NAAN MUDHALVAN SCHEME

FUNDAMENTALS DATA LITERACY WITH TABLUEAU

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

TEAM ID: NM2023TMID16056

TEAM LEAD ID : B116426F84E31378B7742C6056FD883B

TEAM MEMBERS ID:

C0216994EEF855692CF43BB6DC1779B0

35C1AE7F3D7B80C9F214FDB1190A194B

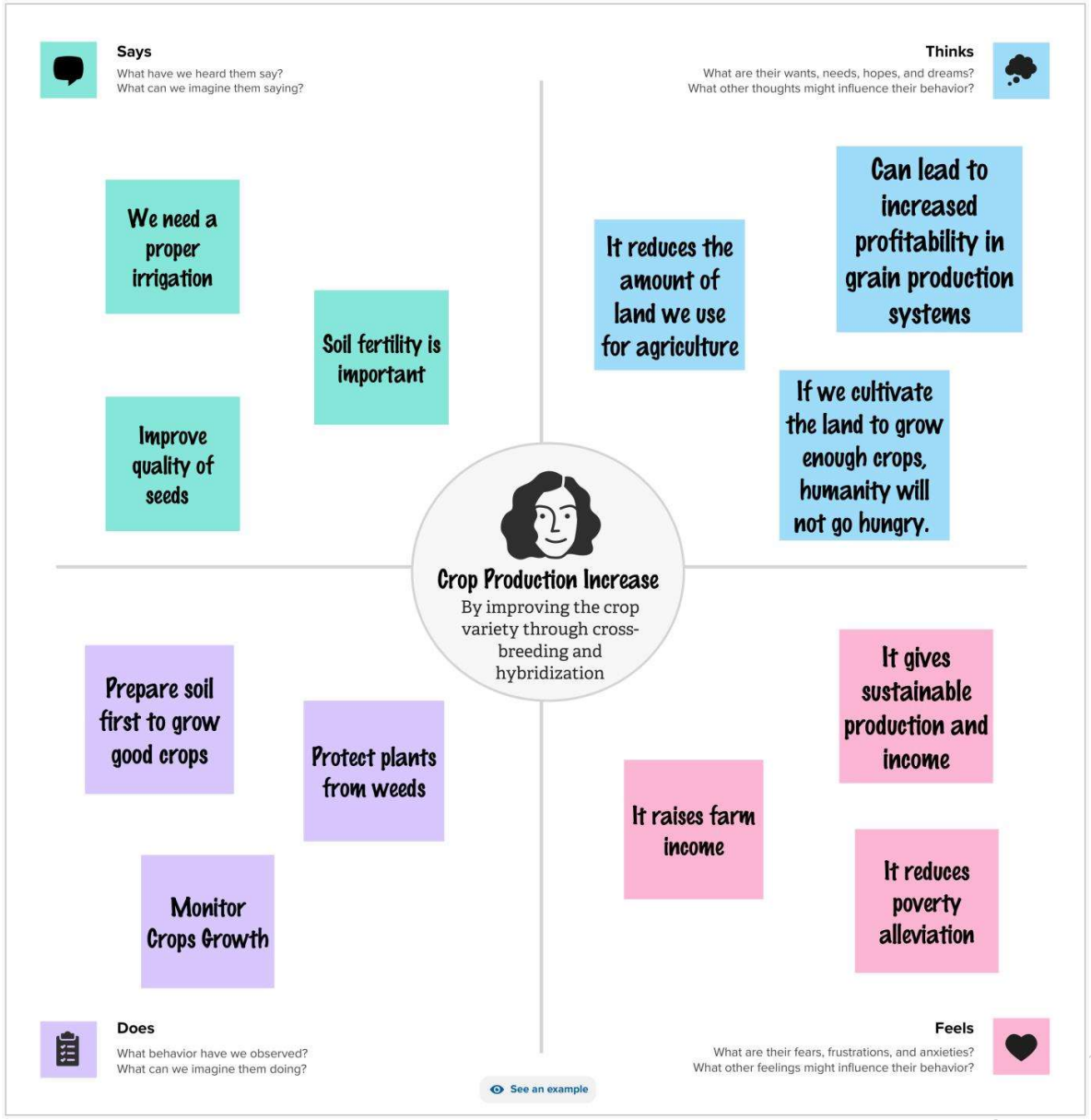
BFD1F68F6B8C612BF3146A61336B5B59

INTRODUCTION:

India’s Agricultural Crop Production Analysis(1997-2021)

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.

EMPATHY MAP AND BRAINSTORMING MAP


Says
What have we heard them say?
What can we imagine them saying?
Thinks
What are their wants, needs, hopes, and dreams?
What other thoughts might influence their behavior?
We need a proper irrigation
Soil fertility is important
Improve quality of seeds
It reduces the amount of land we use for agriculture
Can lead to increased profitability in grain production systems
If we cultivate the land to grow enough crops, humanity will not go hungry.
Crop Production Increase
By improving the crop variety through cross-breeding and hybridization
Prepare soil first to grow good crops
Protect plants from weeds
Monitor Crops Growth
It raises farm income
It gives sustainable production and income
It reduces poverty alleviation
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

1

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

How to increase crop production?

Ways to increases crop production

Key rules of brainstorming

2

Brainstorm

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

10 minutes

TIP

You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

3

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 bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

20 minutes

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

Our idea is to increase crop production by using good quality of seeds and proper irrigation in farm area.

Prepare the soil to improve crop yielding

Our idea is to increase crop production by using good quality of seeds and proper irrigation in farm area.

