



TAMILNADU CROP PRODUCTION

Dataset Description



Dataset from Kaggle

kaggle

<https://www.kaggle.com/datasets/nandhiniarun/data-set-for-cauvery-delta-region>

9 Attributes

Year, District, Crop, Area, Tanks, Bore_wells, Open_wells, Production, Yield

The Dataset Contain information about 3 crops .It contain 31 District information out of 38 from 2005 to 2012

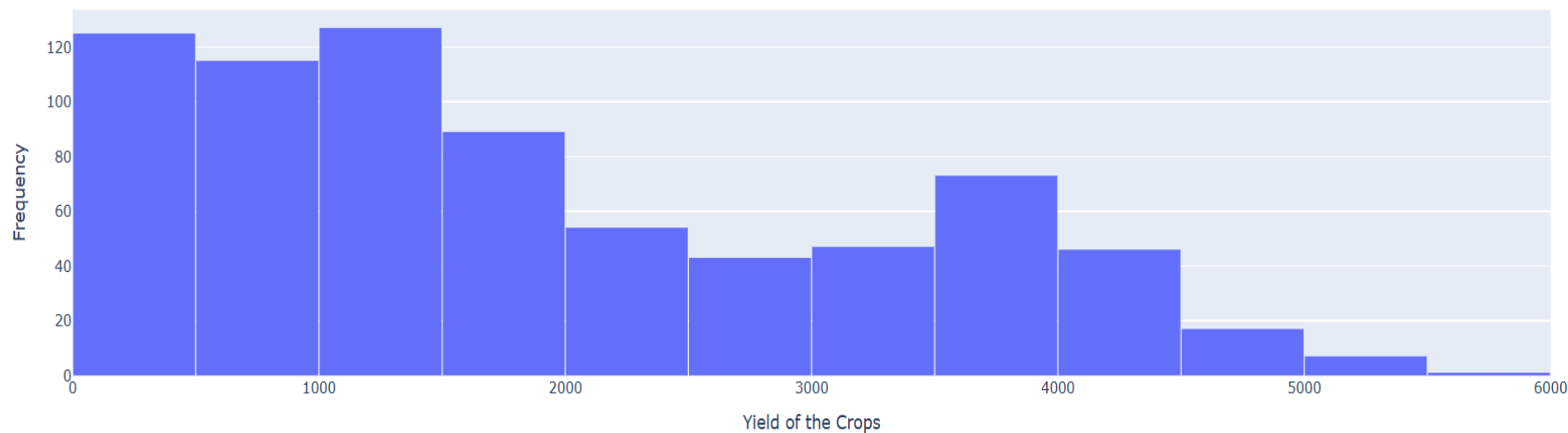
Inference

The crop yield frequently falls between the range of 0-2000 that indicate the crop productivity is in moderate condition. Skewed distribution is very low between 5000 to 6000.

