

## SPRINT 2 DELIVERABLES

TEAM ID: **PNT2022TMID21477**

WORK DONE: **Dashboard with useful insights for further work with respect to predictive analysis for CROP PREDICTION**

Tool used: Cognos analytics by IBM

Link of work done:

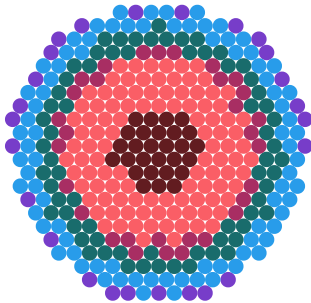
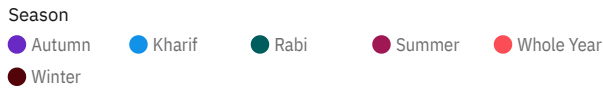
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### Insights:

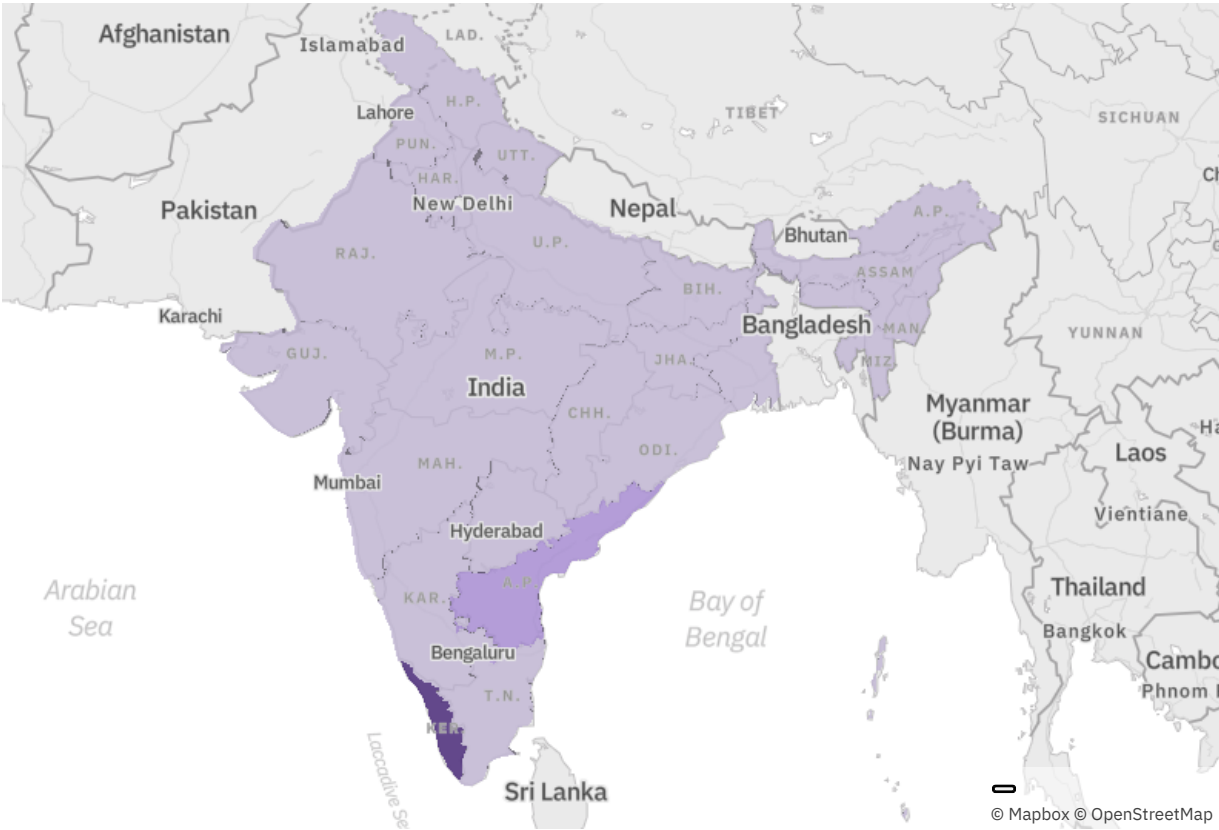
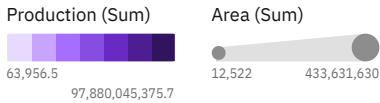
- For Total production area, most significant values of Season are **Kharif and Rabi**, whose respective Area values add up to almost 2.0 billion, or 84.3 % of the total. Area is unusually high when Season is Kharif.
- For Area, the most significant value of State\_Name is **Uttar Pradesh**, whose respective Area values add up to almost 434 million, or 18.7 % of the total.
- Area is unusually high when the combinations of Season and State\_Name are **Rabi and Uttar Pradesh, Kharif and Maharashtra, Kharif and Uttar Pradesh and Kharif and Madhya Pradesh**. Area is unusually high when State\_Name is **Uttar Pradesh**.
- Area ranges from almost **13000**, when State\_Name is Chandigarh, to nearly **434 million**, when State\_Name is **Uttar Pradesh**.
- Production ranges from over **64 million**, when Season is **Autumn**, to approximately **134 billion**, when Season is **Whole Year**.
- For Area, the most significant values of Season are **Kharif and Rabi**, whose respective Area values add up to nearly **2.4 billion**, or 79.7 % of the total. Area ranges from over **48 million**, when Season is **Autumn**, to over **1.4 billion**, when Season is **Kharif**. Area is unusually high when Season is **Kharif**.
- Production ranges from nearly 64 thousand, when State\_Name is **Chandigarh**, to approximately 98 billion, when State\_Name is **Kerala**. Production is unusually high when State\_Name is **Kerala, Andhra Pradesh and Tamil Nadu**.
- For Production, the most significant values of Crop\_Year are **2011 and 2013**, whose respective Production values add up to approximately **27 billion**, or 19.3 % of the total. Production ranges from over 6.9 million, when Crop\_Year is 2015, to approximately 14 billion, when Crop\_Year is 2011. Production is most unusual when Crop\_Year is **2015, 2011 and 1997**.
