

FILLED MAP, DUAL LINE CHART, SCATTER PLOT

# Tableau Project

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# Visualization on Agriculture data through the Following three charts

A

**Filled Map**

B

**Dual Line Chart**

C

**Scatter Plot**

# Dataset

Tableau Public - Book5

File Data Window Help

Tableau Public Desktop

Connections Add

crop\_yield Text file

Files

Use Data Interpreter  
Data Interpreter might be able to clean your Text file workbook.

crop\_yield.csv  
disney\_movies.csv  
FuelConsumption.csv  
Latest Covid-19 India Status.csv  
movies.csv  
ratings.csv  
teleCust1000t.csv  
New Union  
New Table Extension

crop\_yield

crop\_yield.csv 12 fields 19689 rows 100 rows

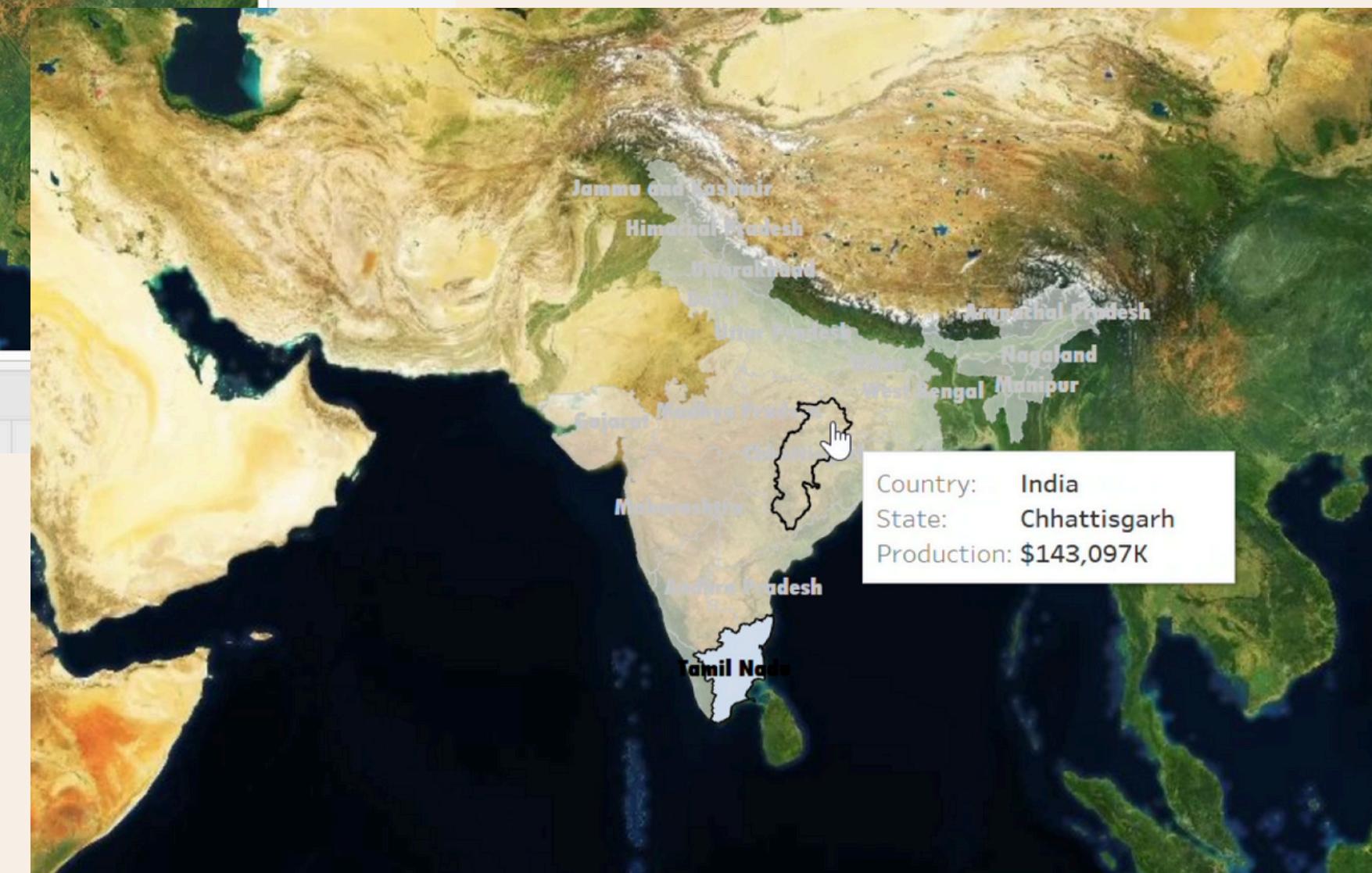
Name: crop\_yield.csv

Fields

Type	Field Name	Physical Table	Remote Fiel...
Abc	Crop	crop_yield.csv	Crop
#	Crop Year	crop_yield.csv	Crop_Year
Abc	Season	crop_yield.csv	Season