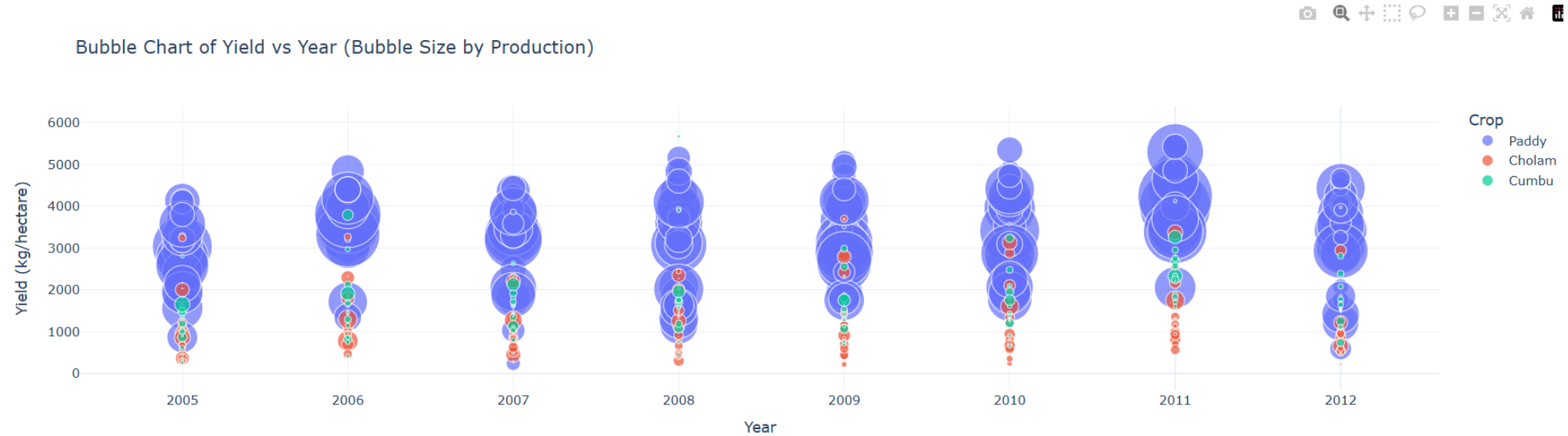
Crop Yield Analysis Dashboard

Histogram of Yield Distribution

Distribution of Crops Yield



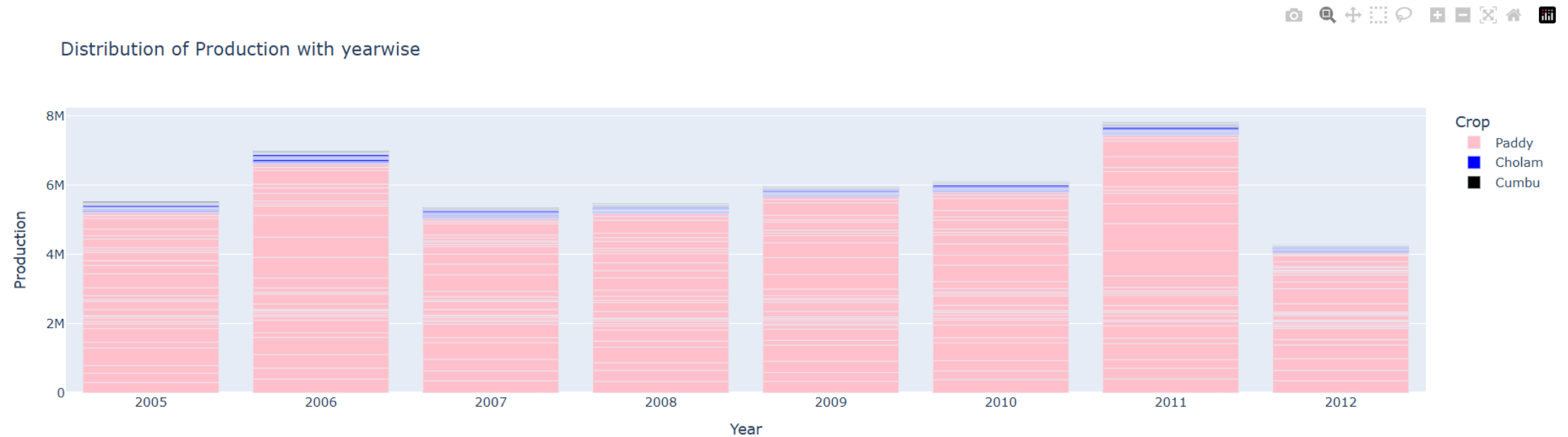
Bubble chart Yield by Year



Inference

- ❑ The Bubble chart indicates the major production held in the year 2011.
- ❑ And paddy has high production rate compare to Cumbu and Cholan.

