



PERIYAR UNIVERSITY

SRI KAILASH WOMEN'S COLLEGE
THALAIVASAL

DEPARTMENT OF MATHEMETICS

III – BSc Mathematics (2023-2024)

INCHARGE : Mrs. D. SIVASATHYA., MSc., B.Ed.,

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



Says

What have we heard them say?
What can we imagine them saying?

hierarchy of
probable applications
facilities and
devices for smart
agriculture

an internet-of-
things-based
network for
smart farming

It is economically feasible and
maintains soil quality, reduces
soil degradation, saves water
resources, improves land
biodiversity, and ensures a
natural and healthy environment.
Sustainable agriculture plays a
significant role in preventing
natural resources, halting
biodiversity loss, and reducing
greenhouse gas emission.



FARMERS

India's agricultural crop
production analysis (1997-
2021)

Thinks

What are their wants, needs, hopes, and dreams?
What other thoughts might influence their behavior?



irrigation through bore wells
is not sustainable since there
are chances of them drying
up during summer.

Asia, China, Japan, have better
irrigation techniques in the
world

A farmer uses 75% of his
water to carry out
irrigation.

Punjab has better
irrigation techniques in
India

Unable to pay bank
loans is one of the
major problems related
to irrigation and also
to farmers' suicide

Those who are unable
to farm have
given their lands for lease.
They seek financial support
from the government

Many have changed their
profession and shifted
to cities.

Apply for loans to meet
their farming needs

When they fail
to do the above
things, they
commit suicides

Improving irrigation
techniques help farmers.
Flood irrigation needs
more water.
Drip irrigation is the most
expensive irrigation.

Proper storage facilities
to store grain must be
available.
Banks are not
providing proper
financial help.

Farmers should
be given the right to
decide the price of
their products



Does

What behavior have we observed?
What can we imagine them doing?

Feels

What are their fears, frustrations, and anxieties?
What other feelings might influence their behavior?



[See an example](#)



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're

- 6 minutes to prepare
- 4 hours to calibrate
- 3.8 seconds to measure

- Before you collaborate**

- Team gathering**
Outline what should participate in the account and control cycle. Agree a research orientation or perspective about the
- Get the goal**
Share about the problem you're focusing on solving in the knowledge management system
- Learn how to use the coordination tools**
Use the Facilitator Support system to set a happy and productive session

2 Define your problem statement

What problem are you trying to solve? Frame your problem as a Five-Minute life statement. This will be the focus of your intervention.

- [View all posts](#)



...of breaking down

- Stay on topic.
- Encourage collaboration.
- Invite judgement.
- Listen to others.
- Ask for volume.
- Openness for ideas.

2

Brainstorm

- 19 minutes

Figure 11

Figure 8

Figure 8

Discussion

Person 6

Figure 6

March 9

Answer D

④

Group Ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is

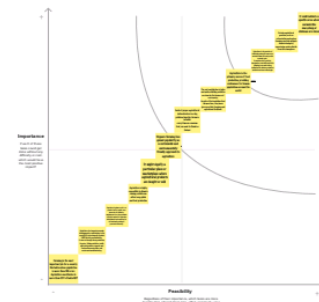
- stronger than

100

•

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

- ...and the
...and the



•

After you collaborate

You can export the result as an image or pdf to share with members of your company who

- Share the word!**
Share online [link](#) to the board with instructions to be
start in the top about the outcome of the session.

Keep moving forward

- 
Strategy/strategic
 Outline the components of a new line of strategy
[Open the template](#)
- 
Customer experience journey map
 Understand customer needs, motivations, and behaviors for an experience
[Open the template](#)
- 
Strengths, weaknesses, opportunities & threats
 Identify strengths, weaknesses, opportunities and threats (SWOT) to develop a plan
[Open the template](#)

15. [Share on Facebook](#)

