INDIA'S AGRICULTURAL

CROP PRODUCTION ANALYSIS

(1997-2021)

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PROJECT DESCRIPTION

This report delves into the captivating realm of India's agricultural cultivation, providing a comprehensive visual exploration of key aspects and trends in the agricultural sector. Through the visual representations, readers can gain valuable insights into crop production, seasonal variations, regional distribution, and overall production trends. These visualizations enable intuitive analysis, allowing stakeholders to uncover patterns, identify areas of growth or concern, and make data-driven decisions

By harnessing the power of Tableau, this report not only presents the data in a visually appealing manner but also provides an interactive experience for readers to explore the intricacies of India's agricultural cultivation. To Extract the Insights from the data and put the data in the form of visualizations, Dashboards and Story we employed Tableau tool.

Technical Architecture:
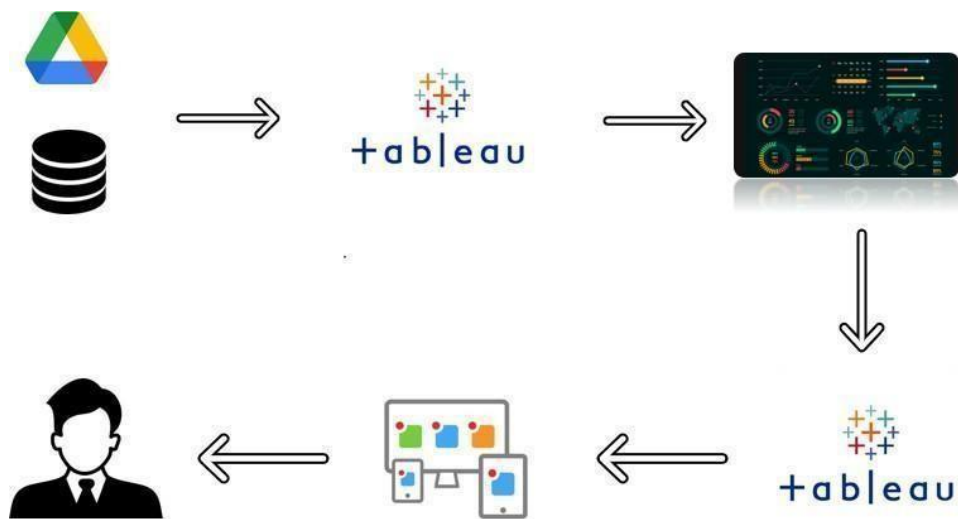
INTRODUCTION

According to The World Bank, India is a global agricultural powerhouse. It is the world's largest producer of milk, pulses, and spices, and has the world's largest cattle herd (buffaloes), as well as the largest area under wheat, rice and cotton. It is the second largest producer of rice, wheat, cotton, sugarcane, farmed fish, sheep & goat meat, fruit, vegetables and tea. While agriculture's share in India's economy has progressively declined to less than 15% due to the high growth rates of the industrial and services sectors,

OVERVIEW

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OBJECTIVES

Let us analyze the Indian Agriculture crop production for the data collected from 1997 to 2022. Let us ask interesting questions on existing data, get production and area statistics and understand more on the Indian Agriculture history for crop production.

SOURCE OF DATA

Data is open available on [Kaggle](#) which is made available [Ministry of Agriculture and Farmers Welfare of India](#)

the sector's importance in India's economic and social fabric goes well beyond this indicator.

These are all sources of data we supposed to get from google

ANALYSE AND EMPATHIZE

 To define the problems and thinking of solutions ,In other words Problem definition and Design thinking of the solution we can use Empathy map for the better experience ,From this we can get a better Ideas and a Solutions

