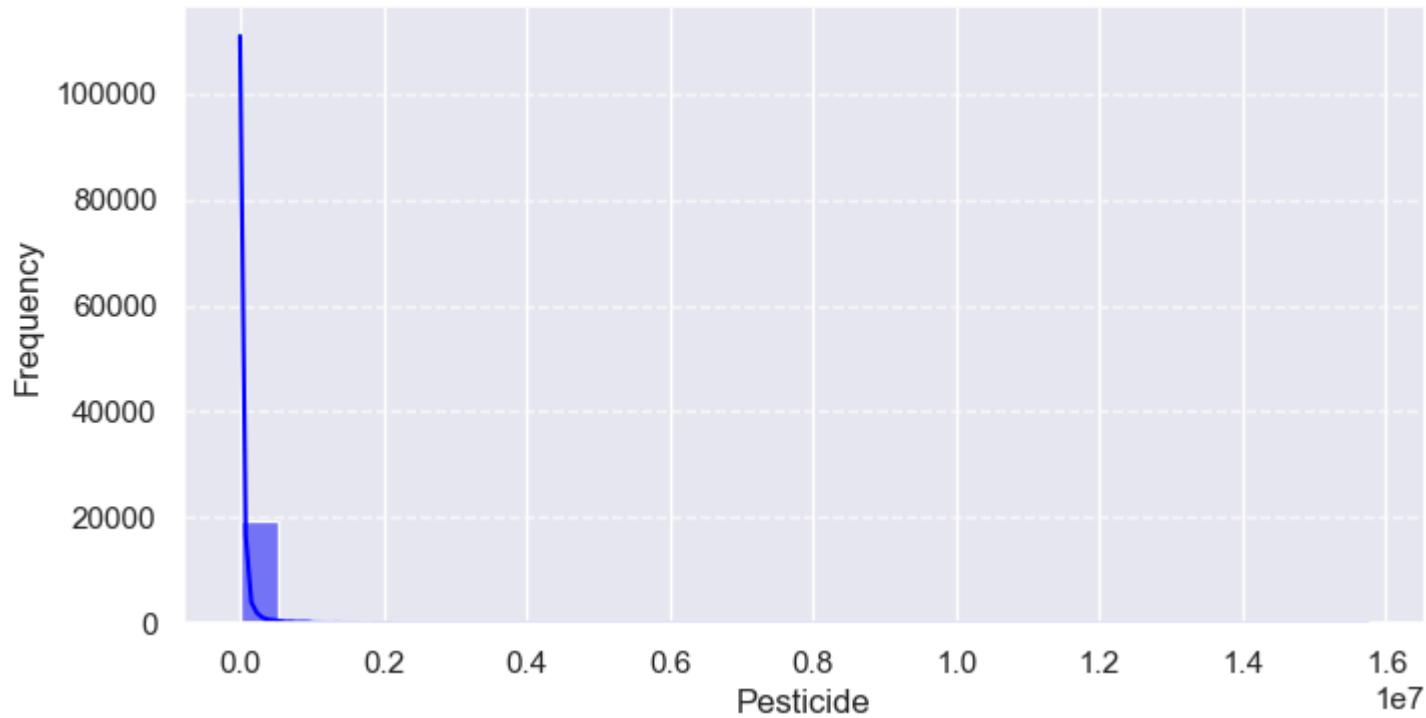
Distribution of Annual_Rainfall



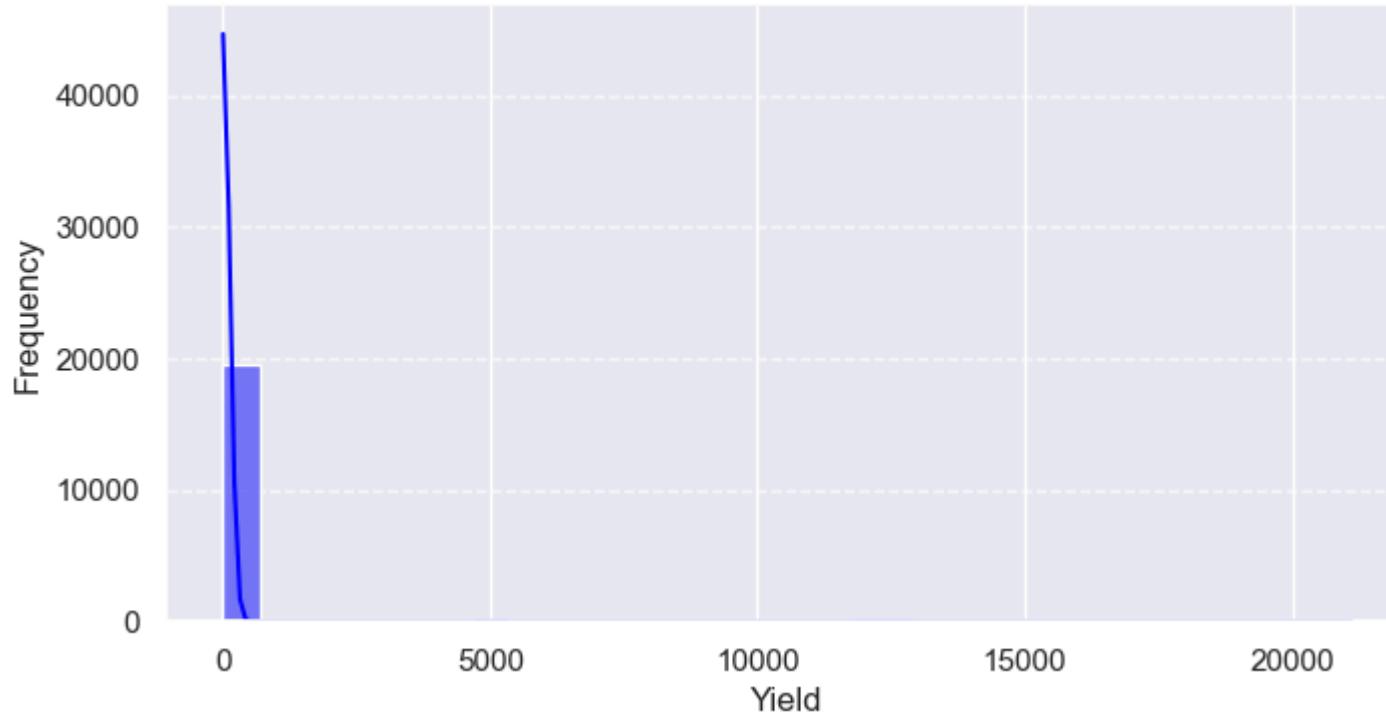
Distribution of Fertilizer



Distribution of Pesticide



Distribution of Yield



In []:

CHECKING SKEWNESS :-

In [59]: `df1.head()`

Out[59]:

	Crop	Crop_Year	Season	State	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Yield
0	Arecanut	1997	Whole Year	Assam	73814.00	56708	2051.40	7024878.38	22882.34	0.80
1	Arhar/Tur	1997	Kharif	Assam	6637.00	4685	2051.40	631643.29	2057.47	0.71
2	Castor seed	1997	Kharif	Assam	796.00	22	2051.40	75755.32	246.76	0.24
3	Coconut	1997	Whole Year	Assam	19656.00	126905000	2051.40	1870661.52	6093.36	5238.05
4	Cotton(lint)	1997	Kharif	Assam	1739.00	794	2051.40	165500.63	539.09	0.42

In []:

CHECK SKEWNESS FOR EACH COLUMNS :-

In [60]:

```
# Check Skewness for each columns
skewness=df1[['Area','Production','Annual_Rainfall','Fertilizer','Pesticide']].skew().sort_values()
skewness
```

Out[60]:

Annual_Rainfall	2.13
Fertilizer	13.40
Production	19.28
Area	21.84
Pesticide	25.61
dtype: float64	

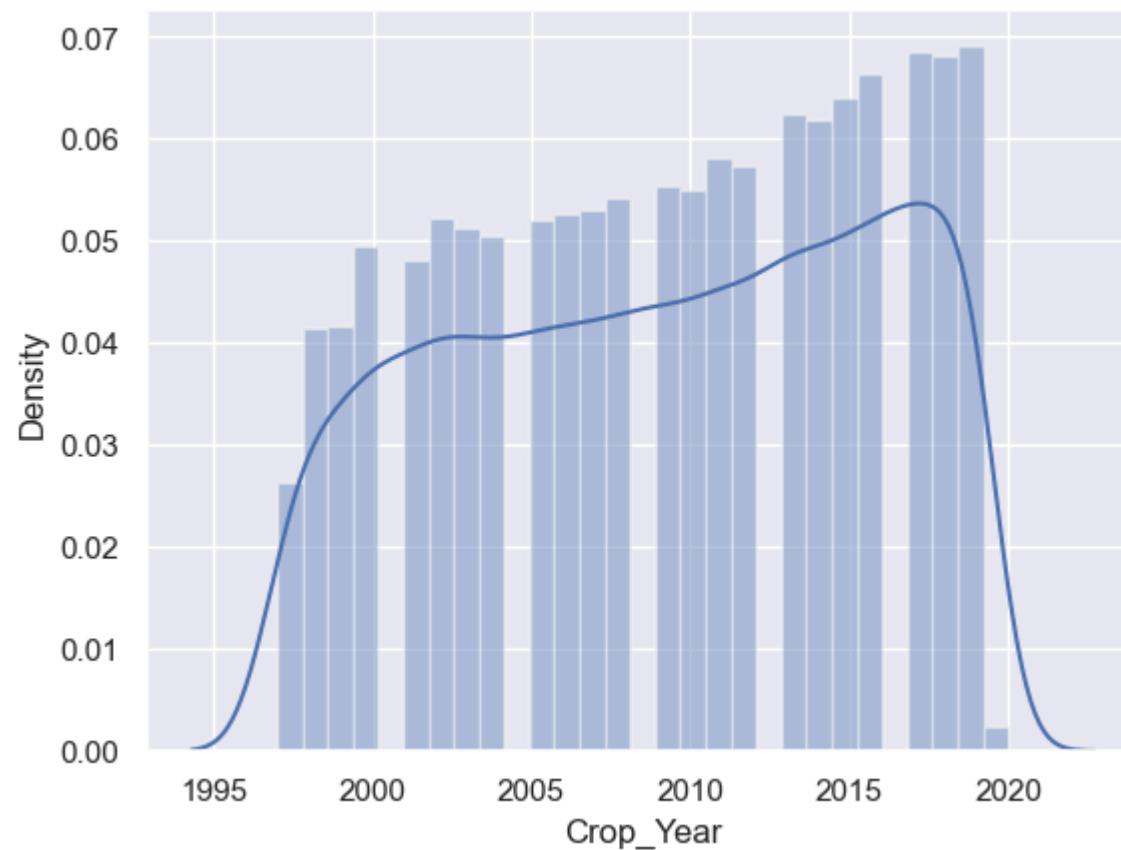
In []:

In [61]:

```
from scipy.stats import skew
for col in numerical_data.columns:
    print()
    print(col)
    print(skew(numerical_data[col]))
    plt.figure()
    sns.distplot(numerical_data[col])
    plt.show()
```