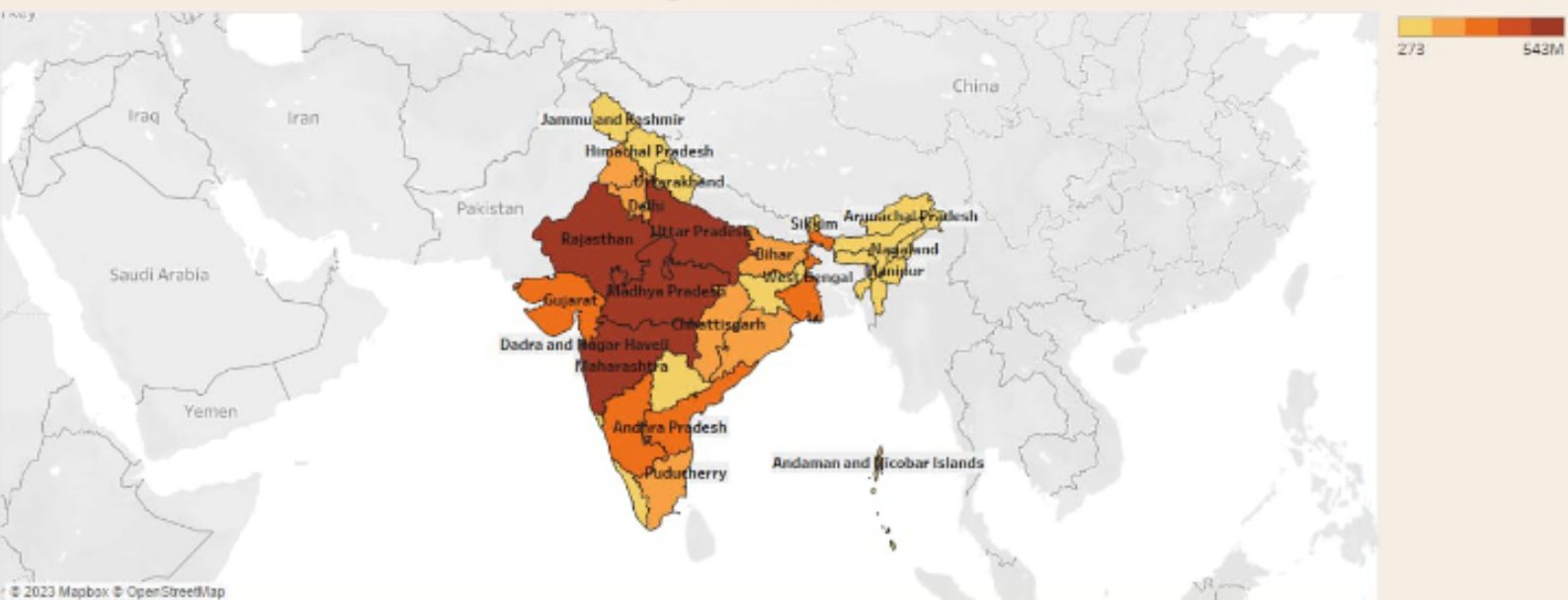


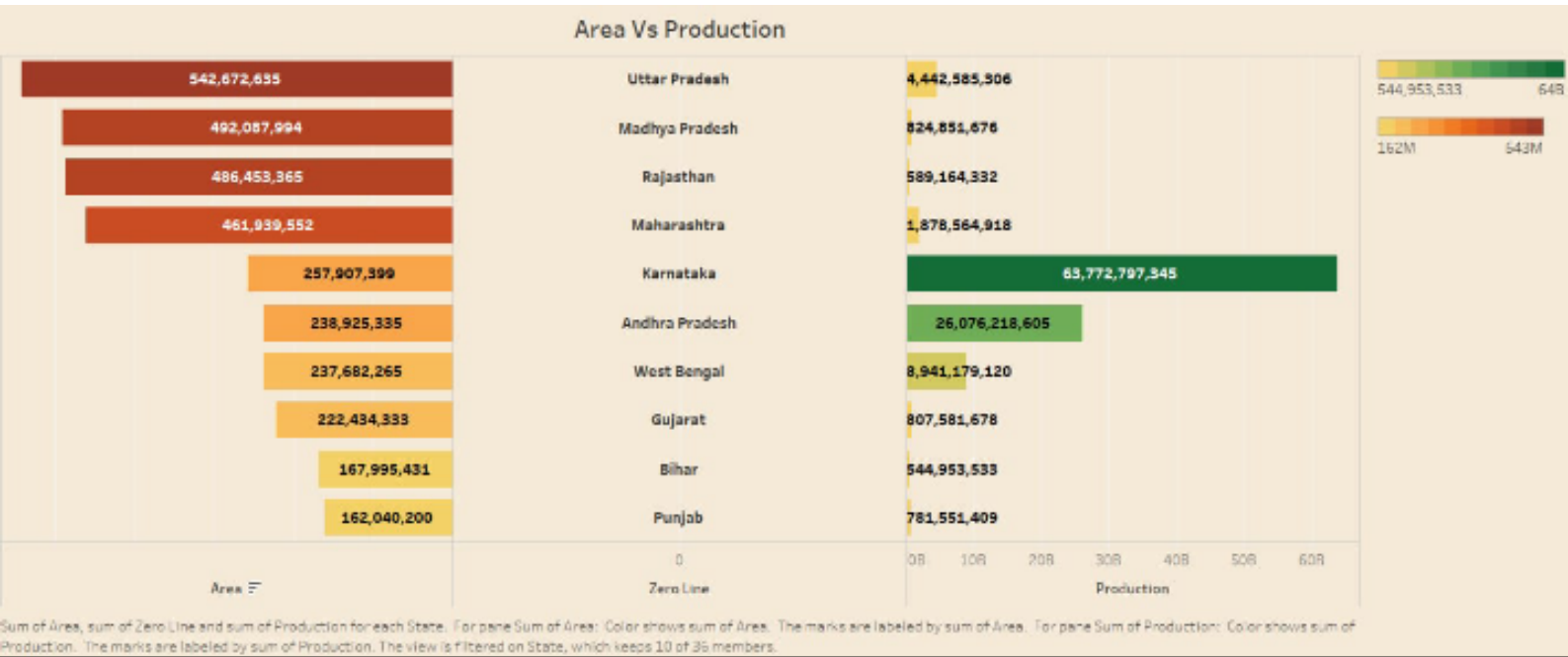
Need some inspiration?
Here are the latest updates on how you can use the internet to your advantage.