EMPATHY MAP
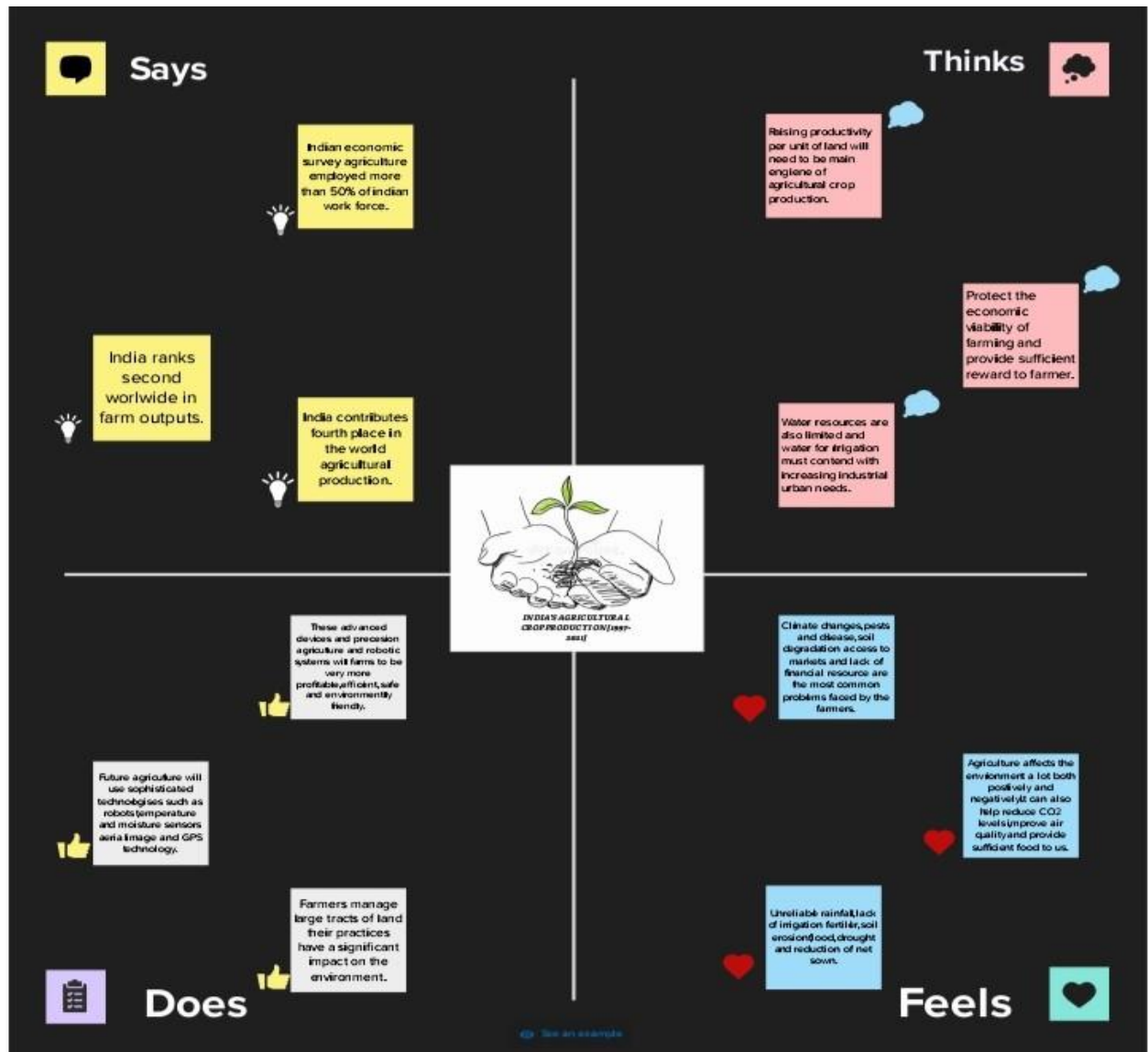
- # EMPATHY MAP

An empathy map is a collaborative tool teams can use to gain a deeper insight into their customers. Much like a user persona, an empathy map can represent a group of users, such as a customer segment. The empathy map was originally created by Dave Gray and has gained much popularity within the agile community.

IMPORTANCE OF EMPATHY MAP

An Empathy maps are used to gain a 360-degree perspective on what a user says, thinks, feels, and does. Empathy maps offer a glance into who a user is as a whole, and what they feel is different from what they say, think, or do

An empathy map helps to map what a design team knows about the potential audience. This tool helps to understand the reason behind some actions a user takes deeply. This tool helps build Empathy towards users and helps design teams shift focus from the product to the users who are going to use the product.

ADVANTAGES OF EMPATHY MAP

- More understanding of the Target Audience.

- More Organized Information in easy to understand format.

- Fast and Inexpensive.

- Easy Customization.

- Common Understanding and same mindset of whole team members.

- It describes what users think, say, feel, do.