Select high yielding crops

Interplat to improve crop production

Use proper irrigation method

Conserving the soil, crop rotation, less use of fertilizers

Nourish your soil to get more yield

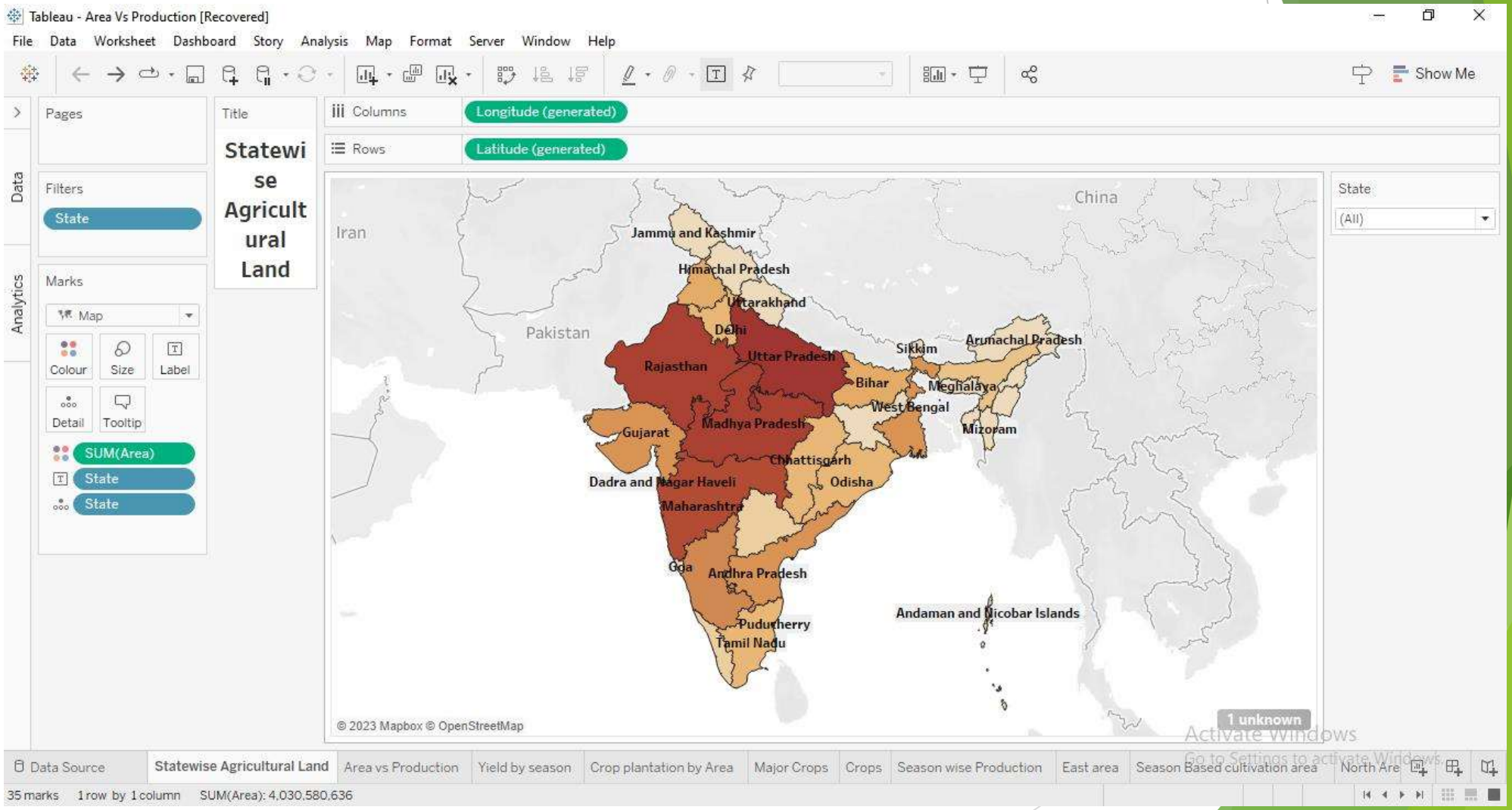
Interplant to improve crop production

Soil fertility is important

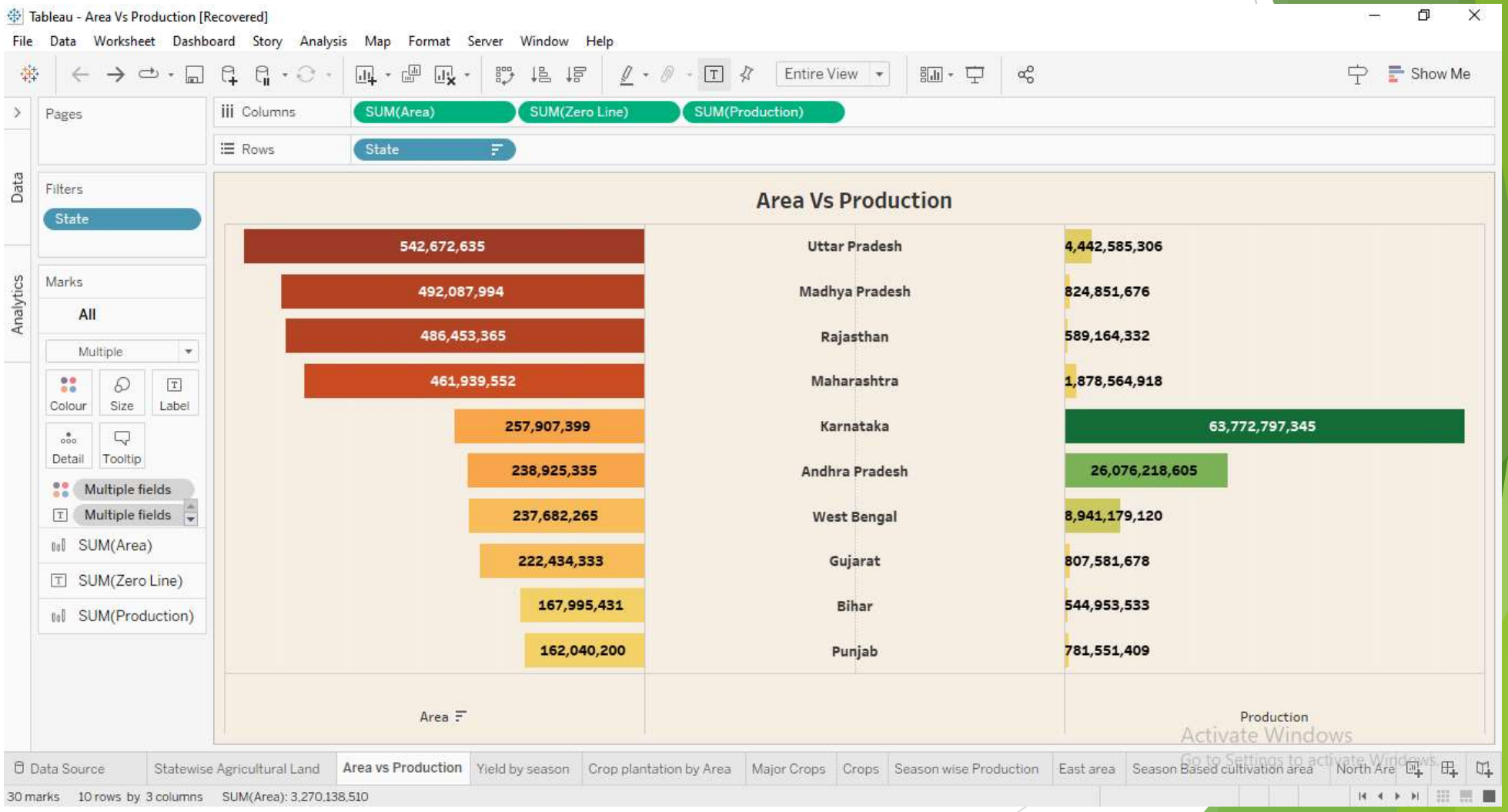
Control pest for more yielding

Choose fast-maturing crop varieties

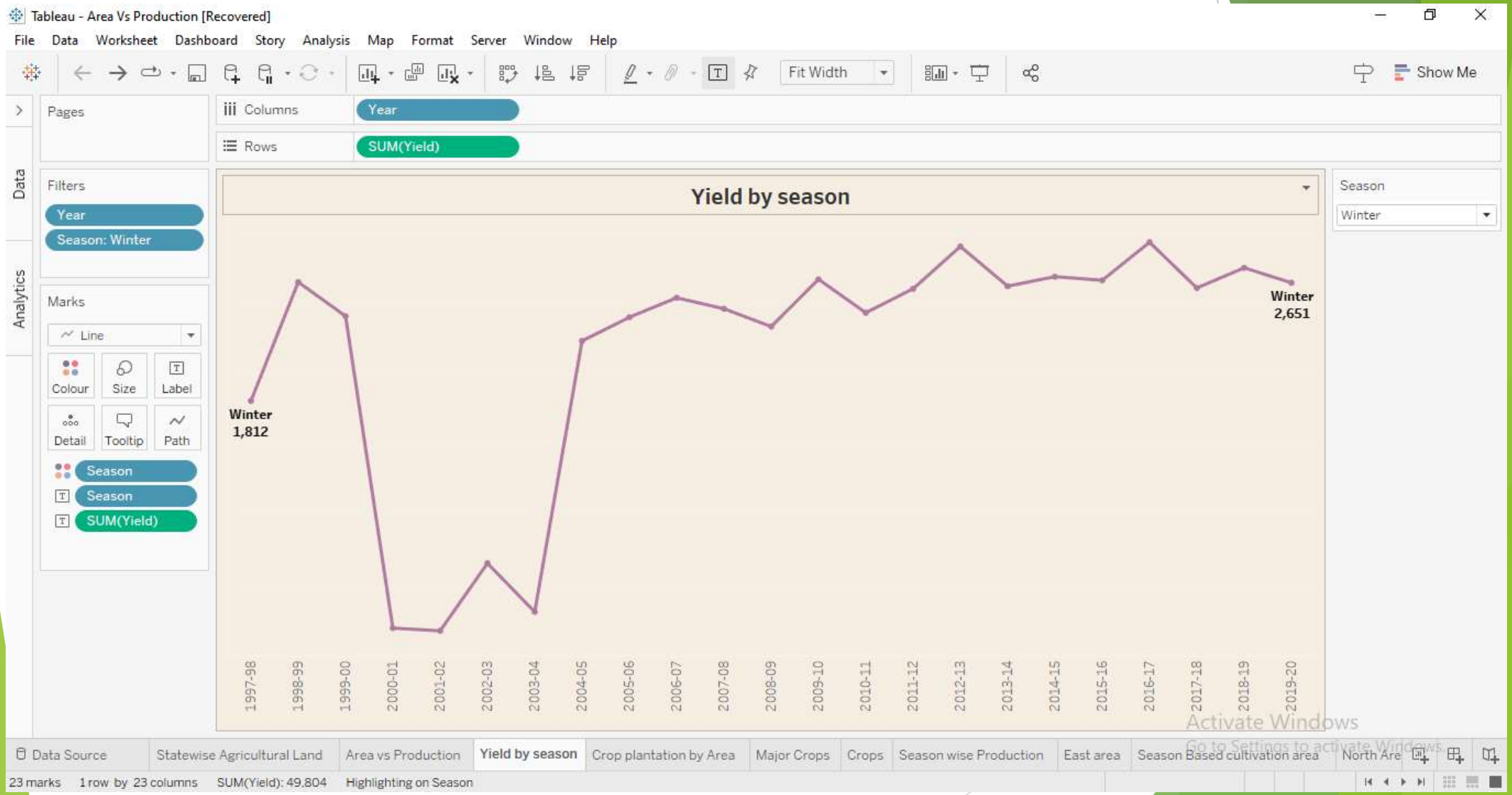
STATEWISE AGRICULTURAL LAND



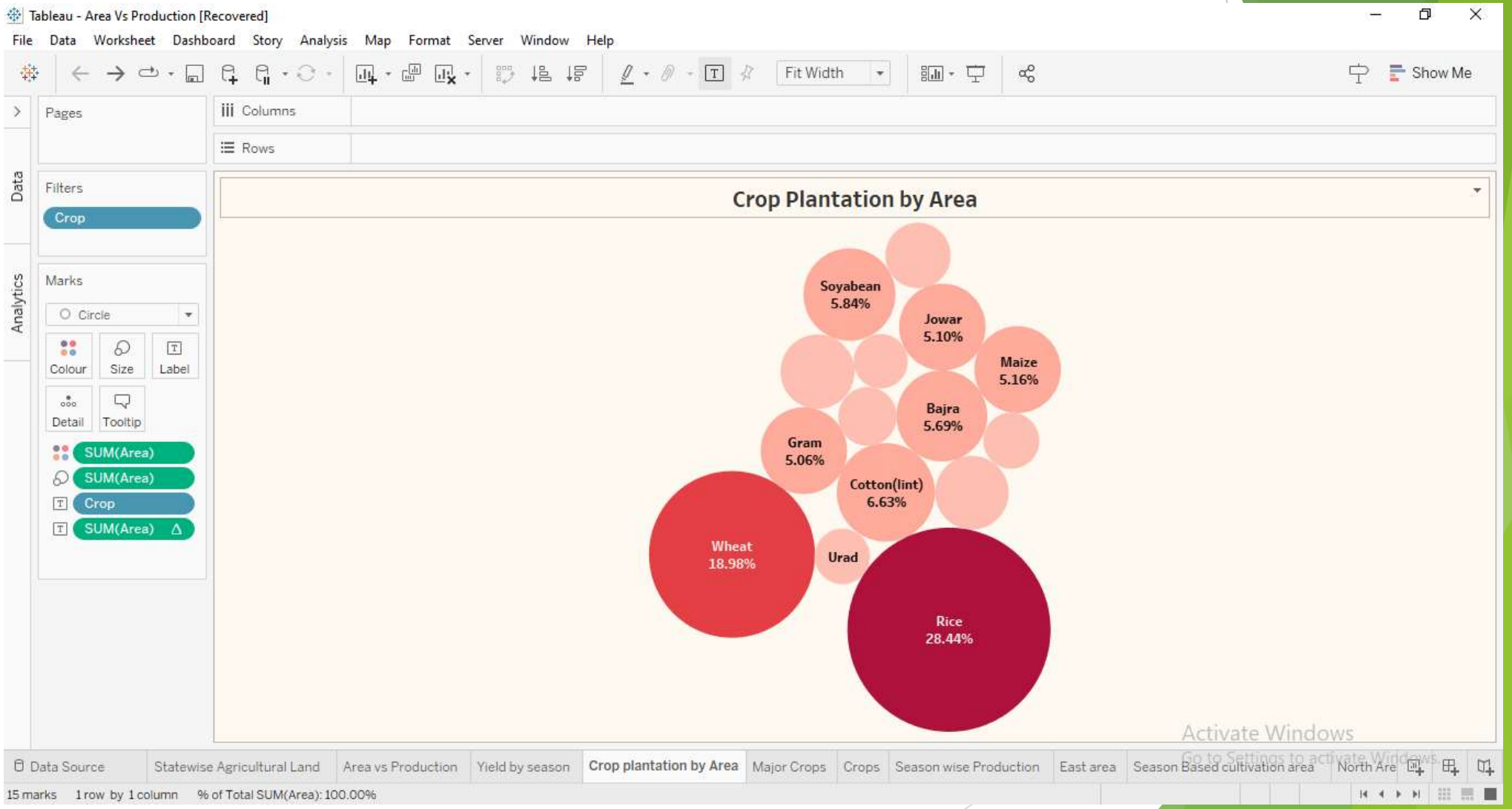
AREA VS CROP PRODUCTION



YEILD BY SEASON



CROP PLANTATION BY AREA



MAJOR CROPS

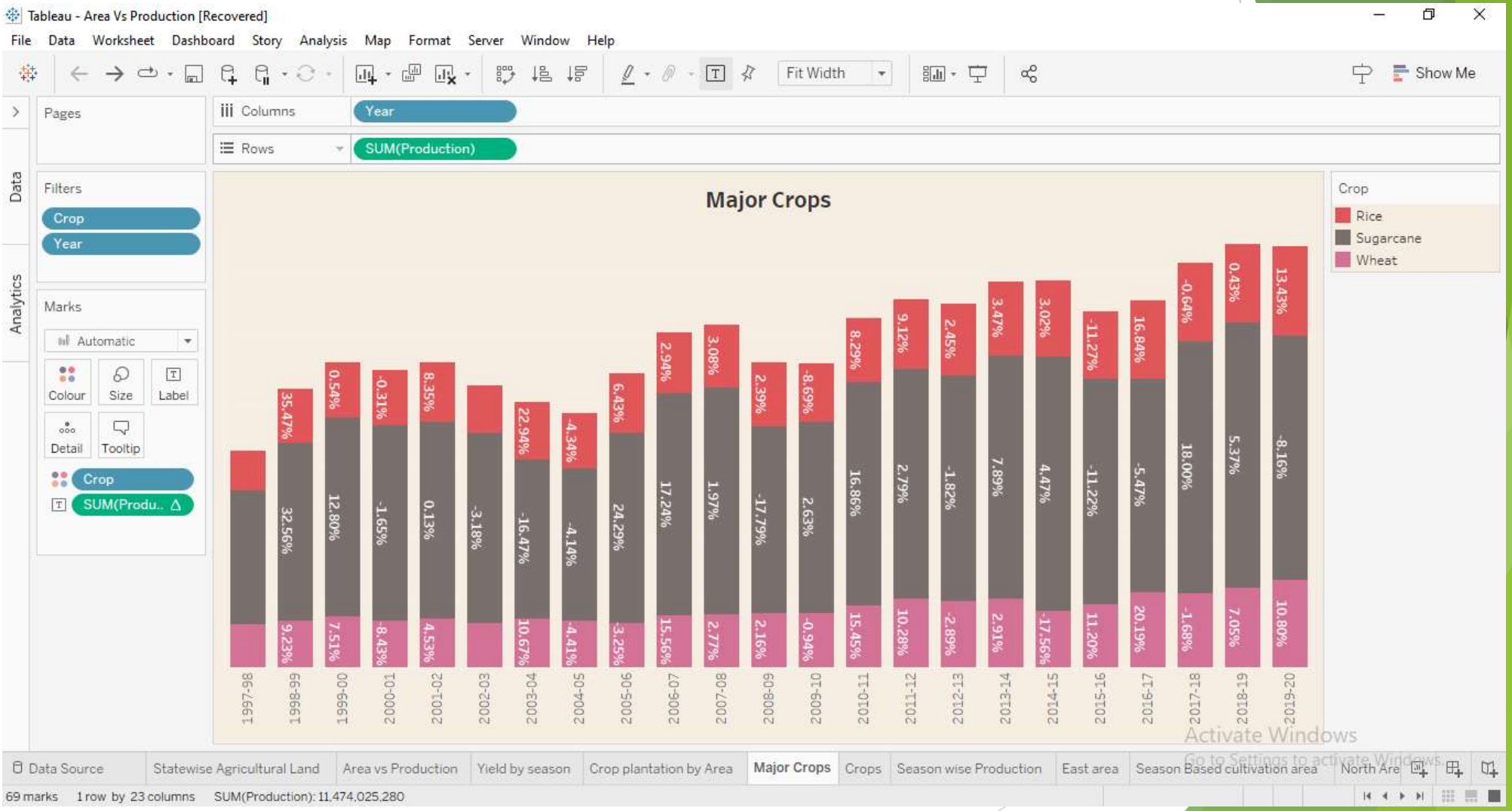
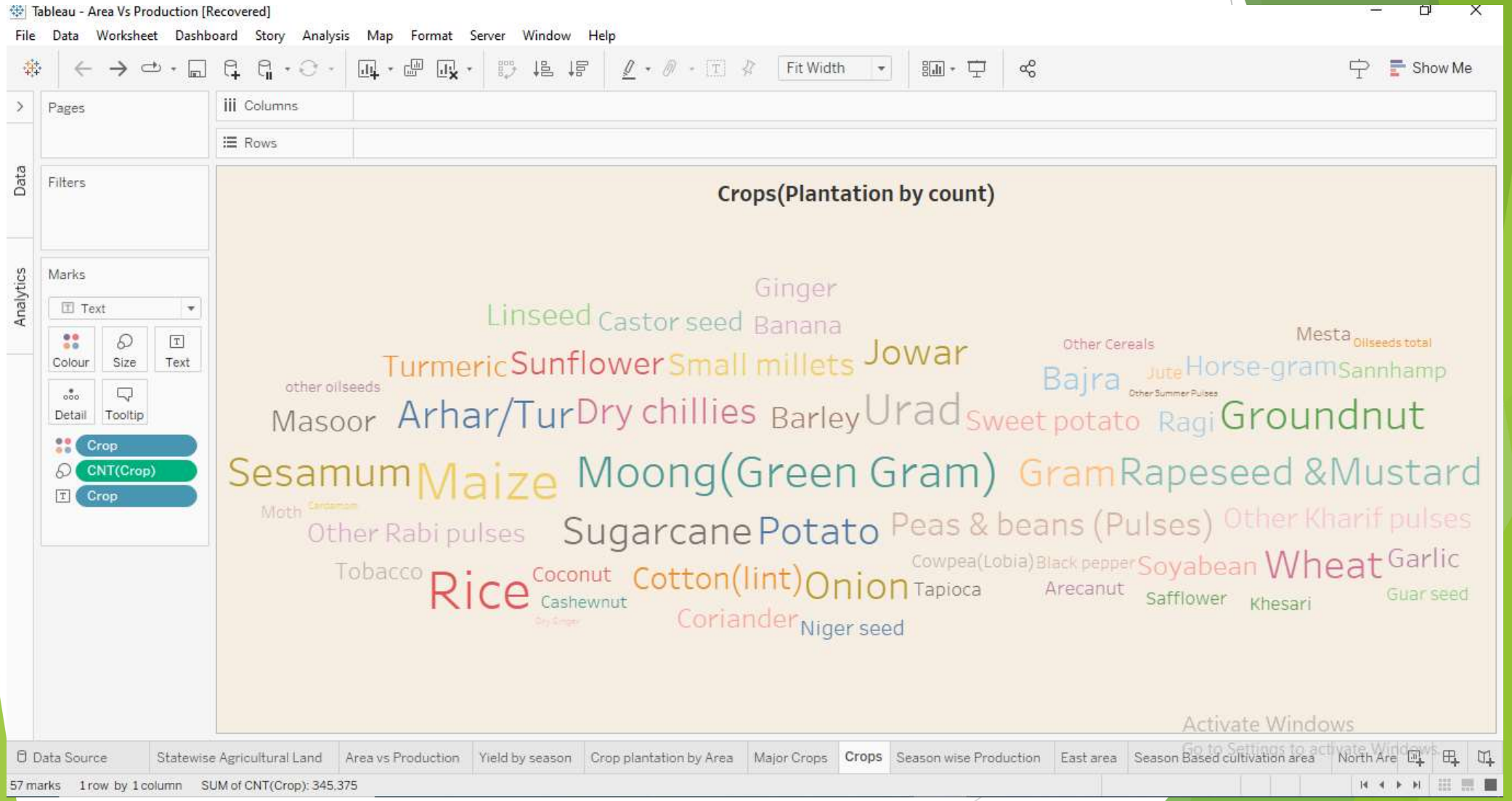
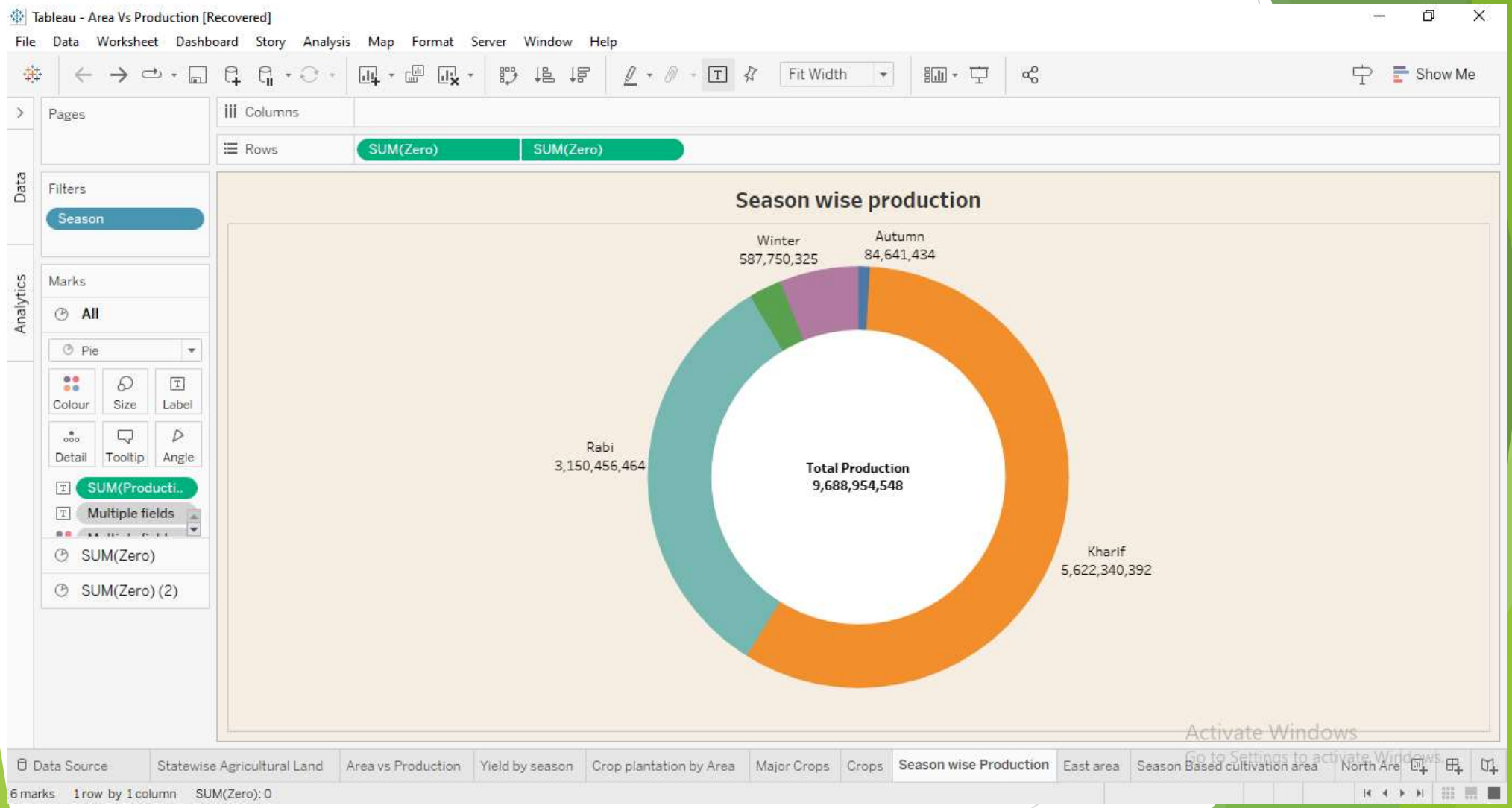