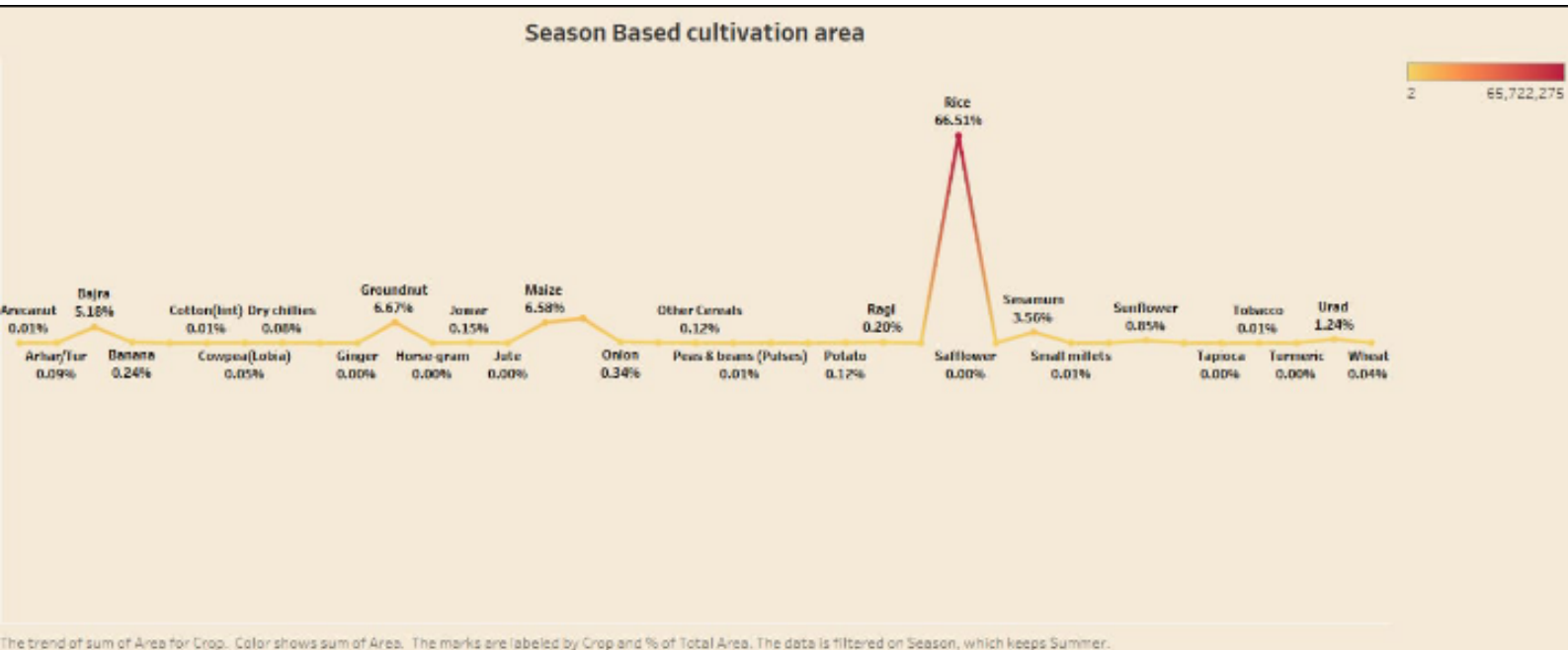
[View examples](#)