DISADVANTAGES OF THE EMPATHY MAP

- They are designed to capture the needs and perspectives of a specific audience, but may not capture the needs and perspectives of other stakeholders.
- For example, an empathy map created for customers may not capture the needs and perspectives of employees or suppliers

APPLICATION OF THE EMPATHY MAP

- An empathy map is a tool used in design thinking to build an emotional representation of a user or the customer.

It's a versatile activity that may be used to generate new product ideas as well as better understand existing ones.

CONCLUSION

An Empathy map helps describe the aspects of a user's experience needs and pain points.

This template allows you to quickly understand your user's experience and mindset

BAINSTORMING BRIDGE

Brainstorming is a group creativity technique by which efforts are made to find a conclusion for a specific problem by gathering a list of ideas spontaneously contributed by

its members. A group of people write ideas on sticky notes as part of a brainstorming session.
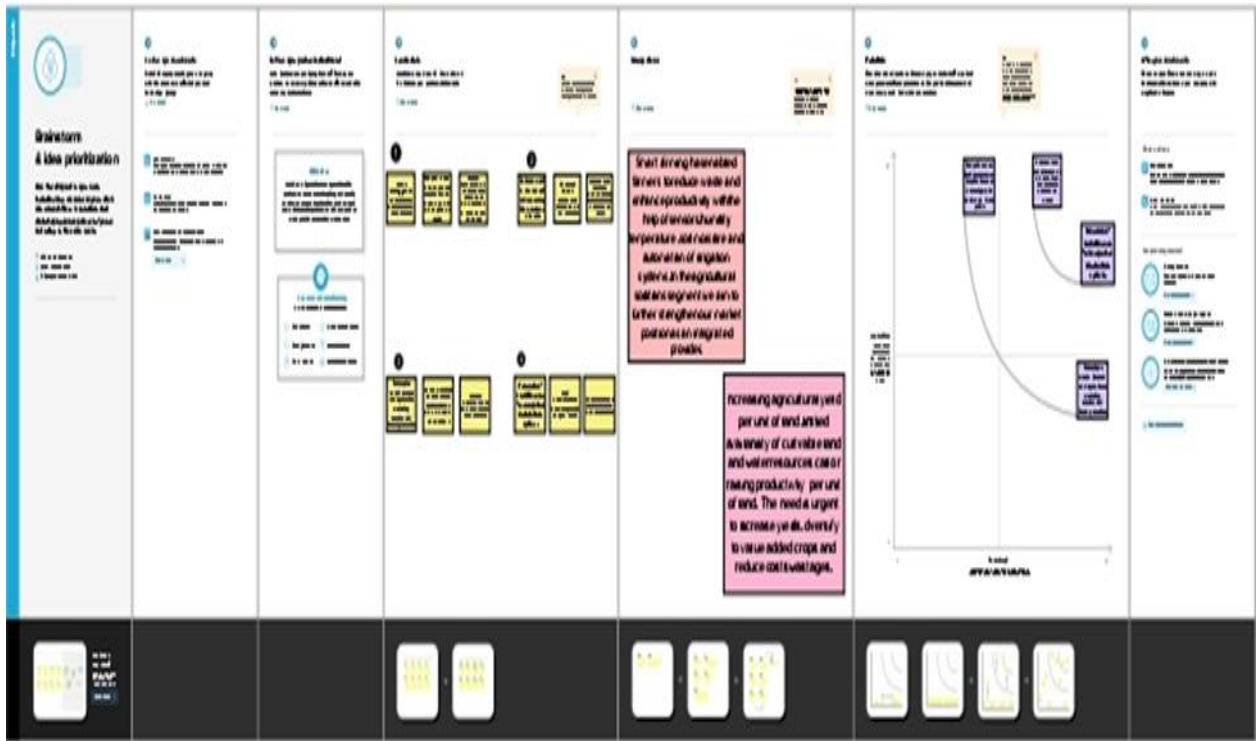
IMPORTANCE OF BRAINSTORMING BRIDGE

Brainstorming helps writers generate more ideas before beginning to write about a topic. It can also help reduce writing anxiety and focus attention on the most relevant content when writing. Brainstorming is an essential step before outlining the major points needed to create a well-organized essay.

Brainstorming provides a free and open environment that encourage everyone within a team to participate in creative thinking process that leads to problem solving.

ADVANTAGES

Brainstorming is a problem-solving activity where students build on or develop higher order thinking skills. Encourages creative thought. Brainstorming encourages students to think creatively (out of the box), encouraging all students to share their ideas, no matter how far "out there" they may seem.