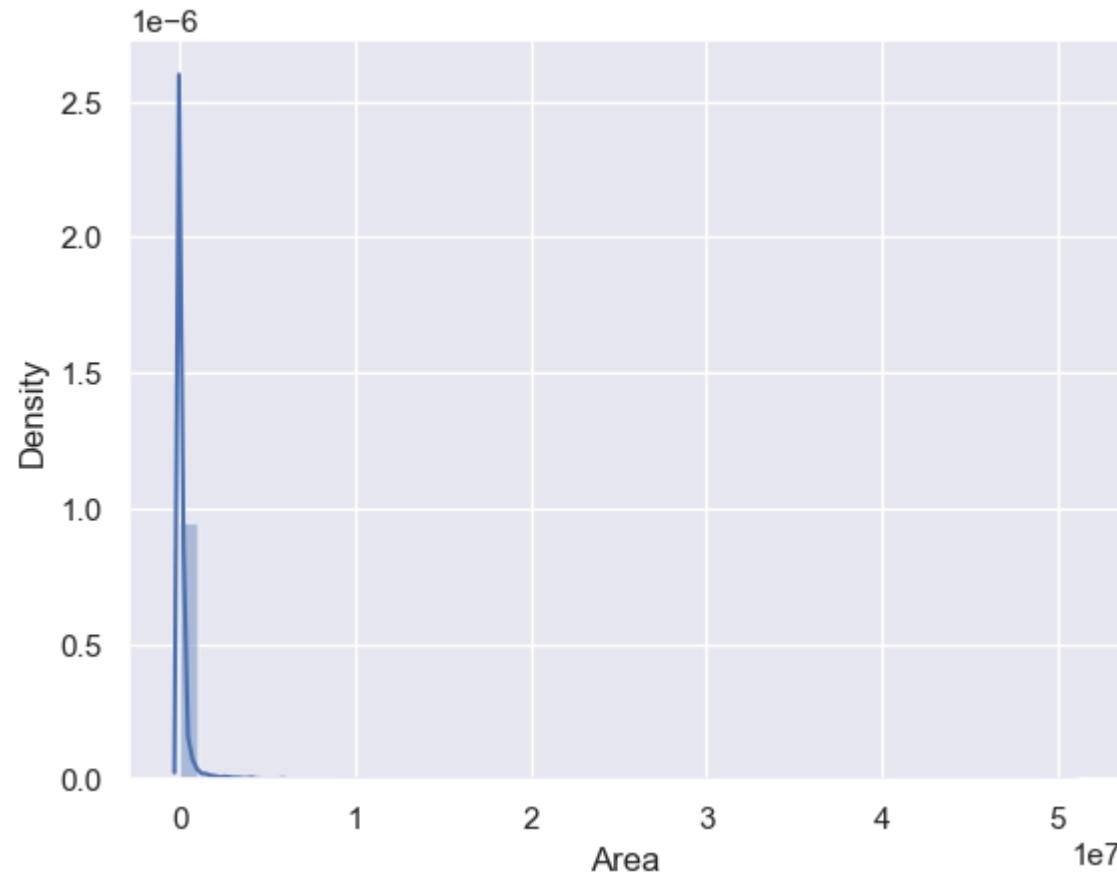
Crop_Year

-0.1626432290882246

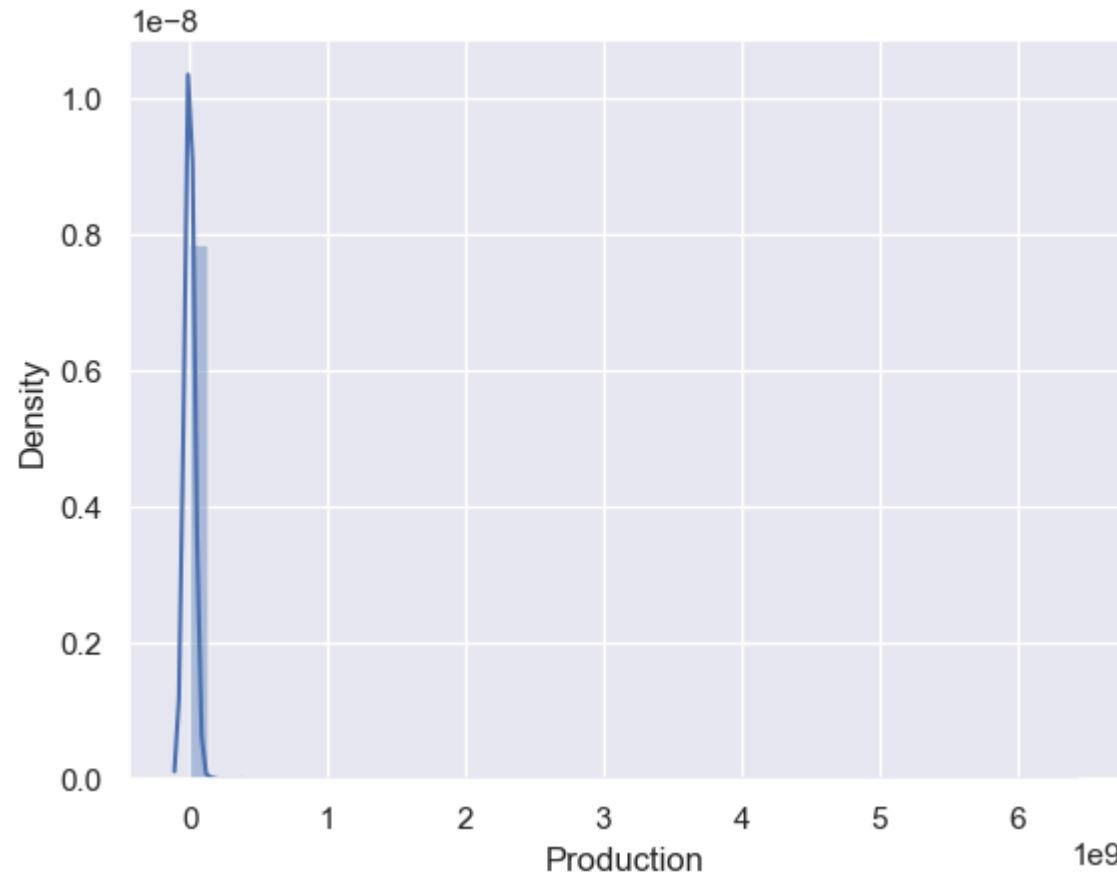


Area

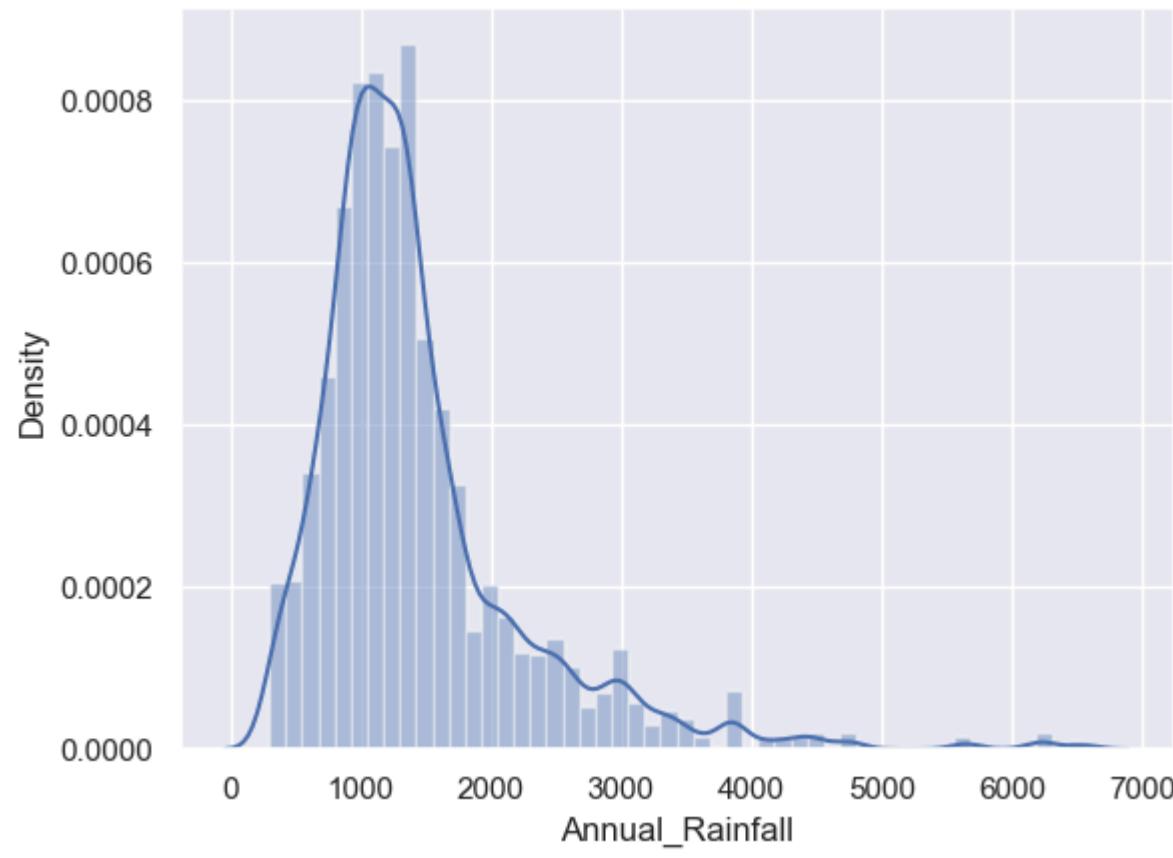
21.85655250096762



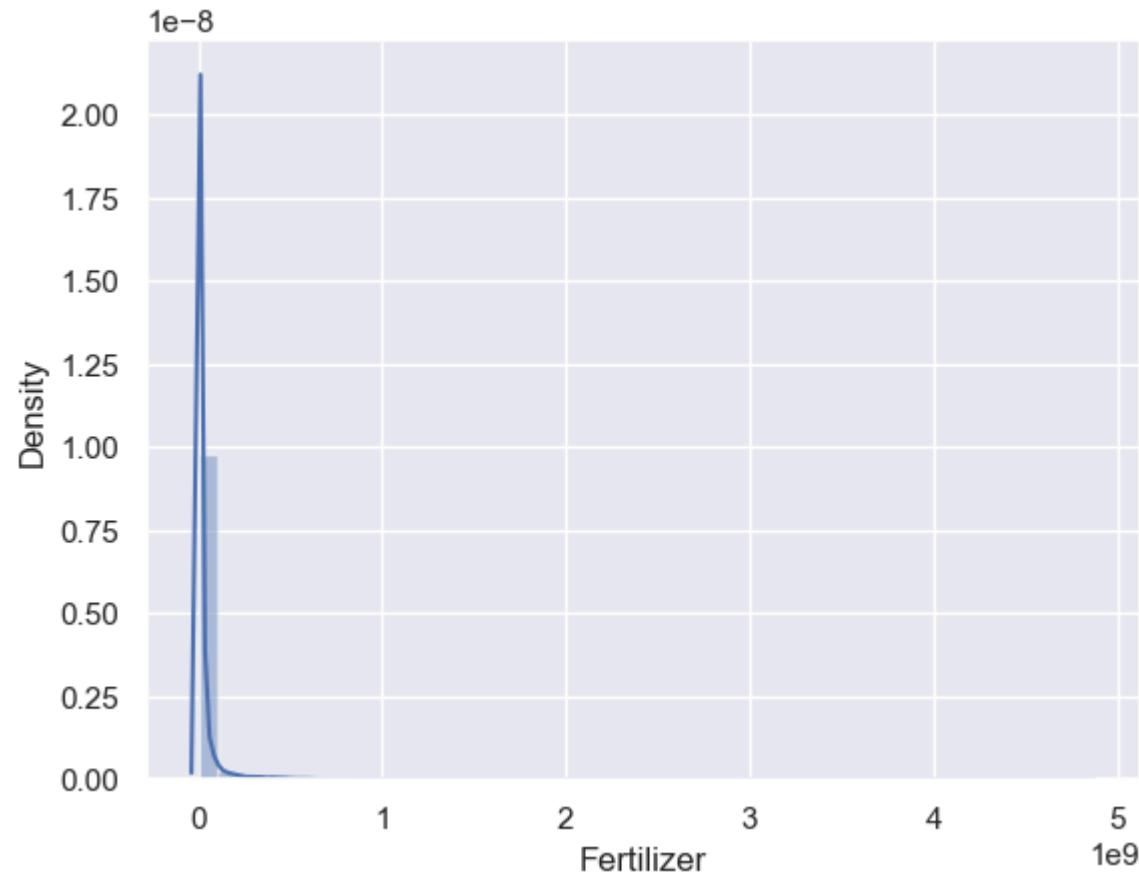
Production
19.297723077777405



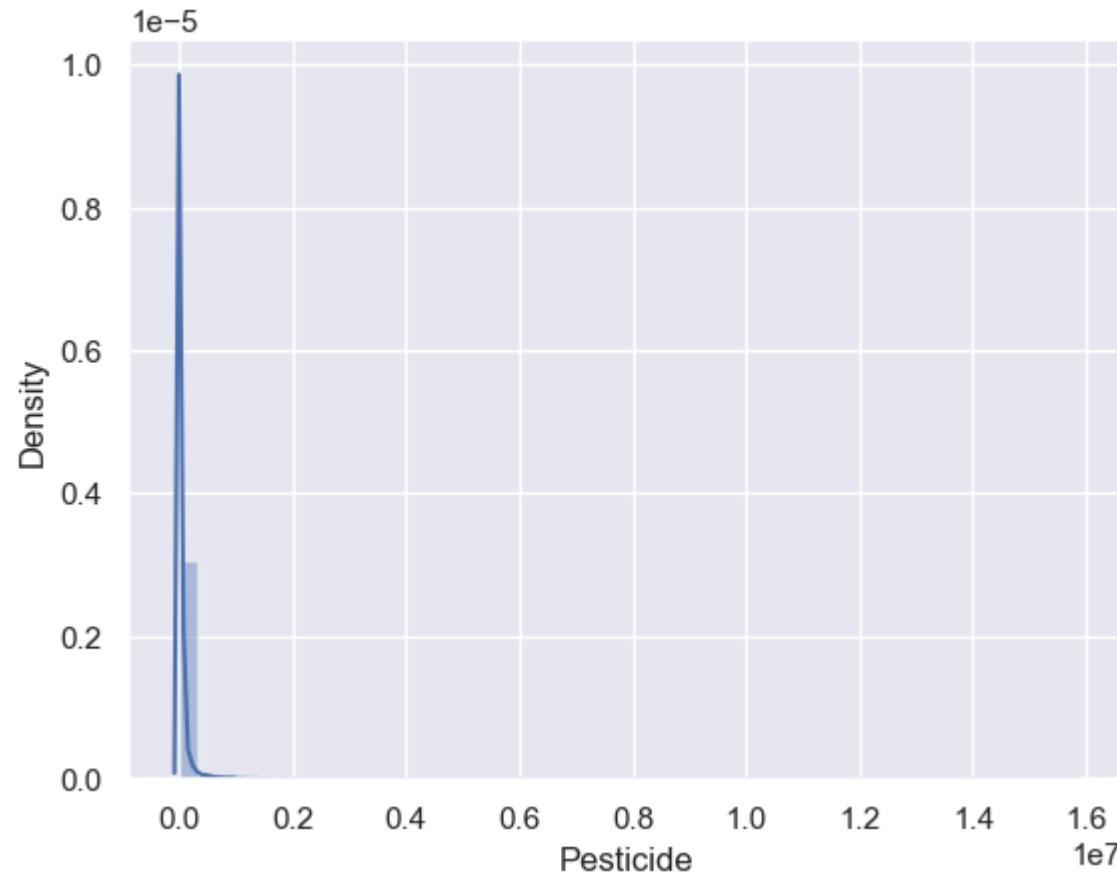
Annual_Rainfall
2.131622598686226

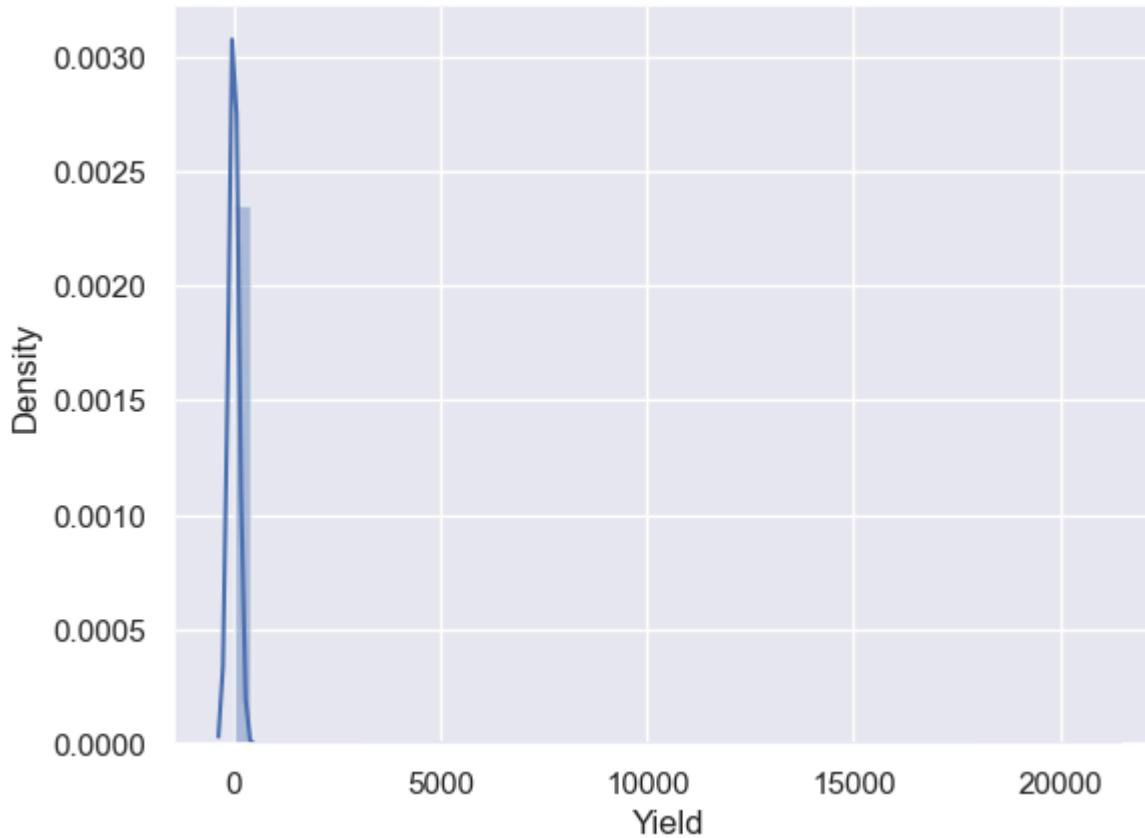


Fertilizer
13.411576953964282



Pesticide
25.6337929946129





In []:

ONE-HOT ENCODING :-

```
In [62]: categorical_data = df1.select_dtypes(include = ['object']).columns  
categorical_data
```

```
Out[62]: Index(['Crop', 'Season', 'State'], dtype='object')
```

```
In [63]: df1 = pd.get_dummies(df1, columns = categorical_data, drop_first=True)
```

```
In [64]: df1.shape
```

```
Out[64]: (19652, 95)
```

```
In [ ]:
```