Tableau - Area Vs Production [Recovered]
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Fit Width
Show Me
Pages
Columns Year
Rows SUM(Production)
Filters
Crop
Year
Marks
Automatic
Colour Size Label
Detail Tooltip
Crop
SUM(Produ..
Data
Analytics
Major Crops
Crop
Rice
Sugarcane
Wheat
1997-98 1998-99 1999-00 2000-01 2001-02 2002-03 2003-04 2004-05 2005-06 2006-07 2007-08 2008-09 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20
Data Source
Statewise Agricultural Land
Area vs Production
Yield by season
Crop plantation by Area
Major Crops
Crops
Season wise Production
East area
Season Based cultivation area
North Are
69 marks
1 row by 23 columns
SUM(Production): 11,474,025,280

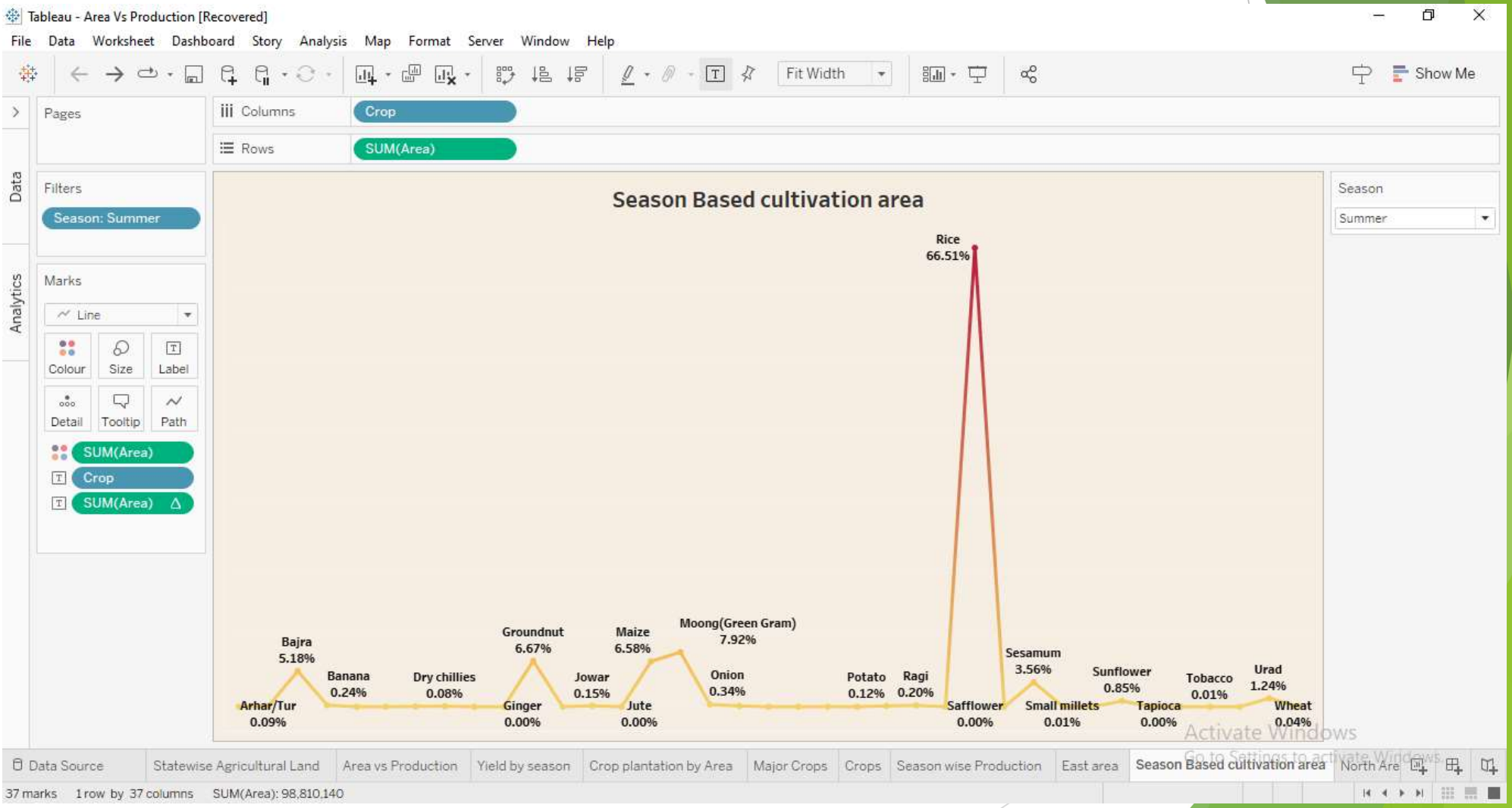
CROP (PLANTATION BY COUNT)