DISADVANTAGES

However, if we are to consider disadvantages, they may include:

- Can take too much time if the group is not properly controlled and is allowed to run for too long.
- Raising expectations of the brainstorming group by considering ideas that will never be implemented.

APPLICATIONS

It's a technique used for idea generation and to spark creativity. Typically individuals or teams will conduct a brainstorm at the beginning of projects as a way to find innovative solutions to current problems, but you can incorporate this technique whenever the need for new ideas arises.

CONCLUSION

It's a technique used for idea generation and to spark creativity. Typically individuals or teams will conduct a brainstorm at the beginning of projects as a way to find innovative solutions to current problems, but you can incorporate this technique whenever the need for new ideas arises

In other words, brainstorming is a situation where a group of people meet to generate new ideas and solutions around a specific domain of interest by removing inhibitions. People are able to think more freely and they suggest as many spontaneous new ideas as possible.

CREATING A DASHBOARD AND STORY USING TABLEAU AND ANALYZING THE INDIA'S AGRICULTURAL CROP PRODUCTION (1997-2021)

Analysis of the India's Agricultural Crop Production between (1997-2021)

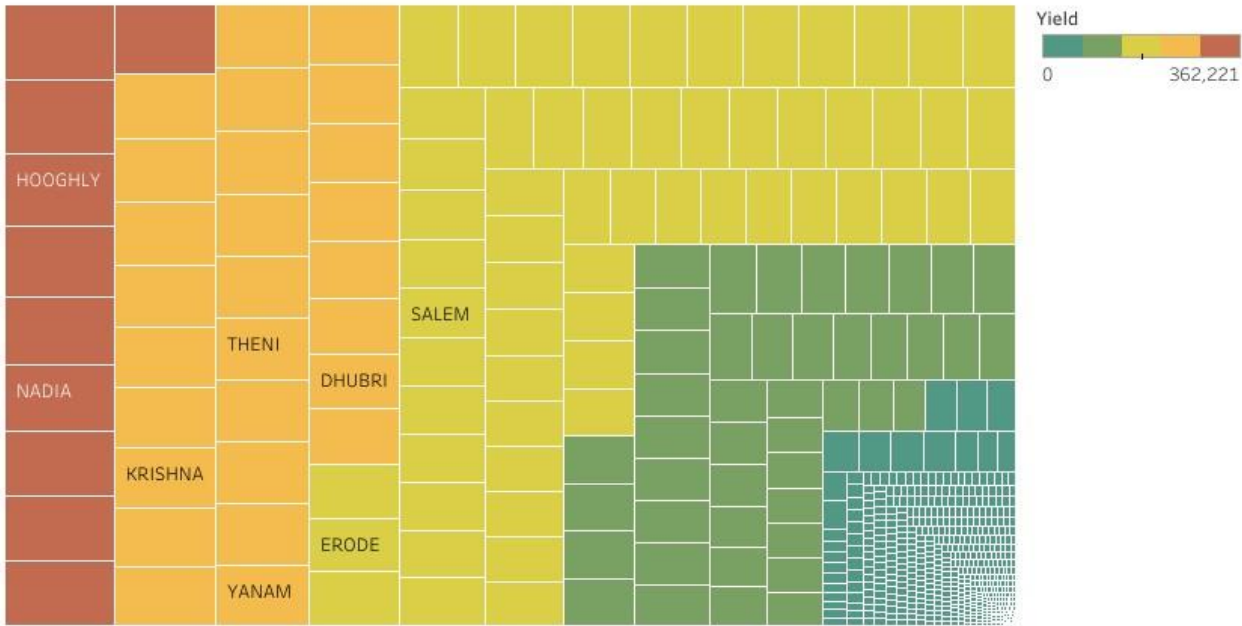# State and Yield

Year , Yield and Production
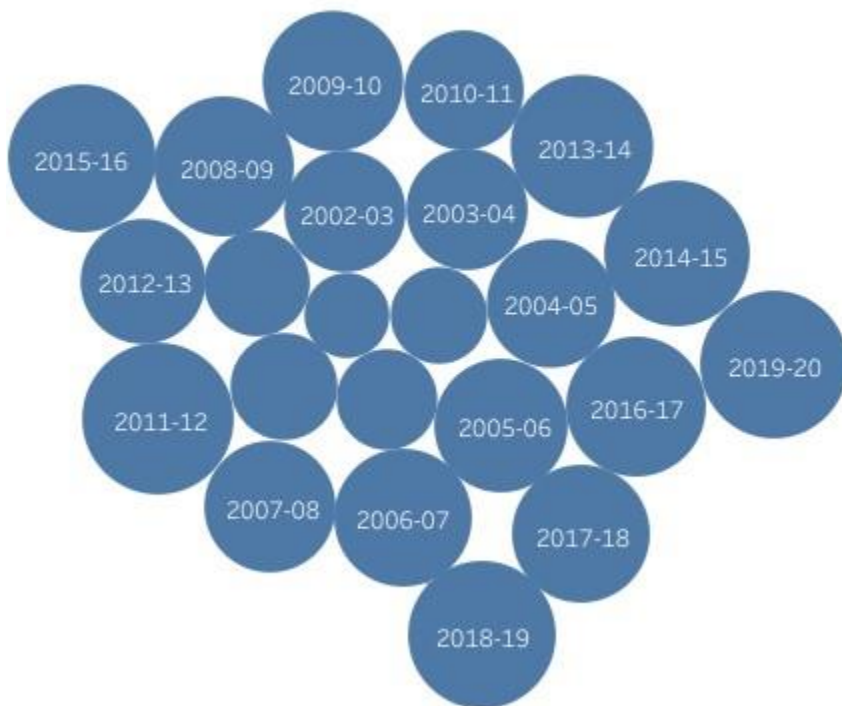
Sheet 2
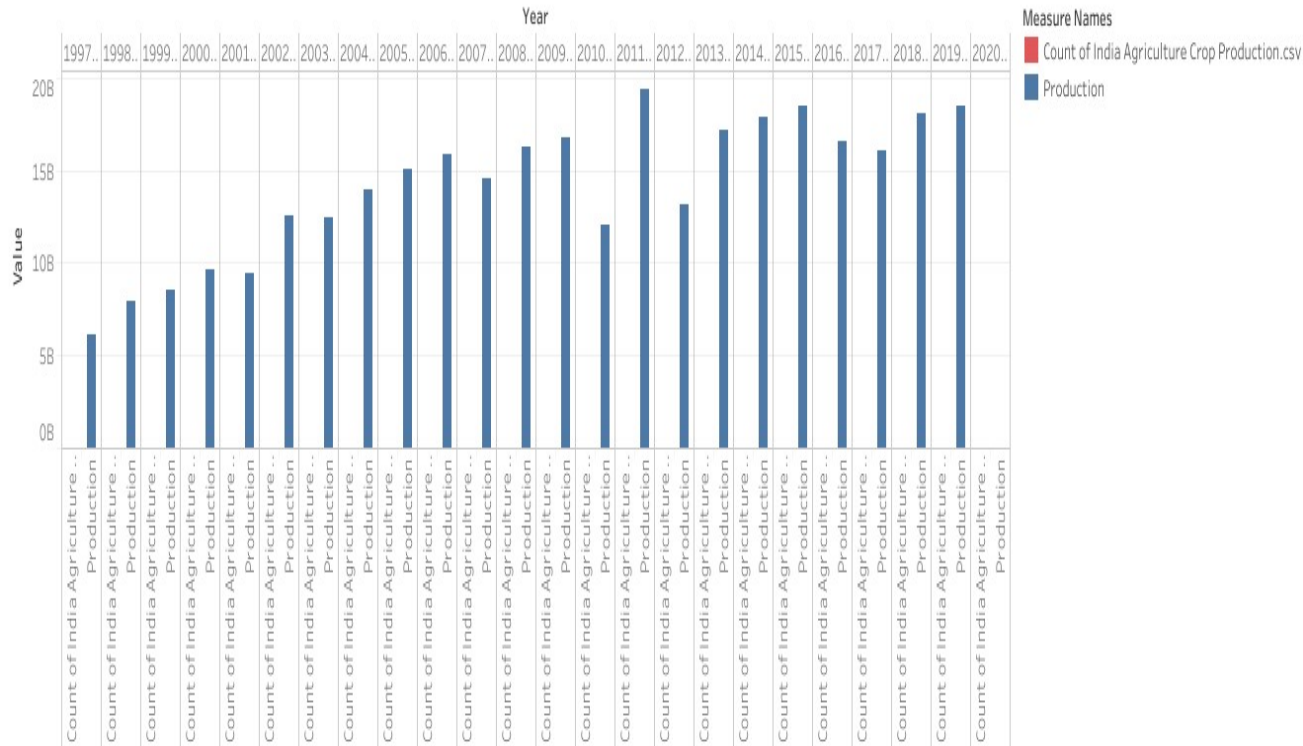
Production and Season