SQRT TRANSFORMATION TO REDUCE THE SKEWNESS :-

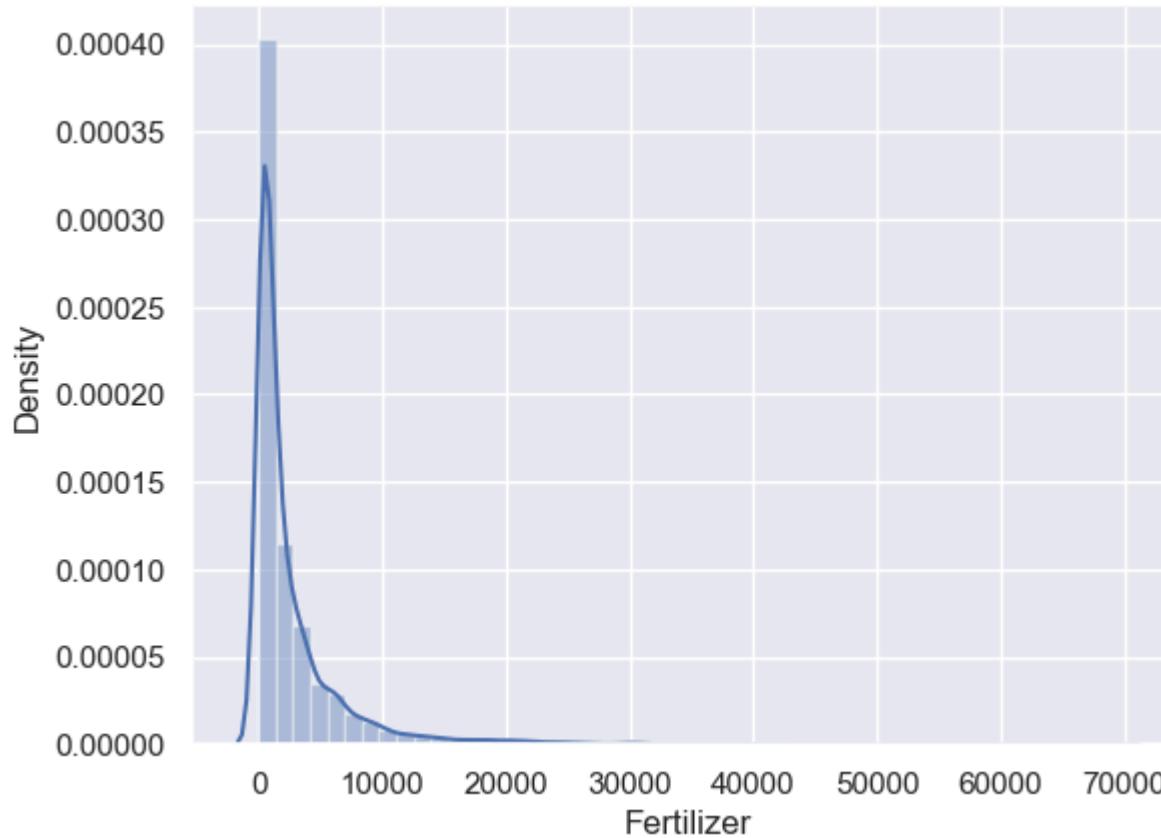
SQRT Transformation Using For Fertilizer :-

```
In [65]: df1['Fertilizer']=np.sqrt(df1['Fertilizer'])
```

```
In [66]: print(skew(df1['Fertilizer']))
sns.distplot(df1['Fertilizer'])
```

3.534442713888896

```
Out[66]: <Axes: xlabel='Fertilizer', ylabel='Density'>
```



In []:

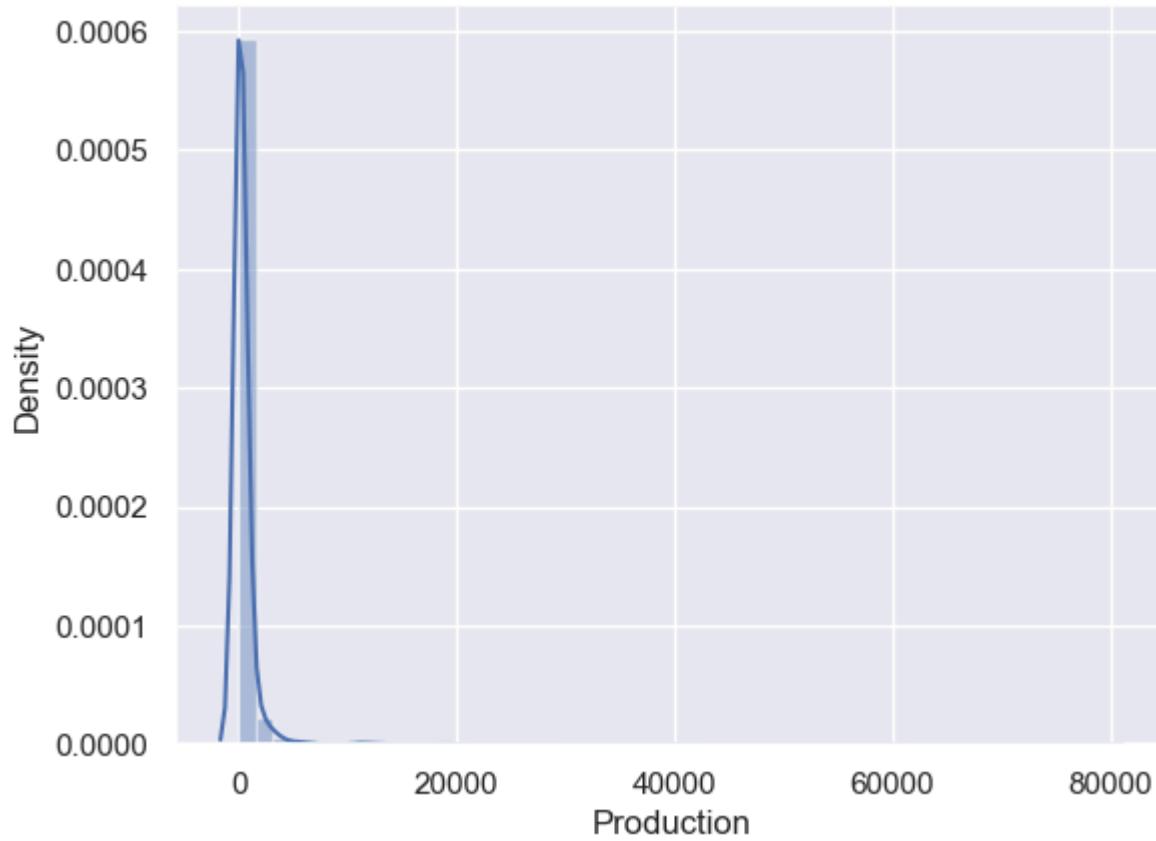
SQRT Transformation Using For Production :-

```
In [67]: df1['Production']=np.sqrt(df1['Production'])
```

```
In [68]: print(skew(df1['Production']))
sns.distplot(df1['Production'])
```

15.31894351136251

```
Out[68]: <Axes: xlabel='Production', ylabel='Density'>
```



In []:

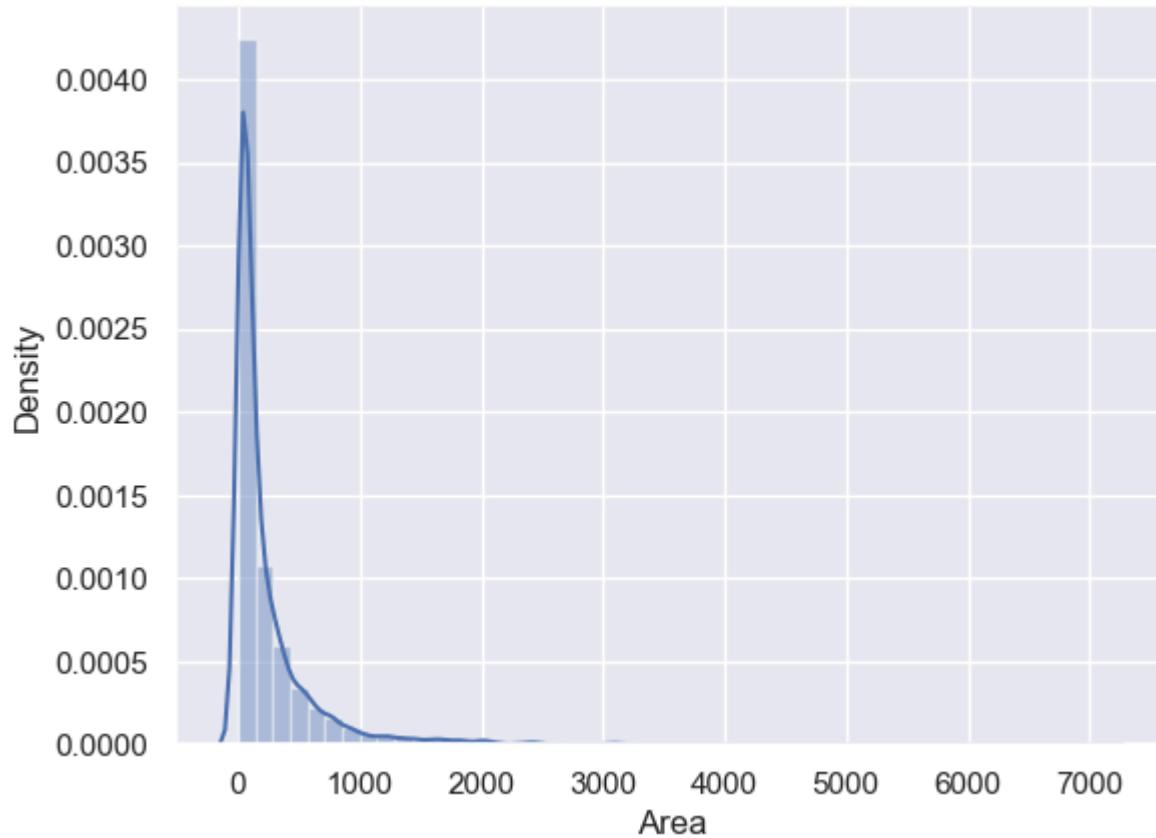
SQRT Transformation Using For Area :-

```
In [69]: df1['Area']=np.sqrt(df1['Area'])
```

```
In [70]: print(skew(df1['Area']))
sns.distplot(df1['Area'])
```

3.5531545043428348

```
Out[70]: <Axes: xlabel='Area', ylabel='Density'>
```



In []:

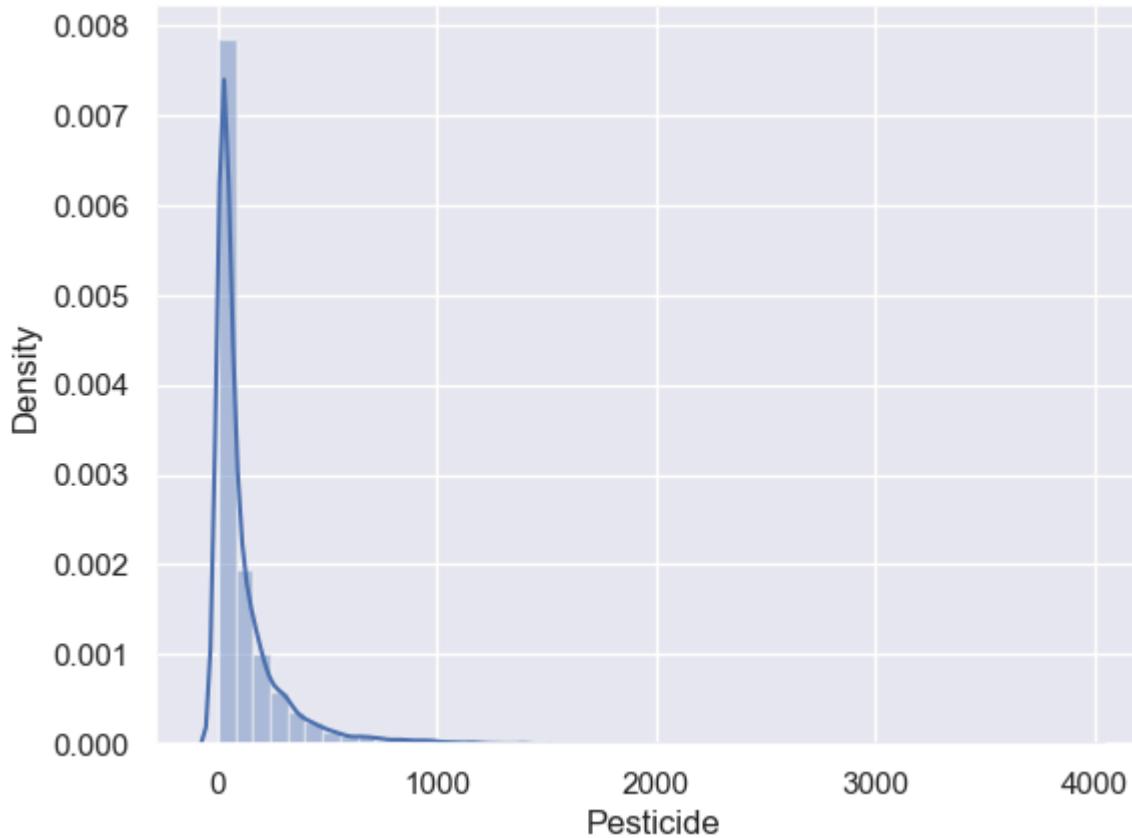
SQRT Transformation Using For Pesticide :-

```
In [71]: df1['Pesticide']=np.sqrt(df1['Pesticide'])
```

```
In [72]: print(skew(df1['Pesticide']))
sns.distplot(df1['Pesticide'])
```

3.7799711904954583

```
Out[72]: <Axes: xlabel='Pesticide', ylabel='Density'>
```



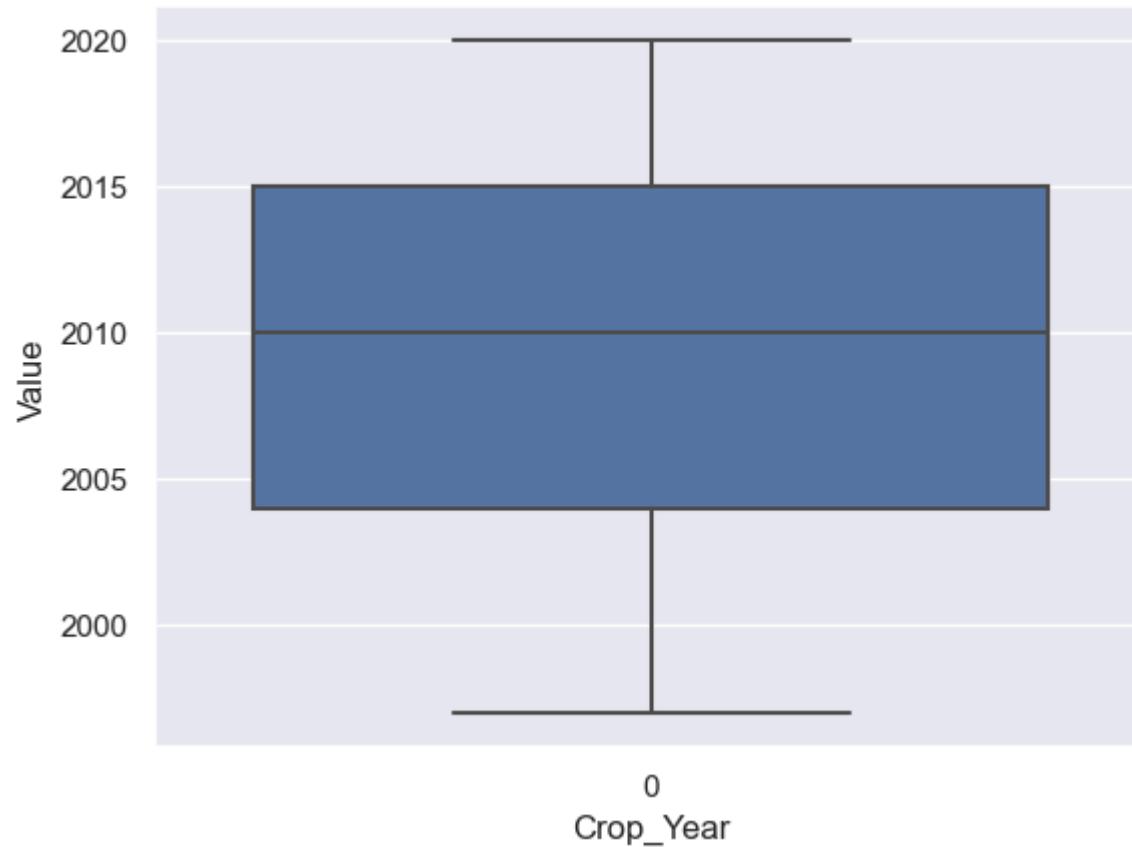
Here we can see skew score decreases and correlation between dependent and independent feature increases.