SEASON WISE PRODUCTION



SEASON BASED CULTIVATION AREA



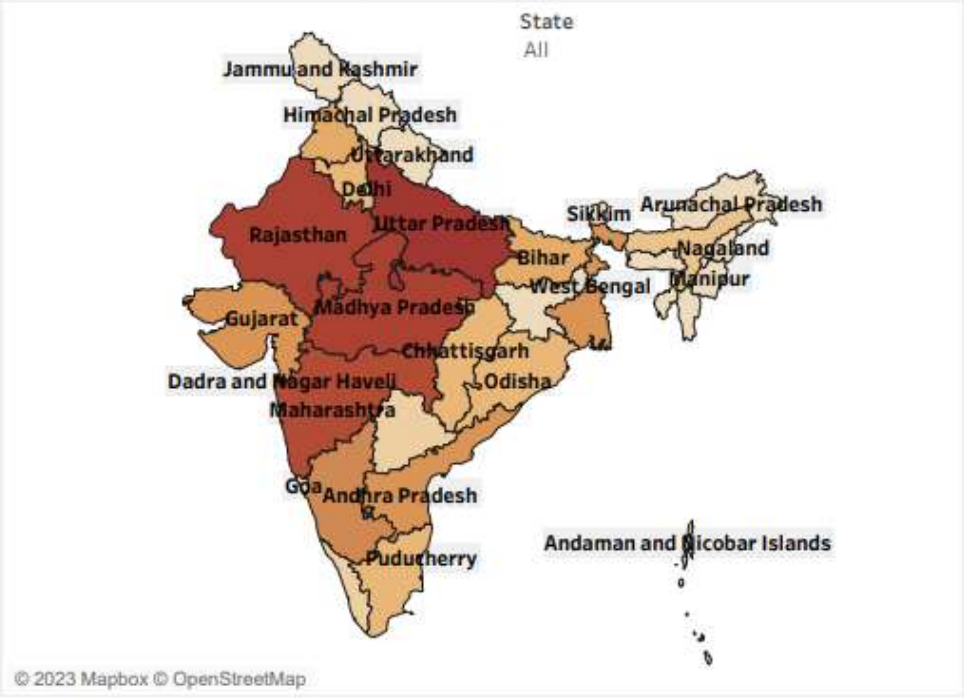
DASHBOARDS

DASHBOARD 1

Area in acres region-wise

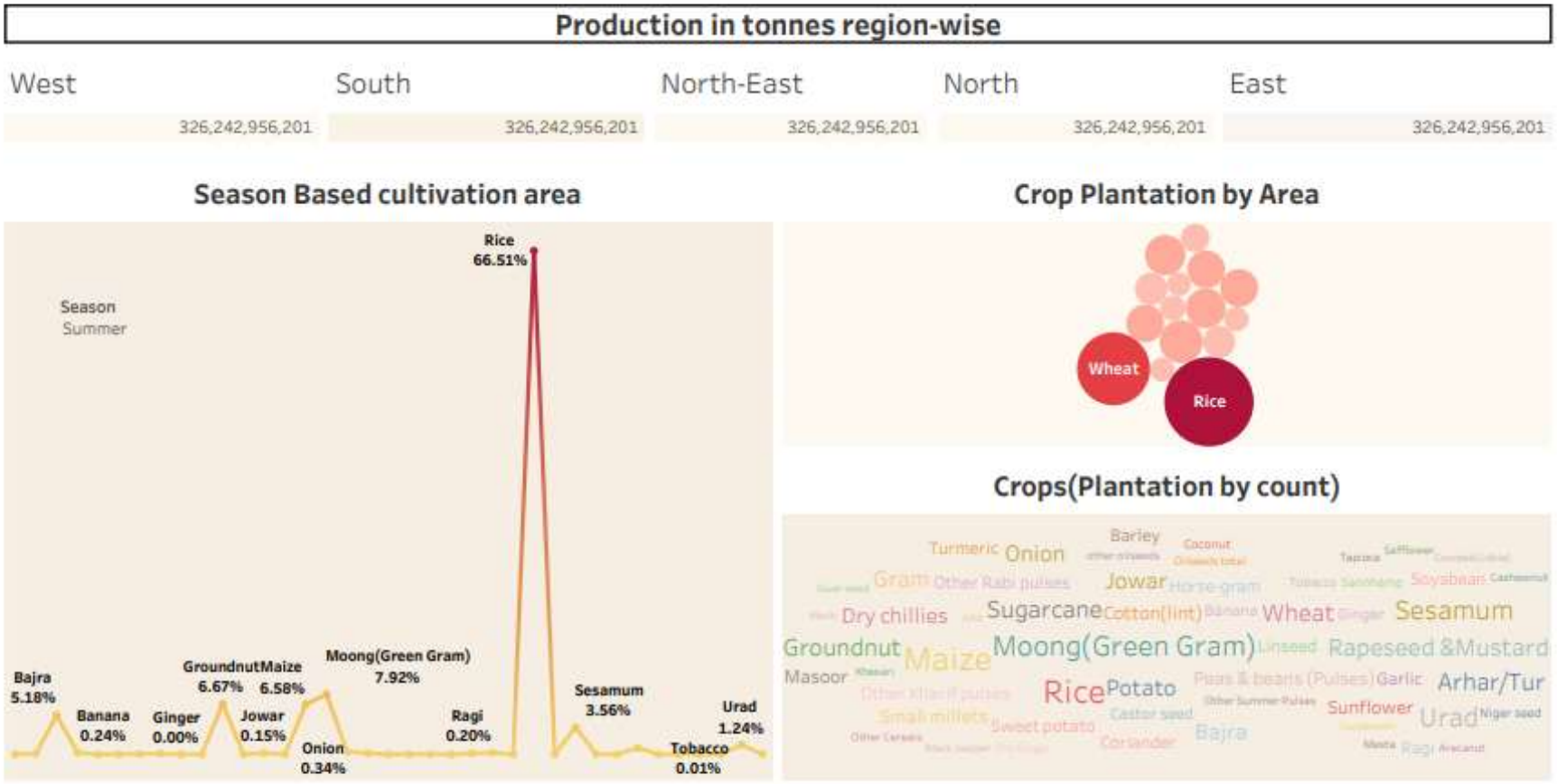
West Area	South Area	North-east Area	North Area	East
4,030,580,636	4,030,580,636	4,030,580,636	4,030,580,636	4,030,580,636