Sheet 3

Season
- ■ Autumn
- ■ Kharif
- ■ nan
- ■ Rabi
- ■ Summer
- ■ Whole Year
- ■ Winter
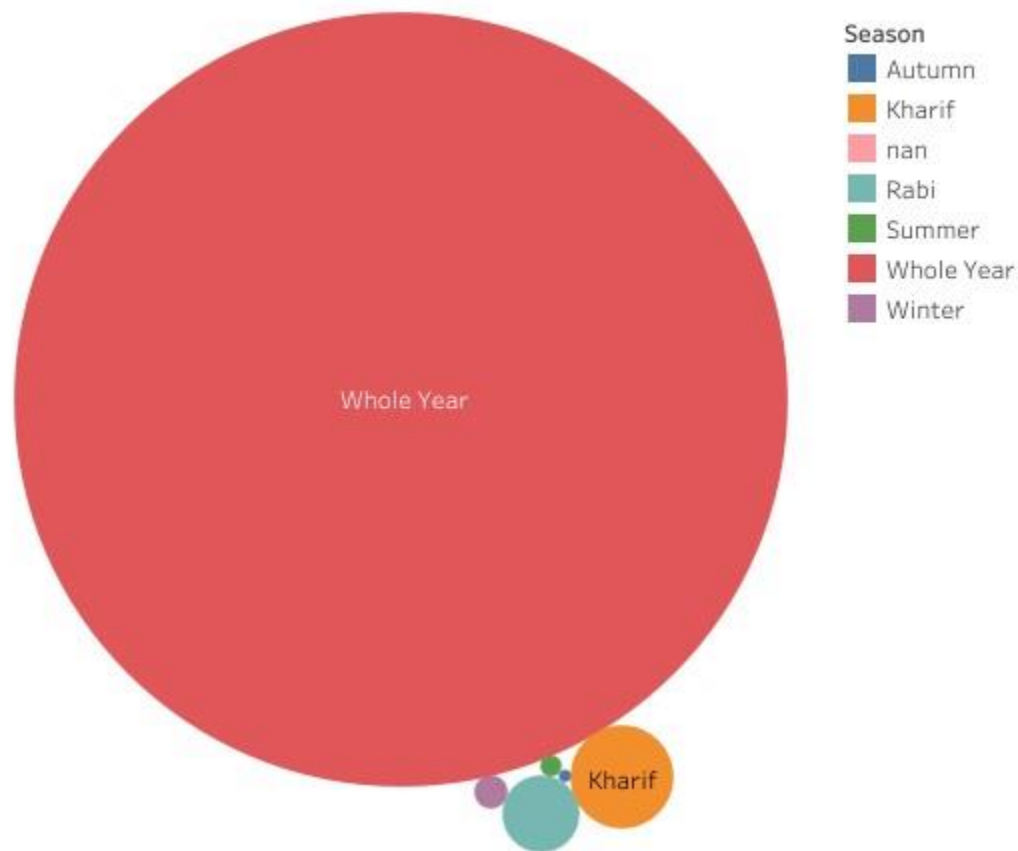
Yield and District

Production and Yield

State and Yield

Sheet 6

5,423,382   3,482,502   Yield
251,710   4,160,130   27,425,310
5,617,809   144,615
111,190   4,329,561
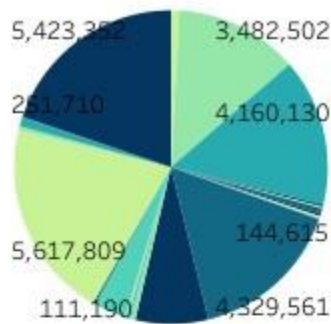
State