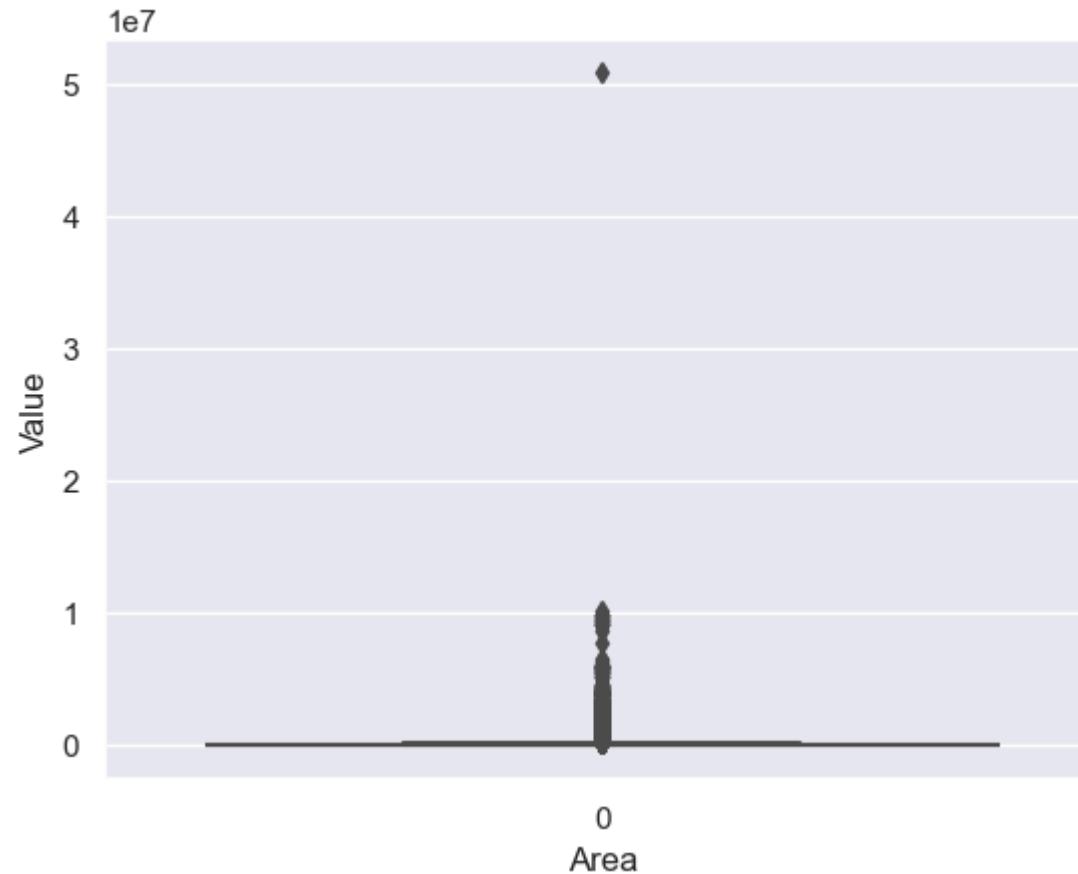
In []:

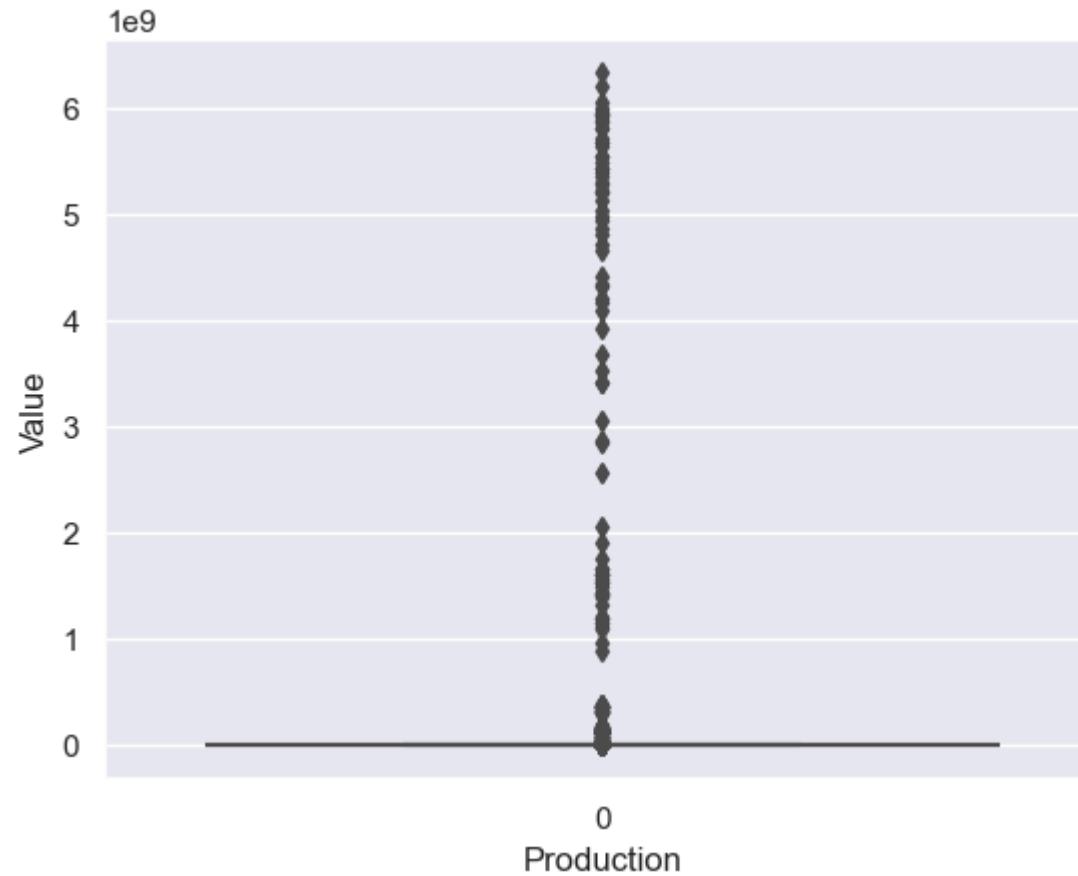
OUTLIER DETECTION:-

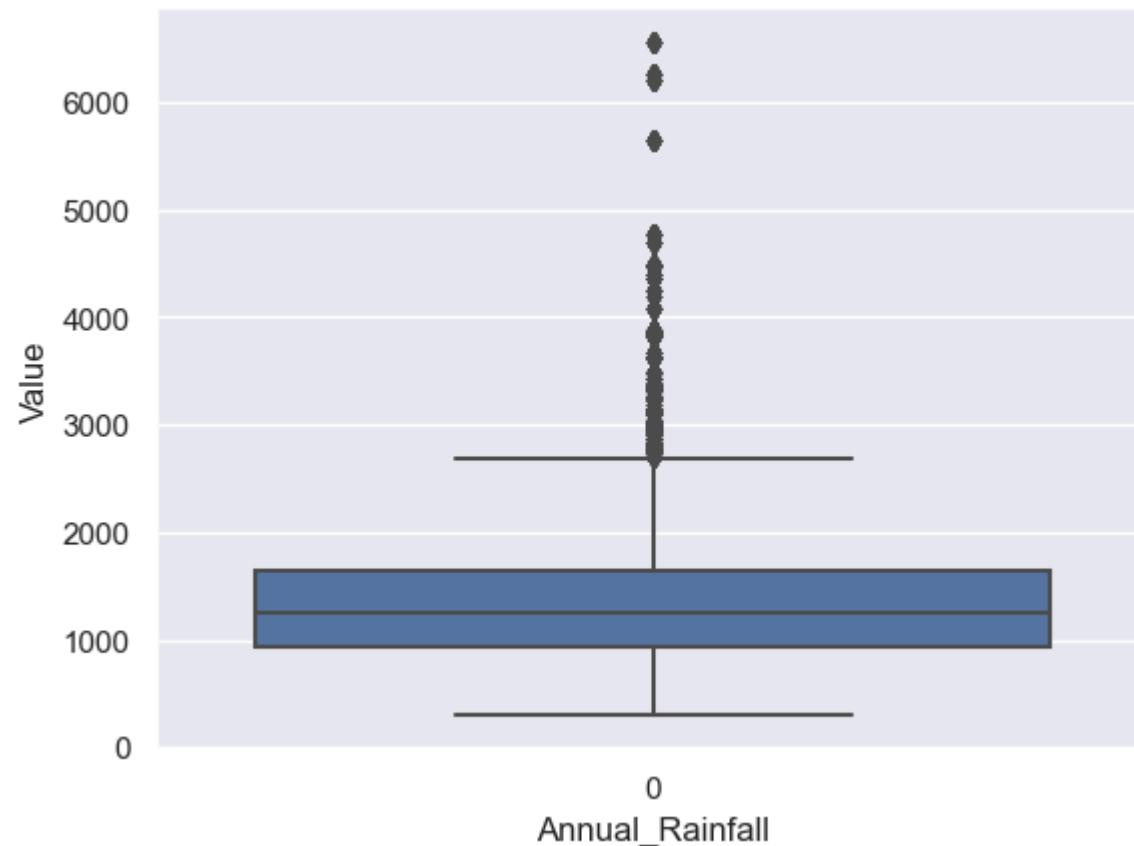
```
In [73]: for o in numerical_data.columns:  
    sns.boxplot(numerical_data[o])  
    plt.xlabel(o)
```

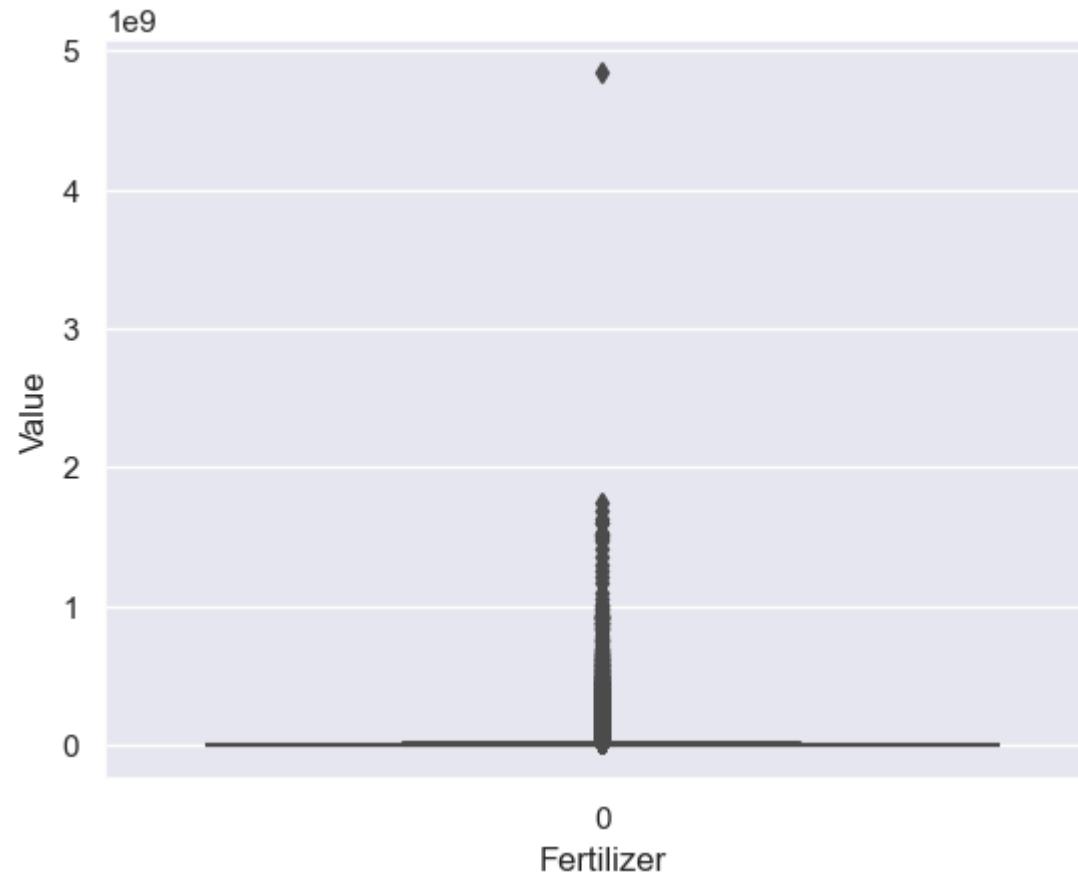
```
plt.ylabel('Value')  
plt.show()
```