Statewise Agricultural Land

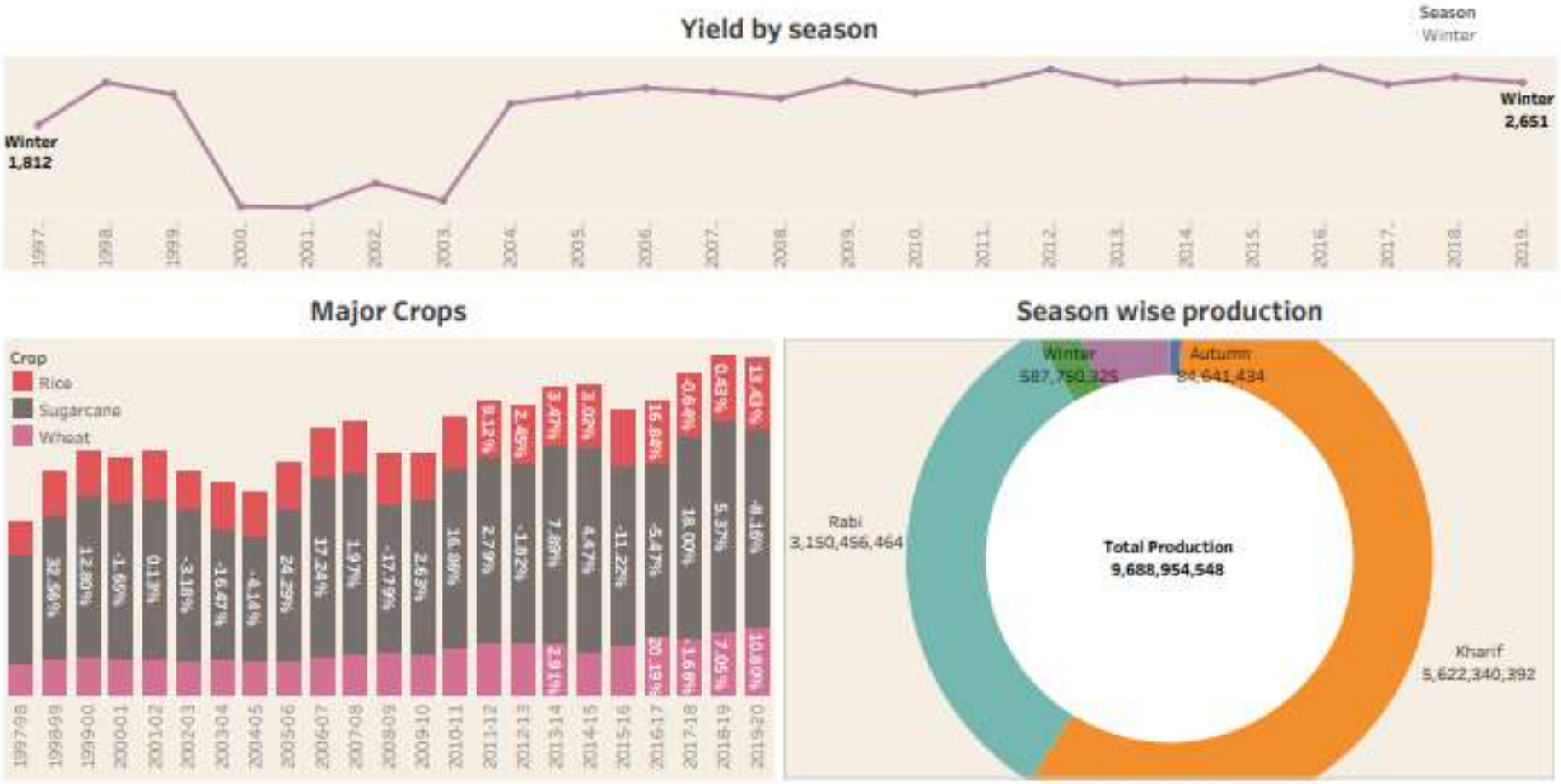


Area Vs Production

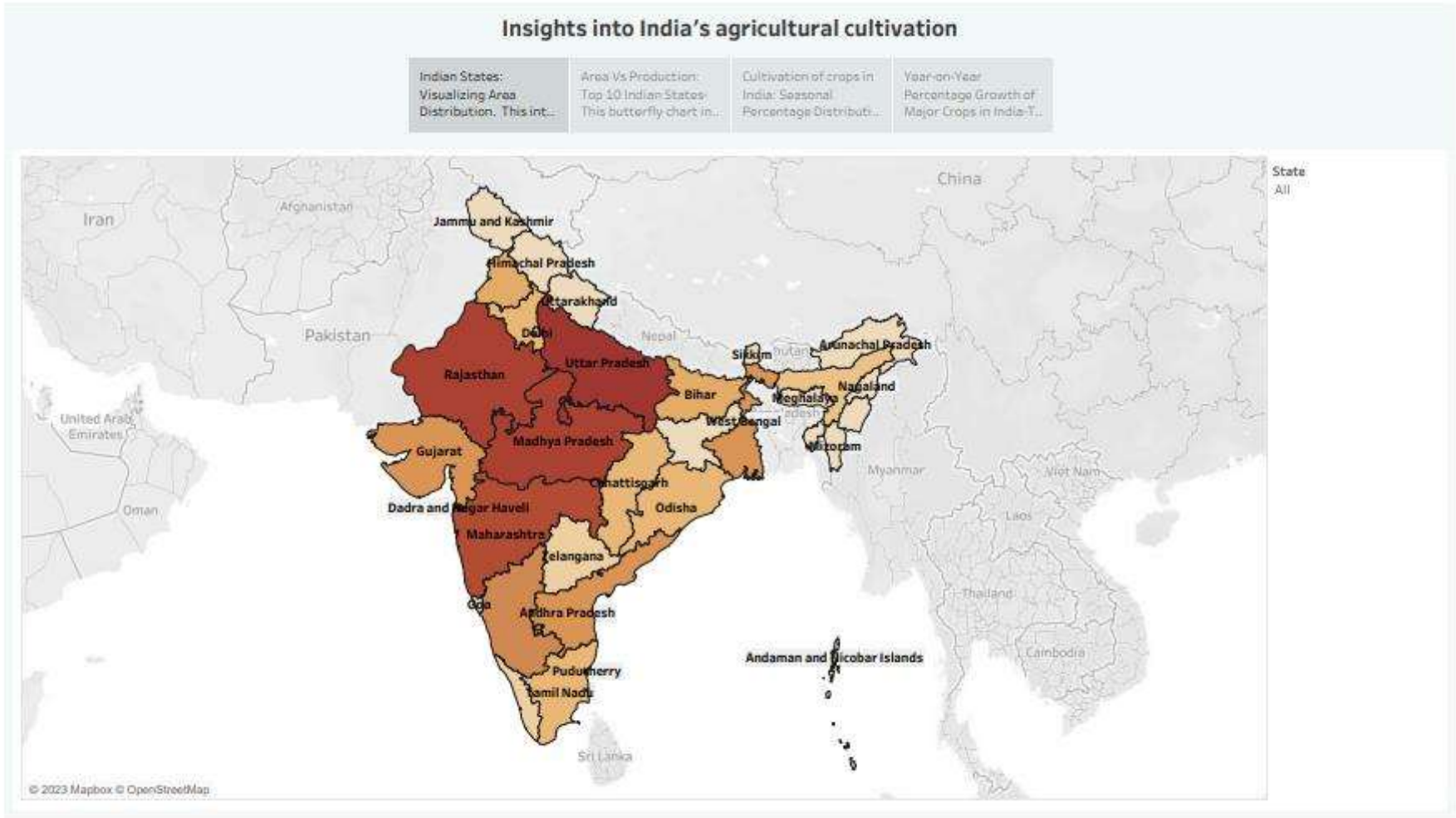
DASHBOARD 2


Production in tonnes region-wise
West
South
North-East
North
East
326,242,956,201
326,242,956,201
326,242,956,201
326,242,956,201
326,242,956,201
Season Based cultivation area
Season
Summer
Rice
66.51%
Bajra
5.18%
Banana
0.24%
Ginger
0.00%
Groundnut
6.67%
Maize
6.58%
Jowar
0.15%
Moong(Green Gram)
7.92%
Onion
0.34%
Ragi
0.20%
Sesamum
3.56%
Urad
1.24%
Tobacco
0.01%
Crop Plantation by Area
Wheat
Rice
Crops(Plantation by count)
Turmeric
Onion
Barley
Coconut
Gram
Other Rabi pulses
Jowar
Horse-gram
Soybean
Dry chillies
Sugarcane
Cotton(lint)
Wheat
Sesamum
Groundnut
Maize
Moong(Green Gram)
Linseed
Rapeseed &Mustard
Masoor
Rice
Potato
Peas & beans (Pulses)
Garlic
Arhar/Tur
Small millets
Castor seed
Sunflower
Urad
Sweet potato
Bajra
Coriander
Ragi

DASHBOARD 3


Yield by season
Season
Winter
Winter
1,812
Winter
2,651
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
Major Crops
Crop
Rice
Sugarcane
Wheat
1997-98
1998-99
1999-00
2000-01
2001-02
2002-03
2003-04
2004-05
2005-06
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
Season wise production
Winter
587,750,325
Autumn
84,641,434
Rabi
3,150,456,464
Total Production
9,688,954,548
Kharif
5,622,340,392