🌐	State	crop_yield.csv	State
#	Area	crop_yield.csv	Area
#	Production	crop_yield.csv	Production
#	Annual Rainfall	crop_yield.csv	Annual_Rainfall
#	Fertilizer	crop_yield.csv	Fertilizer
#	Pesticide	crop_yield.csv	Pesticide
#	Yield	crop_yield.csv	Yield

Crop	Crop Year	Season	State	Area	Production
Areca nut	1997	Whole Year	Assam	73,814	56.7
Arhar/Tur	1997	Kharif	Assam	6,637	4.6
Castor seed	1997	Kharif	Assam	796	
Coconut	1997	Whole Year	Assam	19,656	126,905.0
Cotton(lint)	1997	Kharif	Assam	1,739	7.7
Dry chillies	1997	Whole Year	Assam	13,587	9.0
Gram	1997	Rabi	Assam	2,979	1.5
Jute	1997	Kharif	Assam	94,520	904.0
Linseed	1997	Rabi	Assam	10,098	5.1
Maize	1997	Kharif	Assam	19,216	14.1
Mesta	1997	Kharif	Assam	5,915	29.0
Niger seed	1997	Whole Year	Assam	9,914	5.0
Onion	1997	Whole Year	Assam	7,832	17.9

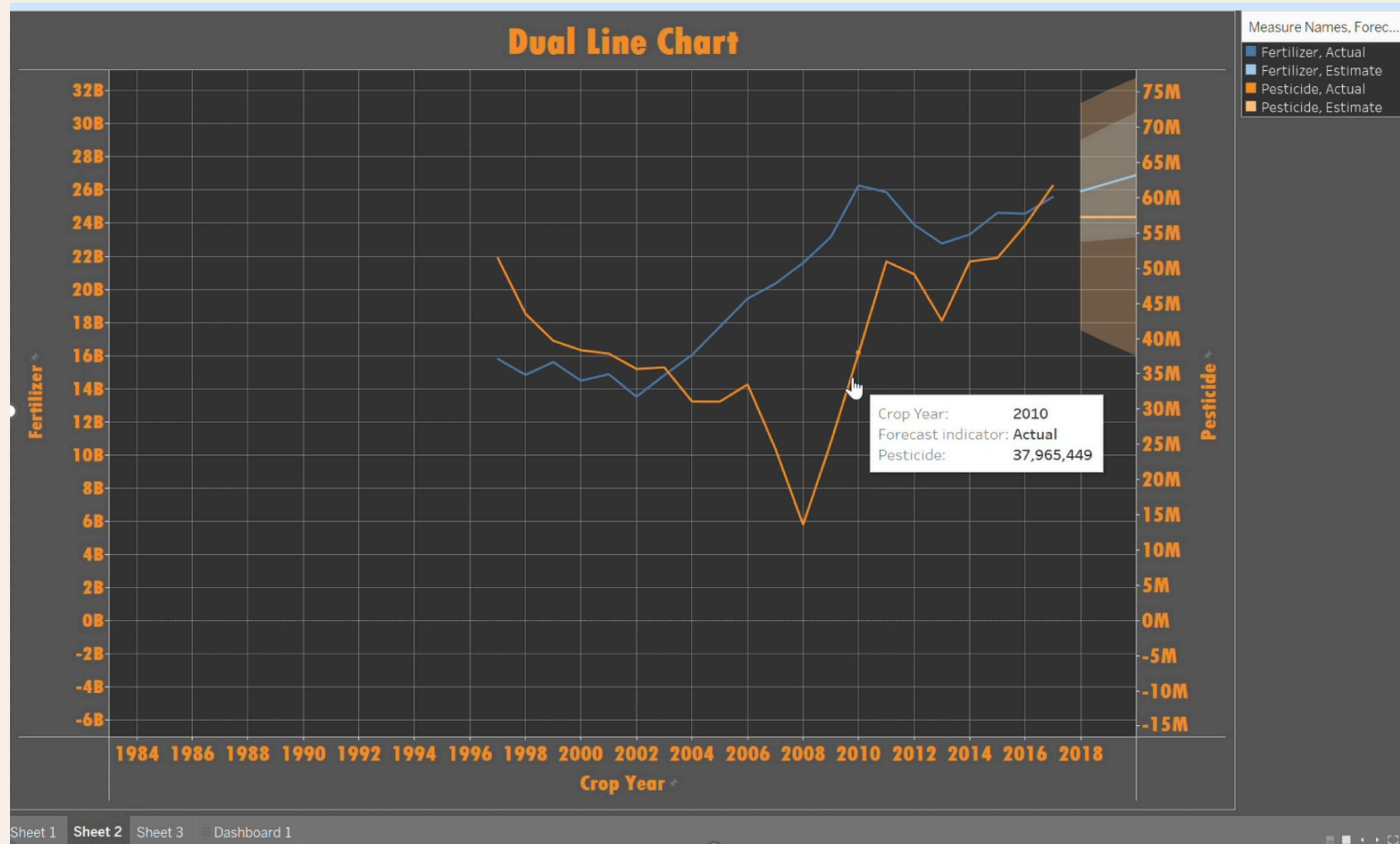
# Total Production by country (Filled Map)