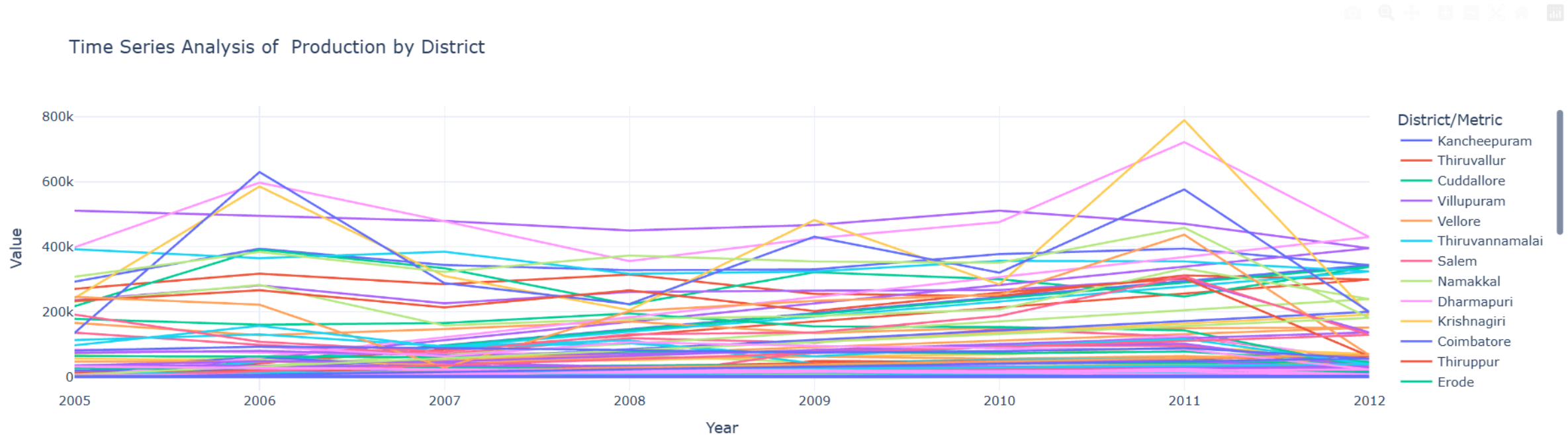
Bar Chart of Production by Year



Inference

- ❑ Bar chart indicates the high productivity peak year is 2011 and low productivity occur at 2012.
- ❑ Paddy has High productivity compared to other crop.

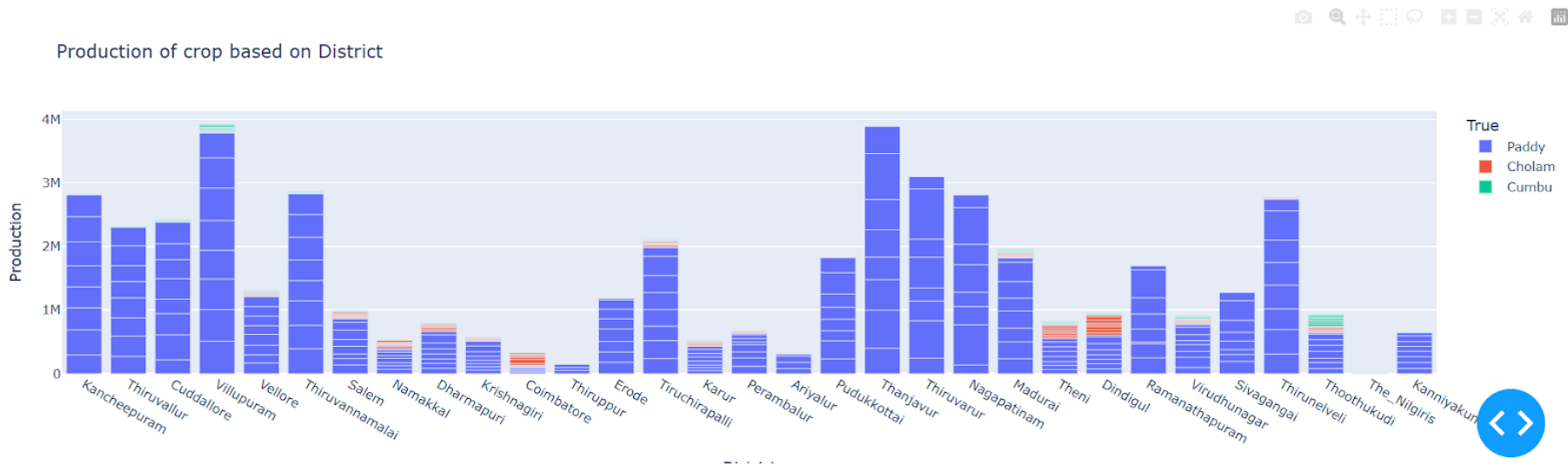
Line Chart of Production Over Time



Inference

- ❑ Line chart shows that significantly peak is around 2006 to 2011.
- ❑ Nagapattinam , Thanjavur, Thiruvarur is the area of high Productivity .

Bar chart of Crop Production Based on District



Inference

- ❑ Bar chart Indicates that Thanjavur has High productivity of Paddy crop compared to other district
- ❑ And Cumbu(millet) has high productivity in Thoothukudi
- ❑ Cholan has high Productivity in Dindugal .
- ❑ And Niligiri is not a suitable land the cultivation of the three crops .

INSIGHT

- **Paddy Dominates Crop Production:** Compared to other crop Paddy is most cultivated crop in Tamil Nadu And it has highest Production.
- **Yearly Peak in Production:** Compared to other Year 2011 has high productivity due to climate change , rainfall or agricultural policies.
- **District-wise Crop production:** Compared to other district Nagapattinam , Thanjavur, Vilupuram, Thiruvarur has high productivity of crops.
- **Cumbu & Cholan :** Only significant in specific districts Vilupuram, Thoothukudi, Theni, Dindugal .so we conclude that these crop are suitable for that soil or climatic condition.