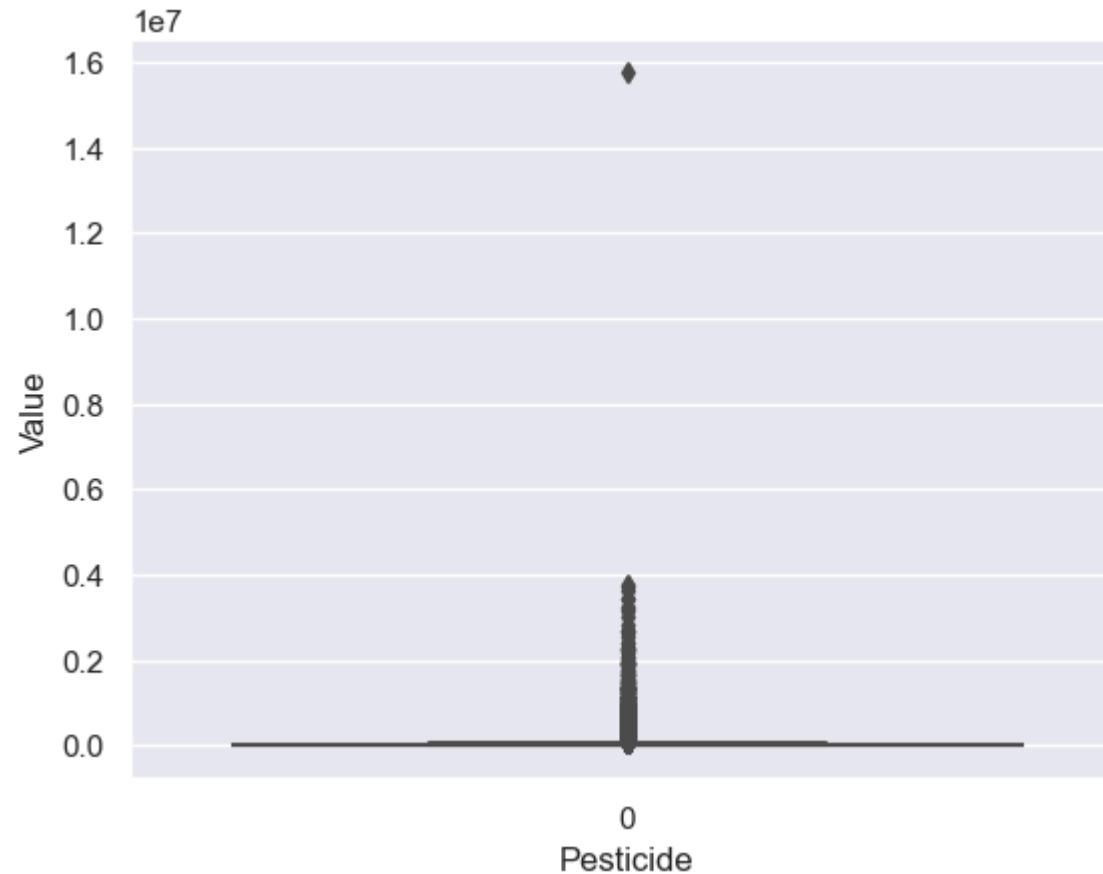


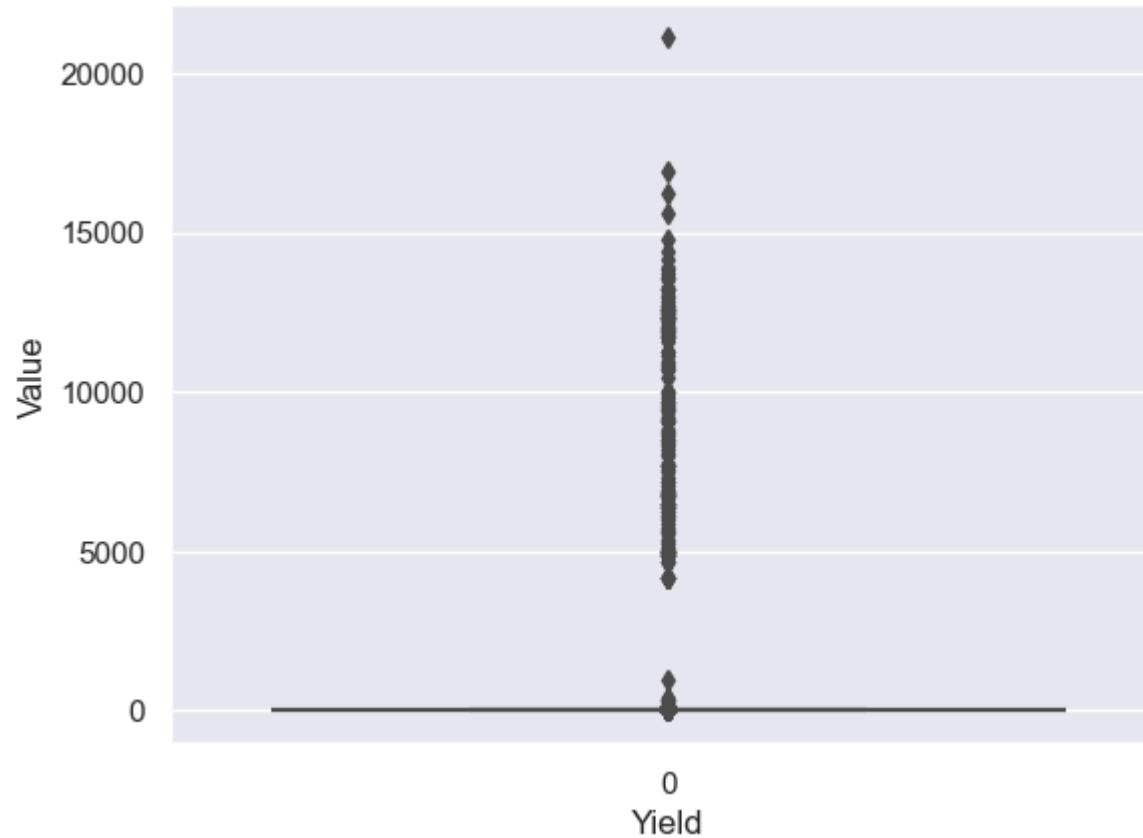










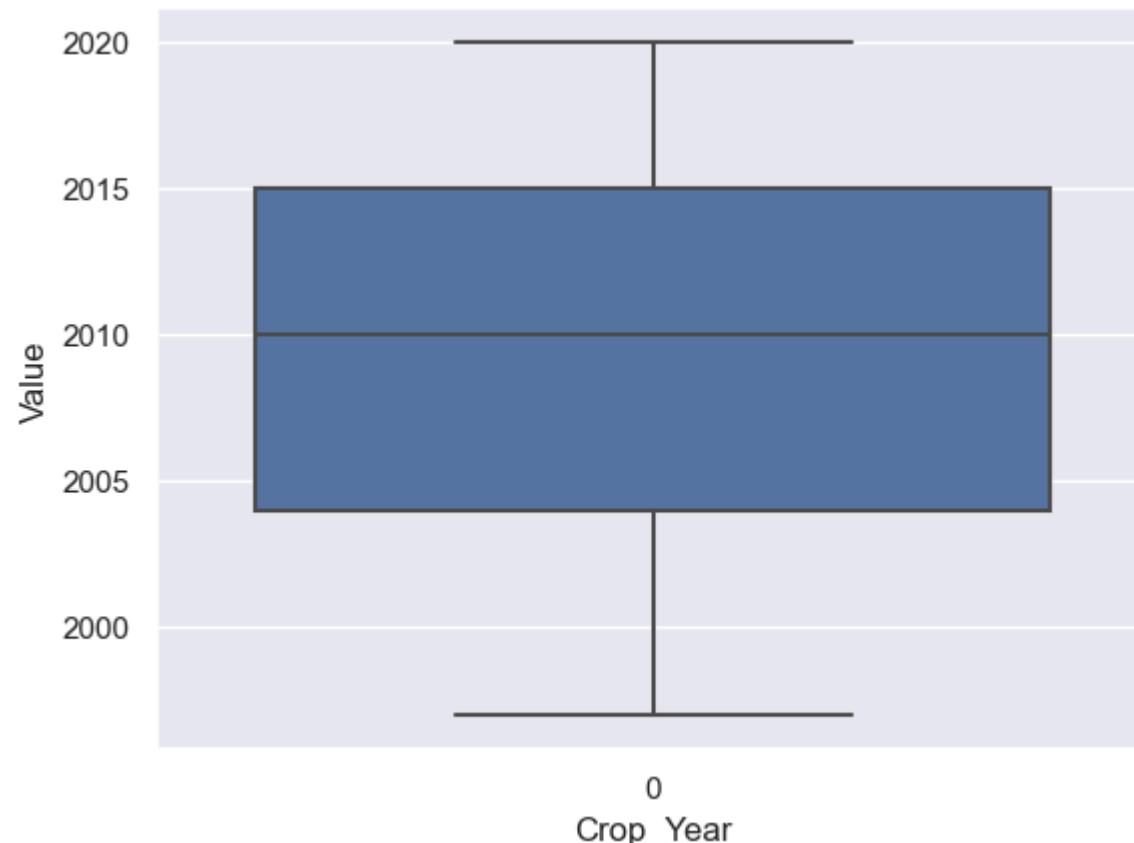


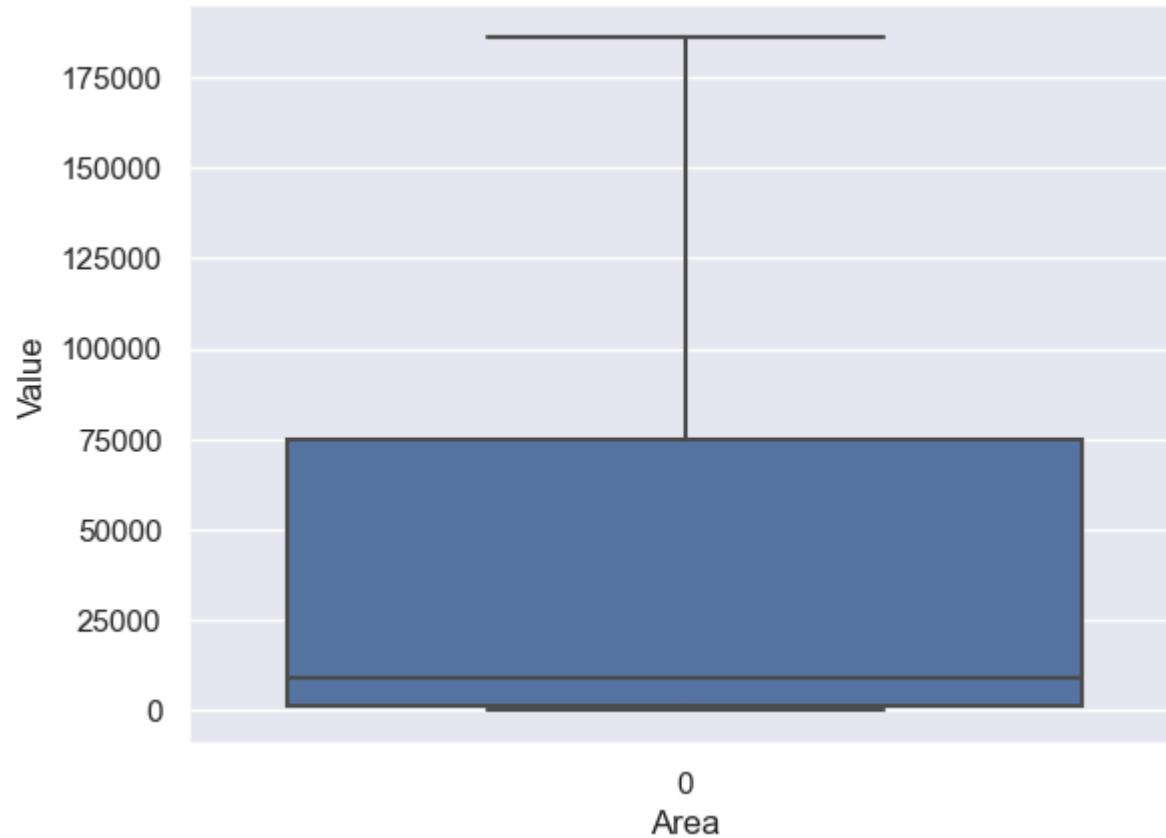
In []:

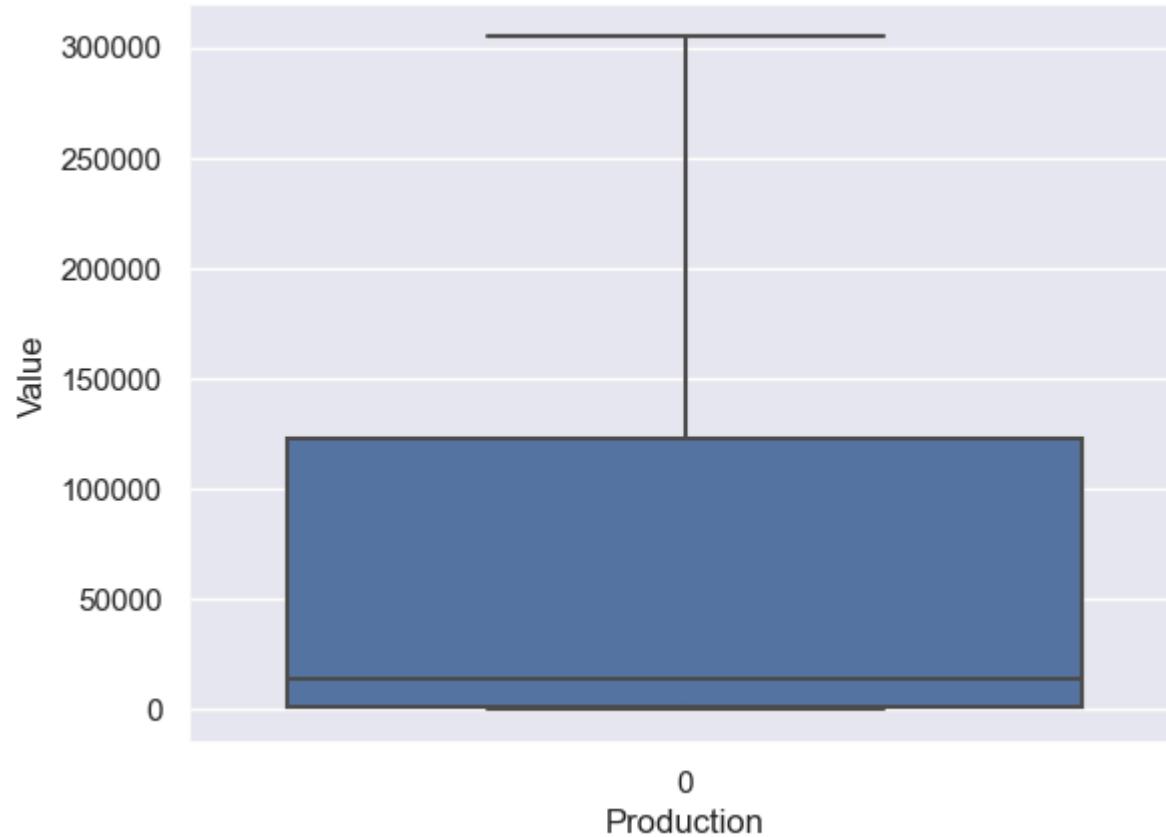
OUTLIER TREATMENT :-

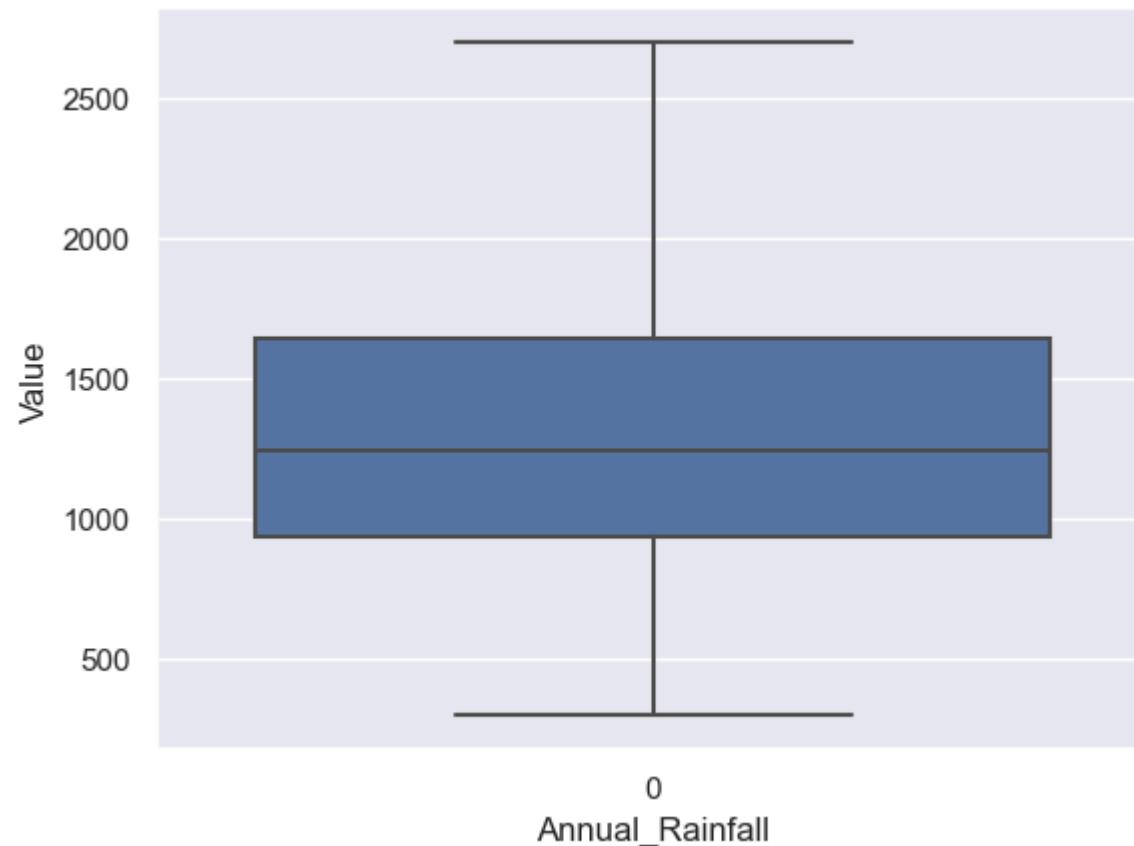
```
In [74]: for z in numerical_data.columns:  
    q1=np.percentile(numerical_data[z],25)  
    q3=np.percentile(numerical_data[z],75)  
    iqr=q3-q1  
    lf=q1-(1.5*iqr)  
    uf=q3+(1.5*iqr)  
    numerical_data[z]=np.where(numerical_data[z]>uf,uf,  
                                np.where(numerical_data[z]<lf,lf,numerical_data[z]))
```