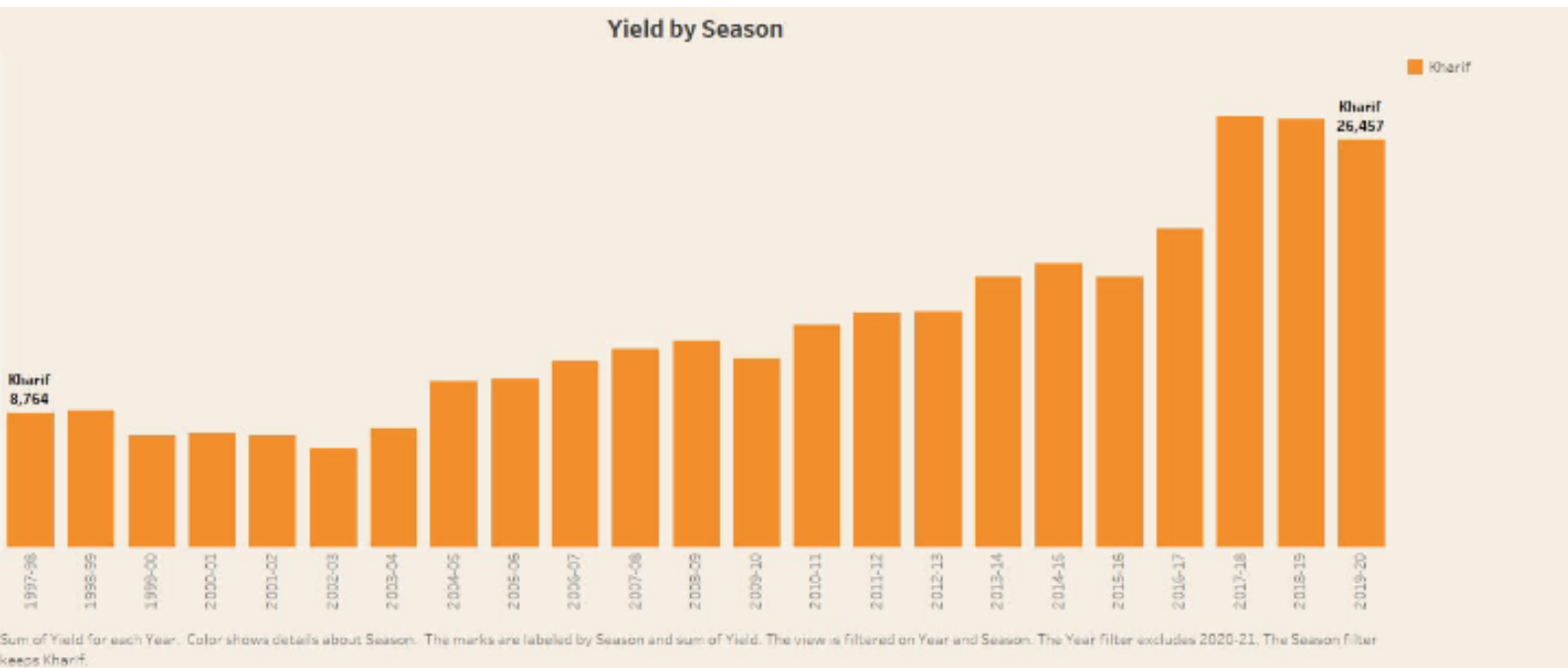


Statewise Agricultural Land

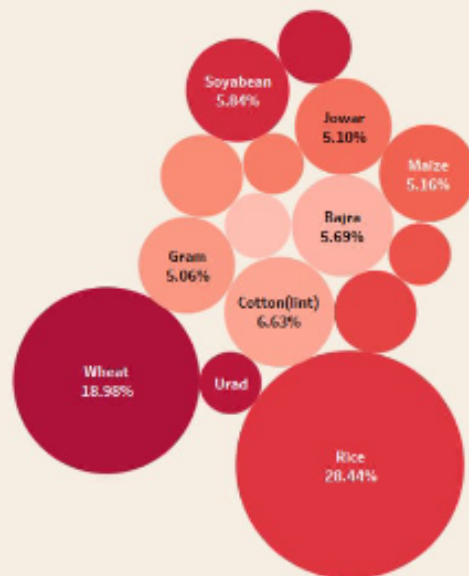






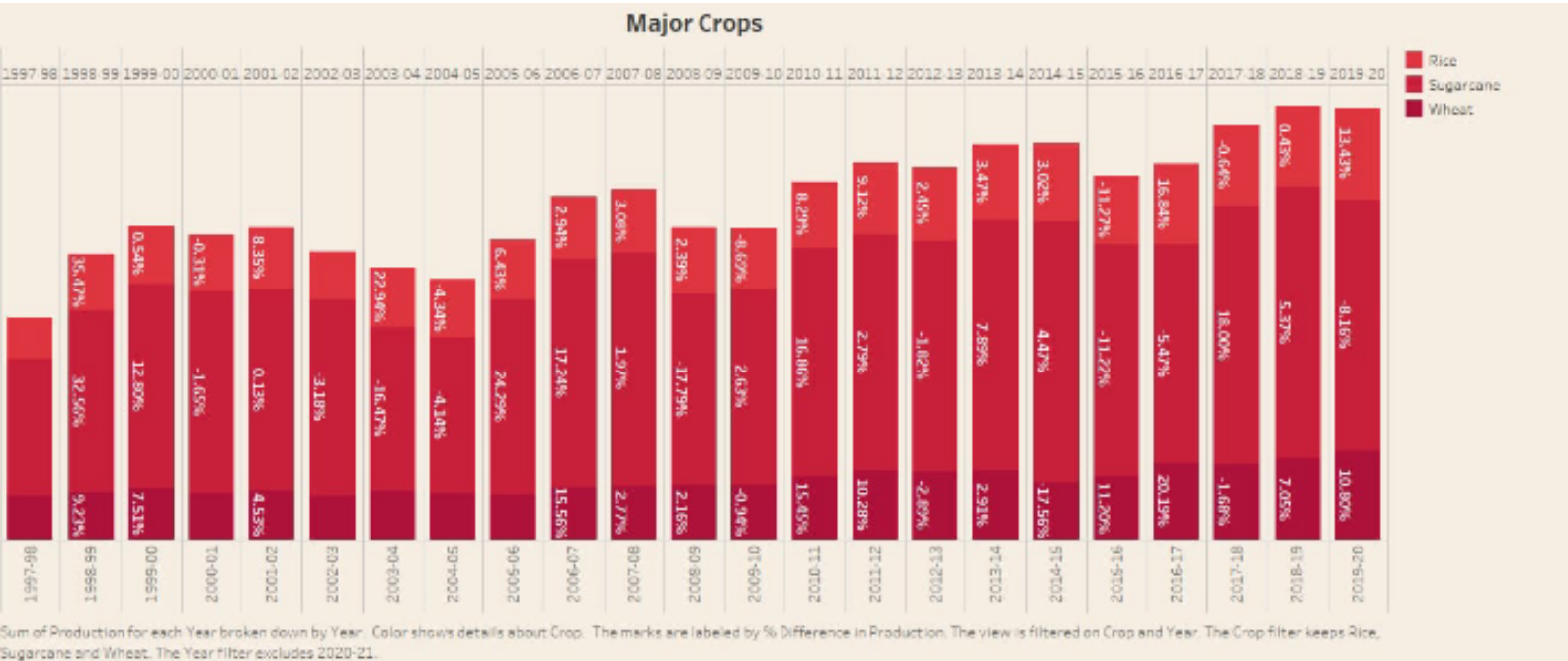


Crop Plantation by Area

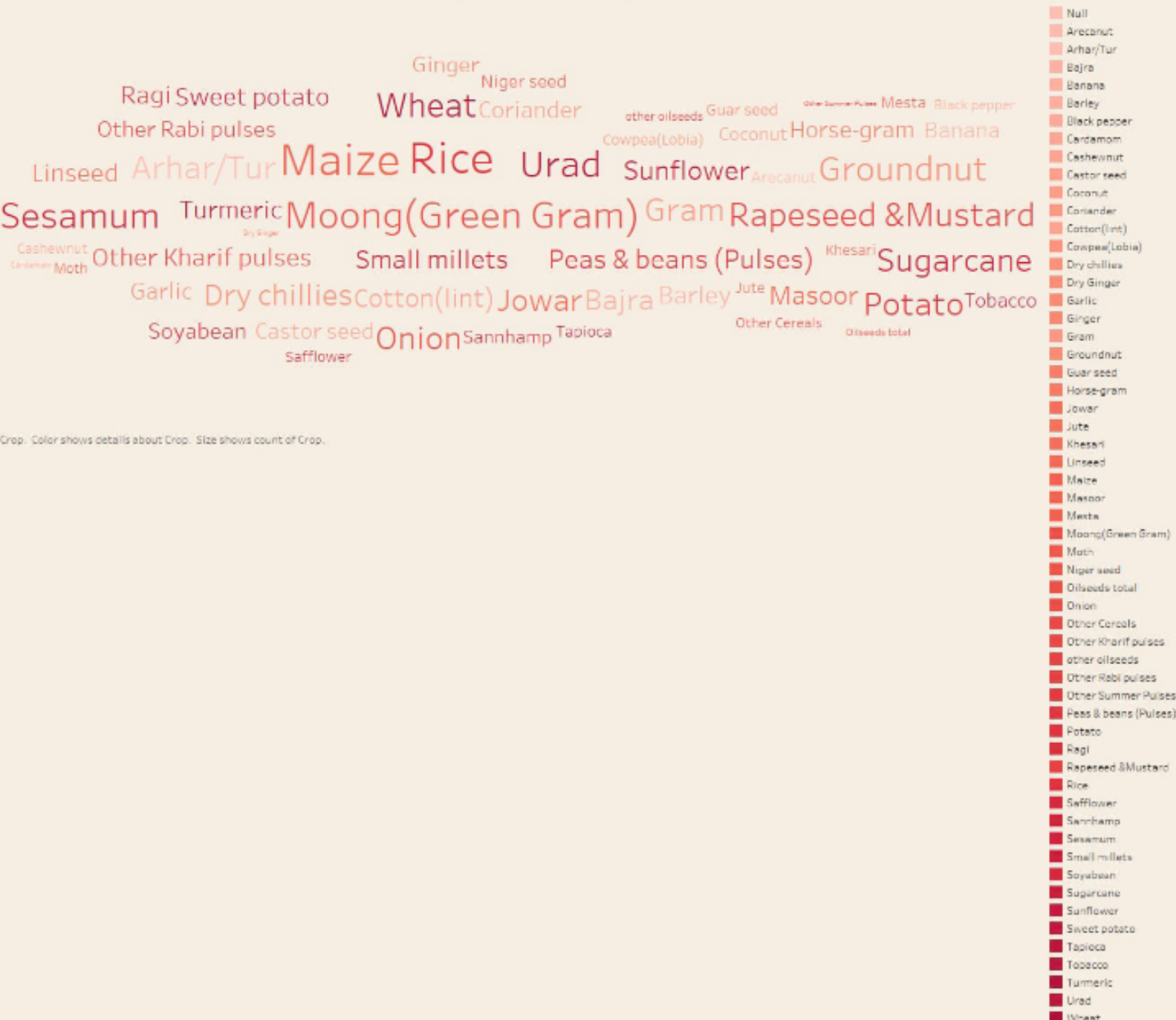


- Arhar/Tur
- Bajra
- Cotton(lint)
- Gram
- Groundnut
- Guar seed
- Jowar
- Maize
- Moong(Green Gram)