STORY


Insights into India's agricultural cultivation
Indian States: Visualizing Area Distribution. This int...
Area Vs Production: Top 10 Indian States: This butterfly chart in...
Cultivation of crops in India: Seasonal Percentage Distributi...
Year-on-Year Percentage Growth of Major Crops in India-T...
State
All
China
Iran
Afghanistan
Pakistan
Nepal
Bhutan
Jammu and Kashmir
Himachal Pradesh
Uttarakhand
Delhi
Rajasthan
Uttar Pradesh
Sikkim
Arunachal Pradesh
Nagaland
Bihar
Meghalaya
West Bengal
Mizoram
United Arab Emirates
Gujarat
Madhya Pradesh
Chhattisgarh
Odisha
Myanmar
Viet Nam
Laos
Oman
Dadra and Nagar Haveli
Maharashtra
Telangana
Goa
Andhra Pradesh
Thailand
Cambodia
Andaman and Nicobar Islands
Puducherry
Tamil Nadu
Sri Lanka
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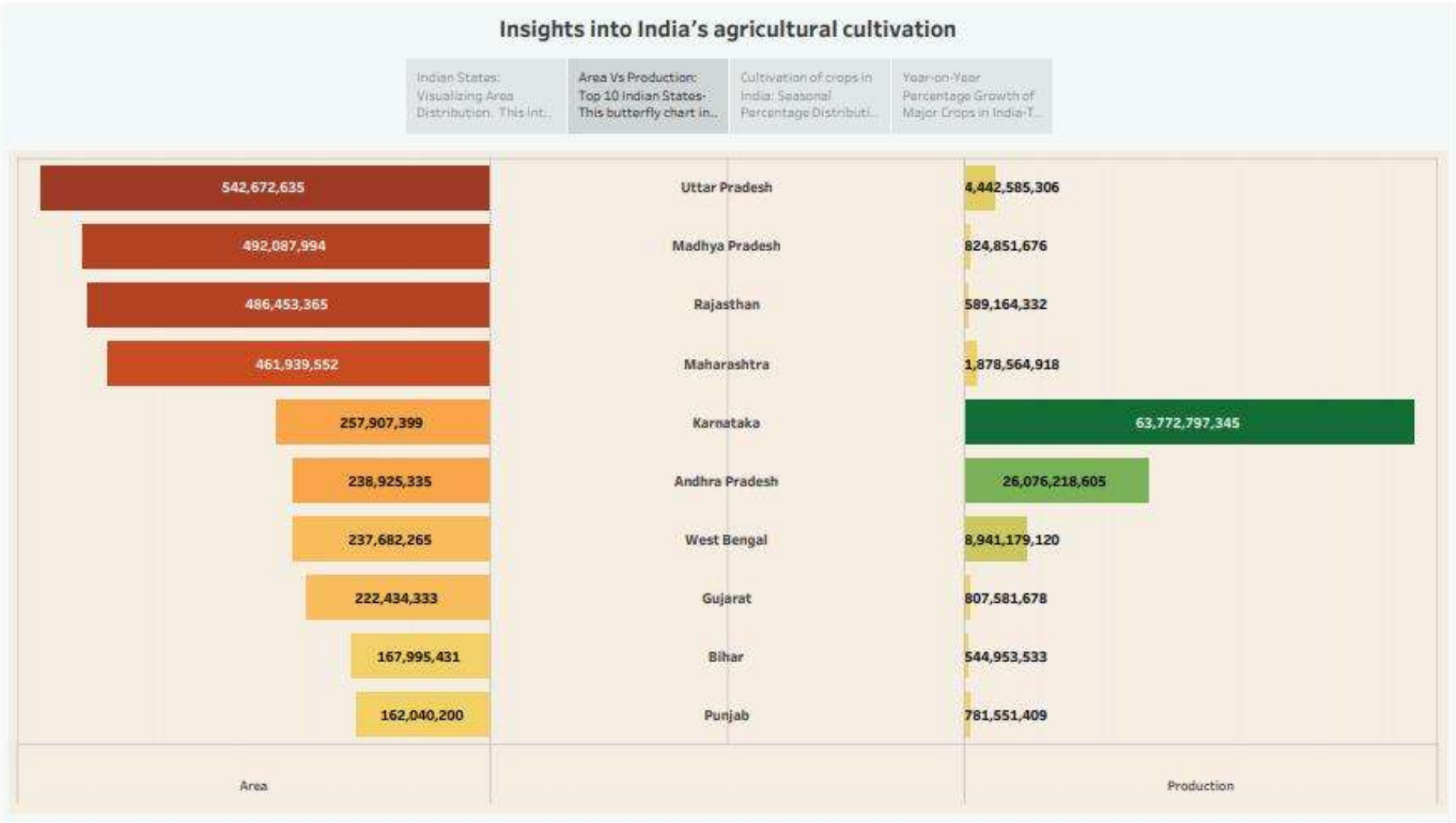
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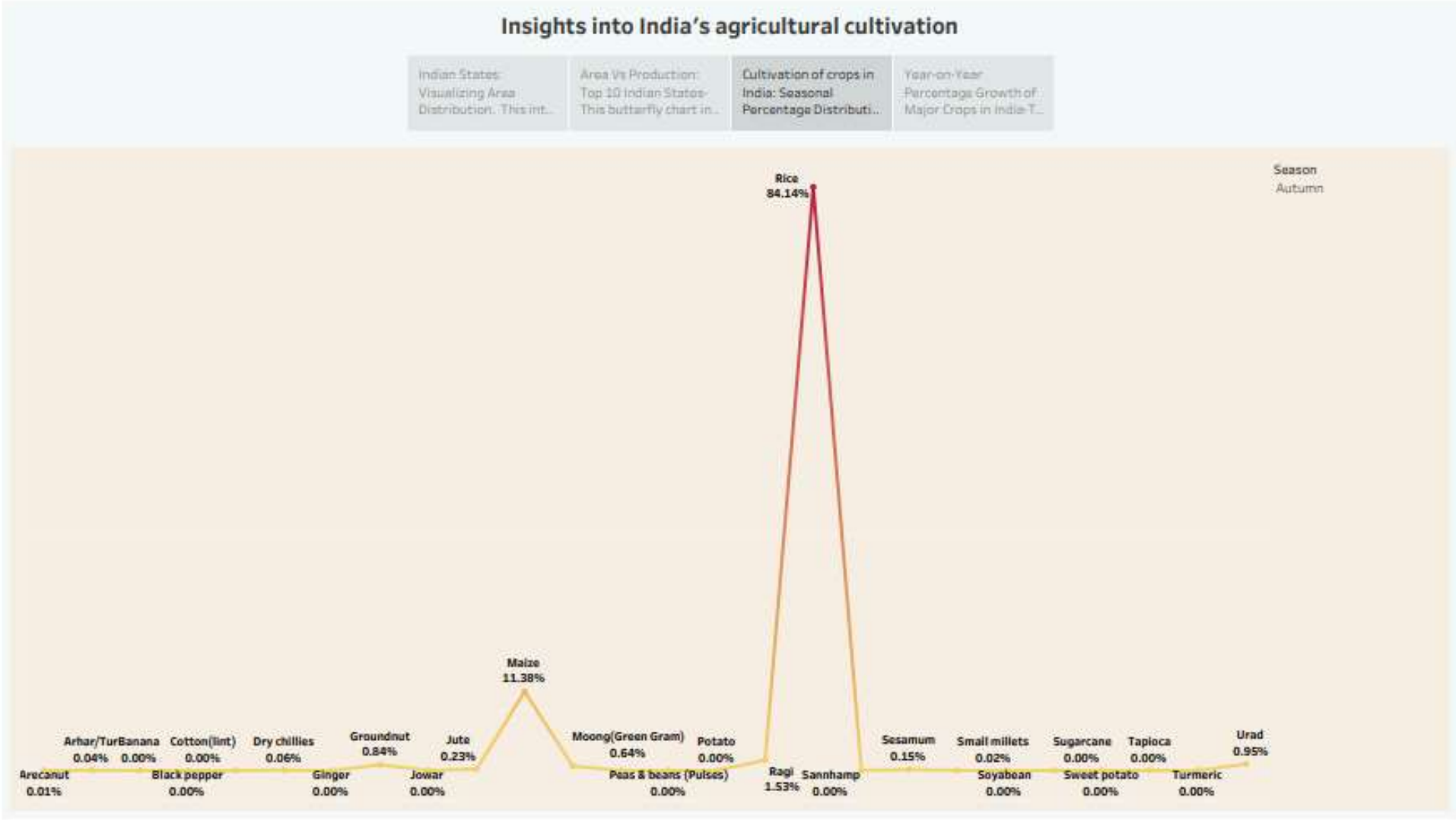
Area Vs Production: Top 10 Indian States- This butterfly chart in..
Cultivation of crops in India: Seasonal Percentage Distributi..
Year-on-Year Percentage Growth of Major Crops in India-T..
542,672,635
492,087,994
486,453,365
461,939,552
257,907,399
238,925,335
237,682,265
222,434,333
167,995,431
162,040,200
Uttar Pradesh
Madhya Pradesh
Rajasthan
Maharashtra
Karnataka
Andhra Pradesh
West Bengal
Gujarat
Bihar
Punjab
4,442,585,306
824,851,676
589,164,332
1,878,564,918
63,772,797,345
26,076,218,605
8,941,179,120
807,581,678
544,953,533
781,551,409
Area
Production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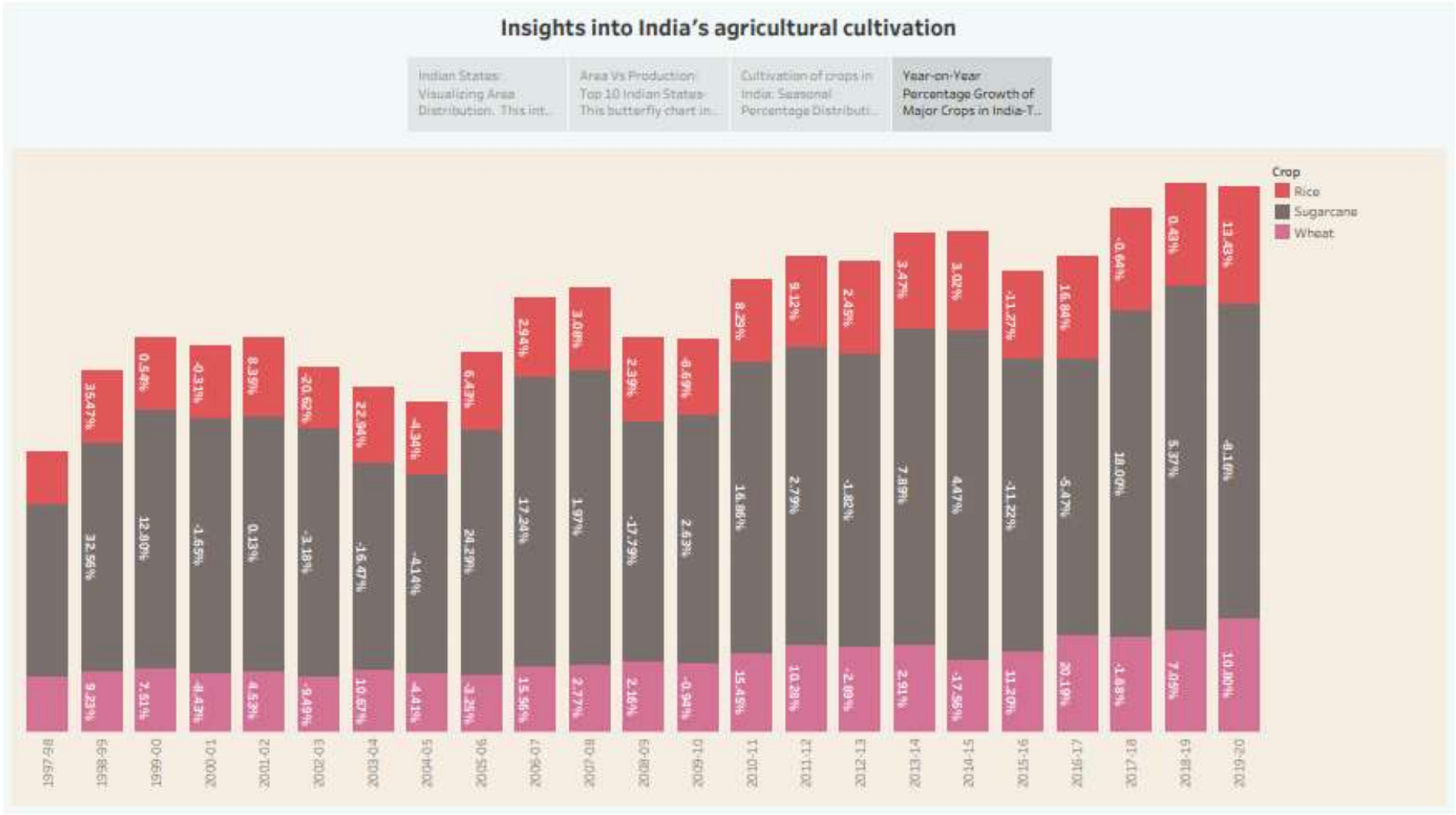
Area Vs Production: Top 10 Indian States- This butterfly chart in...
Cultivation of crops in India: Seasonal Percentage Distributi...
Year-on-Year Percentage Growth of Major Crops in India-T...
Season
Autumn
Rice 84.14%
Maize 11.38%
Arecanut 0.01%
Arhar/Tur 0.04%
Banana 0.00%
Black pepper 0.00%
Cotton(lint) 0.00%
Dry chillies 0.06%
Ginger 0.00%
Groundnut 0.84%
Jowar 0.00%
Jute 0.23%
Moong(Green Gram) 0.64%
Peas & beans (Pulses) 0.00%
Potato 0.00%
Ragi 1.53%
Sannhamp 0.00%
Sesamum 0.15%
Soyabean 0.00%
Small millets 0.02%
Sugarcane 0.00%
Sweet potato 0.00%
Tapioca 0.00%
Turmeric 0.00%
Urad 0.95%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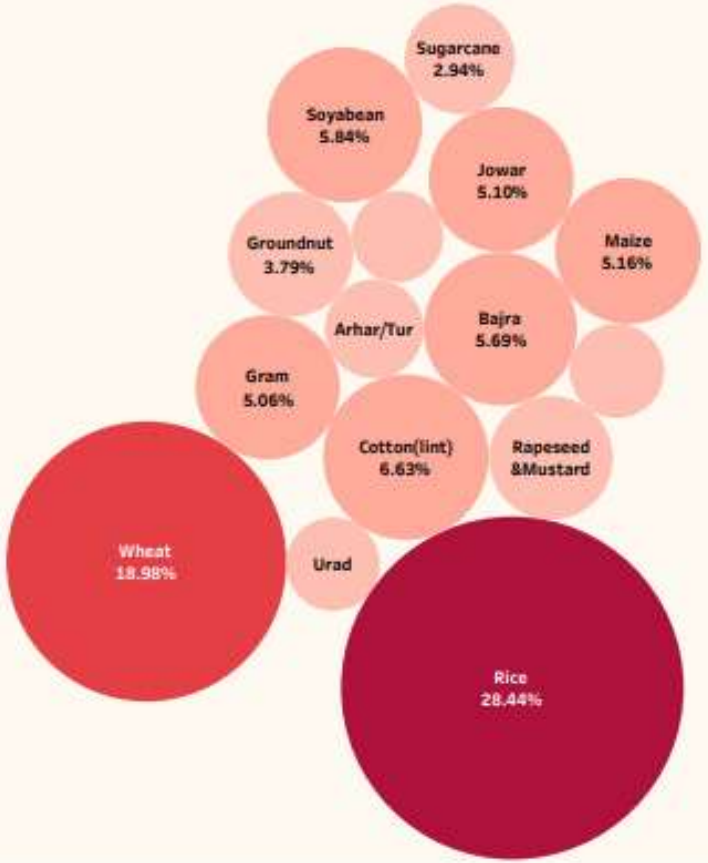
Cultivation of crops in India: Seasonal Percentage Distributi..
Year-on-Year Percentage Growth of Major Crops in India-T..
Crop
Rice
Sugarcane
Wheat
1997-98
98-99
99-00
00-01
01-02
02-03
03-04
04-05
05-06
06-07
07-08
08-09
09-10
10-11
11-12
12-13
13-14
14-15
15-16
16-17
17-18
18-19
19-20

Insights into India's agricultural cultivation

Crop Planting Percentage: This chart showcases the perce...	Crop Yield Growth: Year wise Analysis-This line cha...	Word Cloud: The following word cloud gives a representatio...	Crop Production in Tonnes: Season-This donut chart visually r...



Insights into India's agricultural cultivation

Crop Planting Percentage:This chart showcases the perce...

Crop Yield Growth: Year wise Analysis-This line cha...

Word Cloud: The following word cloud gives a representatio...

Crop Production in Tonnes: Season-This donut chart visually r...

Insights into India's agricultural cultivation

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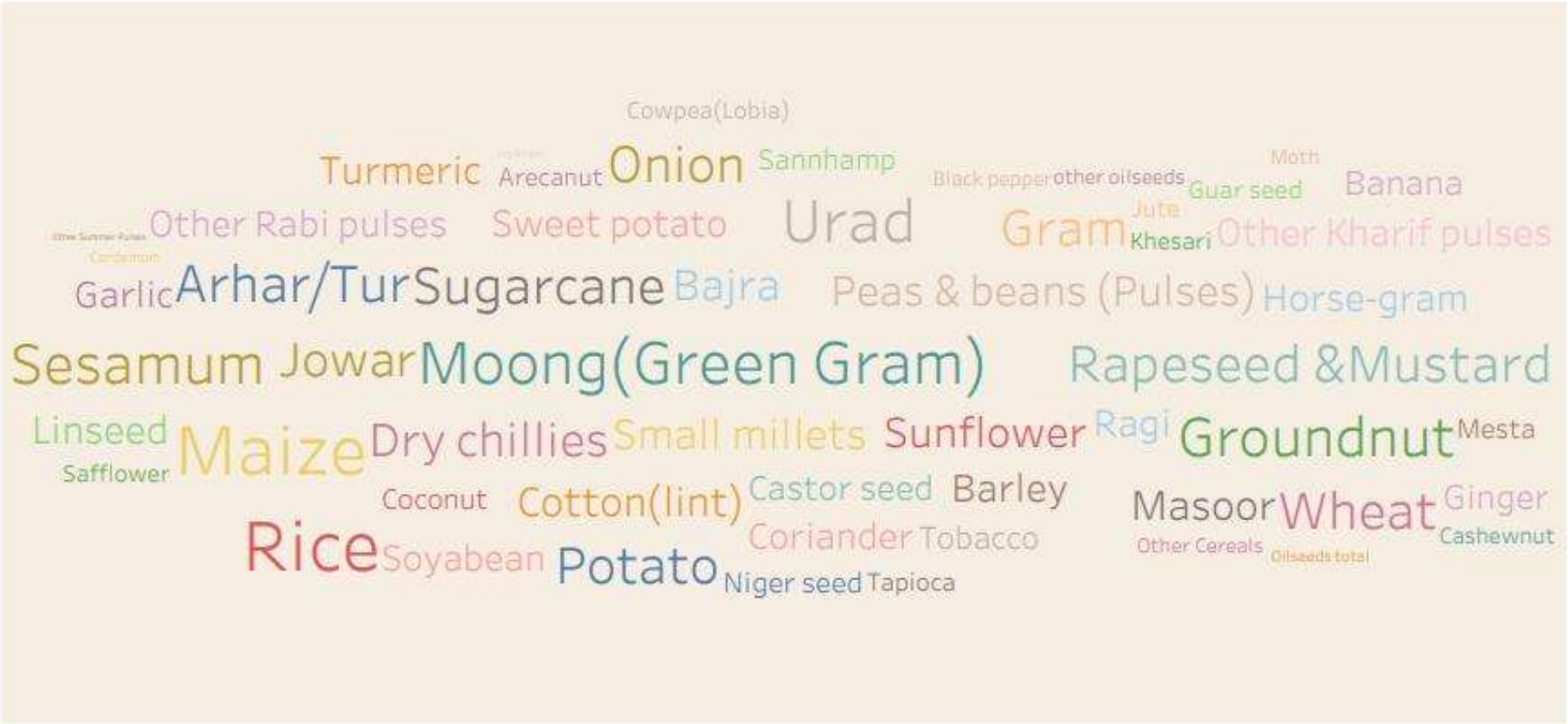