- For Production, the most significant values of District\_Name are **KOZHICODE and MALAPPURAM**, whose respective Production values add up to approximately 30 billion, or 21.1 % of the total. Production ranges from 2, when District\_Name is **MUMBAI**, to approximately 15 billion, when District\_Name is **KOZHICODE**. Production is unusually high when District\_Name is **KOZHICODE and MALAPPURAM**.
- For Production, the most significant value of State\_Name is **Kerala**, whose respective Production values add up to approximately 98 billion, or 69.3 % of the total. Production is unusually high when State\_Name is **Kerala, Andhra Pradesh and Tamil Nadu**. Production is unusually high when the combinations of State\_Name and Crop\_Year are **Kerala and 2005, Tamil Nadu and 2011, Kerala and 2006, Kerala and 2004, Kerala and 2014 and more**.
- For Production, the most significant value of State\_Name is **Uttar Pradesh**, whose respective Production values add up to over 2.2 billion, or 39.8 % of the total.
- Production is unusually high when State\_Name is **Uttar Pradesh**. Production is unusually high when the combination of Crop and State\_Name is **Sugarcane and Uttar Pradesh**.
- Regarding Rice production For Area of production, the most significant values of State\_Name are **Uttar Pradesh, West Bengal, and Odisha**, whose respective Area values add up to almost 292 million, or 39 % of the total. For Area, the most significant value of Season is Kharif, whose respective Area values add up to over 420 million, or 56.2 % of the total. Area is unusually high when Season is Kharif. Area is unusually high when State\_Name is **Uttar Pradesh, West Bengal and Odisha**.
- With respect to sugarcane Production ranges from nearly 64 thousand, when State Name is **Chandigarh**, to approximately 98 billion, when State Name is **Kerala**. Production is unusually high when State Name is **Kerala, Andhra Pradesh and Tamil Nadu**. Sugarcane production is directly proportional to area
- **Coconut production:** Coconut production is directly proportional to area. It's production is also gradually increasing over a time of period and its production is high in Kerala. It does not depends on season