- Rapeseed & Mustard
- Rice
- Soyabean
- Sugarcane
- Urad
- Wheat

Crop and % of Total Area. Color shows details about Crop. Size shows sum of Area. The marks are labeled by Crop and % of Total Area. The view is filtered on Crop, which keeps 15 of 57 members.



Crops(Plantation by count)



Crop. Color shows details about Crop. Size shows count of Crop.

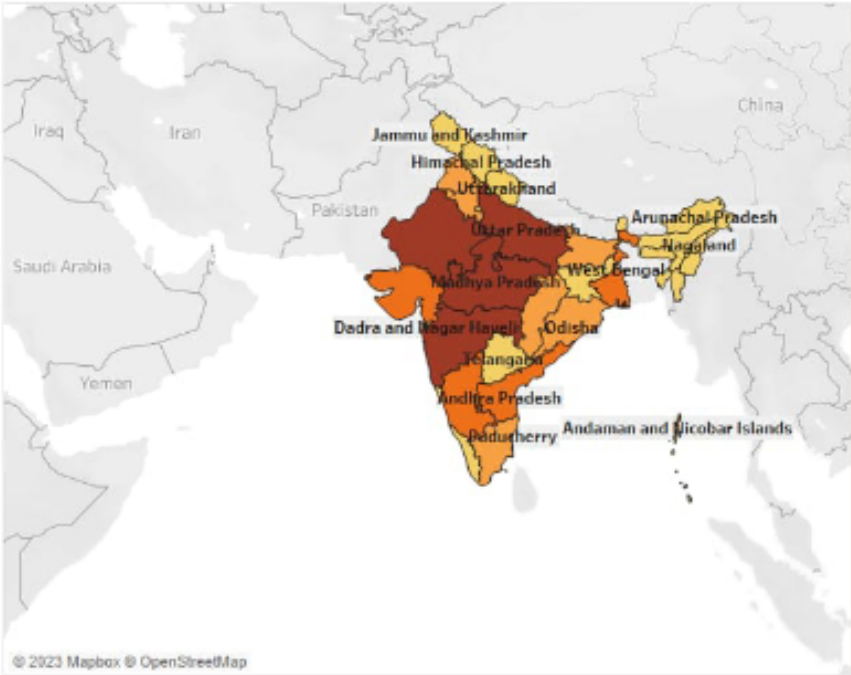
Season wise Production



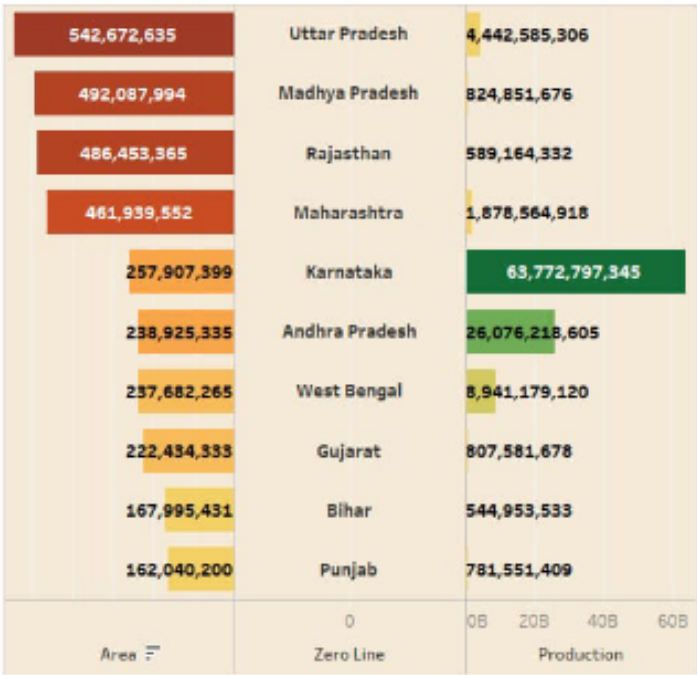
Sum of Zero and sum of Zero . For pane Sum of Zero : Color shows details about Season . The marks are labeled by Season and sum of Production. The view is filtered on Season, which excludes Whole Year .

