

# India's Agricultural Crop Production Analysis(1997-2021)

## Introduction

### Overview

- Crop production is a common agricultural practice followed by worldwide farmers to grow and produce crops to use as food and fibre. This practice includes all the feed sources that are required to maintain and practice crops. Listed below are few practices used during crop production.
  - Preparation of Soil.
  - Sowing of Seeds.
  - Irrigation.
  - Application of manure, pesticides and fertilizers to the crops.
  - Protecting and Harvesting crops.
  - Storage and Preserving the product crops.

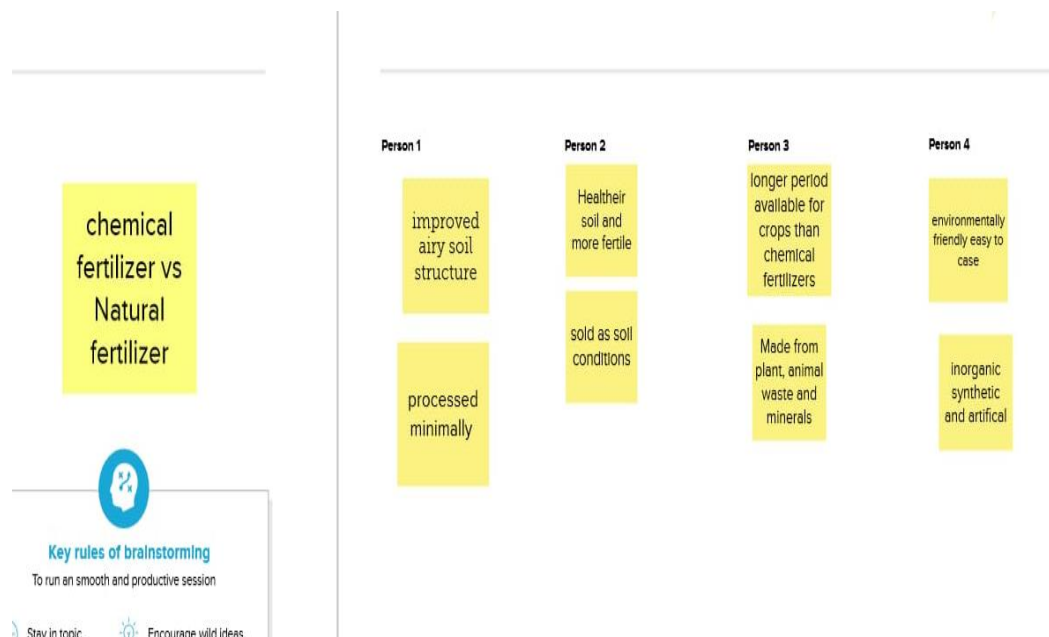
### Purpose

- Food is the major source of energy. Every living organism on this planet needs food to stay alive and to continue all other essential life processes. Plants are the main source of food on which both humans and animals depend. We cannot imagine life without food.
- With the rapidly growing population, demand for more food, loss of produced crops, and other problems in the agricultural output are the main reasons for the scarcity of food and are the biggest concern in some parts of the world facing today. This has led to an increase in the requirement of strategies that can help in the management of the crops produced.