Tab 1

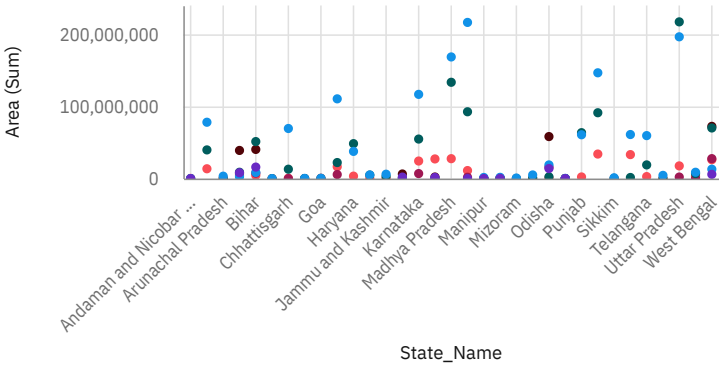
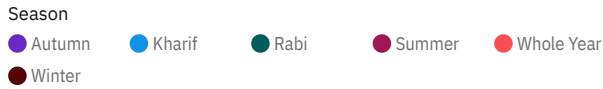
Crop and season



Statewise area and production

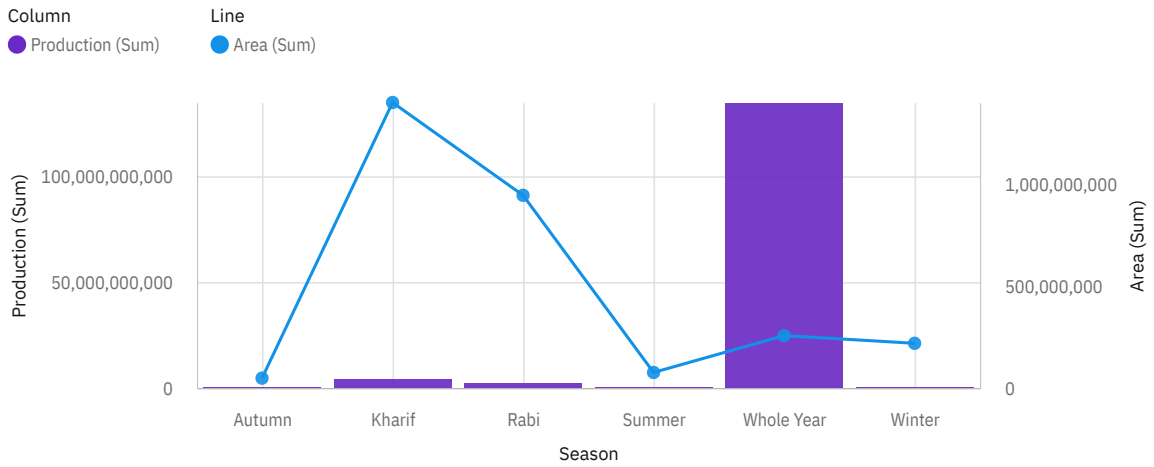


Area by StateName and Season

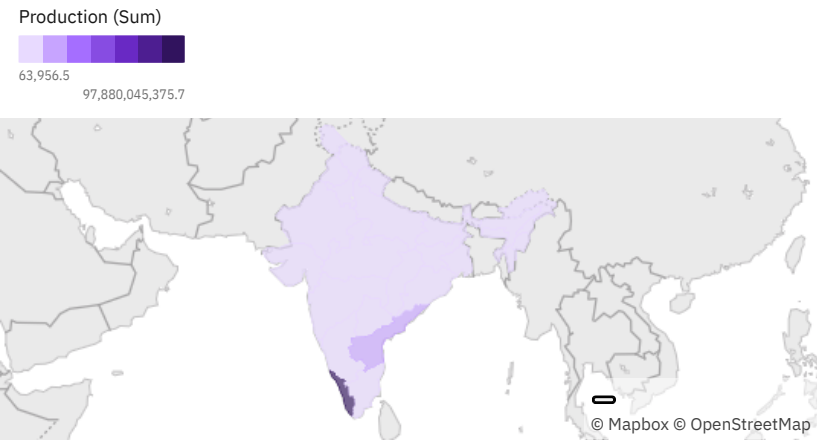