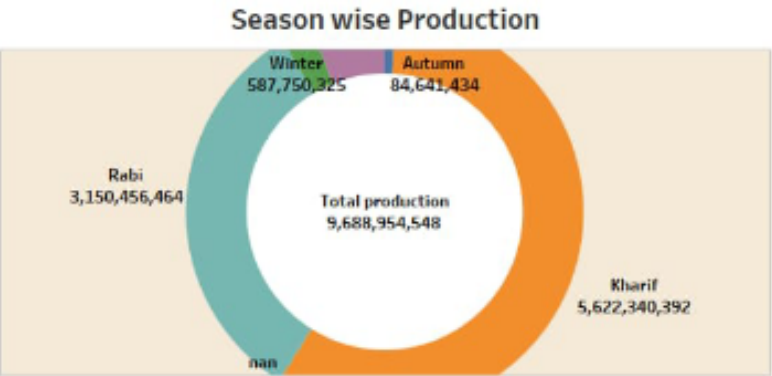
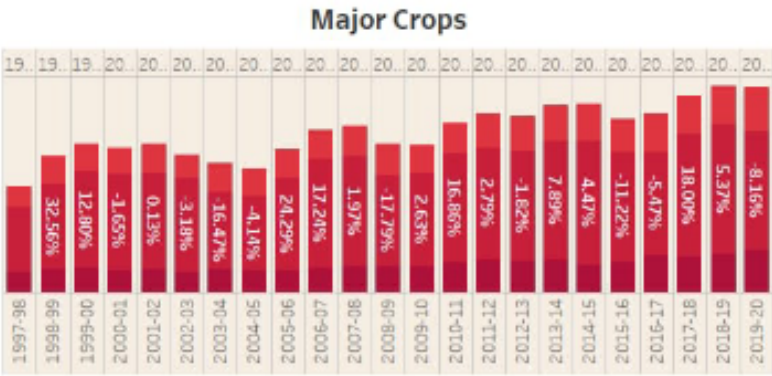
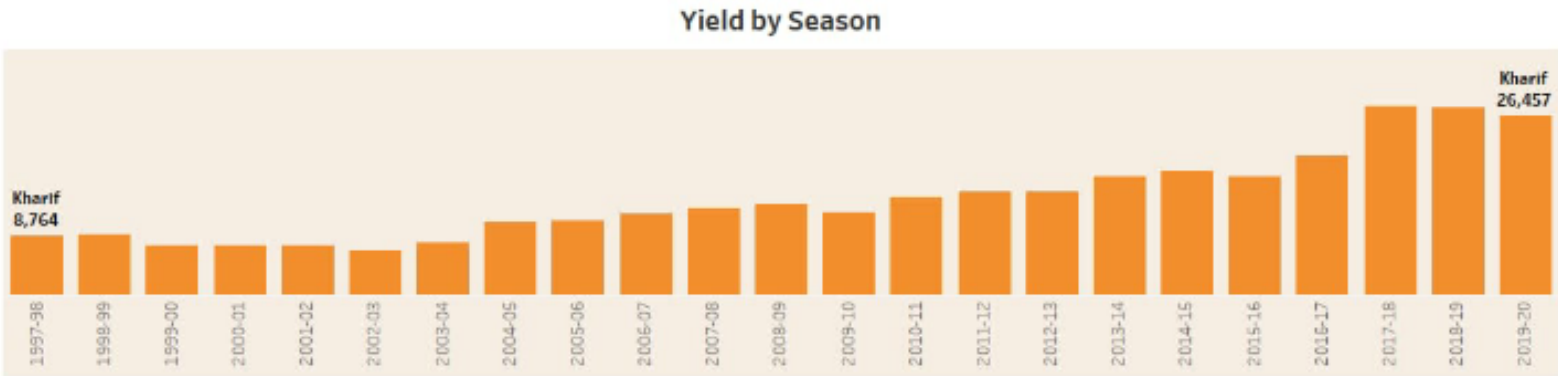
Area in acres region-wise