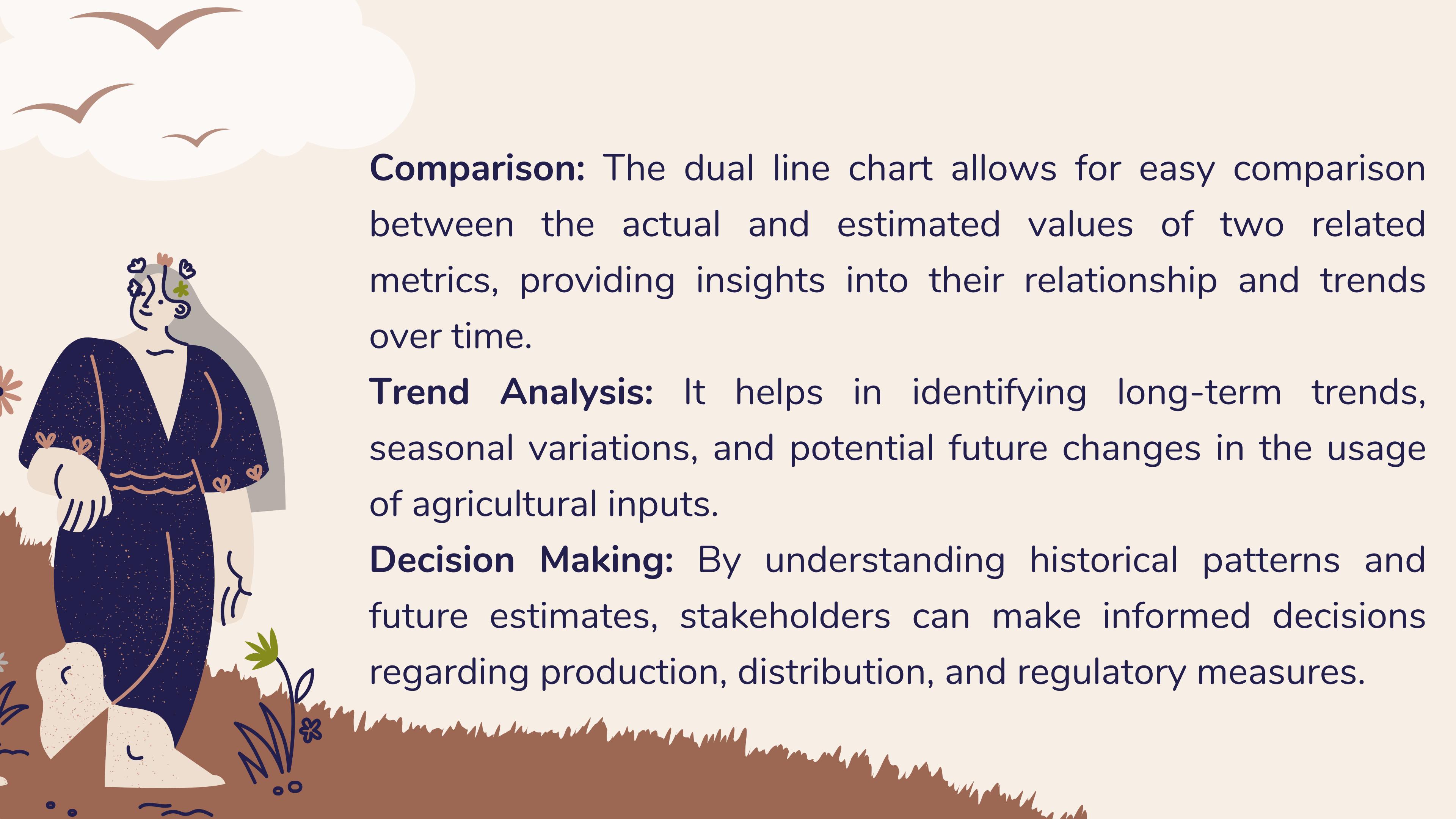


## **Analysis and Storytelling of filled Map**

- **Descriptive Analysis:** The filled map shows the total production of crops by country, providing a geographical representation of agricultural output.
- **Prescriptive Analysis:** By understanding which countries have the highest production, policymakers can focus on enhancing agricultural infrastructure in lower-performing regions to boost their productivity.
- **Significance:** The filled map is chosen because it visually represents data across geographical regions, making it easier to identify patterns and concentrations of high production areas.

# The dual line chart depicts the actual and estimated usage of fertilizers and pesticides from 1984 to 2018.





**Comparison:** The dual line chart allows for easy comparison between the actual and estimated values of two related metrics, providing insights into their relationship and trends over time.

**Trend Analysis:** It helps in identifying long-term trends, seasonal variations, and potential future changes in the usage of agricultural inputs.

**Decision Making:** By understanding historical patterns and future estimates, stakeholders can make informed decisions regarding production, distribution, and regulatory measures.