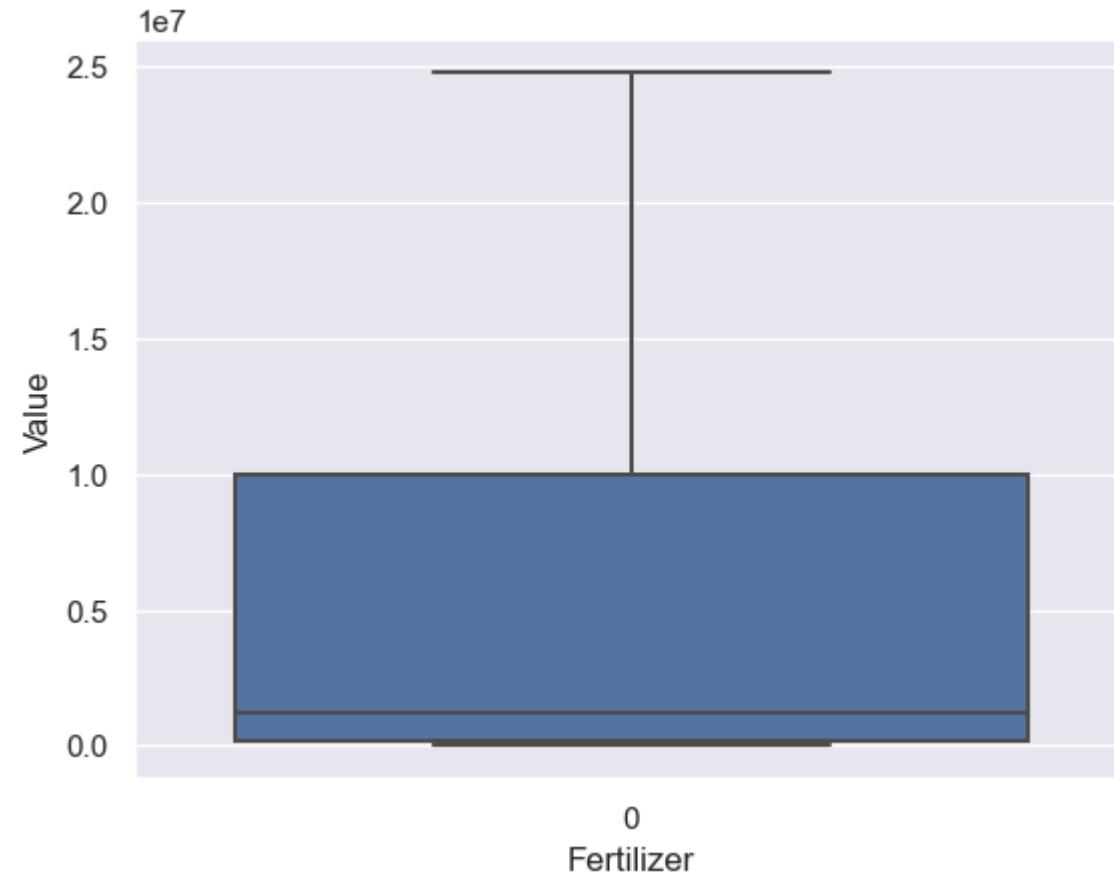
```
In [75]: for x in numerical_data.columns:  
    sns.boxplot(numerical_data[x])  
    plt.xlabel(x)  
    plt.ylabel('Value')  
    plt.show()
```