Statewise Agricultural Land



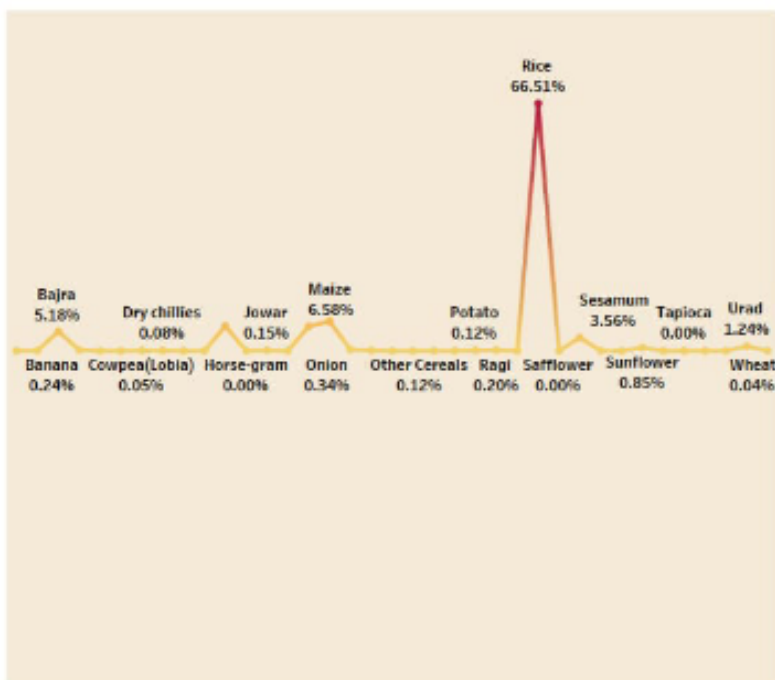
Area Vs Production



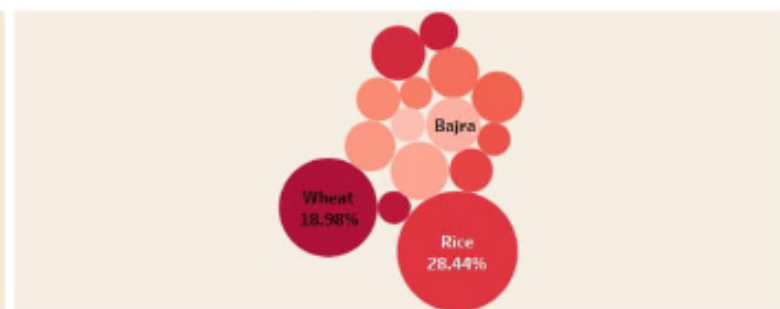


Production in tonnes region-wise

Season Based cultivation area



Crop Plantation by Area

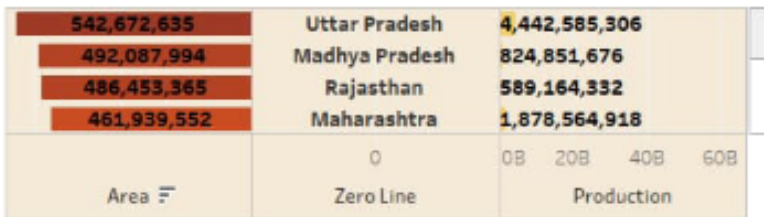


Crops(Plantation by count)

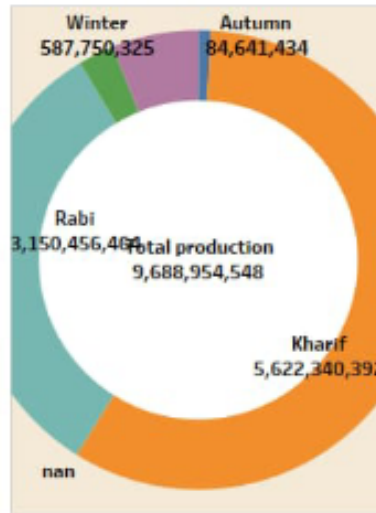


Story

Area Vs Production



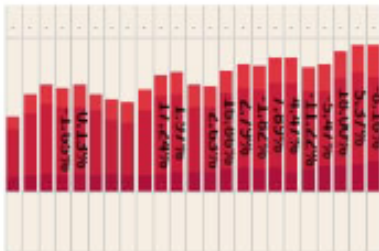
Season wise Production



Statewise Agricultural Land



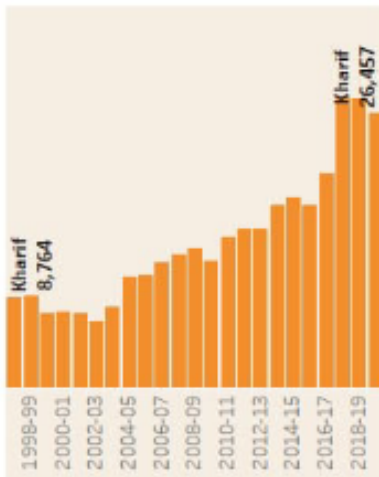
Major Crops



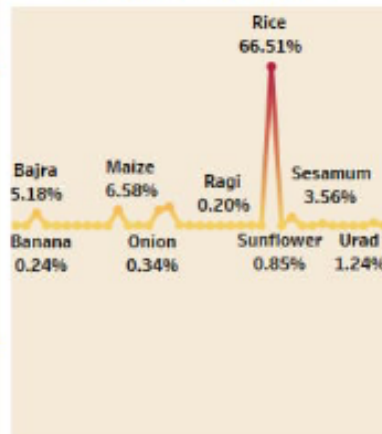
Crops(Plantation by count)



Yield by Season



Season Based cultivation area



Crop Plantation by Area