# Yield vs. Rainfall with crop type (Scatter Plot):

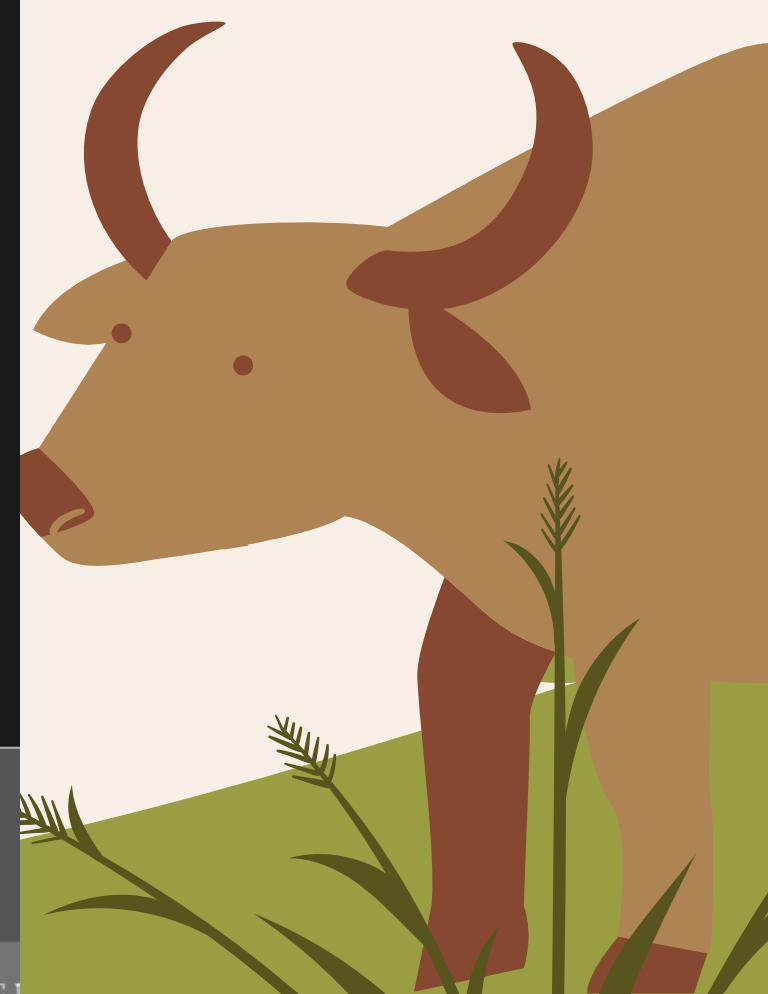
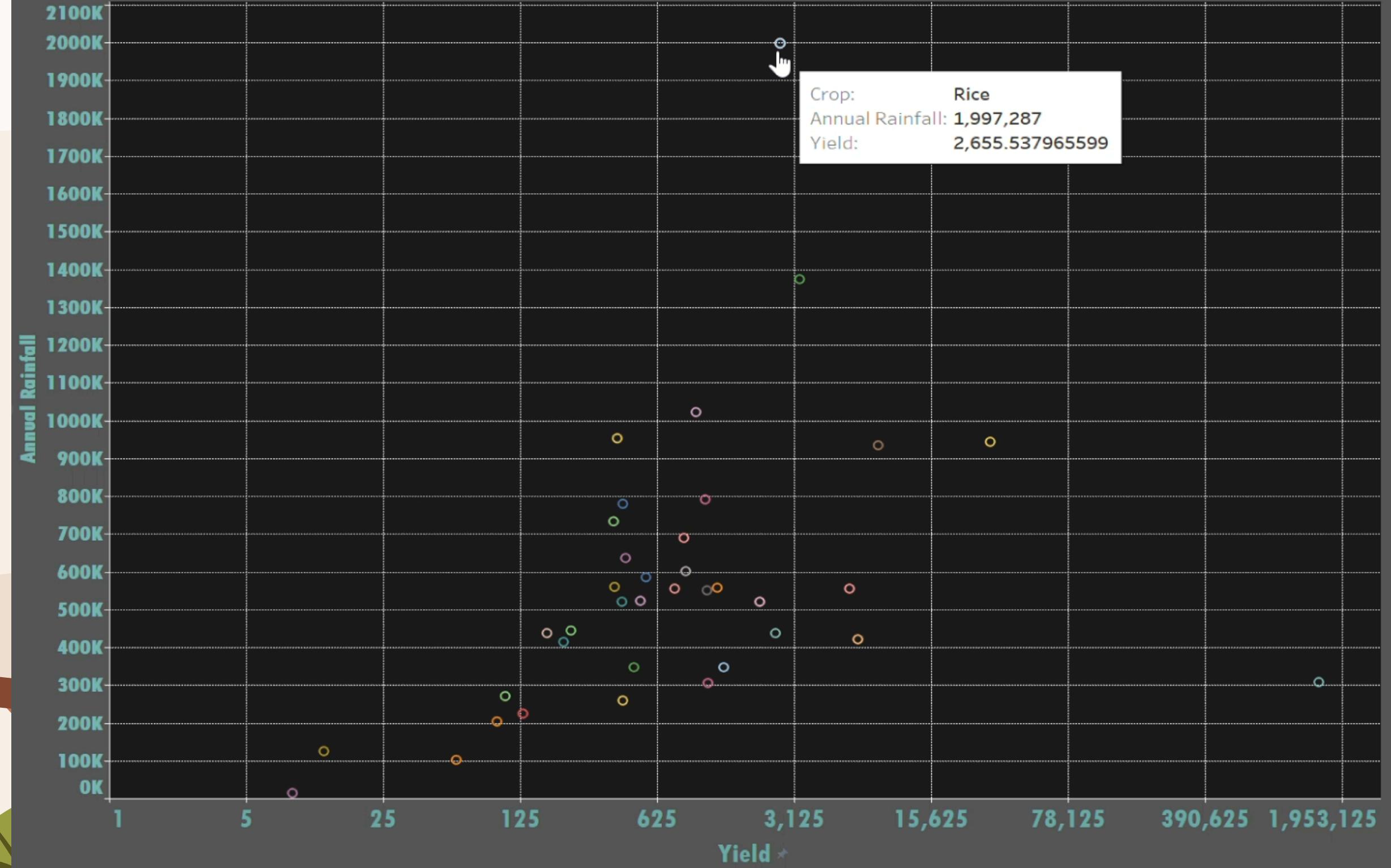
Tableau Public Desktop

Upgrade

## Scatter Plot

Crop: Rice  
Annual Rainfall: 1,997,287  
Yield: 2,655.537965599

Crop
Bajra
Banana
Barley
Black pepper
Cardamom
Cashewnut
Castor seed
Coconut
Coriander
Cotton(lint)
Dry chillies
Garlic
Ginger
Gram
Groundnut
Horse-gram
Jowar
Jute
Khesari
Maize
Masoor
Moong(Green Gram)
Onion
Other Summer Pulses
Peas & beans (Pulses)
Potato
Rapeseed & Mustard
Rice
Safflower
Small millets
Soyabean
Sugarcane
Sunflower
Sweet potato
Tobacco
Turmeric
Wheat



# Analysis and Storytelling of Scatter Plot



- **Predictive Analysis:** The scatter plot helps identify the relationship between rainfall and crop yield, which can be used to predict future yields based on expected rainfall.
- **Diagnostic Analysis:** By analyzing the scatter plot, we can identify outliers and investigate factors that might be causing higher or lower than expected yields given the amount of rainfall.
- **Significance:** The scatter plot is chosen because it effectively shows the relationship between two continuous variables (rainfall and yield) while incorporating a categorical variable (crop type) using colors.



# Thank you !

Don't hesitate to ask any questions!