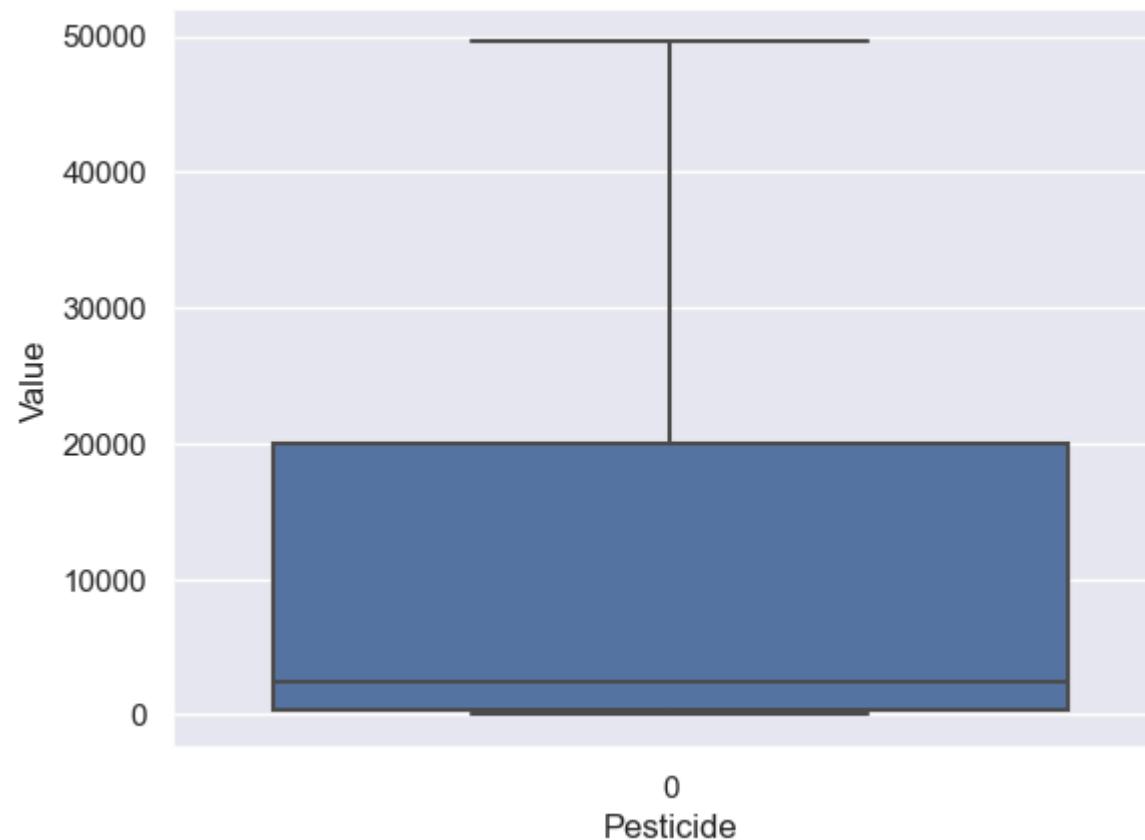


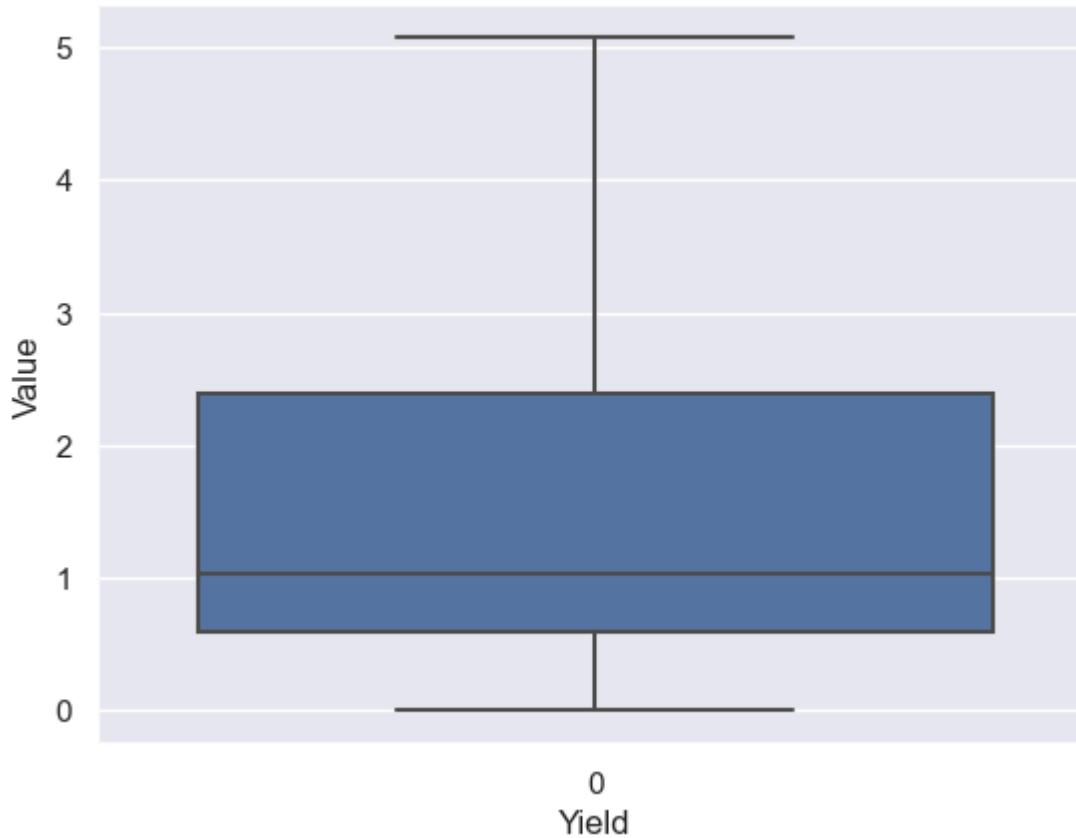






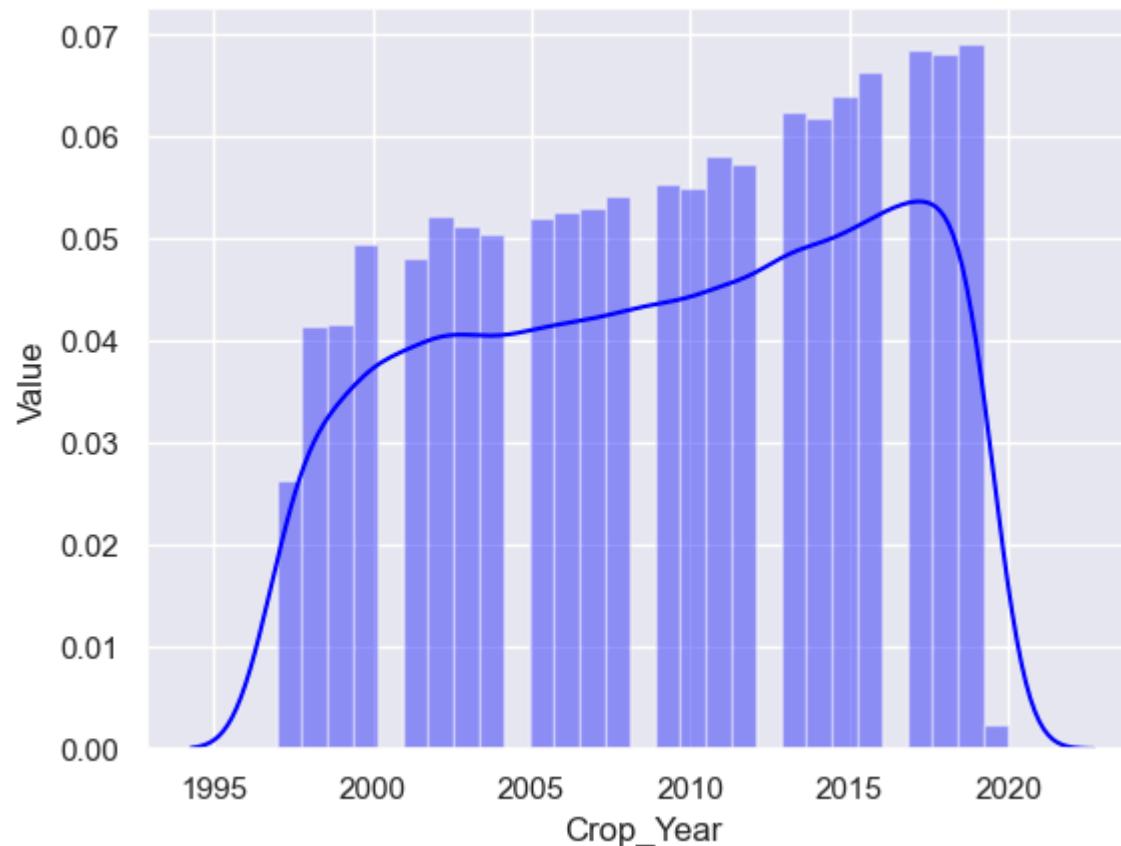


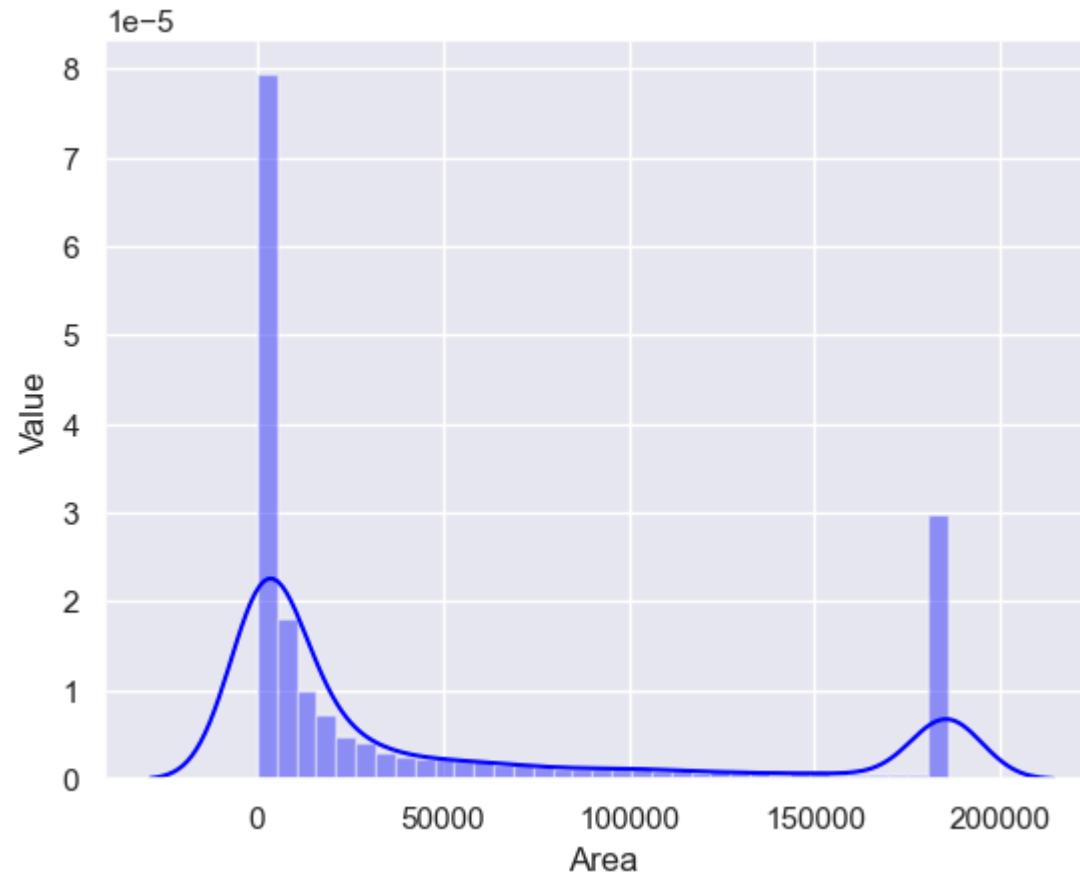


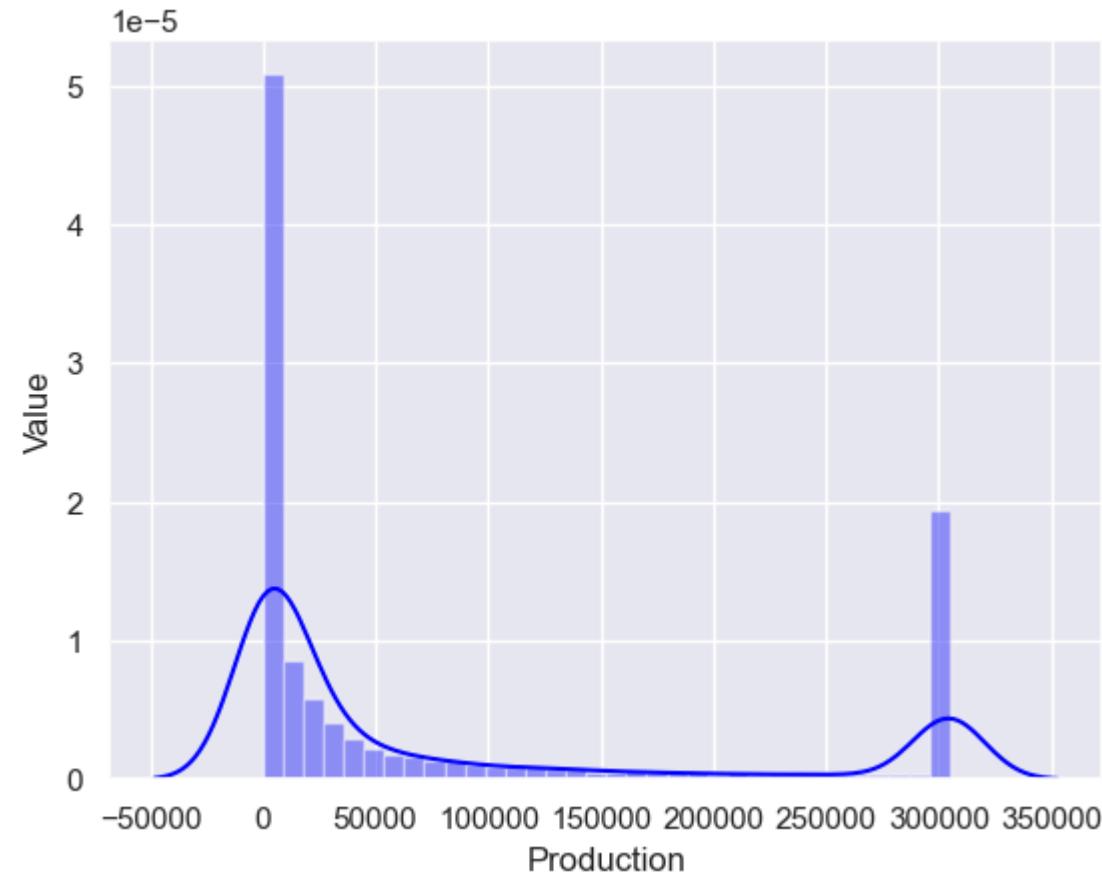


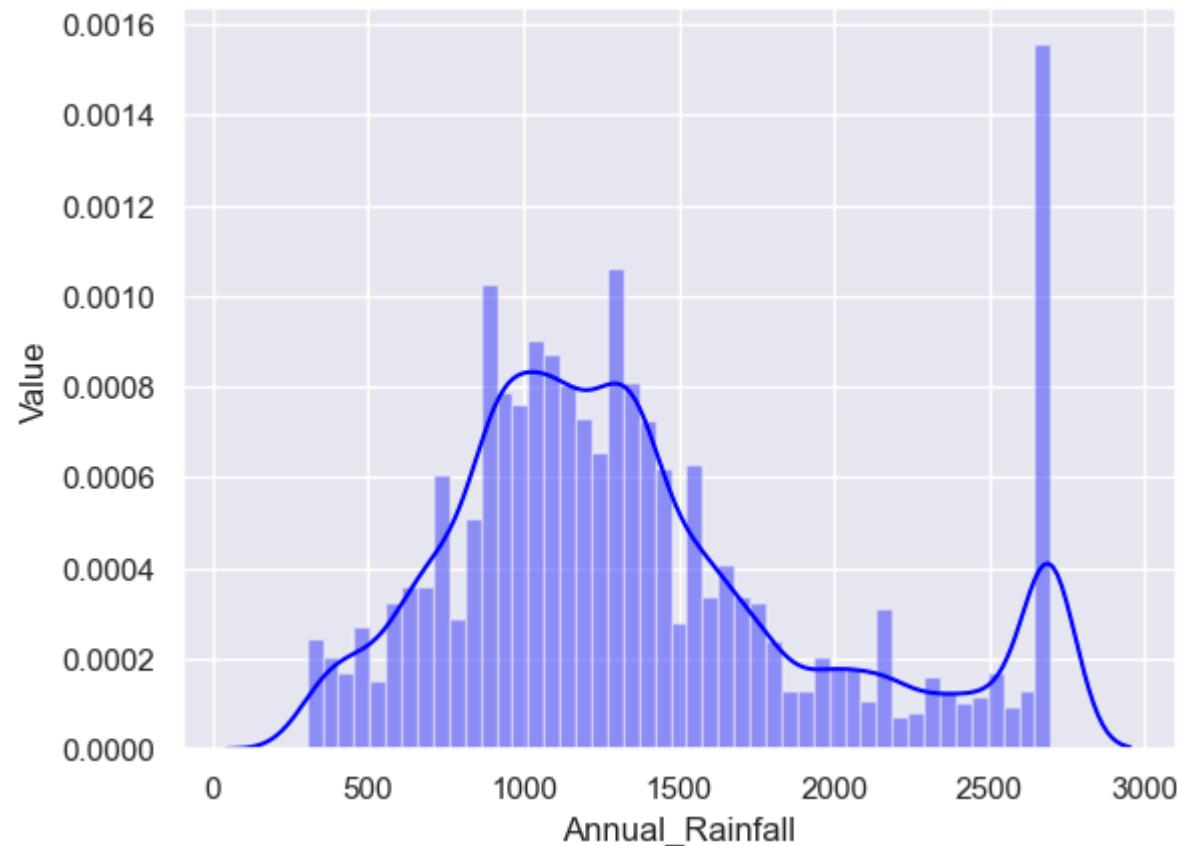
In []:

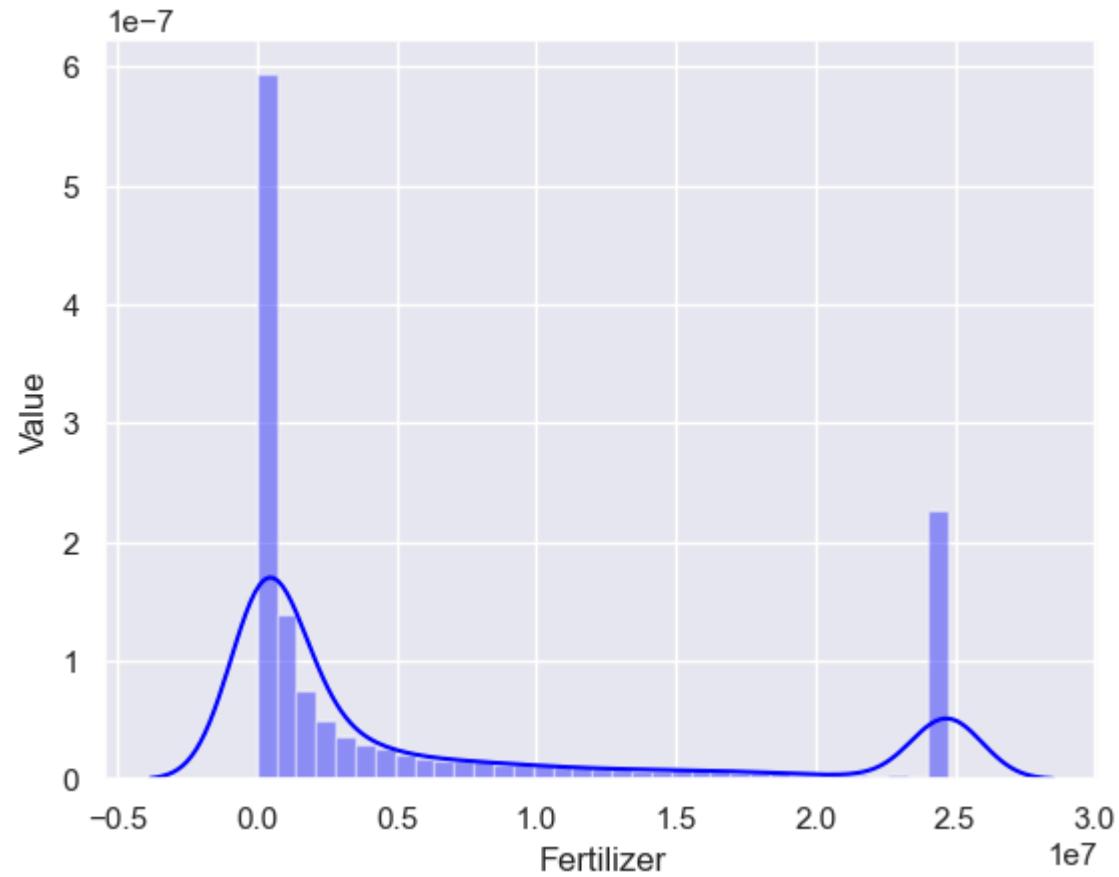
```
In [76]: for d1 in numerical_data.columns:  
    sns.distplot(numerical_data[d1], color='blue')  
    plt.xlabel(d1)  
    plt.ylabel('Value')  
    plt.show()
```

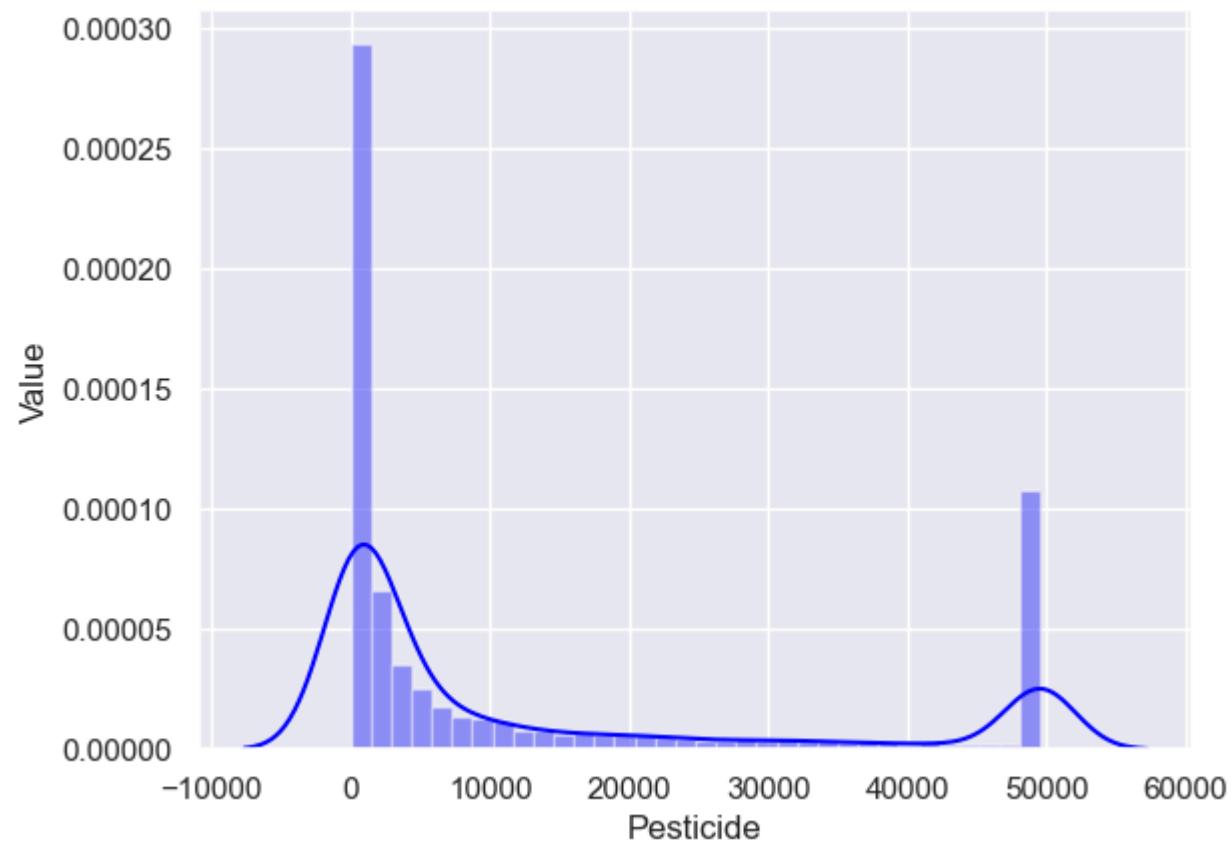


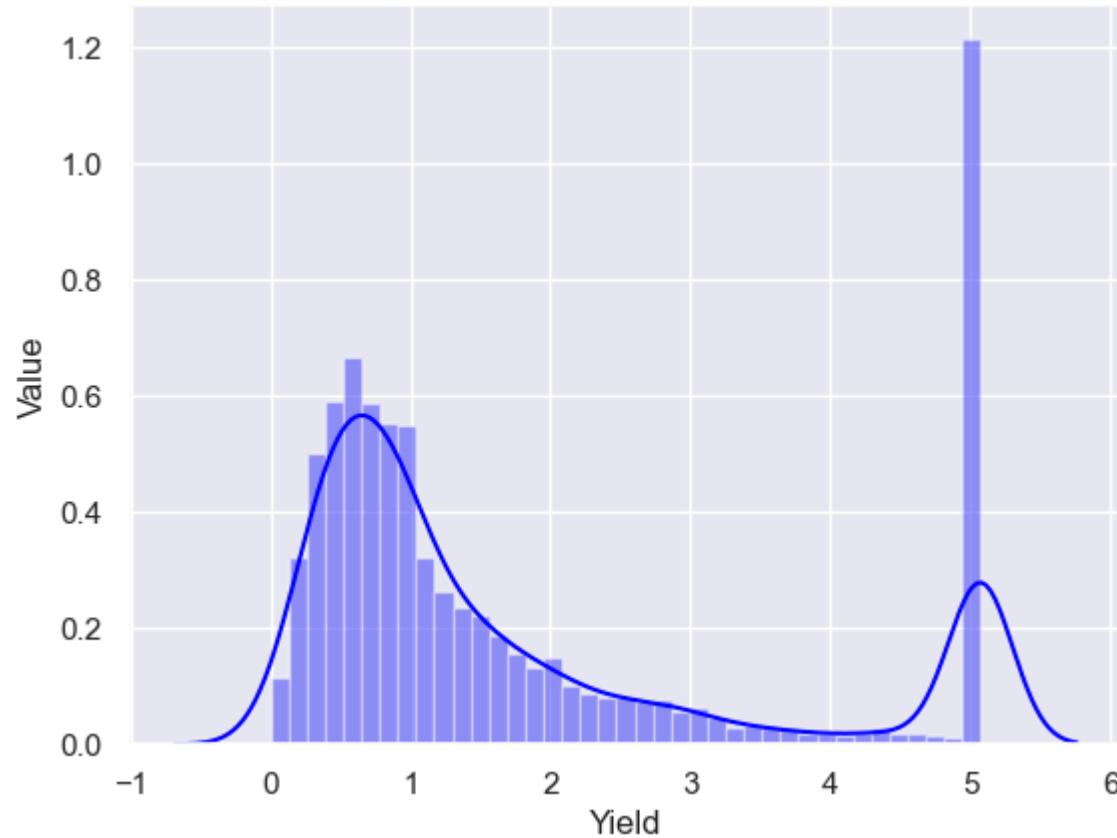












In []:

