

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

# 1. INTRODUCTION

## ◎ 1.1 OVERVIEW

Agriculture is a key to development in the area of human civilization. According to The World Bank, India is a global agricultural powerhouse. India is currently the world's second largest producer of several dry fruits, agriculture-based textile raw materials, roots and tuber crops, pulses, farmed fish, eggs, coconut, sugarcane and numerous vegetables.

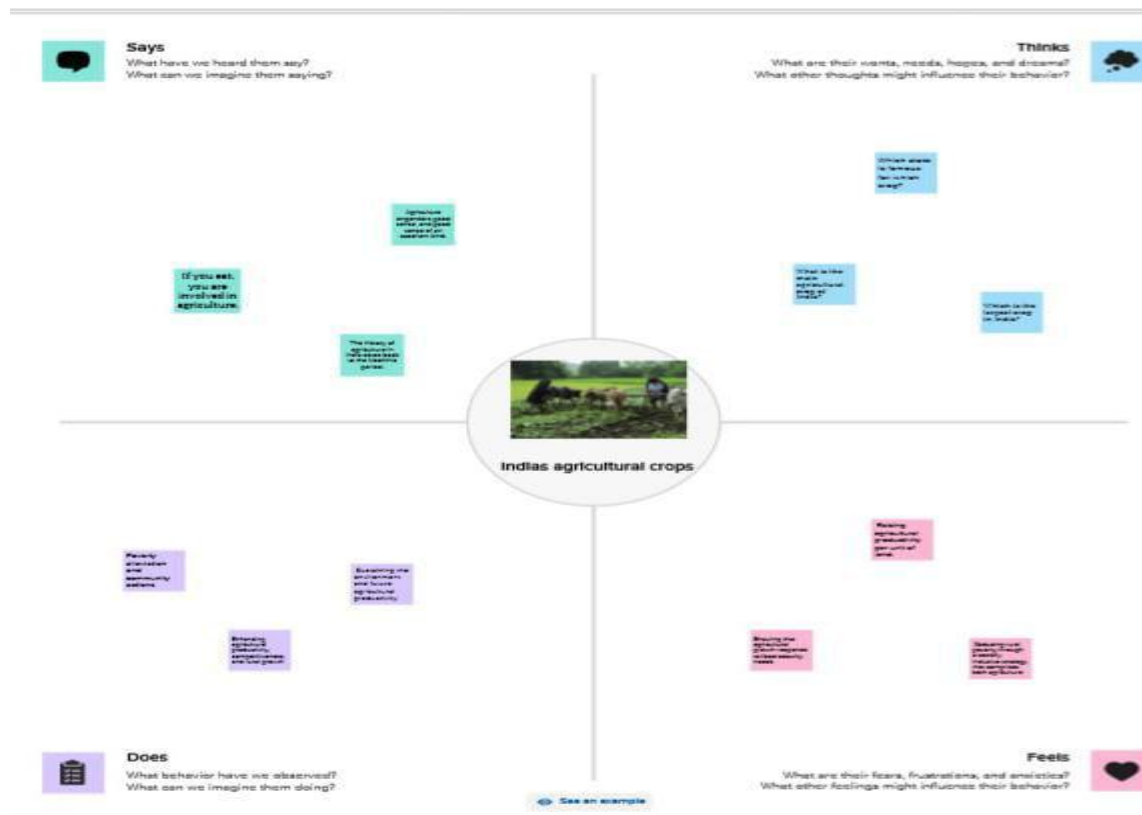
## ◎ 1.2 PURPOSE

### Use of this Project

Agriculture impacts society in many ways, including: supporting livelihoods through food, habitat, and jobs; providing raw materials for food and other products; and building strong economies through trade.

## 2. PROBLEM DEFINITION AND DESIGN THINKING

What are the problems you have faced with agriculture and how to improve it ?



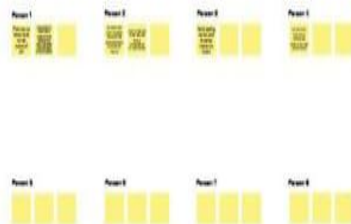
④

### Brainstorm

Write down any ideas that come to mind that address your problem statement.

 Springer

**TIP**  
We sometimes study new  
and rising great books in  
class just to see what's



①

### Group Ideas

Take turns sharing your ideas with a cluster or small group as you go. Once all story notes have been grouped, give each cluster a sentence-line label. If a cluster is bigger than six story notes, try and see if you can break it up into smaller subgroups.

 Springer

1988



**Prioritise**

Your team should all be on the same page about what's important moving forward. Place your ideas on the grid to determine which ideas are important and which are feasible.

**00 minutes**

Swampers can use their bodies to gain a whole extra inch or so of free space. The ballroom is within the space, using the knee joint to hold it steady as the leg moves.



1

### After you collaborate

You can export the movie as an image or gif to share with members of your company who might find it useful.

think and one

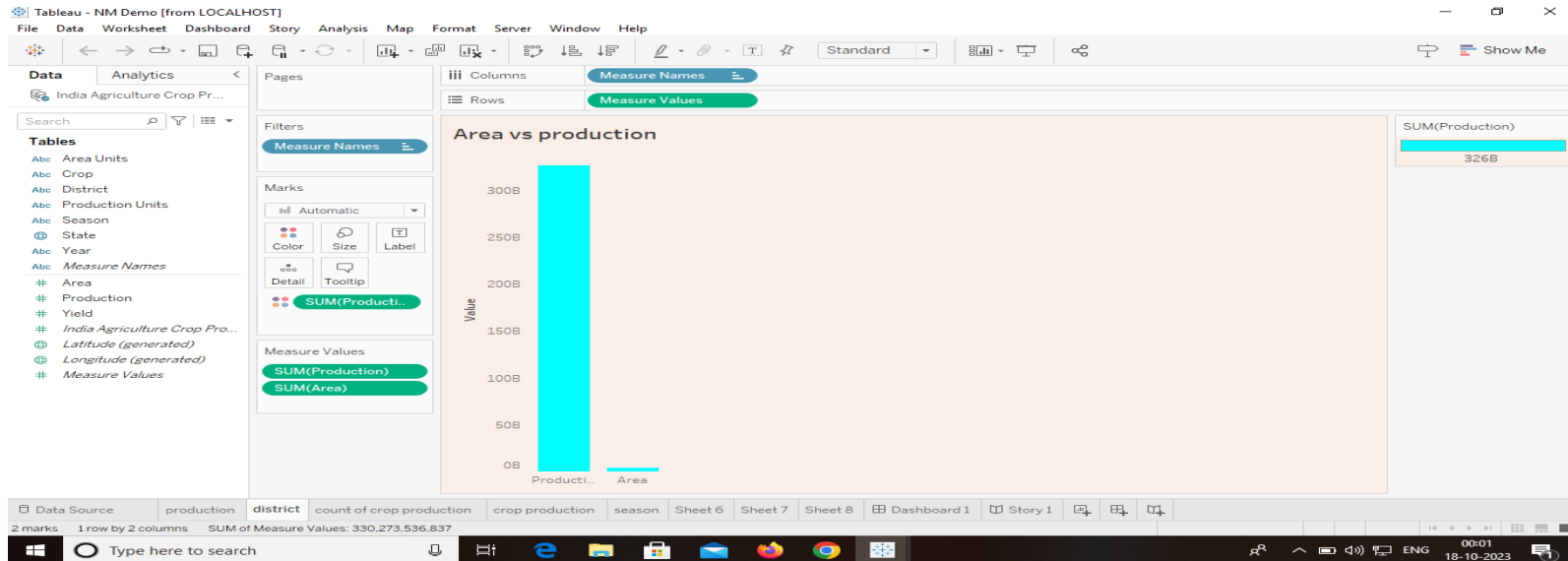
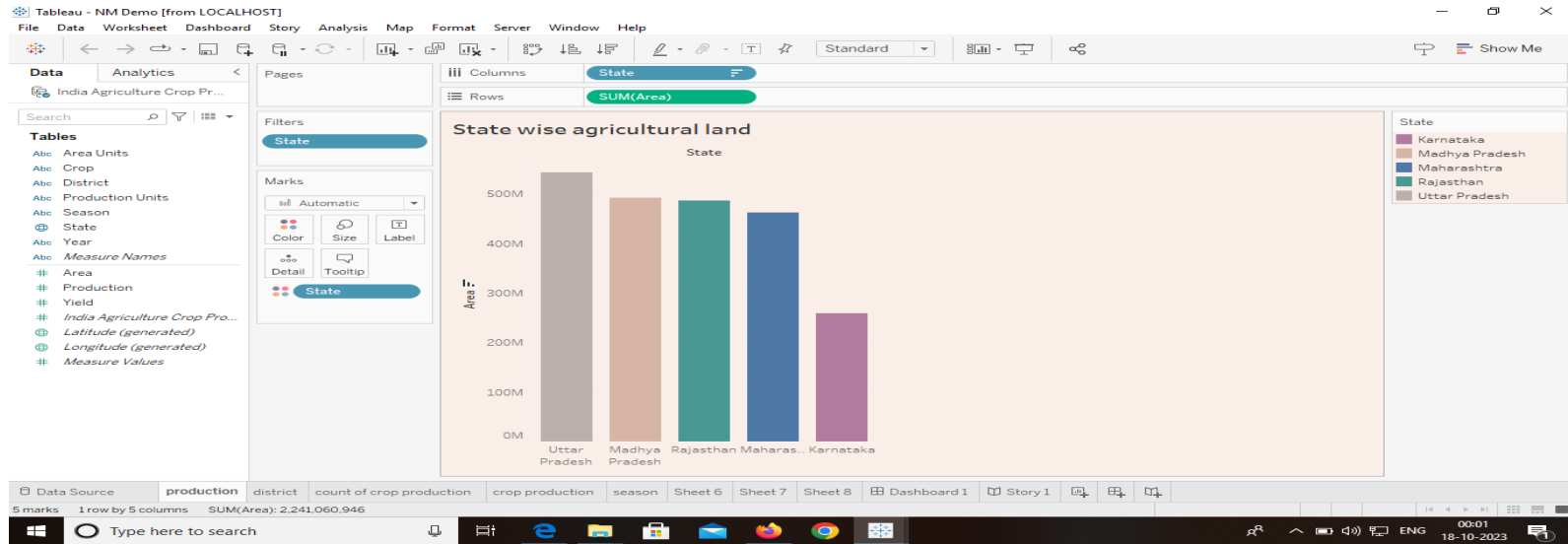
- Share the music**  
Share a playlist in the music or download it to keep that in the bag about the business of the season.
- Repeat the music**  
Repeat a song of the music as a PRIDE song to share in spirit, include it in a bag, or send it your drive.

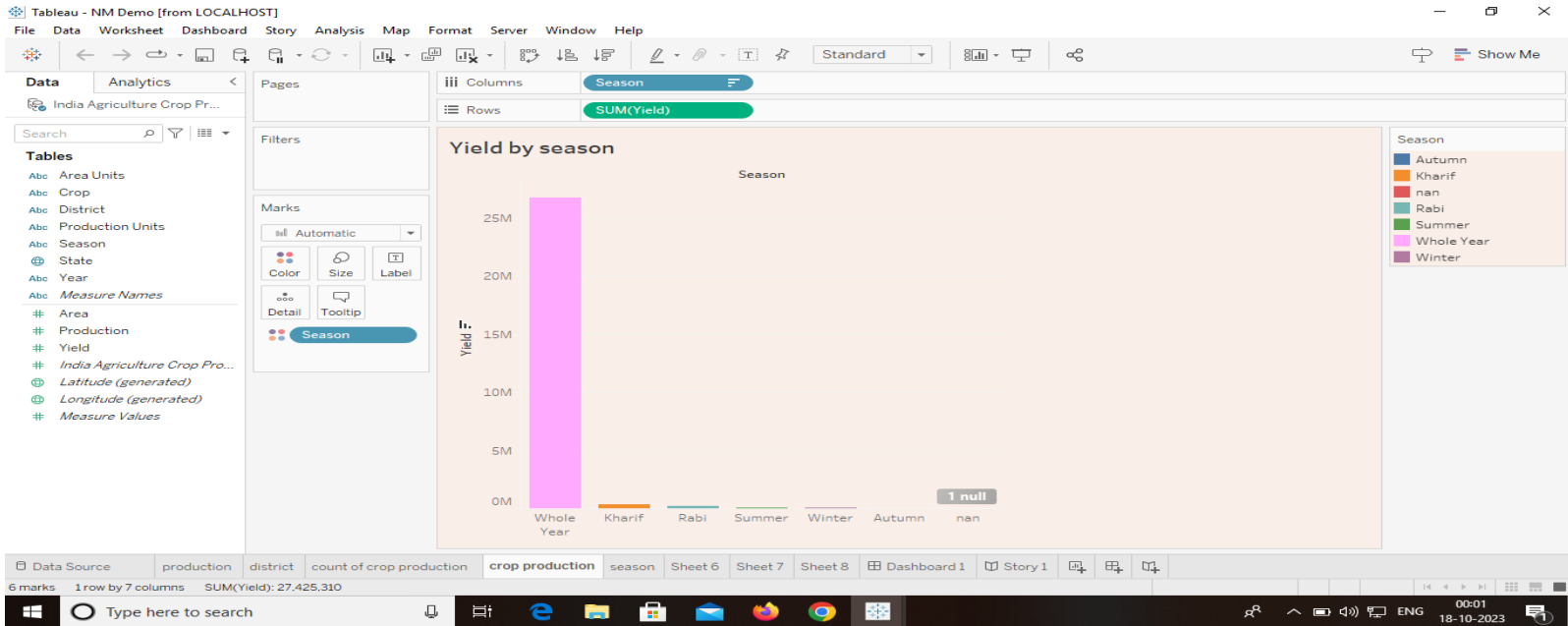
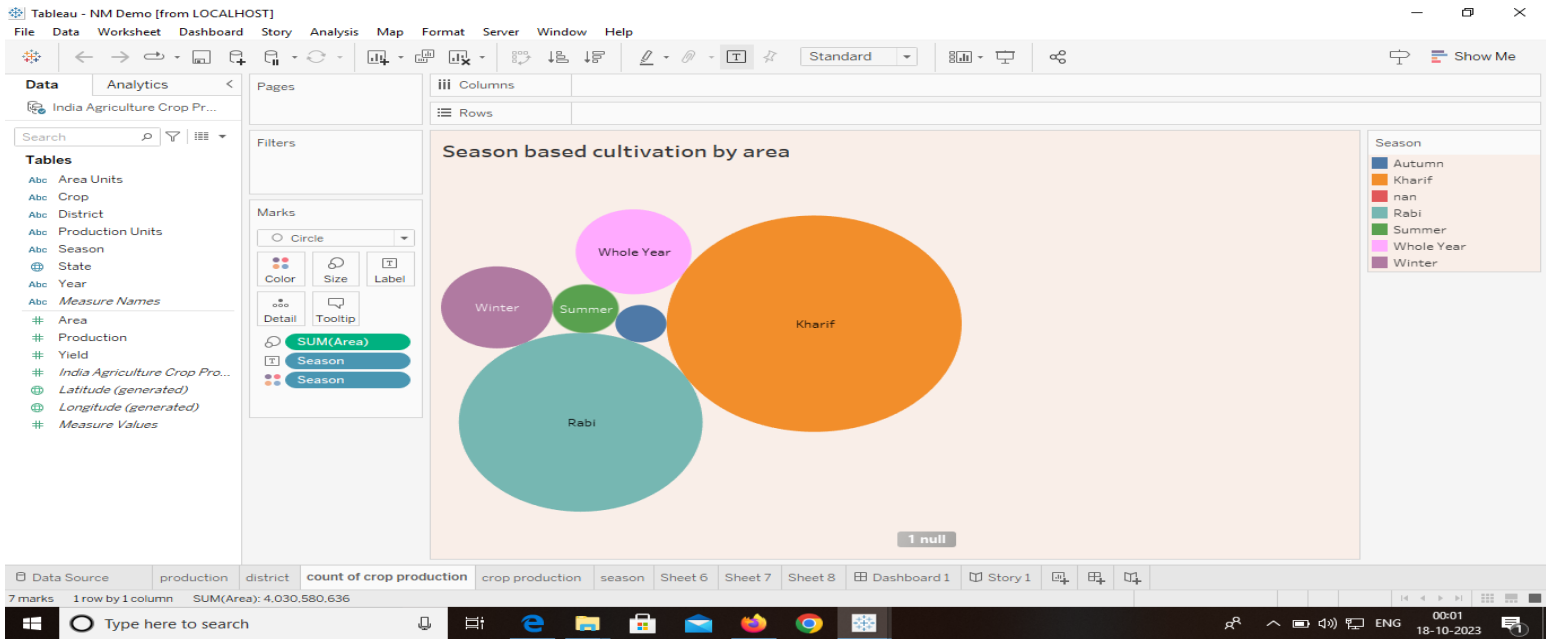
Keep moving forward

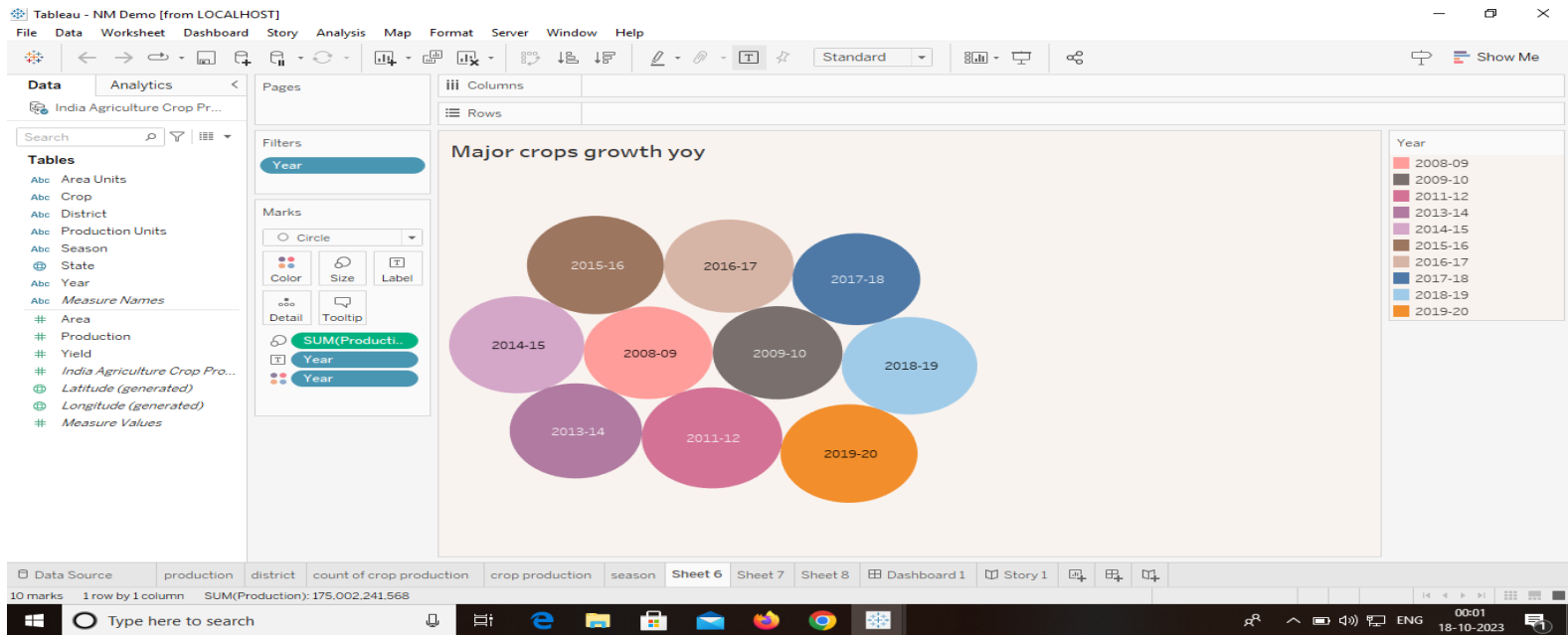
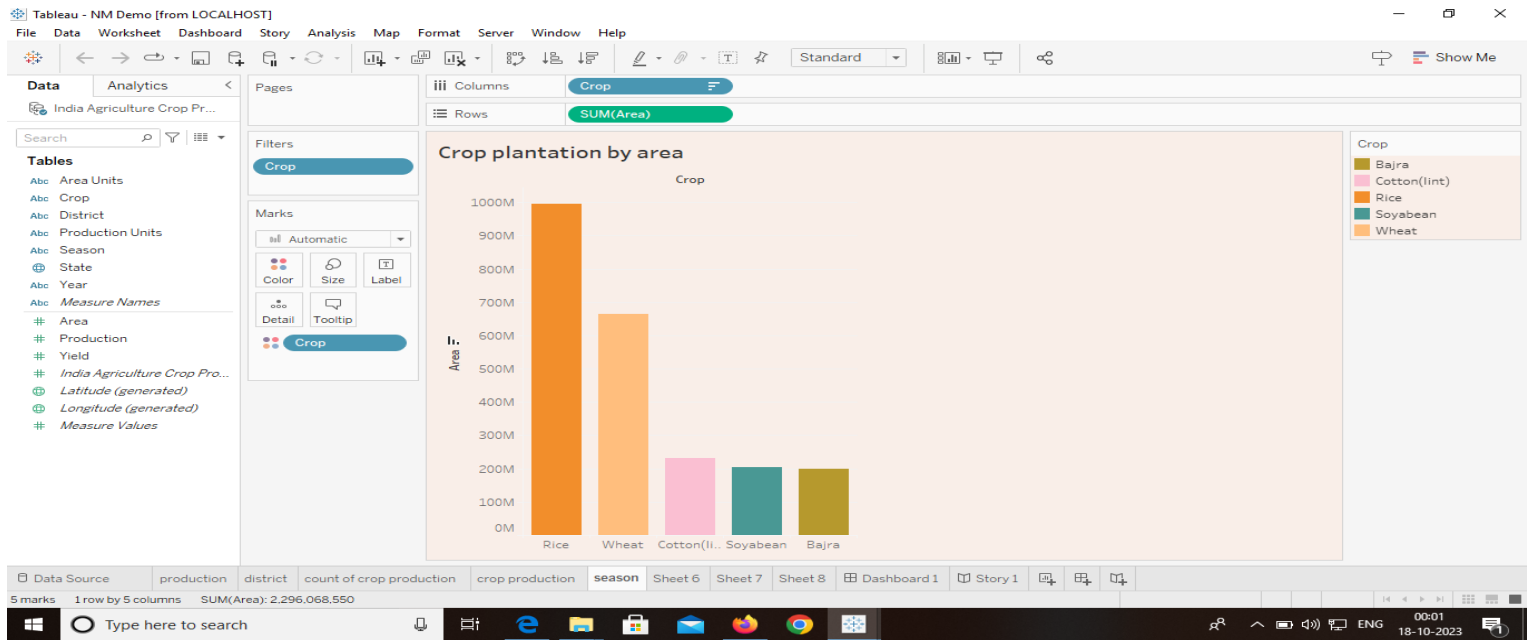
- Energy demand**  
Form the components of a new idea or strategy  
Open the template: 1
- Customer experience journey map**  
Understand customer needs, motivations, and attitudes for an organization  
Open the template: 2
- Simple customer experience flow**  
Identify strategic customer experiences, and use a flowchart to describe a path  
Open the template: 3

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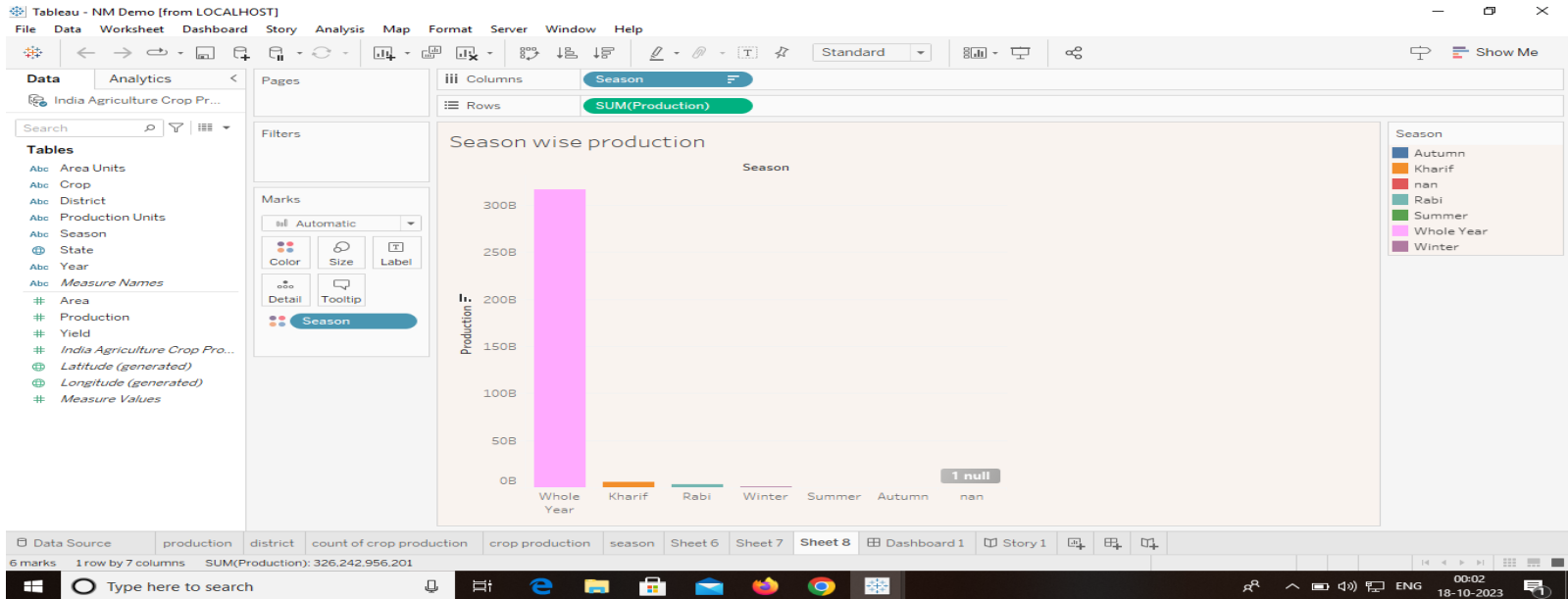
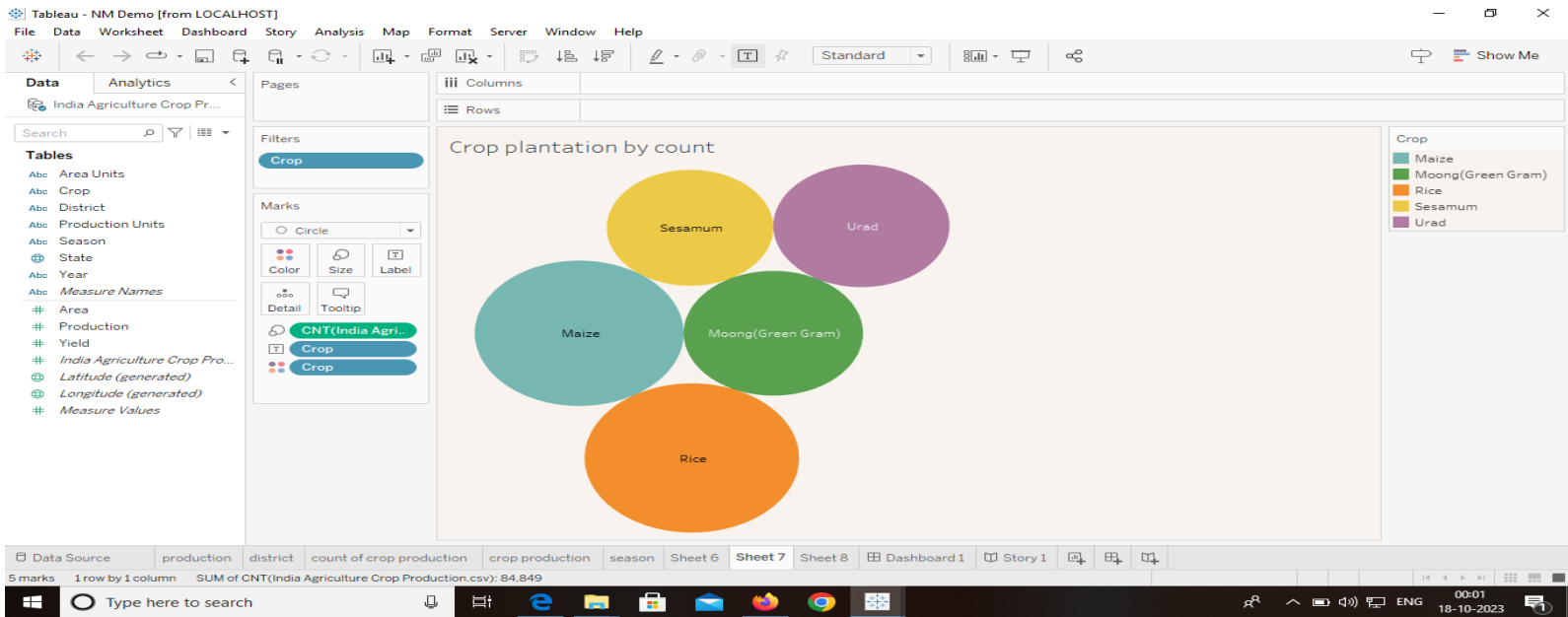
# 3. RESULT











## 4. ADVANTAGES AND DISADVANTAGES OF THE AGRICULTURE

### ***Advantages:***

#### ***1. Natural Environment***

Organic farming usually goes down in a natural environment. Unnecessary enclosures are not used for the crops or plants. This way the productivity is increased and is way better compared to closed spaces. An open and natural area for growing the crops would give them wild and instinctive growing nature. This is ideal for the crops and is one of the factors that leads to the plants being organic.

#### ***2. No Chemicals***

Unlike other forms of farming, organic farming does not involve any artificial sources like chemicals to drive away pests or to speed up the process of farming. These chemicals are often used in commercial and industrial farming methods. However, organic farming stays true to its title. Its method is true to its natural core and does not use anything that may be of harm to its consumers. Any type of chemical is not entertained in the organic farming industry.

### **3. *Eye On You***

Unlike any other procedure, organic farming has a very strict supervision schedule. The reason for this extreme regulation is because of the importance to keep the label organic. It is very difficult to do so as most brands use artificial aspects in their farming. There are various methods of organic farming and its standards must be maintained in order to remain organic. This ensures that customers buying the end product receive what they're truly looking for.

### **4. *Environmentally Friendly***

Among the advantages of organic farming, this one stands out the most. Today, almost the entire sector of industrial farming consists of chemicals that ruin the environment. However, when you have something like organic farming to replace it, a huge benefit is received. Organic farming does not use any form of chemical nor does any form of pollution happen because of it. This makes it way better than regular farming. The whole world suffers because of the ignorant methods of regular farming including animals. Organic farming is definitely the way to go.

## **Disadvantages:**

### **1. Expensive Products**

*One of the major problems of organic farming methods is that sometimes it can get a bit costly. Some products related to organic farming are too expensive, leading to some common people to not be able to afford it. In a country like India where most of its livelihood are farmers, organic farming brings a huge problem to it. However, organic farming in Tamil Nadu have had some success stories.*

### **2. More Labor**

*Organic farming is a sector that requires a lot of patience. This is because pests and others obstacles must be tackled manually. Unlike in non-organic farming, the use of pesticides and other chemicals are not permitted. This makes the work of the farmer harder as constant attention and care is needed. Due to the constant attention, a lot of time is consumed. Organic farming has to be executed well which needs a lot of time and not to forget weed-prevention.*

### ***3. High MRP***

It is almost obvious that due to the extreme care taken to go along with organic farming, the results would be kept at a high price. Once sold to the market, most of the place is devoted to the sale of these organic fruits and vegetables. Most people do that approve of organic products because of this. The items sold in the market are half the price of non-organic products. So, we can say that organic items are expensive and not every consumer is willing to pay the price for it.

### ***4. Cross Breeding Problem***

The seeds of GMO plants once planted, create GMO crops. These crops then produce seeds and the pattern continues. This makes it very difficult to tell from the organic and GMO crops. This has become a huge problem in the organic farming sector. This could ruin the future of organic planting as a whole.

## 5. APPLICATIONS

Many believe that the benefits of precision agriculture can only be realized on large farms with huge capital investments and experience with information technologies. Such is not the case. There are inexpensive and easy-to-use methods and techniques that can be developed for use by all farmers.

## 6. CONCLUSION

India's agricultural sector is still very important to the Indian economy, although its share of the economy has decreased over time. Agriculture impacts society in many ways, including: supporting livelihoods through food, habitat, and jobs; providing raw materials for food and other products; and building strong economies through trade.



## Dashboard

Layout

Device Preview

Device type

Default

Default

Phone

Device Preview

## Size

Automatic

## Sheets

- production
- district
- count of crop ...
- crop production
- season
- Sheet 6
- Sheet 7
- Sheet 8
- Dashboard 1
- Story 1

## Objects

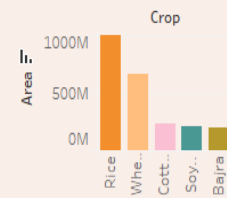
- Horizontal Container
- Vertical Container
- Text
- Extension
- Ask Data
- Data Story
- Image
- Blank
- Workflow
- Web Page

## DASH BOARD

Season based cultivation by area



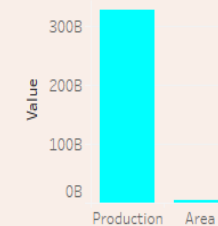
Crop plantation by area



Major crops growth yoy



Area vs production



## State

- Karnataka
- Madhya Pradesh
- Maharashtra
- Rajasthan
- Uttar Pradesh

## Production

326B

## Season

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

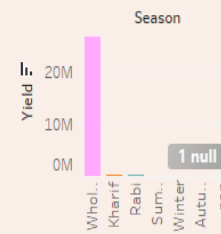
## Crop

- Bajra
- Cotton(lint)
- Rice
- Soyabean
- Wheat

## Year

- 2008-09
- 2009-10
- 2011-12
- 2013-14
- 2014-15
- 2015-16

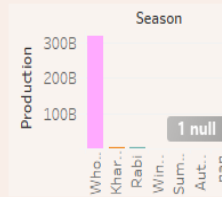
Yield by season



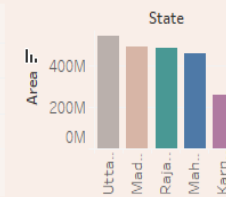
Crop plantation by count



Season wise production



State wise agricultural land



Data Source

production

district

count of crop production

crop production

season

Sheet 6

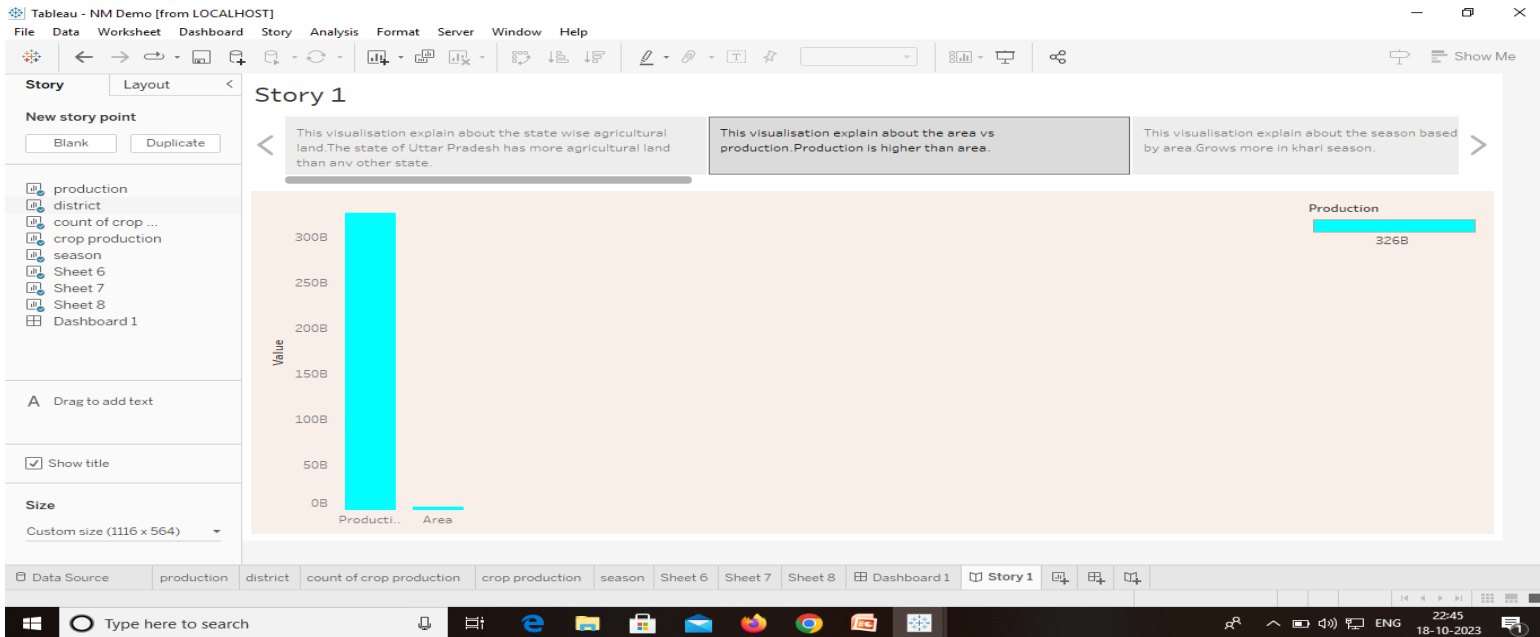
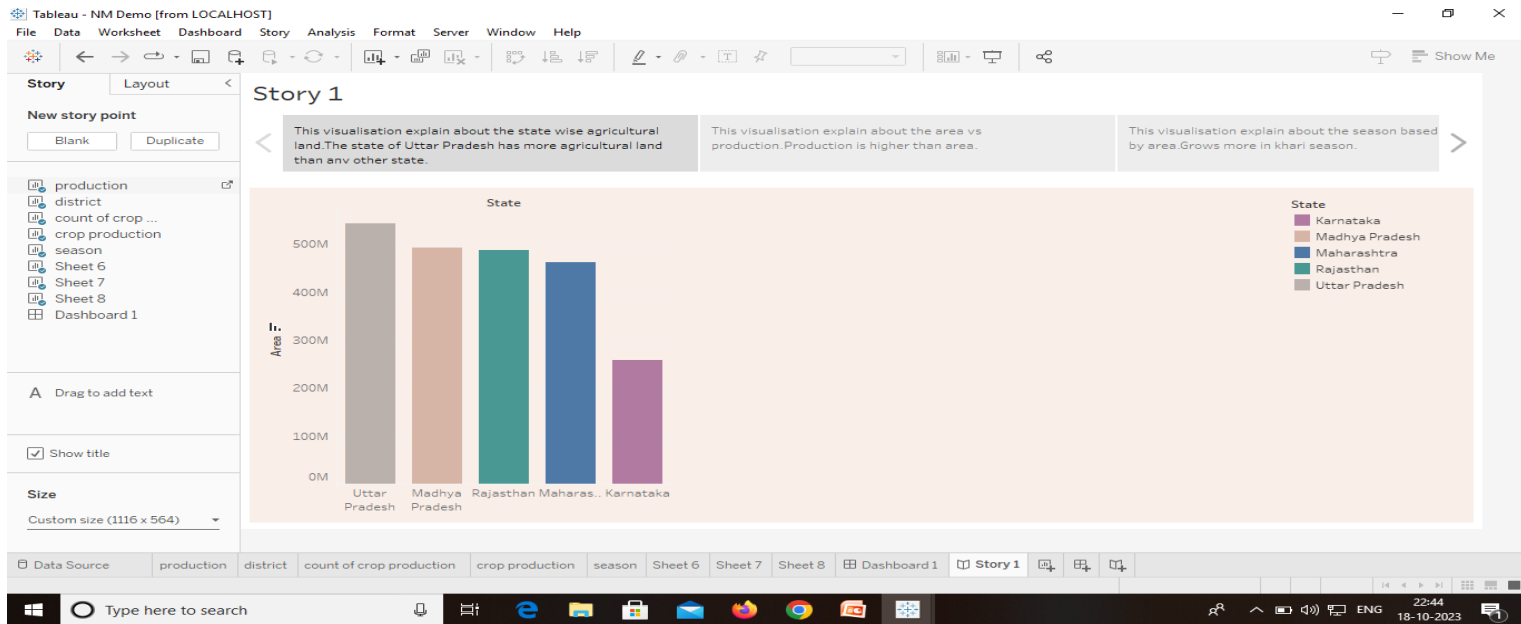
Sheet 7

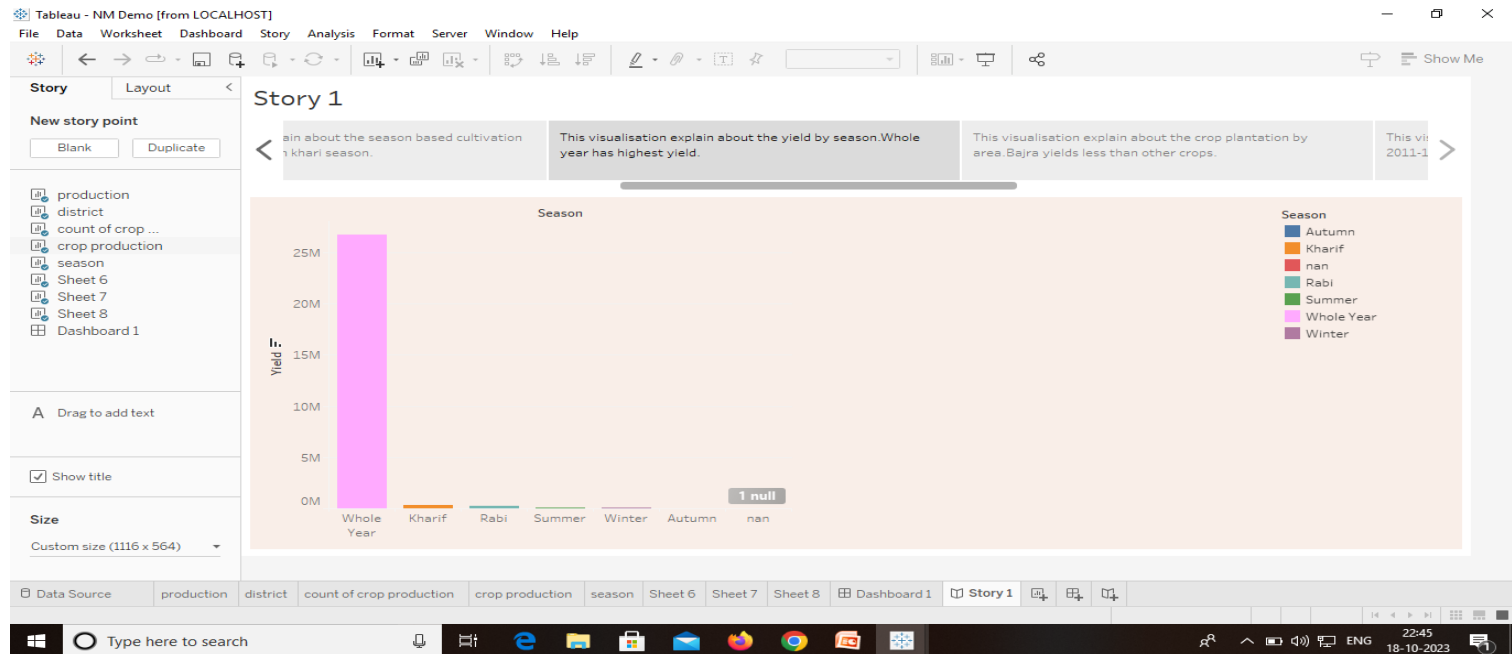
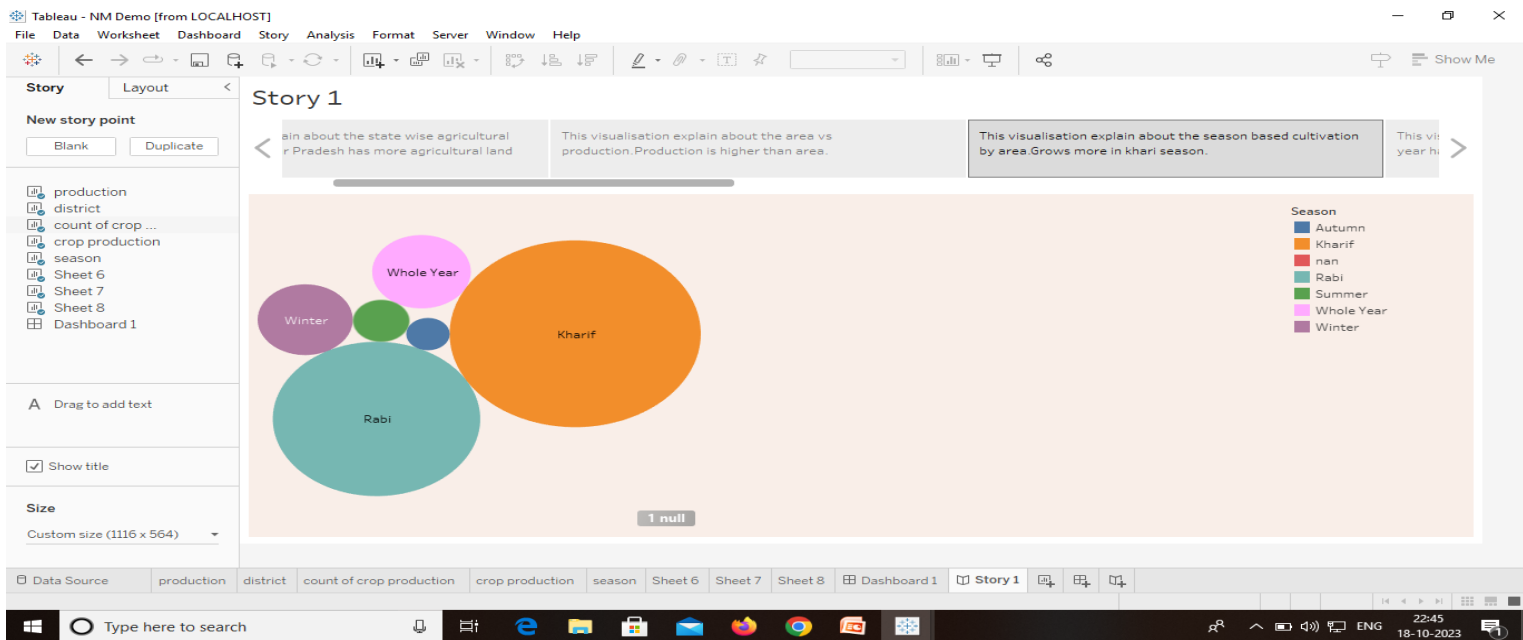
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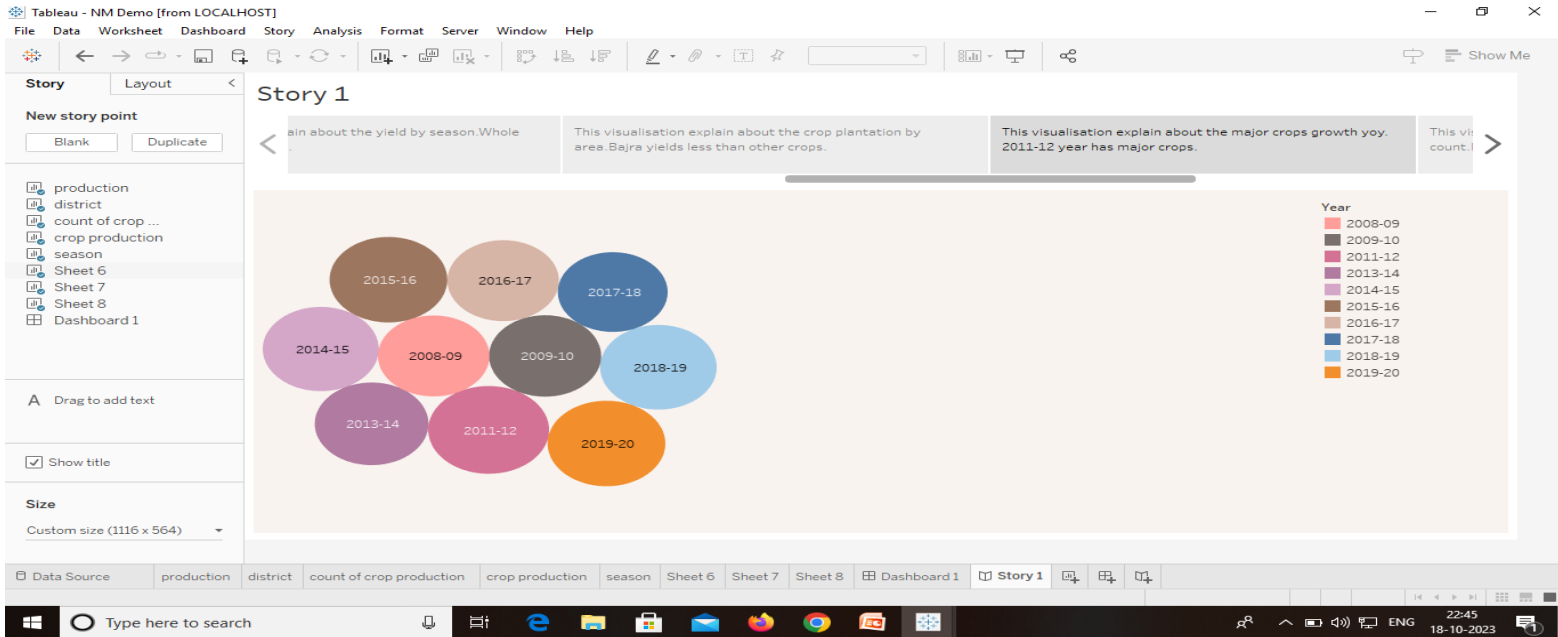
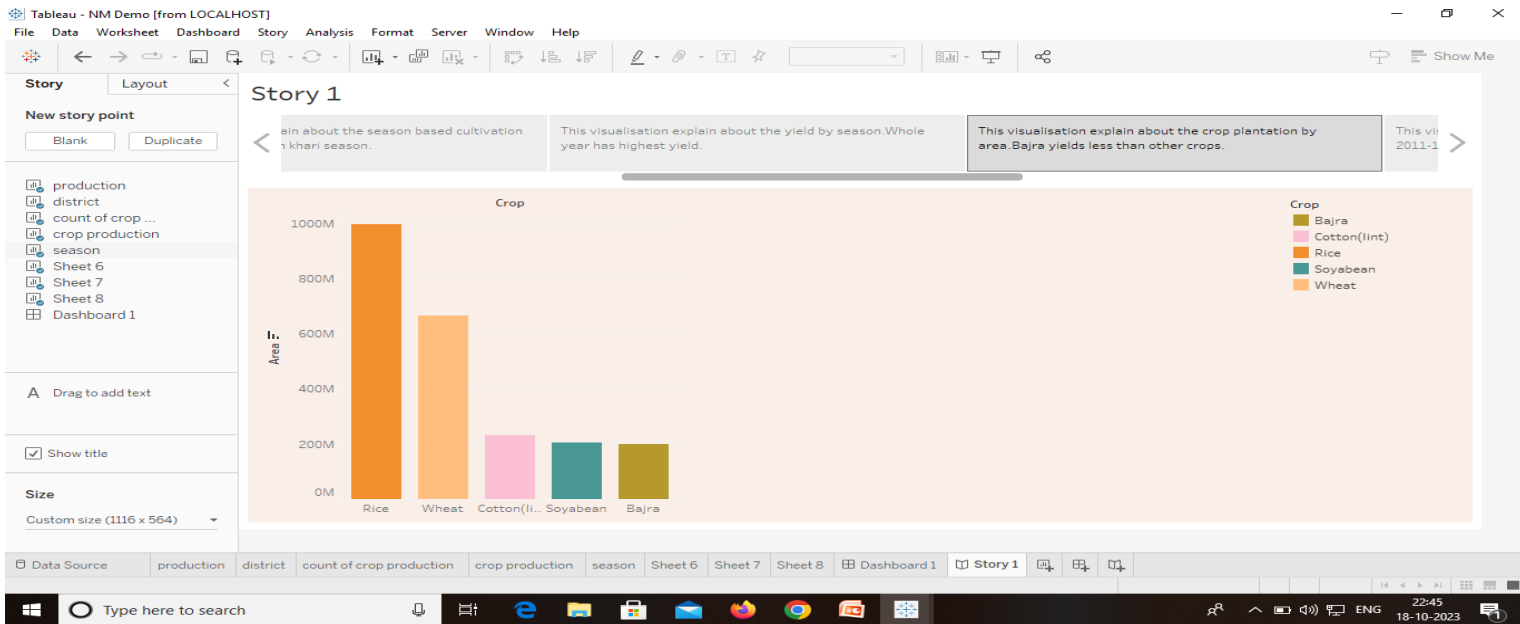
Dashboard 1

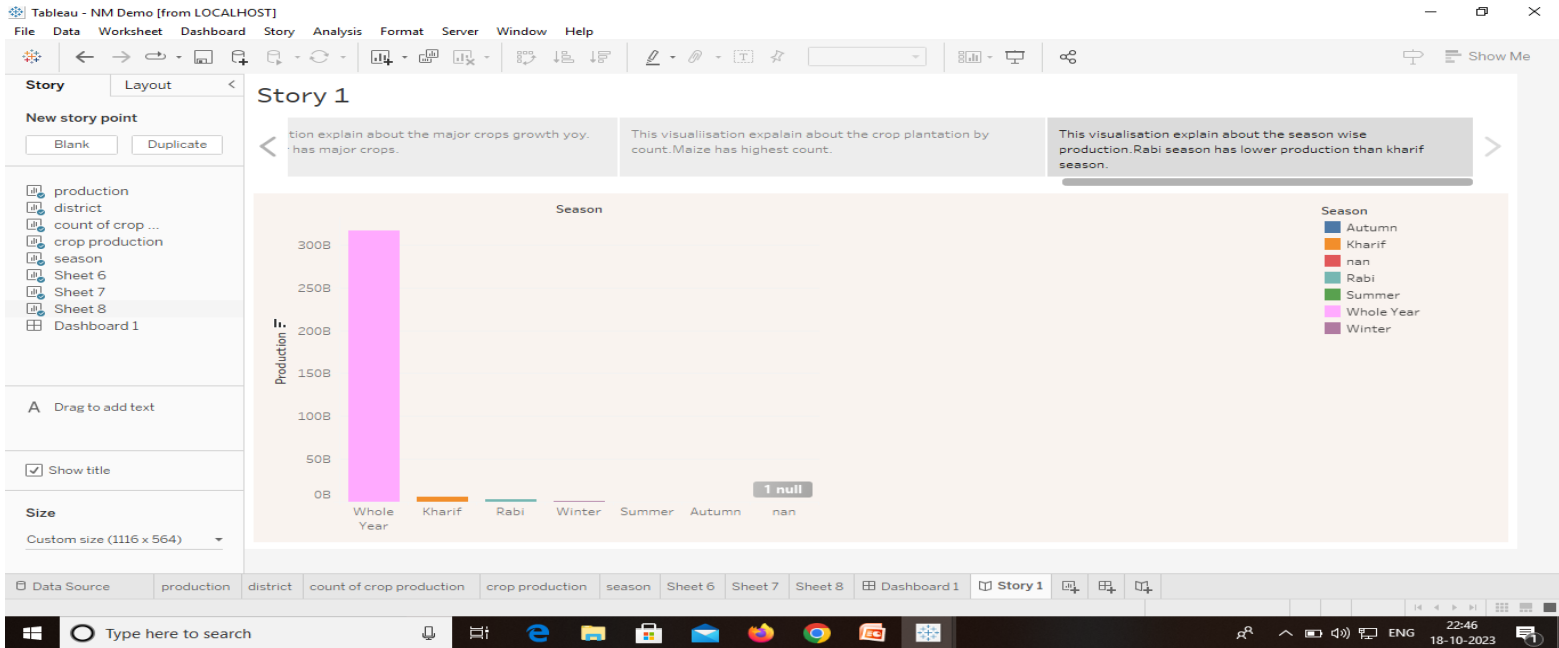
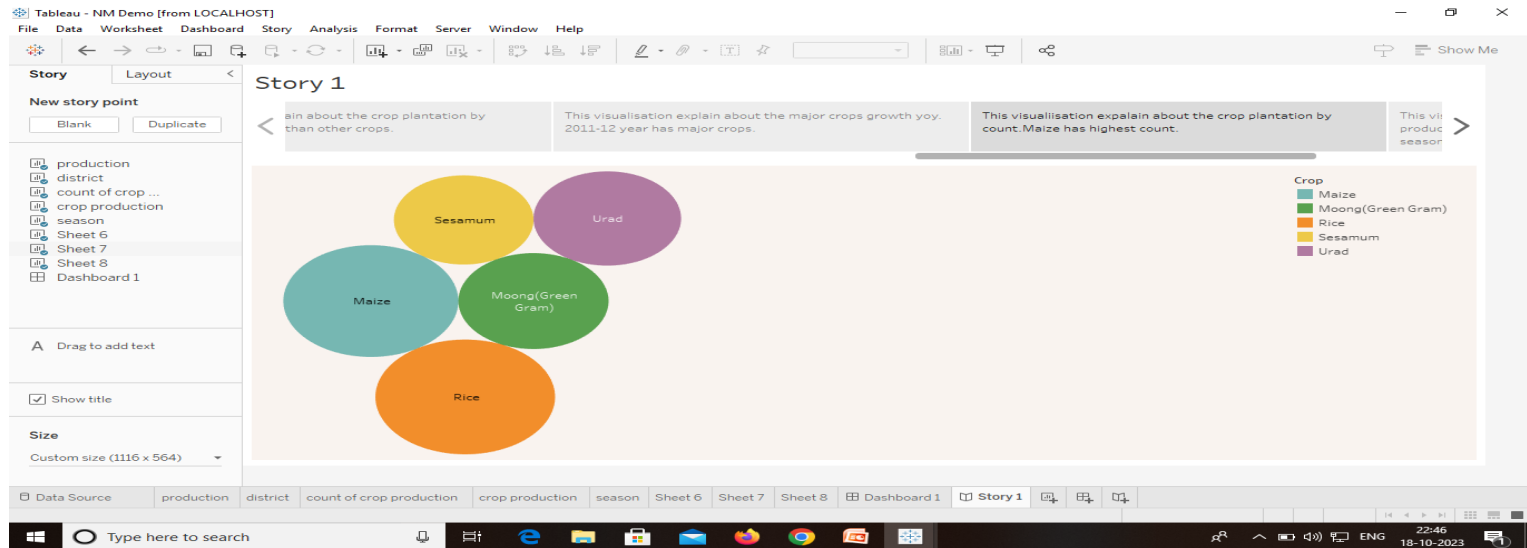
Story 1











## 7. FUTURE SCOPE

Agriculture is good for the future as it is expected to use advanced technologies and innovations to produce more food with limited land and resources, increase efficiency on farms, and become more profitable, efficient, safe, and environment friendly.29-Apr-2023

Due to globalisation, increase in household incomes and health consciousness the demand for fruits and vegetables, dairy products, fish and meat is going to increase in future. Research, technology improvements, protected cultivation of high-value greens and other vegetables will be more.04-Apr-2022