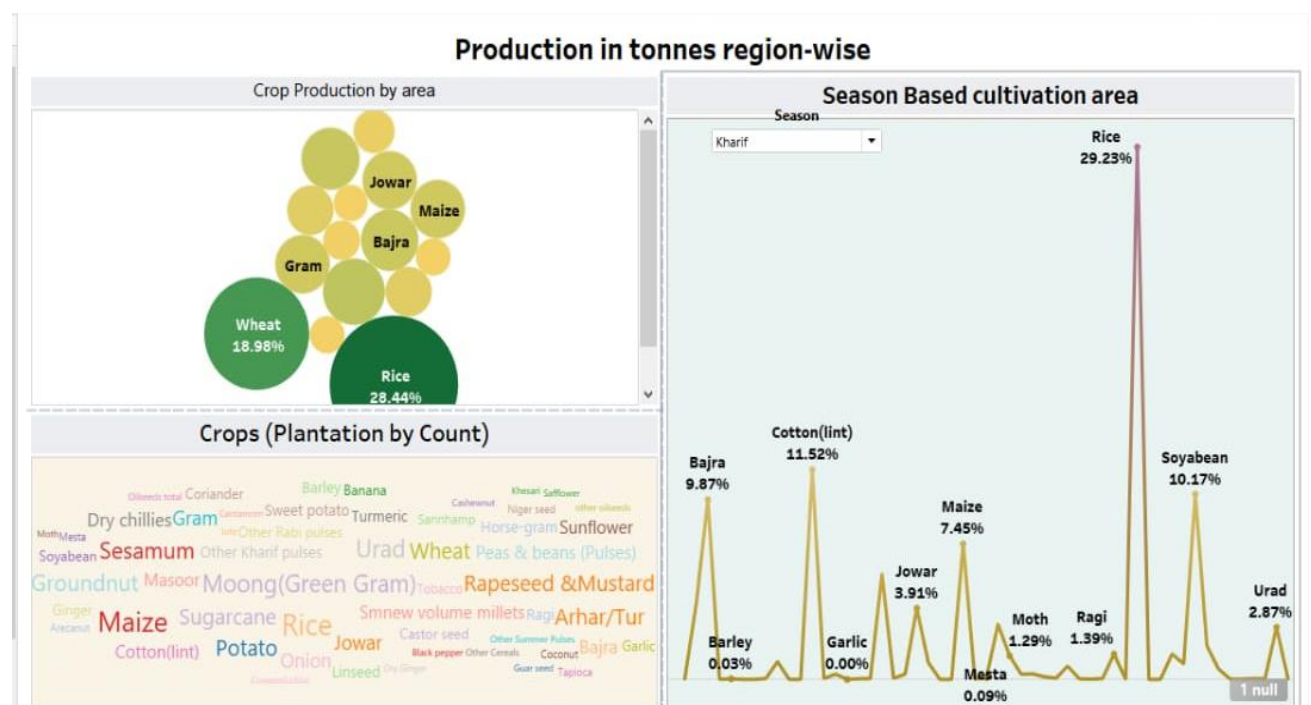
## Problem Defining & Design Thinking

### Empathy Map





## Result



### Area in acres region-wise

statewise agriculture

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#### Area Vs Production

State	Area	Production
Uttar Pradesh	542,672,635	4,442,585,306
Madhya Pradesh	492,087,994	824,851,676
Rajasthan	486,453,365	589,164,332
Maharashtra	461,939,552	1,878,564,918
Karnataka	257,907,399	63,772,797,345
Andhra Pradesh	238,925,335	26,076,218,605
West Bengal	237,682,265	8,941,179,120
Gujarat	222,434,333	807,581,678
Bihar	167,995,431	544,953,533
Punjab	162,040,200	781,551,409
	Area	Production



- With the help of the map one can know how much yield is coming from which state.
- With the help of the map one can how farmer land is coming from which state

- It is impossible to know what to grow in a state's agricultural land

## Applications

- This category includes fertilizers, herbicides, pesticides, rodenticides, fumigants and other inputs/applications for improved agricultural performance

## Conclusion

- The agricultural sector is of vital importance for the region. It is undergoing a process of transition to a market economy, with substantial changes in the social, legal, structural, productive and supply set-ups, as is the case with all other sectors of the economy.

## Future Scope

- There will be more of vetical and urban farming and there will also be efforts in long term to find new areas for production like barren deserts and seawater.

## Appendix

[https://public.tableau.com/views/agriculturestory1\\_16968273276380/Story1?:language=en-US&:display\\_count=n&:origin=viz\\_share\\_link](https://public.tableau.com/views/agriculturestory1_16968273276380/Story1?:language=en-US&:display_count=n&:origin=viz_share_link)

[https://public.tableau.com/views/agriculturestory2\\_16968275650590/Story2?:language=en-US&:display\\_count=n&:origin=viz\\_share\\_link](https://public.tableau.com/views/agriculturestory2_16968275650590/Story2?:language=en-US&:display_count=n&:origin=viz_share_link)