SPLIT THE DATA INTO DEPENDENT AND INDEPENDENT VARIABLES :-

```
In [77]: from sklearn.model_selection import train_test_split  
  
x = df1.drop(['Yield'], axis = 1)  
y = df1['Yield']  
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2, random_state=42)
```

```
In [78]: print("x_train - > ", x_train.shape)  
print("y_train - > ", y_train.shape)
```

```
print("x_test -> ", x_test.shape)
print("y_test -> ", y_test.shape)

x_train -> (15721, 94)
y_train -> (15721,)
x_test -> (3931, 94)
y_test -> (3931,)
```

In []:

COMPARE BETWEEN MODELS :-

```
In [79]: from sklearn.linear_model import LinearRegression
from sklearn.neighbors import KNeighborsRegressor
from sklearn.svm import SVR
from sklearn.ensemble import GradientBoostingRegressor
from sklearn.tree import DecisionTreeRegressor
from sklearn.ensemble import RandomForestRegressor
from sklearn.metrics import mean_squared_error, r2_score, mean_absolute_error
from sklearn.metrics import confusion_matrix
from sklearn.model_selection import train_test_split
from sklearn.ensemble import AdaBoostRegressor
from xgboost import XGBRegressor

models = {
    "LR": LinearRegression(),
    "Ridge": Ridge(),
    "Lasso": Lasso(),
    "ElasticNet": ElasticNet(),
    "RF": RandomForestRegressor(n_estimators=100, max_depth=7),
    "DT": DecisionTreeRegressor(),
```

```
"Ada Boost": AdaBoostRegressor(),  
  
"GradientBoosting": GradientBoostingRegressor(n_estimators=100, max_depth=7),  
  
"XGB": XGBRegressor(),  
  
"KNN": KNeighborsRegressor(),  
  
"SVR": SVR()  
}  
  
for name, model in models.items():  
    print(f'Training Model {name} \n-----')  
    model.fit(x_train, y_train)  
    y_pred = model.predict(x_test)  
    print(f'Score is {model.score(x_test, y_test)}')  
  
  
# Use appropriate regression metrics  
print(f'Training R-squared: {r2_score(y_train, model.predict(x_train))}')  
print(f'Testing R-squared: {r2_score(y_test, y_pred)}')  
  
print(f'Mean Squared Error: {mean_squared_error(y_test, y_pred)}')  
print(f'Mean Absolute Error: {mean_absolute_error(y_test, y_pred)}')
```

Training Model LR

Score is 0.816106727120185
Training R-squared: 0.8485630263268431
Testing R-squared: 0.816106727120185
Mean Squared Error: 127045.29671662471
Mean Absolute Error: 62.52610922281922
Training Model Ridge

Score is 0.8179063091993668
Training R-squared: 0.848427209880993
Testing R-squared: 0.8179063091993668
Mean Squared Error: 125802.02970834759
Mean Absolute Error: 62.48142457689855
Training Model Lasso

Score is 0.8183543893056503
Training R-squared: 0.8472713855472702
Testing R-squared: 0.8183543893056503
Mean Squared Error: 125492.46716065827
Mean Absolute Error: 50.67022789888741
Training Model ElasticNet

Score is 0.575208414307419
Training R-squared: 0.4993450812214527
Testing R-squared: 0.575208414307419
Mean Squared Error: 293473.34027988376
Mean Absolute Error: 88.3370037556141
Training Model RF

Score is 0.9856730669213909
Training R-squared: 0.9861521246744027
Testing R-squared: 0.9856730669213909
Mean Squared Error: 9897.966551504614
Mean Absolute Error: 8.406083340936787
Training Model DT

Score is 0.9801081290978314
Training R-squared: 1.0
Testing R-squared: 0.9801081290978314
Mean Squared Error: 13742.583409597877

```
Mean Absolute Error: 6.924989917228694
```

```
Training Model Ada Boost
```

```
-----  
Score is 0.8784318001745867
```

```
Training R-squared: 0.8899137680693414
```

```
Testing R-squared: 0.8784318001745867
```

```
Mean Squared Error: 83987.12892678544
```

```
Mean Absolute Error: 32.11196688601276
```

```
Training Model GradientBoosting
```

```
-----  
Score is 0.9872825018543072
```

```
Training R-squared: 0.9999940785180353
```

```
Testing R-squared: 0.9872825018543072
```

```
Mean Squared Error: 8786.065417785105
```

```
Mean Absolute Error: 5.989813666137404
```

```
Training Model XGB
```

```
-----  
Score is 0.9840721764064949
```

```
Training R-squared: 0.9999968469598187
```

```
Testing R-squared: 0.9840721764064949
```

```
Mean Squared Error: 11003.964651874003
```

```
Mean Absolute Error: 7.851576149278429
```

```
Training Model KNN
```

```
-----  
File "C:\Users\DELL\anaconda3\Lib\site-packages\joblib\externals\loky\backend\context.py", line 268, in _count_physical_cores  
    cpu_count_physical = sum(map(int, cpu_info))  
    ^^^^^^^^^^^^^^^^^^
```

```
Score is 0.9723675064770538
```

```
Training R-squared: 0.9801104547911121
```

```
Testing R-squared: 0.9723675064770538
```

```
Mean Squared Error: 19090.30321591631
```

```
Mean Absolute Error: 7.361305848203458
```

```
Training Model SVR
```

```
-----  
Score is 0.0065275515007107154
```

```
Training R-squared: 0.00570787619635138
```

```
Testing R-squared: 0.0065275515007107154
```

```
Mean Squared Error: 686354.6448589959
```

```
Mean Absolute Error: 67.75449049414743
```

In []:

The Best Algorithm Is Random Forest.

In []:

RANDOM FOREST:-

In []:

NOW WE GO TO CHOOSE MAX DEPTH :-

```
In [80]: max_depth_values = [1,2,3,4,5,6,7,8]
train_accuracy_values = []
for max_depth_val in max_depth_values:
    model = RandomForestRegressor(max_depth=max_depth_val,random_state = 2)
    model.fit(x_train, y_train)
    y_pred =model.predict(x_train)
    acc_train=model.score(x_test,y_test)
    train_accuracy_values.append(acc_train)
```

In []:

```
In [81]: train_accuracy_values
```

```
Out[81]: [0.8143878015050651,
 0.8918881148934296,
 0.939427016524484,
 0.9617186313263532,
 0.9801552532729692,
 0.9843862992577498,
 0.9866176176822214,
 0.9872969608913146]
```

In []:

```
In [82]: final_model = RandomForestRegressor(max_depth=6,random_state = 0)
final_model.fit(x_train, y_train)
```

```
Out[82]:
```

```
RandomForestRegressor
RandomForestRegressor(max_depth=6, random_state=0)
```

```
In [ ]:
```

MODEL EVALUTION:-

```
In [83]: forest_train_pred = final_model.predict(x_train)
forest_test_pred = final_model.predict(x_test)

print('MSE train data: %.3f, MSE test data: %.3f' % (
    mean_squared_error(y_train,forest_train_pred),
    mean_squared_error(y_test,forest_test_pred)))
print('R2 train data: %.3f, R2 test data: %.3f' % (
    r2_score(y_train,forest_train_pred),
    r2_score(y_test,forest_test_pred)))
```

```
MSE train data: 13998.198, MSE test data: 11134.915
R2 train data: 0.982, R2 test data: 0.984
```

```
In [ ]:
```

KNN REGRESSION:-

```
In [ ]:
```

```
In [84]: # KNN model
from sklearn.neighbors import KNeighborsRegressor

KNN_model_raw = KNeighborsRegressor()
KNN_model_raw.fit(x_train, y_train)
```

```
raw_y_pred_train_lr = KNN_model_raw.predict(x_train)
raw_y_pred_val_lr = KNN_model_raw.predict(x_test)
```

In [85]: *# Splitting dependent and independent variable*

```
raw_x_train = df1.drop(['Yield'], axis = 1)
raw_y_train = df1['Yield']

raw_x_val = df1.drop(['Yield'], axis = 1)
raw_y_val = df1['Yield']

raw_x_train.head(2)
```

Out[85]:

	Crop_Year	Area	Production	Annual_Rainfall	Fertilizer	Pesticide	Crop_Arhar/Tur	Crop_Bajra	Crop_Banana	Crop_Barley	Crop_Black pepper
0	1997	271.69	238.13	2051.40	2650.45	151.27	False	False	False	False	False
1	1997	81.47	68.45	2051.40	794.76	45.36	True	False	False	False	False

Find K Value :-

In [86]: `from sklearn.metrics import mean_squared_error, r2_score`

```
# Function to find the best value of K based on mean squared error

def find_k(x_train, y_train, x_test, y_test):
    error_rate = [] # Finding the error rate for 50 iterations

    for i in range(1, 50):
        knn = KNeighborsRegressor(n_neighbors = i) # Building the model with i neighbors
        knn.fit(x_train, y_train)
        y_pred = knn.predict(x_test)
        error_rate.append(mean_squared_error(y_test, y_pred))
```

```
# Ploting the error values to find the best value of k

plt.figure(figsize = (8, 8))
plt.plot(range(1,50), error_rate, color = 'red', linestyle = 'dashed', marker = 'o', markersize = 10, markerfacecolor = 'black')
plt.title("Mean Squared Error vs K-Value")
plt.xlabel("K-Value")
plt.ylabel("Mean Squared Error")
plt.show()
```

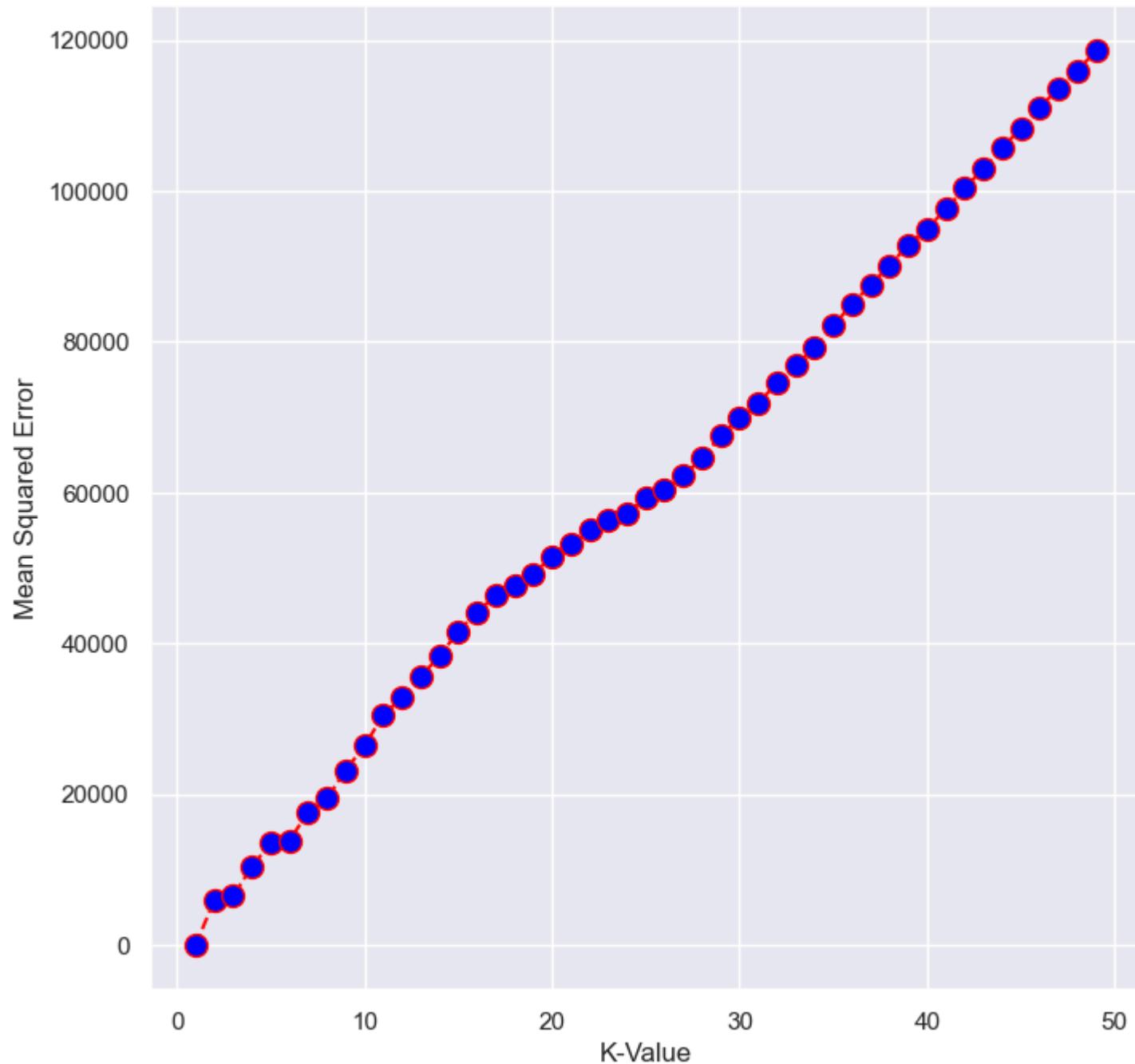
In []:

Visualization Of K Value :-

```
In [87]: from sklearn.neighbors import KNeighborsRegressor

find_k(raw_x_train, raw_y_train, raw_x_val, raw_y_val)
```

Mean Squared Error vs K-Value



Building KNN Regressor With K = 2 :-

In [88]:

```
# Building KNN regressor with k = 2
knn_raw = KNeighborsRegressor(n_neighbors = 2)
knn_raw.fit(raw_x_train, raw_y_train)
raw_y_pred_train_knn = knn_raw.predict(raw_x_train)
raw_y_pred_val_knn = knn_raw.predict(raw_x_val)

print("Accuracy Scores for KNN Regressor model on raw data")
raw_knn_rmse = mean_squared_error(raw_y_val, raw_y_pred_val_knn)
raw_train_knn_r2s = r2_score(raw_y_train, raw_y_pred_train_knn)
raw_val_knn_r2s = r2_score(raw_y_val, raw_y_pred_val_knn)
print("Mean Squared Error :", raw_knn_rmse)
print("R-squared Score (Train) :", raw_train_knn_r2s)
print("R-squared Score (Test) :", raw_val_knn_r2s)
print("*****" * 7)
```

Accuracy Scores for KNN Regressor model on raw data

Mean Squared Error : 6030.22833102104

R-squared Score (Train) : 0.9921971500616913

R-squared Score (Test) : 0.9921971500616913

In []:

CONCLUSION :-

BEST MODEL :- RANDOM FOREST(Training-98% And Testing-98%)

Reason :- It achieves the highest R Square on testing data (98.81%) with a low RMSE(90.55).

Balanced performance on training and testing data suggests the model generalizes well.

RUNNER-UP :- XGBoost

Slightly lower R Square and higher RMSE compared to Random Forest but still performs exceptionally well.

Gradient Boosting And KNN : Good Alternative.

In []:

END OF THE PROJECT

In []: