



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

SUBMITTED BY

DHANALAKSHMI S	36821U25007
BAVADHARANI K	36821U25003
SNEKHA M	36821U25031
SANGEETHA M	36821U25028

Under the Guidance of

Dr. S. RAJAVEL, M.Sc., M.Phil., Ph.D., B.Ed.

DEPARTMENT OF MATHEMATICS
GOVERNMENT ARTS AND SCIENCE COLLEGE (Jambukulam) ,
SHOLINGHUR-631102, RANIPET DISTRICT,
TAMIL NADU.

INTRODUCTION :

India's agriculture is composed of many crops, with the foremost food staples being rice and wheat. Indian farmers also grow pulses, potatoes, sugarcane, oilseeds, and such non-food items as cotton, tea, coffee, rubber, and jute. Despite the overwhelming size of the agricultural sector, however, yields per hectare of crops in India are generally low compared to international standards. Improper water management is another problem affecting India's agriculture. At a time of increasing water shortages and environmental crises, for example, the rice crop in India is allocated disproportionately high amounts of water. It is estimated that as much as one-fifth of the total agricultural output is lost due to inefficiencies in harvesting, transport, and storage of government-subsidized crops.

INDIA'S AGRICULTURAL CROP PRODUCTION



EMPATHY MAP

Empathy Map.pdf

file:///C:/Users/ELCOT/Downloads/Empathy%20Map.pdf

1 of 1

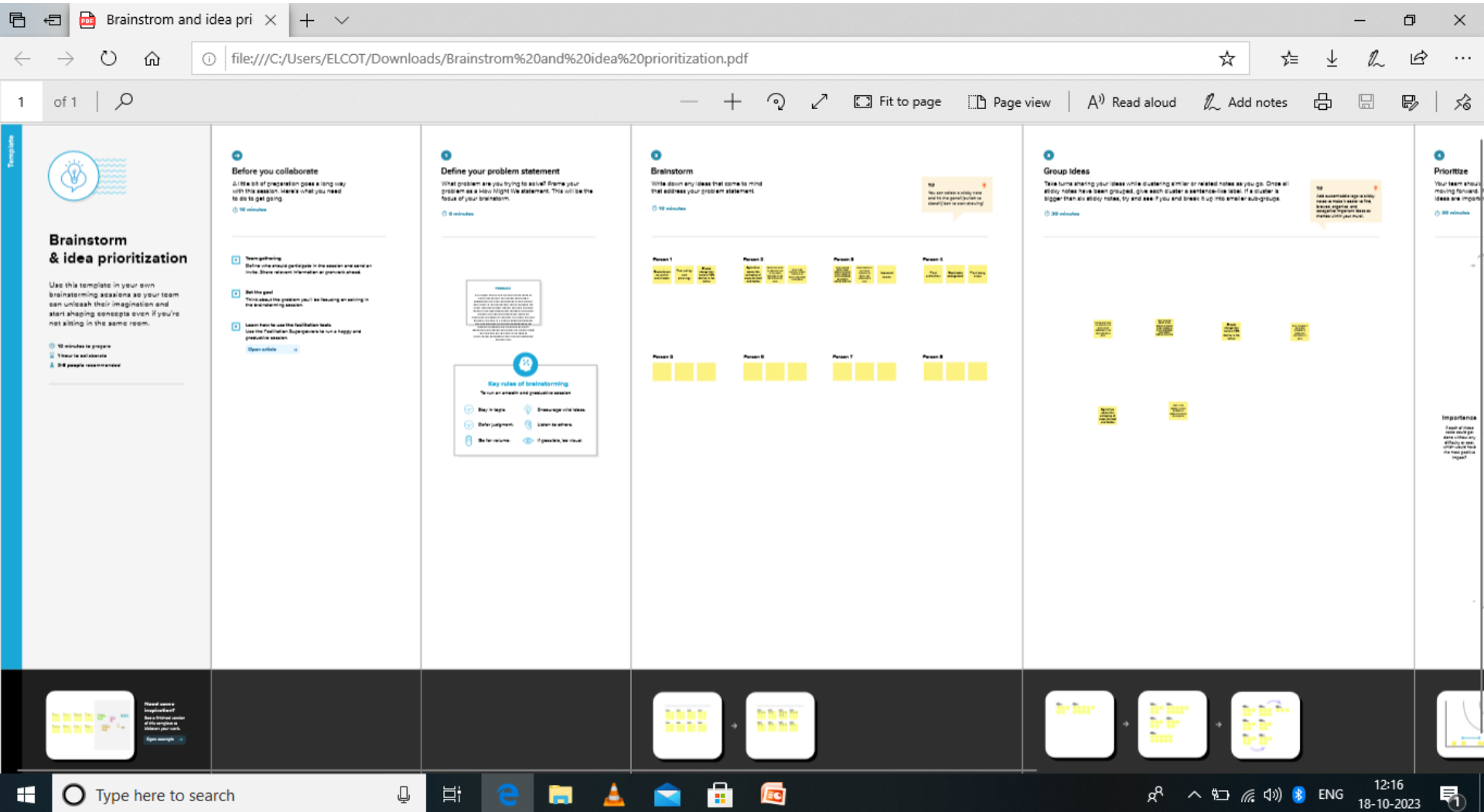
Fit to page Page view Read aloud Add notes

The diagram is an Empathy Map centered on a circle labeled "Persona's name" with a woman's face icon. It is divided into four quadrants by a vertical and a horizontal line, each with a specific icon and title:

- Says** (Speech bubble icon): "What have we heard them say? What can we imagine them saying?"
 - Noting to themselves, their surroundings, and their job security.
 - Thinking out loud, expressing their ideas, and their concerns about the future of the industry.
 - Agreeing with the team and the manager's decisions.
 - I grow plants for many reasons.
 - My heart has always been in farming.
- Thinks** (Thought bubble icon): "What are their wants, needs, hopes, and dreams? What other thoughts might influence their behavior?"
 - Join the next generation of agriculture.
 - Organic ways to grow.
 - Peace, health, environment, and culture.
 - Food and vegetables grown.
- Does** (Clipboard icon): "What behavior have we observed? What assumptions might they hold?"
 - Time at planting.
 - Fertilization at time planting.
 - Time for selection.
 - Harvesting.
 - Quality of water.
- Feels** (Heart icon): "What are their fears, frustrations, and anxieties? What other factors might influence their behavior?"
 - Overcome the quality of the farmland and security as a whole.
 - Security: human, home, and their needs.
 - Reduce the economic capacity of their operations.

Windows taskbar: Type here to search, 12:14, 18-10-2023

BRAINSTORM



DATASET

Tableau - Book1

FileDataServerWindowHelp

Connections

India Agricult...rop Production
Tableau Extract

Table

Extract (Extract.Extract)


New Table Extension

India Agriculture Crop Production Extract

Connection
☒ Live ☐ Extract

Filters
0 | Add

Extract



Need more data?
Drag tables here to relate them. [Learn more](#)


Extract

10 fields 345407 rows

100 → rows

Name
Extract

Fields

Type	Field Name	Physical Table	Rem...
	State	India Agriculture Cr...	State

State	District	Crop	Year
Uttar Pradesh	ALIGARH	Rapeseed & Mustard	2007-0
Uttar Pradesh	ALLAHABAD	Rapeseed & Mustard	2007-0
Uttar Pradesh	AMBEDKAR NAGAR	Rapeseed & Mustard	2007-0
Uttar Pradesh	AMROHA	Rapeseed & Mustard	2007-0
Uttar Pradesh	AURAIYA	Rapeseed & Mustard	2007-0

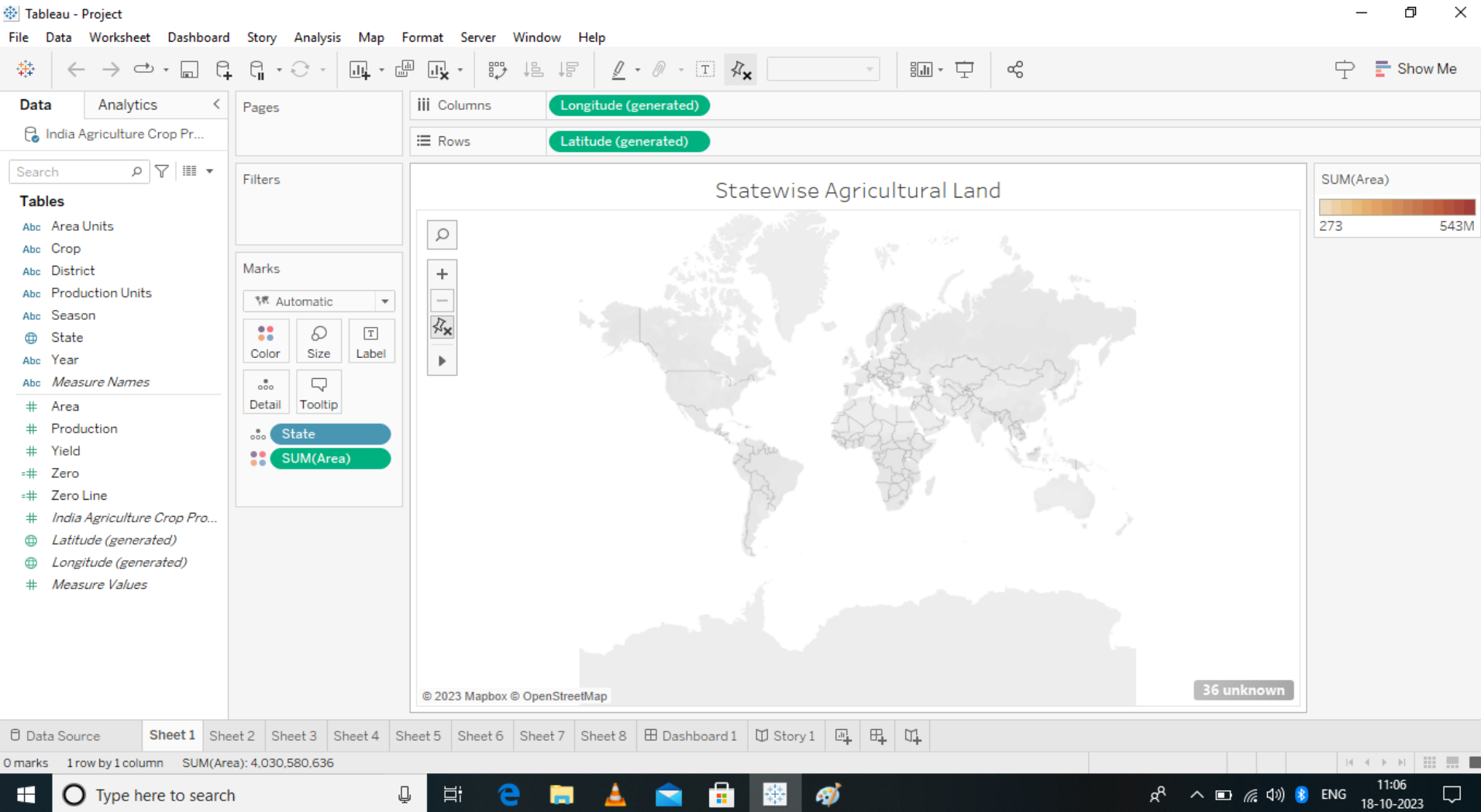
Data Source

Sheet 1

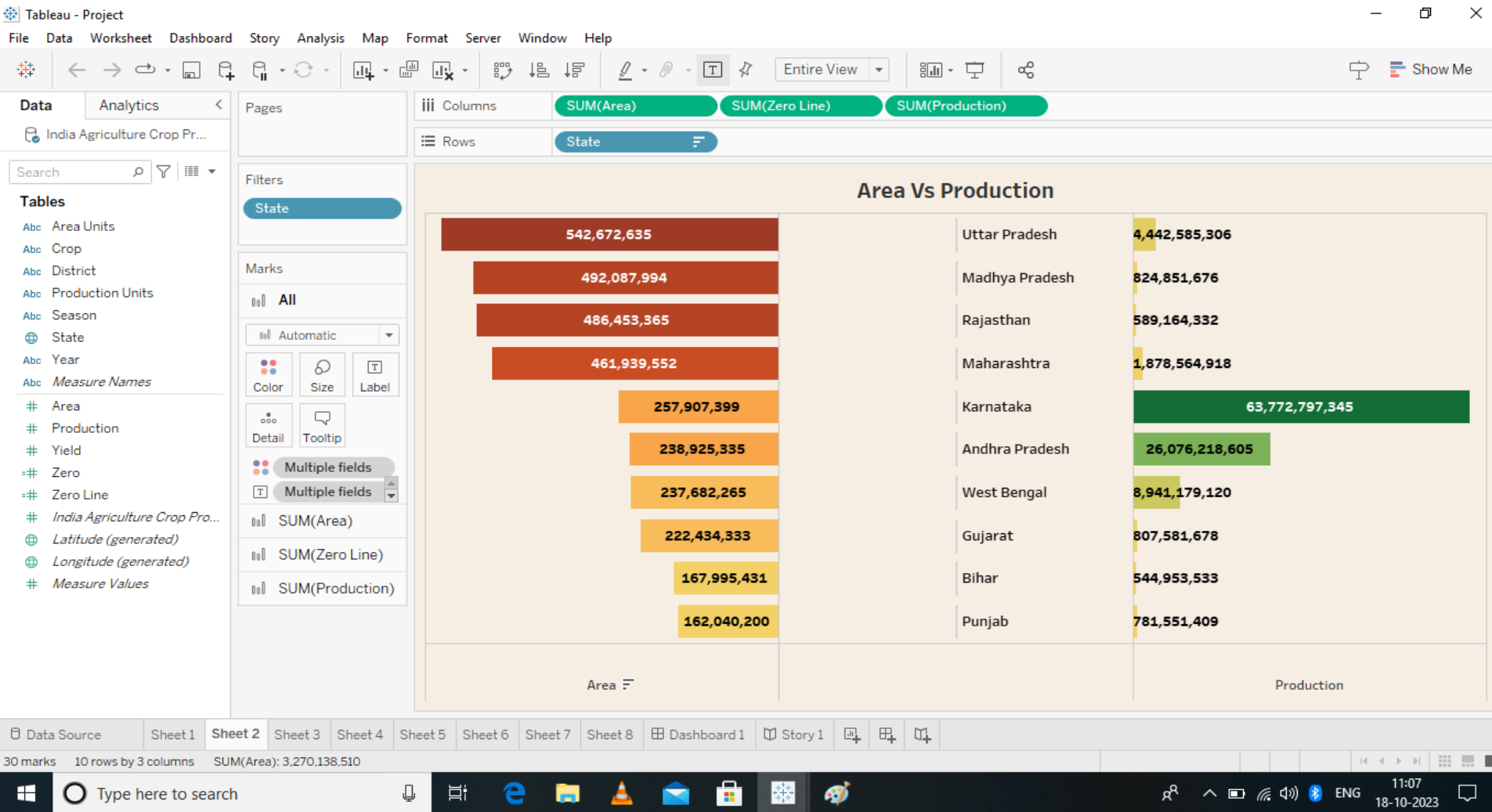
Type here to search

12:42
18-10-2023

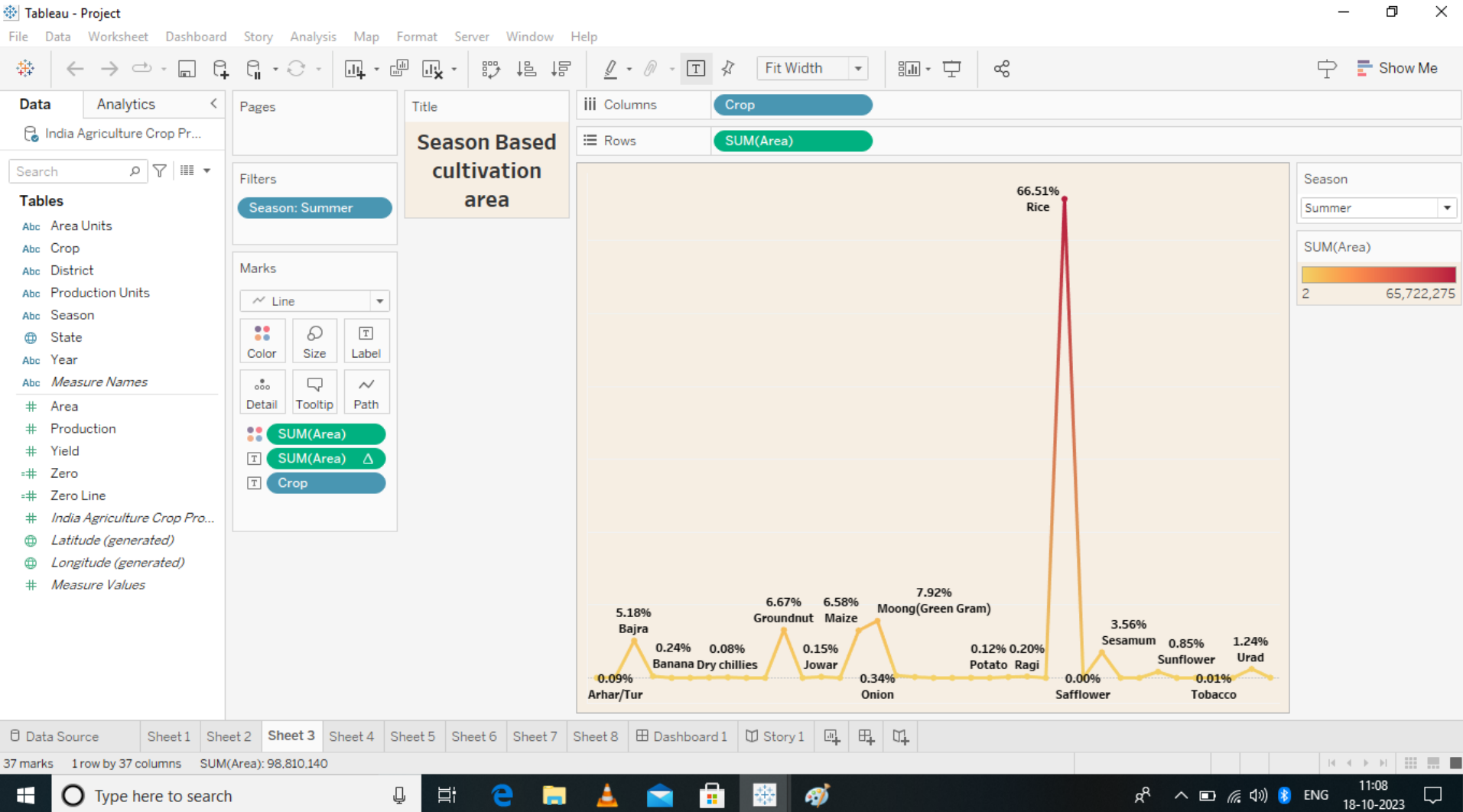
STATEWISE AGRICULTURAL LAND



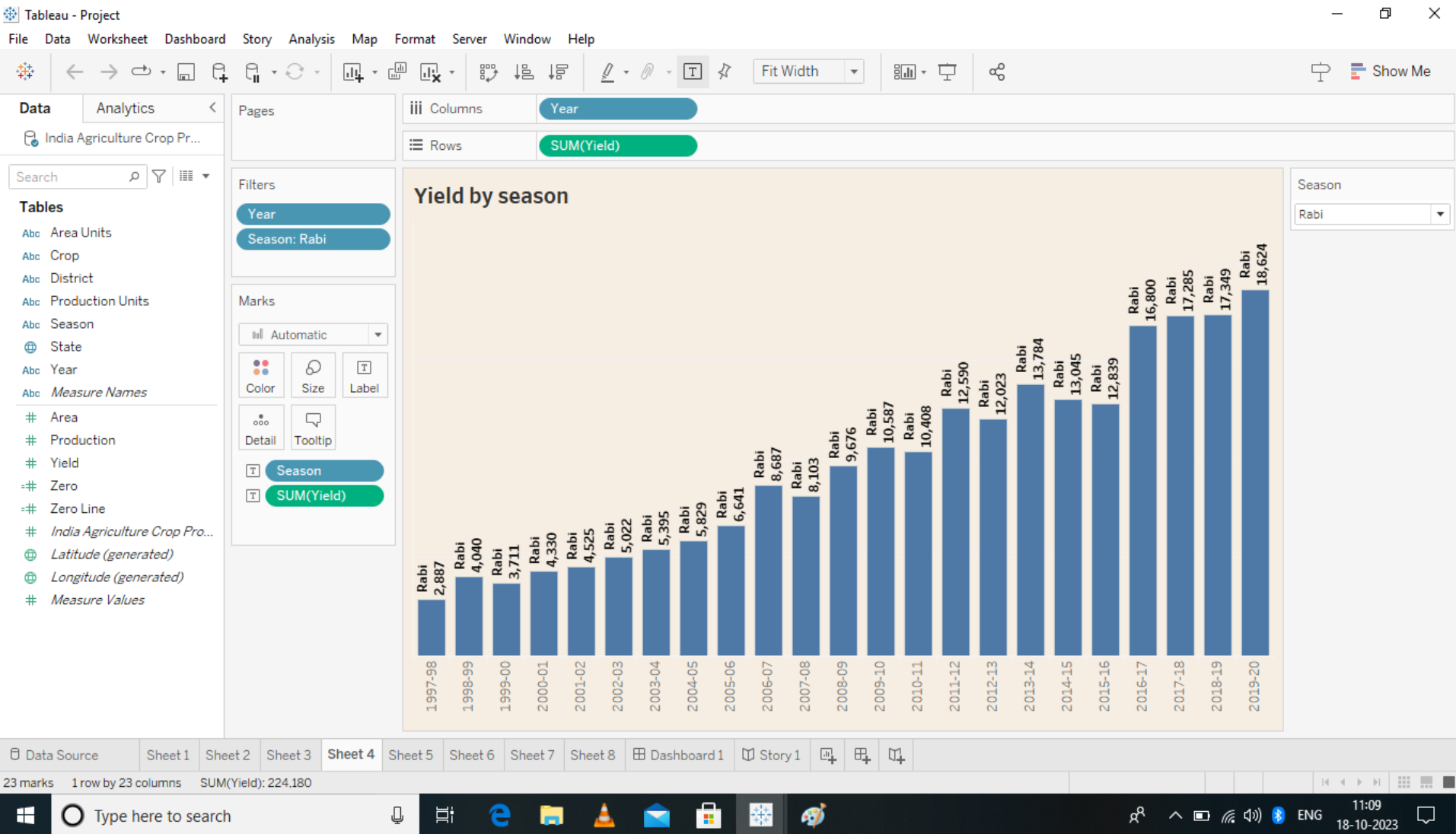
AREA VS PRODUCTION



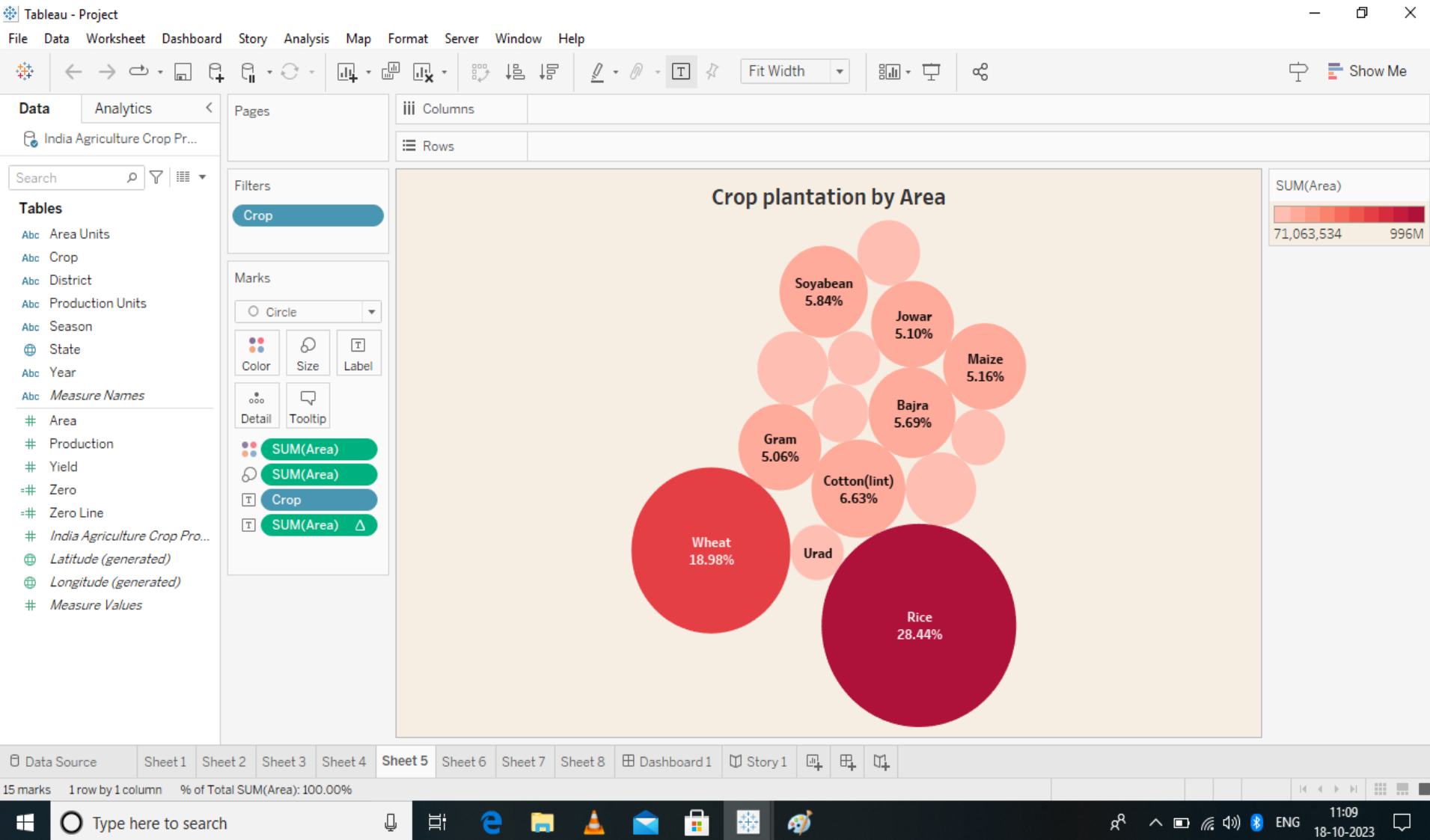
SEASON BASED CULTIVATION AREA



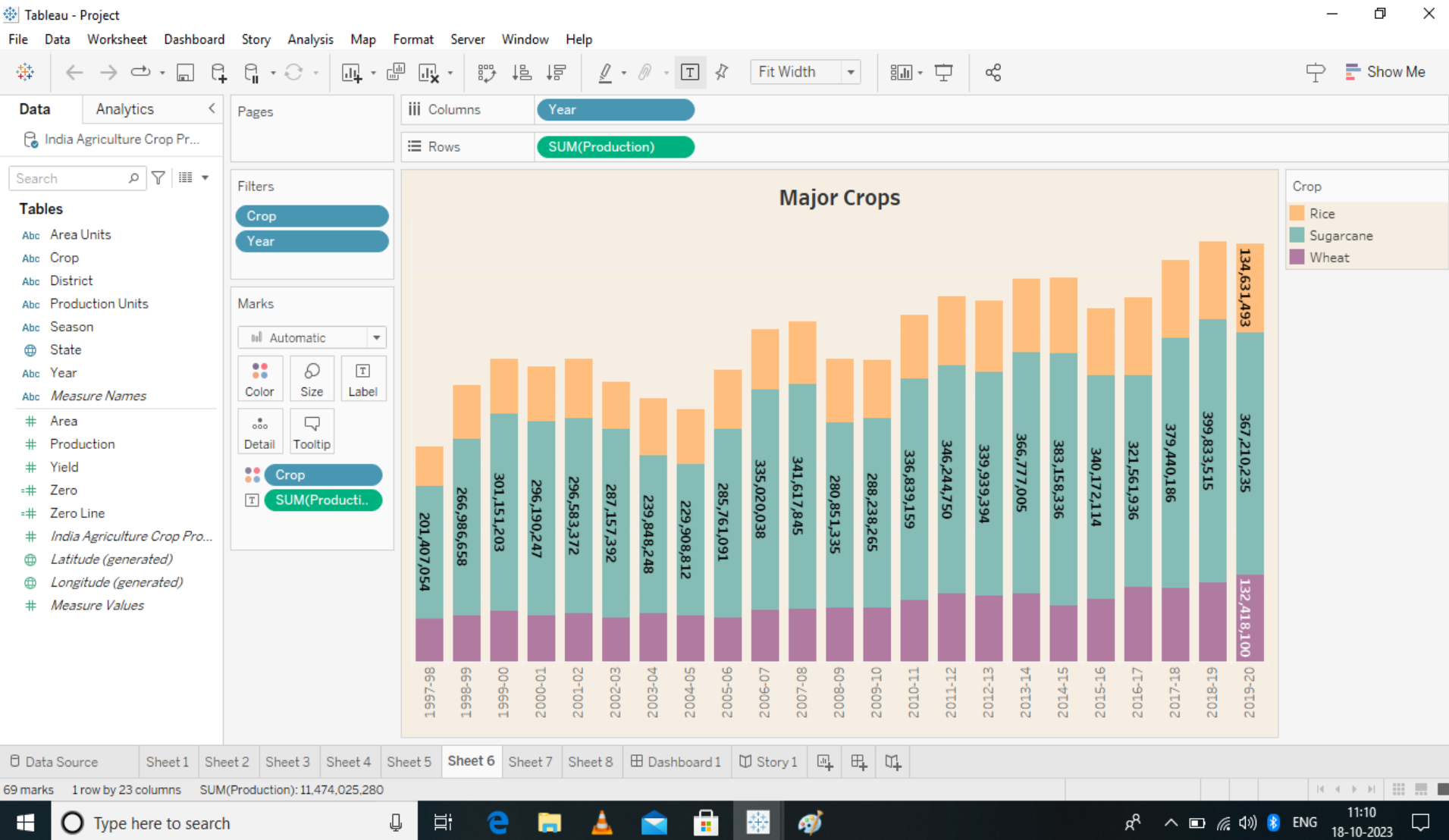
YIELD BY SEASON



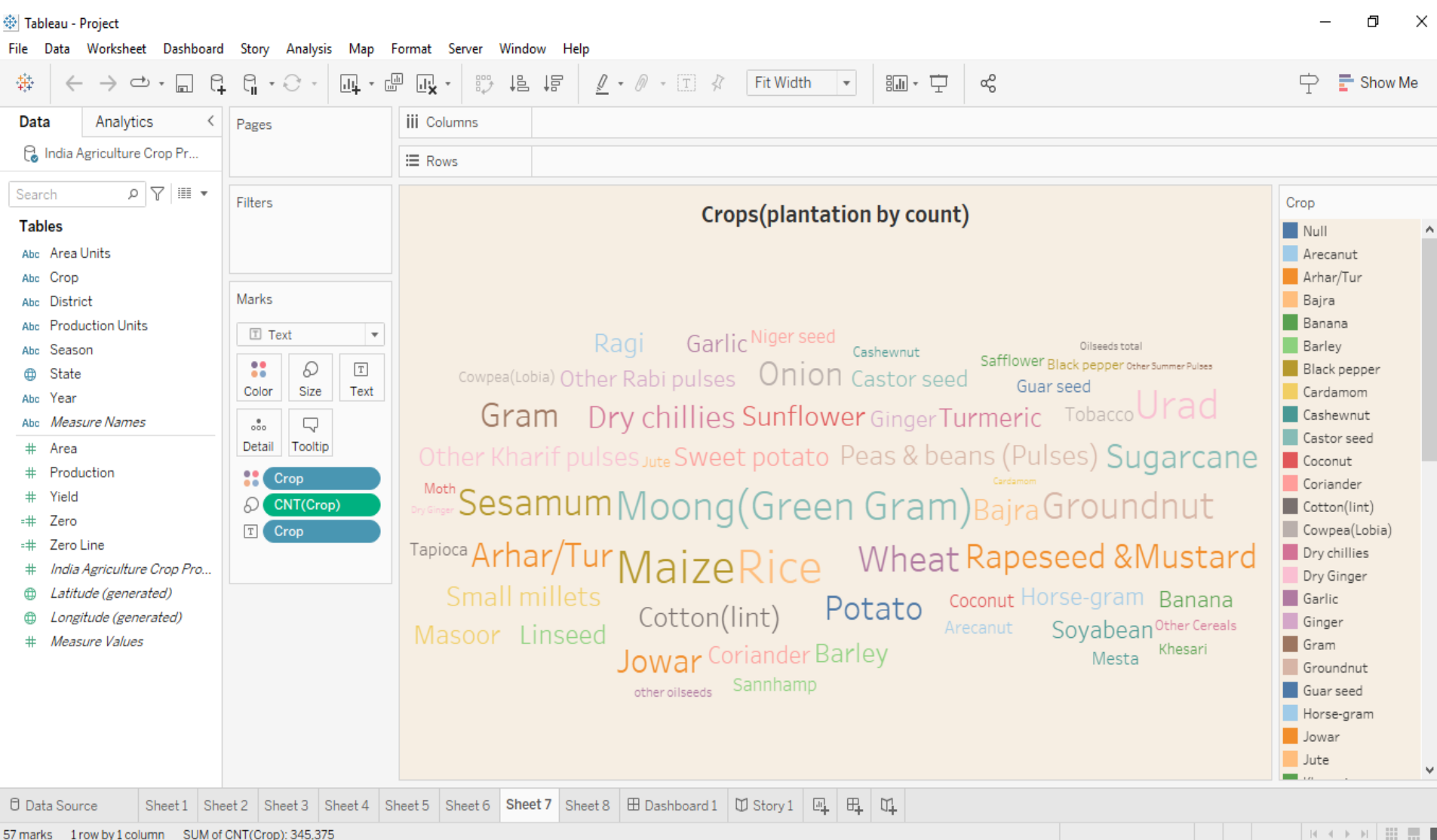
CROP PLANTATION BY AREA



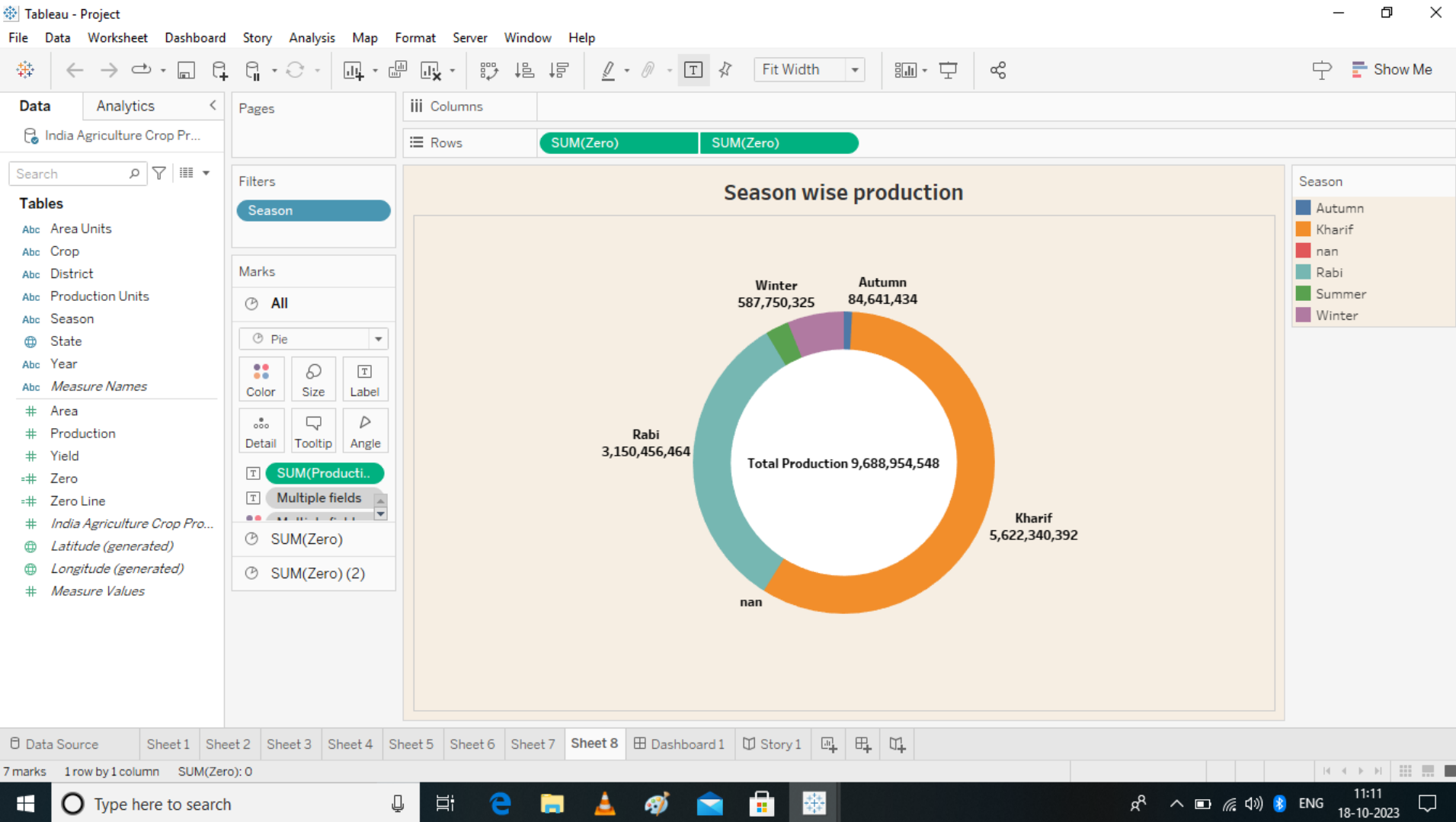
MAJOR CROPS



CROPS (PLANTATION BY COUNT)



SEASON WISE PRODUCTION



DASHBOARD

Tableau - Project [Recovered]

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help



Dashboard Layout

Default
Phone
Device Preview

Size
Desktop Browser (1000 ...)

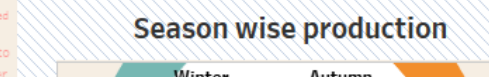
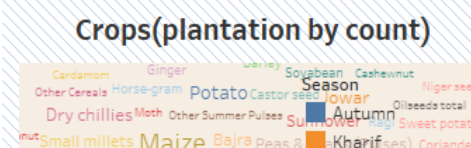
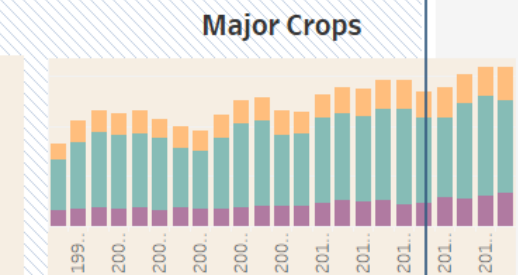
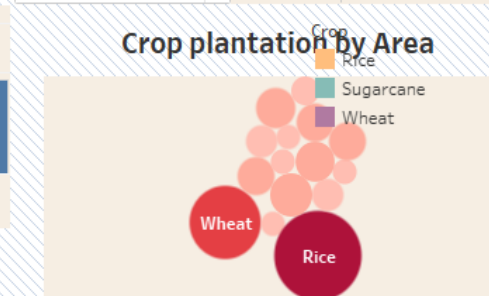
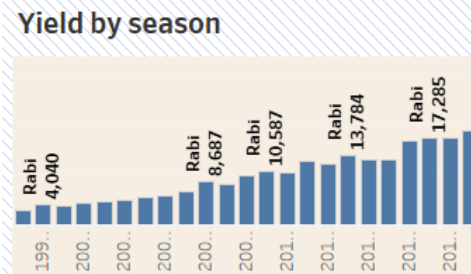
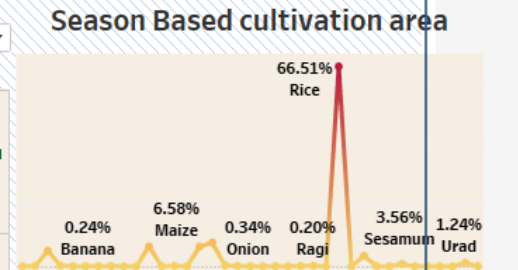
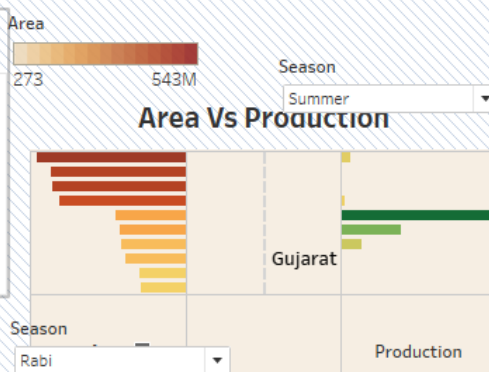
Sheets
Sheet 1
Sheet 2
Sheet 3
Sheet 4
Sheet 5
Sheet 6

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

Data Source

Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Sheet 8 Dashboard 1 Story 1

Dashboard 1



STORY

Tableau - Project [Recovered]

File Data Worksheet Dashboard Story Analysis Format Server Window Help



Story Layout

New story point

Blank

Duplicate

- Sheet 1
- Sheet 2
- Sheet 3
- Sheet 4
- Sheet 5
- Sheet 6
- Sheet 7
- Sheet 8
- Dashboard 1

A Drag to add text

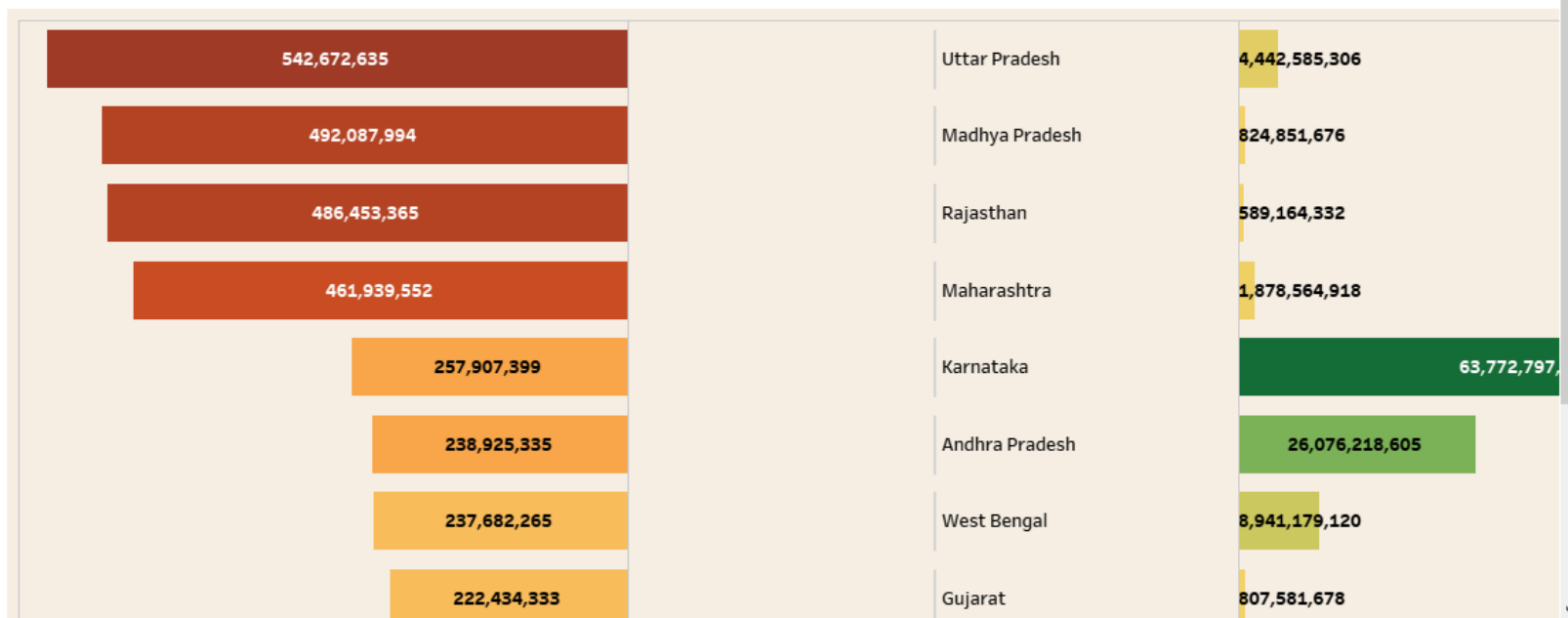
☒ Show title

Size

Generic Desktop (1366 x 768)

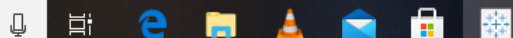
In sights into India's agricultural cultivation

Indian States : Visualizing Area	Area Vs Production: Top	Cultivation of Crops in India:	Year_on_Year Percentage	Crop Planting Percentage: This	Crop Yield Growth: Year wise	Crop Production in Tonnes:
-------------------------------------	----------------------------	-----------------------------------	----------------------------	-----------------------------------	---------------------------------	-------------------------------



Data Source Sheet 1 Sheet 2 Sheet 3 Sheet 4 Sheet 5 Sheet 6 Sheet 7 Sheet 8 Dashboard 1 Story 1

Type here to search



12:14
16-10-2023

Organic Agriculture

- Organic agriculture has fed India for centuries and it is again a growing sector in India.
- Organic production offers clean and green production methods without the use of synthetic fertilisers and pesticides and it achieves a premium price in the market place. India has 6,50,000 organic producers, which is more than any other country.
- India also has 4 million hectares of land certified as organic wildculture, which is third in the world.
- As non availability of edible biomass is impeding the growth of animal husbandry in India, organic production of protein rich cattle, fish and poultry feed using biogas /methane/natural gas by cultivating *Methylococcus capsulatus* bacteria with tiny land and water foot print is a solution for ensuring adequate protein rich food to the population.

Agriculture Based Cooperatives

- ❖ Sugar industry
- ❖ Marketing
- ❖ Dairy industry
- ❖ Banking and rural credit

Government Schemes

- 2020 Indian agriculture acts
- Atal Bhujal Yojana
- E-NAM for online agrimarketing
- Gramin Bhandaran Yojana for local storage
- Micro Irrigation Fund (MIF)
- National Mission For Sustainable Agriculture (NMSA)
- National Scheme on Fisheries Training and Extension
- National Scheme on Welfare of Fishermen
- Pradhan Mantri Kisan Samman Nidhi (PMKSN) for minimum support scheme
- Pradhan Mantri Krishi Sinchai Yojana (PMKSY) for irrigation
- Paramparagat Krishi Vikas Yojana (PKVY) for organic farming
- Pradhan Mantri Fasal Bima Yojana (PMFBY) for crop insurance

CONCLUSION

The results of theoretical analysis and econometric exercises on the issues of technological change, conservation of natural resources and sustainability of agricultural growth. In fact, the problems of agricultural growth can not be analyzed independent of resource management and technological progress. Agriculture in India, like in many other developing countries, has achieved remarkable growth in the last four decades by large scale adoption of high yielding variety seed, use of chemical inputs and expansion of irrigation. These factors have caused serious damage to natural resources like land and water. The results obtained in this study are very relevant to all other developing countries.