Insights into India's agricultural cultivation

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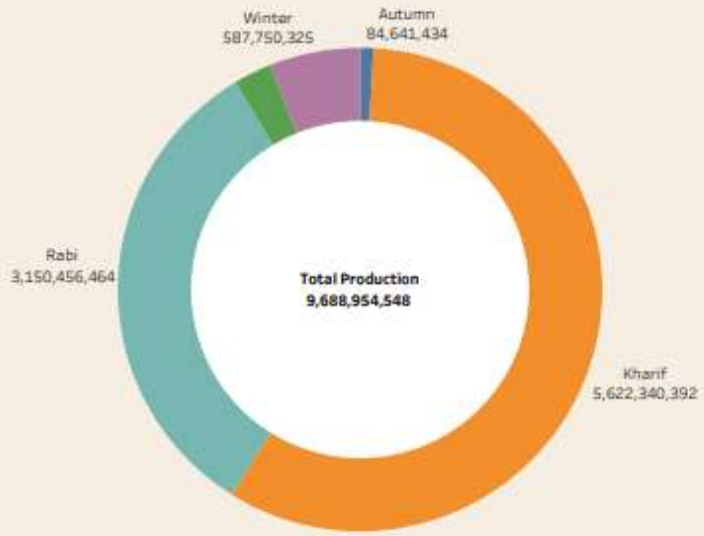

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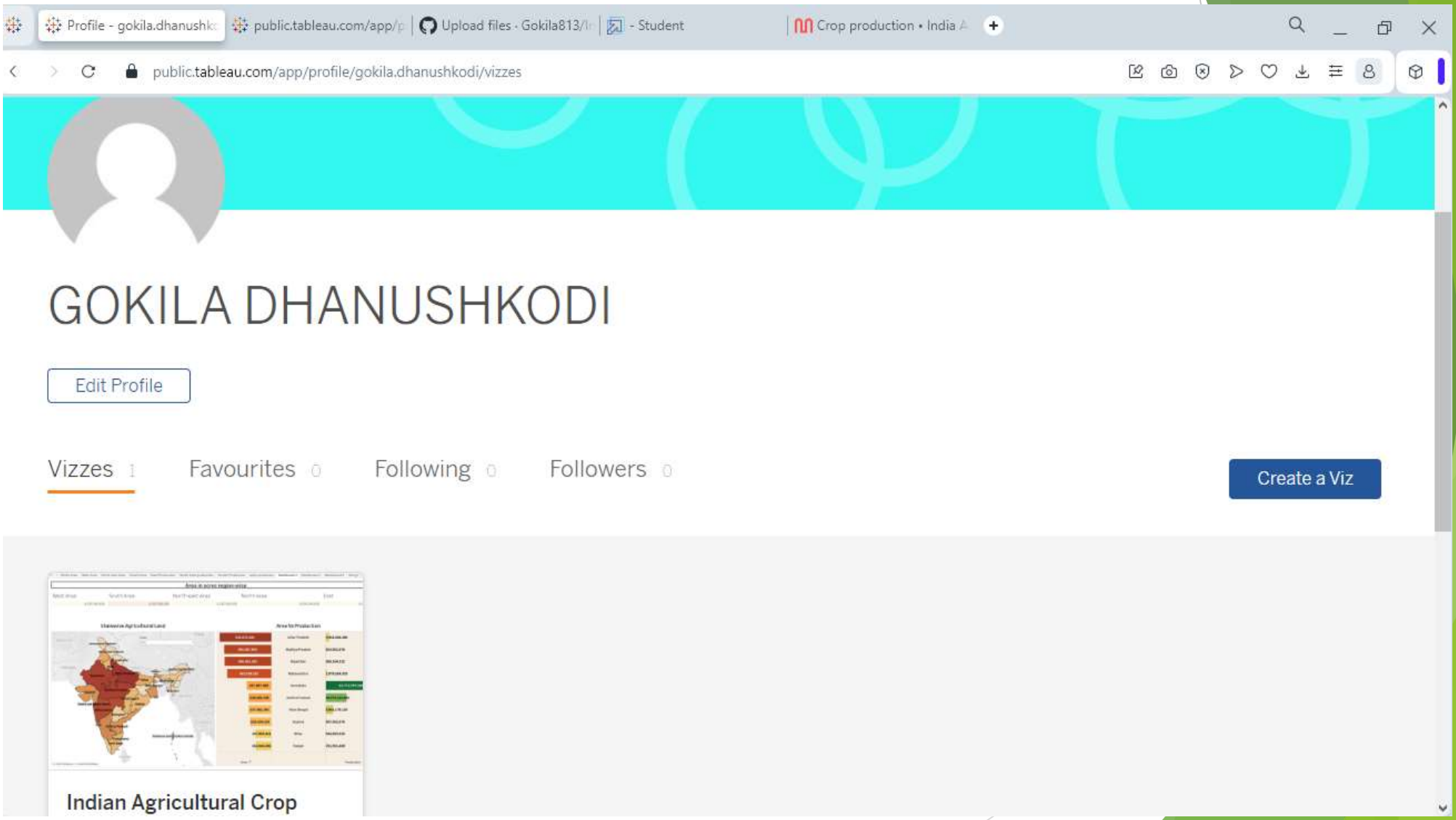
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Upload files · Gokila813/
- Student
Crop production • India A
public.tableau.com/app/profile/gokila.dhanushkodi/vizzes
GOKILA DHANUSHKODI
Edit Profile
Vizzes 1
Favourites 0
Following 0
Followers 0
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Indian Agricultural Crop

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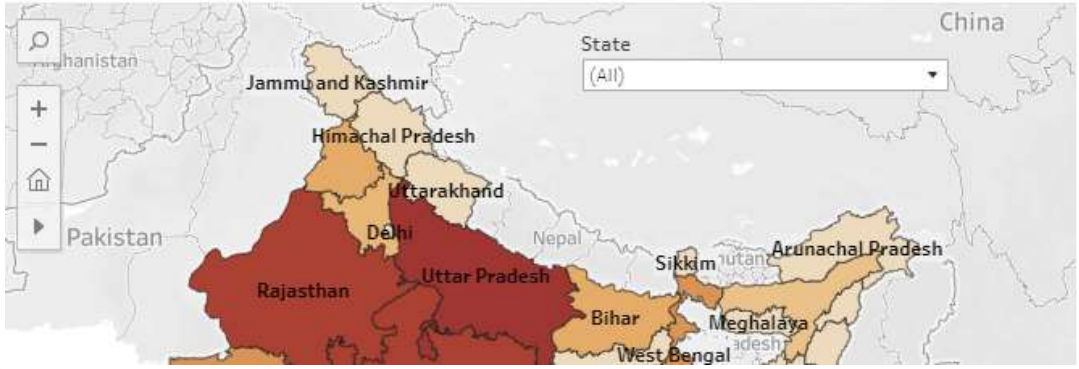
Indian Agricultural Crop Production by GOKILA DHANUSHKODI

Statewise Agricultural Land | Area vs Production | Yield by season | Crop plantation by Area | Major Crops | Crops | Season wise Production | East area | Season Based cultivation area | North A

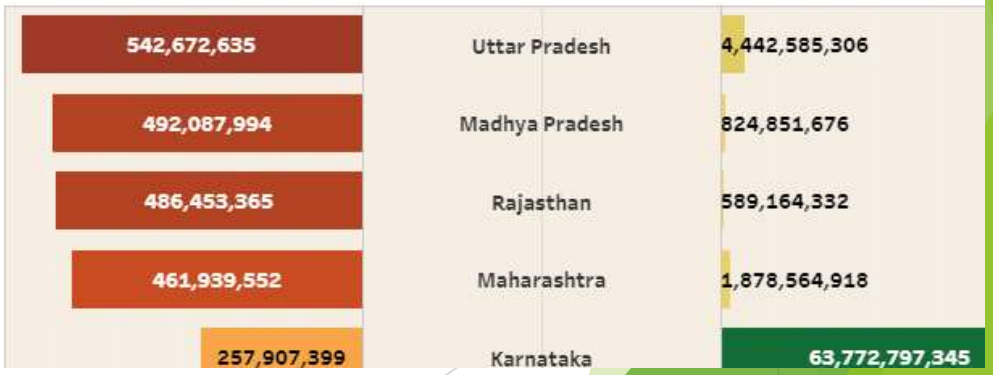
Area in acres region-wise

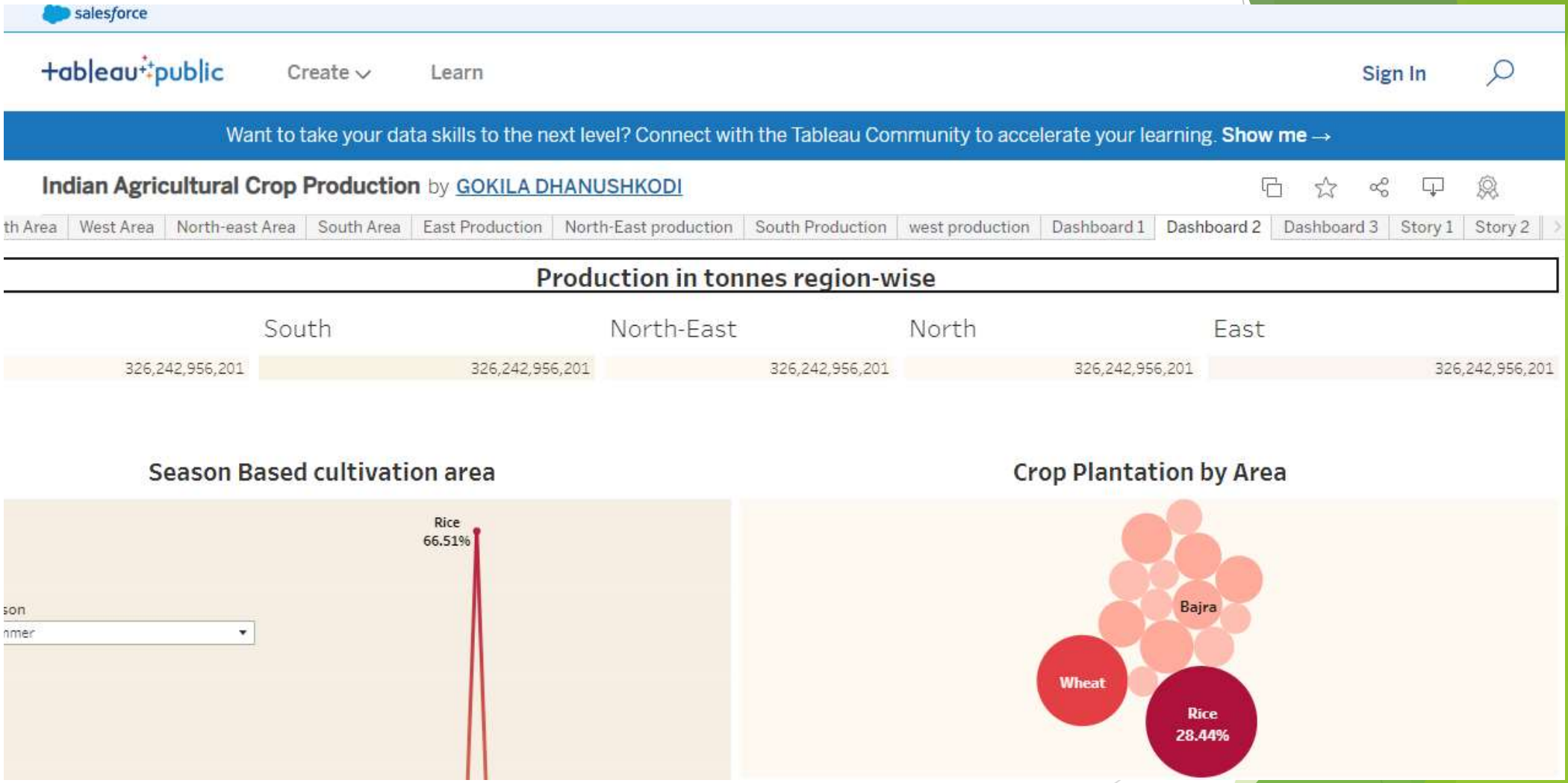
West Area	South Area	North-east Area	North Area	East
4,030,580,636	4,030,580,636	4,030,580,636	4,030,580,636	4,030