- Andaman and Nicobar Islands
- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh
- Chhattisgarh
- Dadra and Nagar Haveli
- Daman and Diu
- Delhi
- Goa
- Gujarat
- Haryana
- Himachal Pradesh
- Jammu and Kashmir
- Jharkhand
- Karnataka
- Kerala
- Laddakh
- Madhya Pradesh
- Maharashtra
- Manipur
- Meghalaya
- Mizoram
- Nagaland
- Odisha
- Puducherry
- Punjab
- Rajasthan
- Sikkim
- Tamil Nadu
- Telangana
- Tripura
- Uttar Pradesh
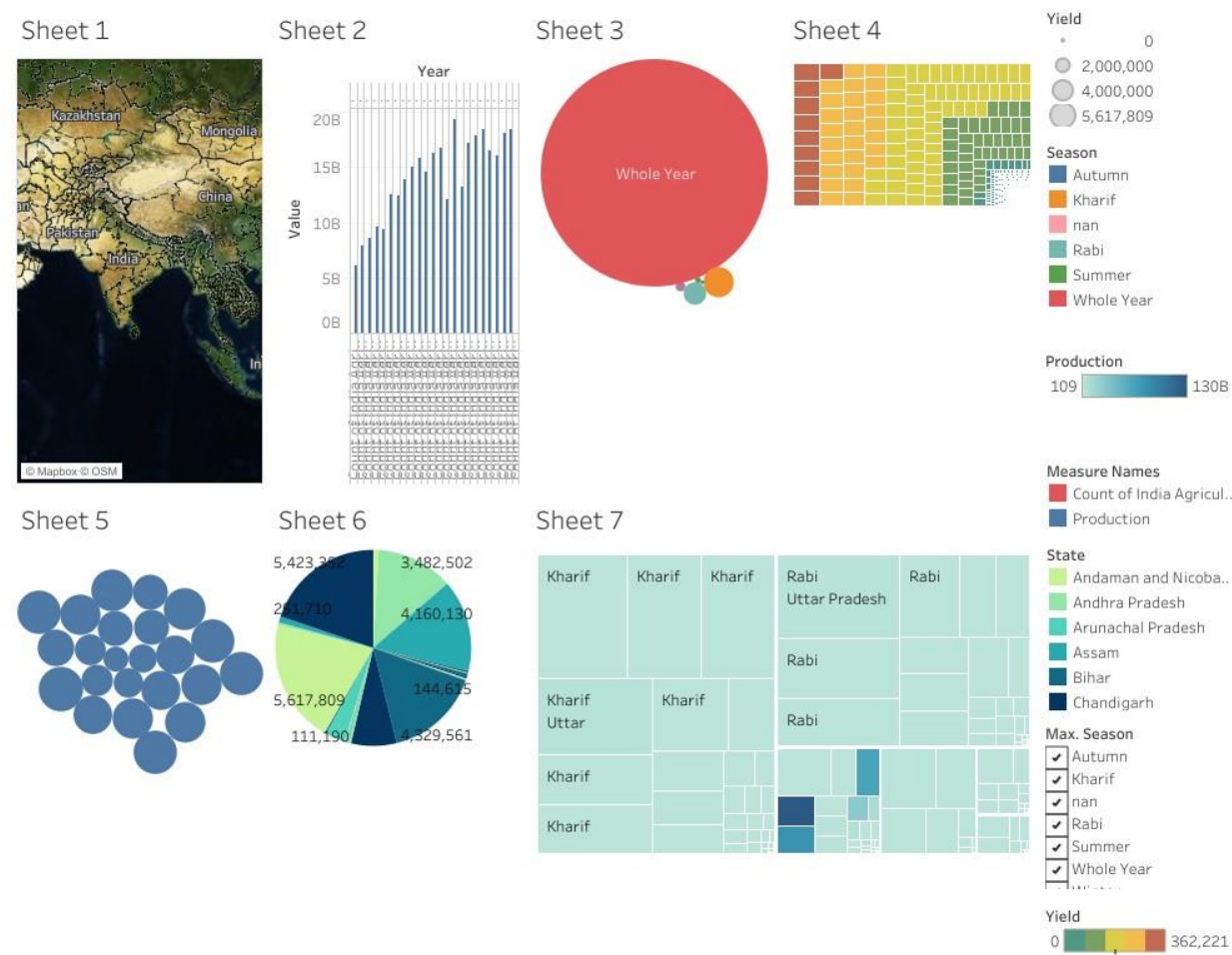- Uttarakhand
- West Bengal