Statewise Agricultural Land



Area Vs Production

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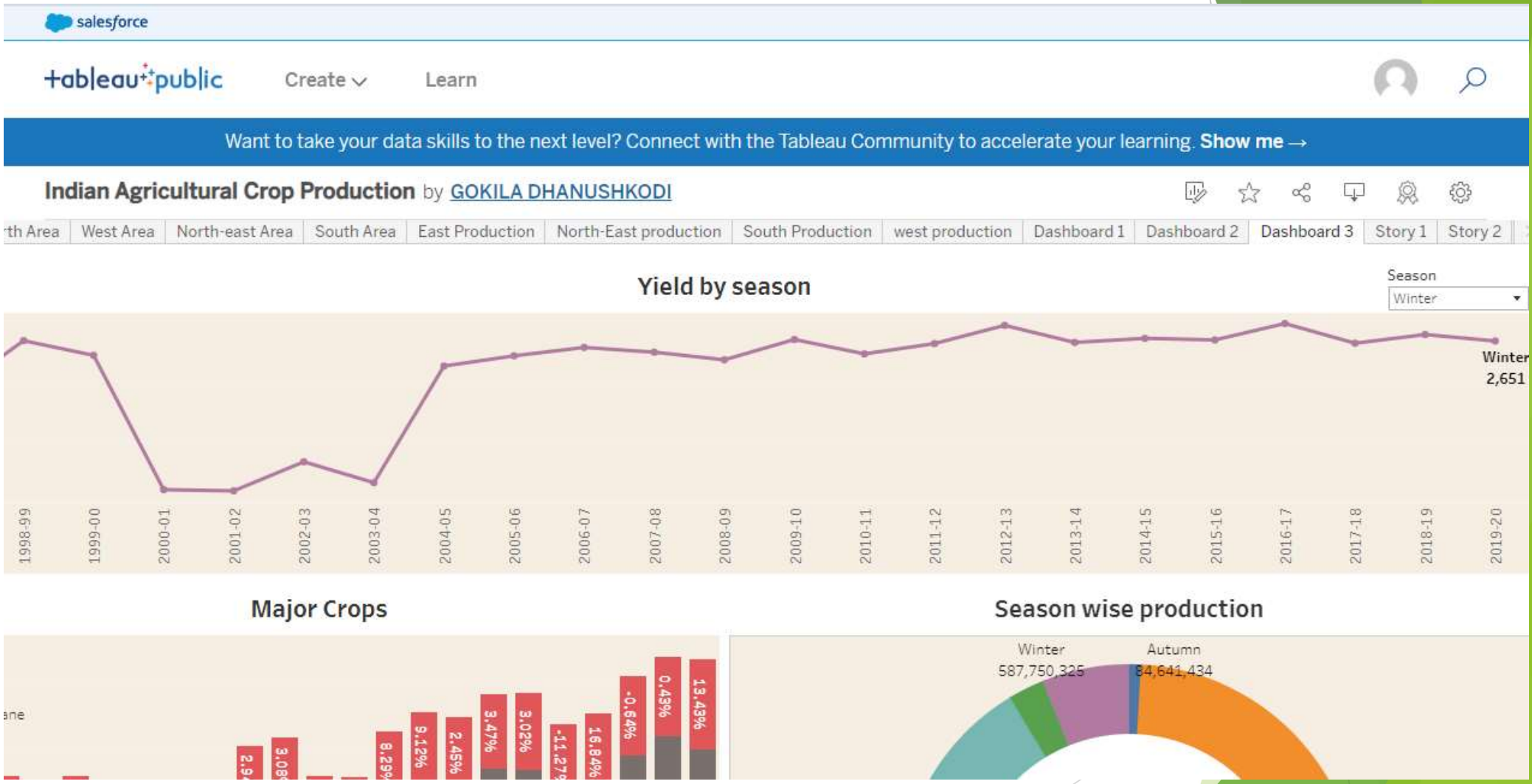
Indian Agricultural Crop Production by GOKILA DHANUSHKODI
th Area
West Area
North-east Area
South Area
East Production
North-East production
South Production
west production
Dashboard 1
Dashboard 2
Dashboard 3
Story 1
Story 2
Production in tonnes region-wise
South
North-East
North
East
326,242,956,201
326,242,956,201
326,242,956,201
326,242,956,201
326,242,956,201
Season Based cultivation area
Rice
66.51%
Crop Plantation by Area
Bajra
Wheat
Rice
28.44%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Indian Agricultural Crop Production by GOKILA DHANUSHKODI
th Area
West Area
North-east Area
South Area
East Production
North-East production
South Production
west production
Dashboard 1
Dashboard 2
Dashboard 3
Story 1
Story 2
Yield by season
Season
Winter
Winter
2,651
1998-99
1999-00
2000-01
2001-02
2002-03
2003-04
2004-05
2005-06
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
Major Crops
ane
2.9
3.08
8.29%
9.12%
2.45%
3.47%
3.02%
-11.27%
16.84%
-0.64%
0.43%
13.43%
Season wise production
Winter
587,750,325
Autumn
84,641,434

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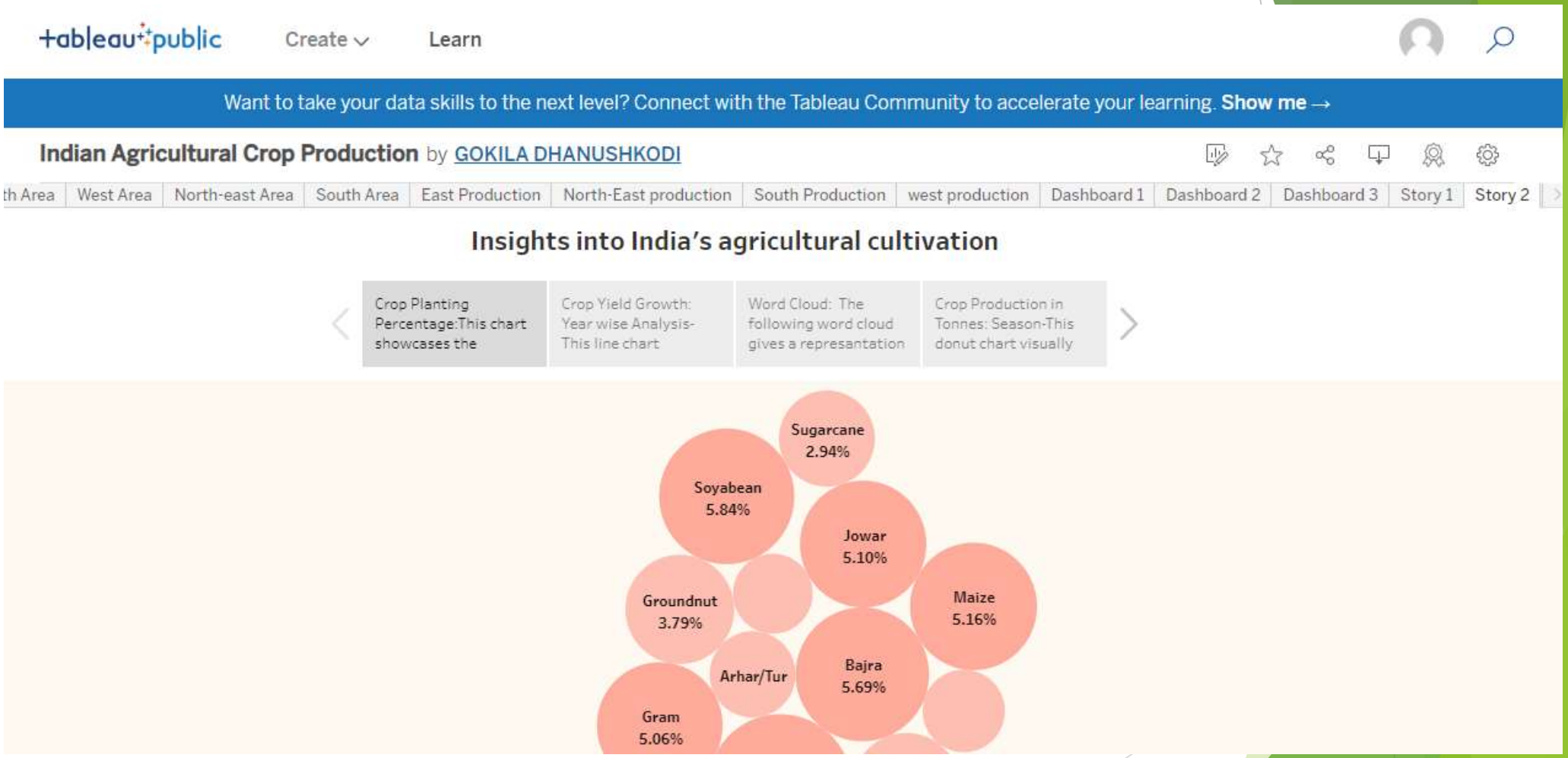
Learn
Want to take your data skills to the next level? Connect with the Tableau Community to accelerate your learning. Show me →
Indian Agricultural Crop Production by GOKILA DHANUSHKODI
Area
West Area
North-east Area
South Area
East Production
North-East production
South Production
west production
Dashboard 1
Dashboard 2
Dashboard 3
Story 1
Story 2
Insights into India's agricultural cultivation
Indian States: Visualizing Area Distribution. This
Area Vs Production: Top 10 Indian States- This butterfly chart in
Cultivation of crops in India: Seasonal Percentage
Year-on-Year Percentage Growth of Major Crops in India-
China
Afghanistan
Pakistan
Nepal
Jammu and Kashmir
Himachal Pradesh
Uttarakhand
Delhi
Rajasthan
Uttar Pradesh
Bihar
Sikkim
Arunachal Pradesh
Nagaland
Meghalaya
West Bengal
Mizoram
Gujarat
Madhya Pradesh
State
(All)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Create
Learn
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Indian Agricultural Crop Production by GOKILA DHANUSHKODI
th Area
West Area
North-east Area
South Area
East Production
North-East production
South Production
west production
Dashboard 1
Dashboard 2
Dashboard 3
Story 1
Story 2
Insights into India's agricultural cultivation
Crop Planting Percentage:This chart showcases the
Crop Yield Growth: Year wise Analysis- This line chart
Word Cloud: The following word cloud gives a represantation
Crop Production in Tonnes: Season-This donut chart visually
Sugarcane 2.94%
Soyabean 5.84%
Jowar 5.10%
Groundnut 3.79%
Maize 5.16%
Arhar/Tur
Bajra 5.69%
Gram 5.06%

THANK YOU