Area,Production,Season and State

Sheet 7
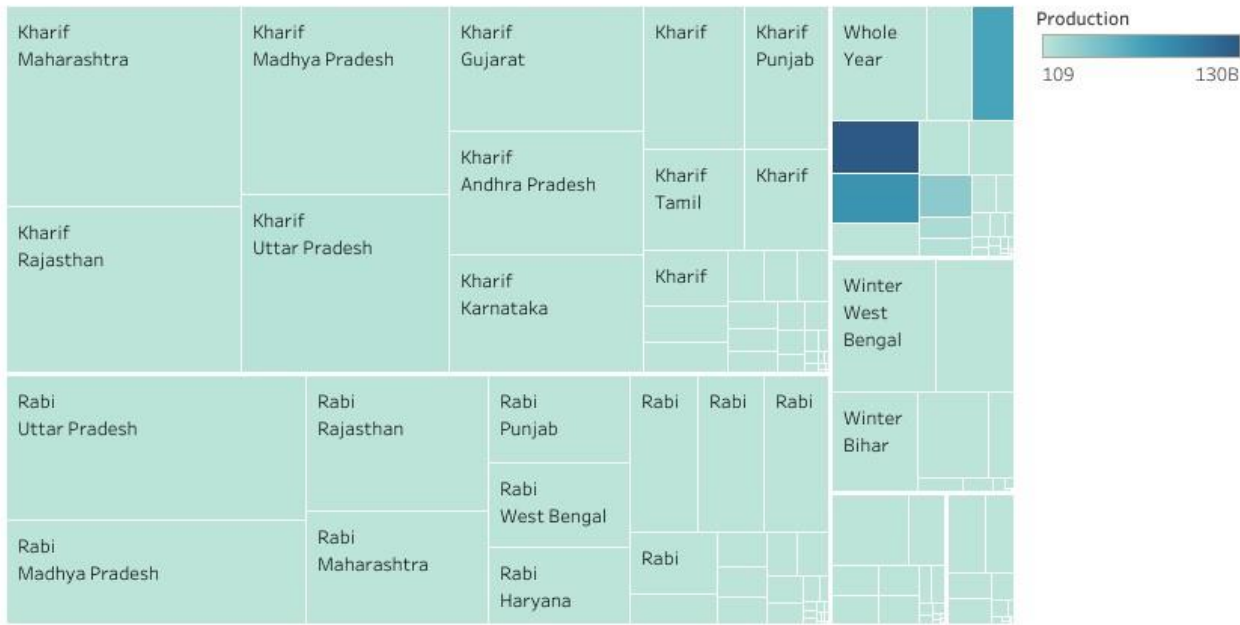
DASHBOARD

INDIA'S AGRICULTURAL CROP PRODUCTION ANALYSIS
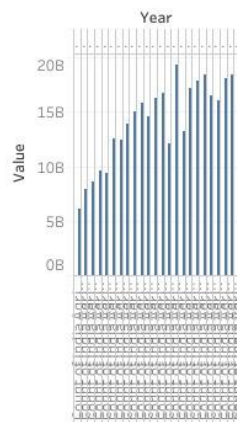
(1997-2021)

Dashboard

STORY

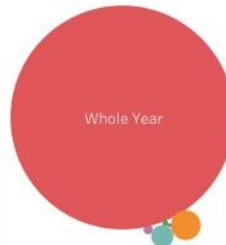**INDIA'S AGRICULTURAL CROP PRODUCTION ANALYSIS**
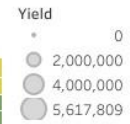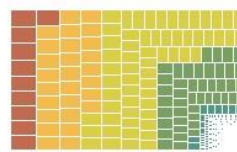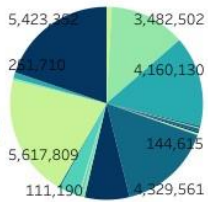
(1997-2021)

Story

Sheet 1

Sheet 2

Sheet 3

Sheet 4

Sheet 5

Sheet 6

Sheet 7

Yield
- 0
- 2,000,000
- 4,000,000
- 5,617,809

Season
- Autumn
- Kharif
- nan
- Rabi
- Summer
- Whole Year

Production
109 — 130B

Measure Names
- Count of India Agricul..
- Production

State
- Andaman and Nicoba..
- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Bihar
- Chandigarh

Max. Season
- ✔ Autumn
- ✔ Kharif
- ✔ nan
- ✔ Rabi
- ✔ Summer
- ✔ Whole Year

Yield
0 — 362,221