Tab 2

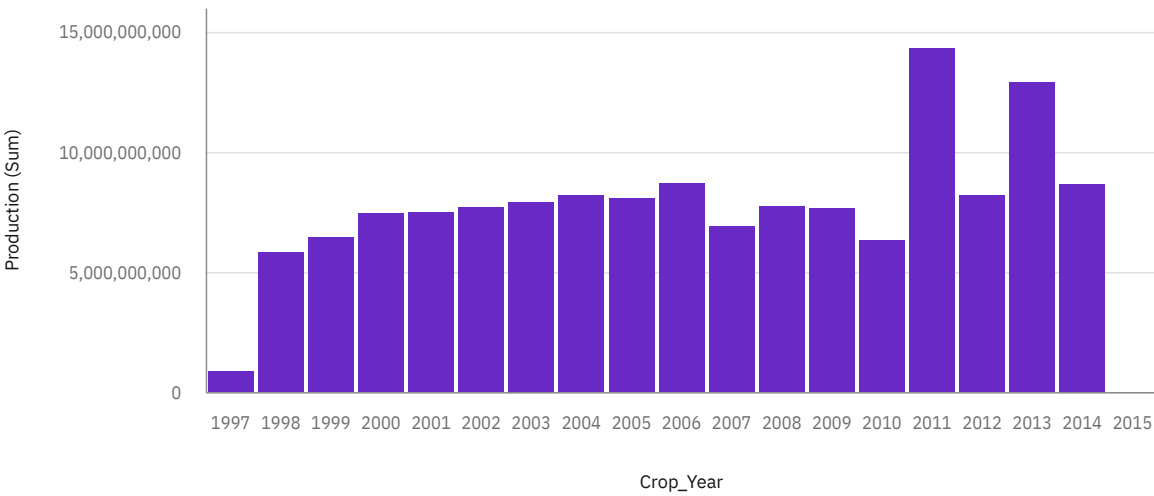
Area and Production by Season



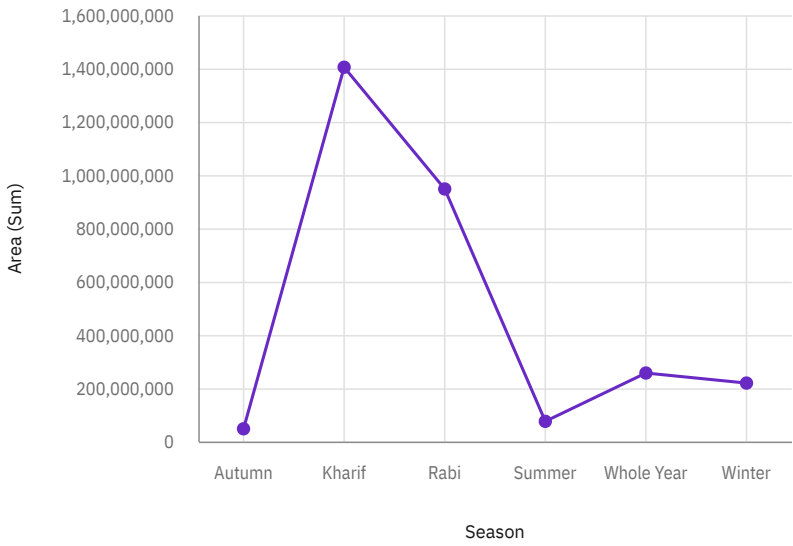
Production for State\_Name regions



Production by Crop\_Year

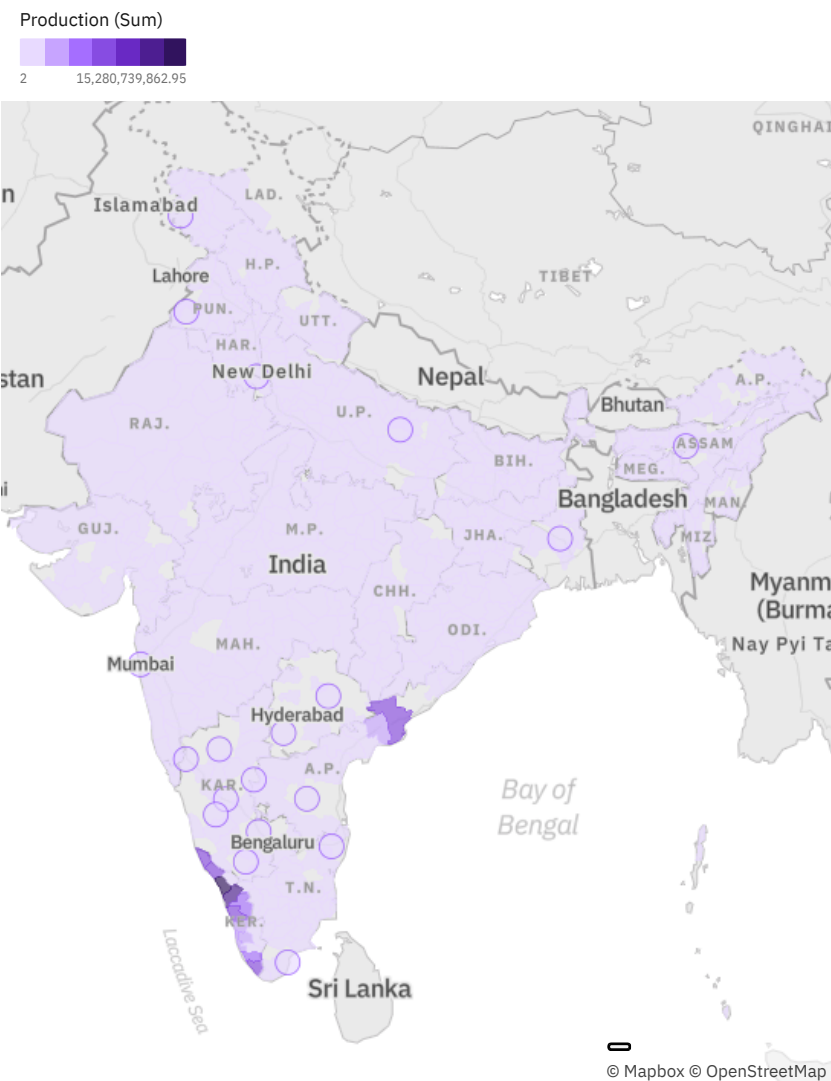


Area by Season

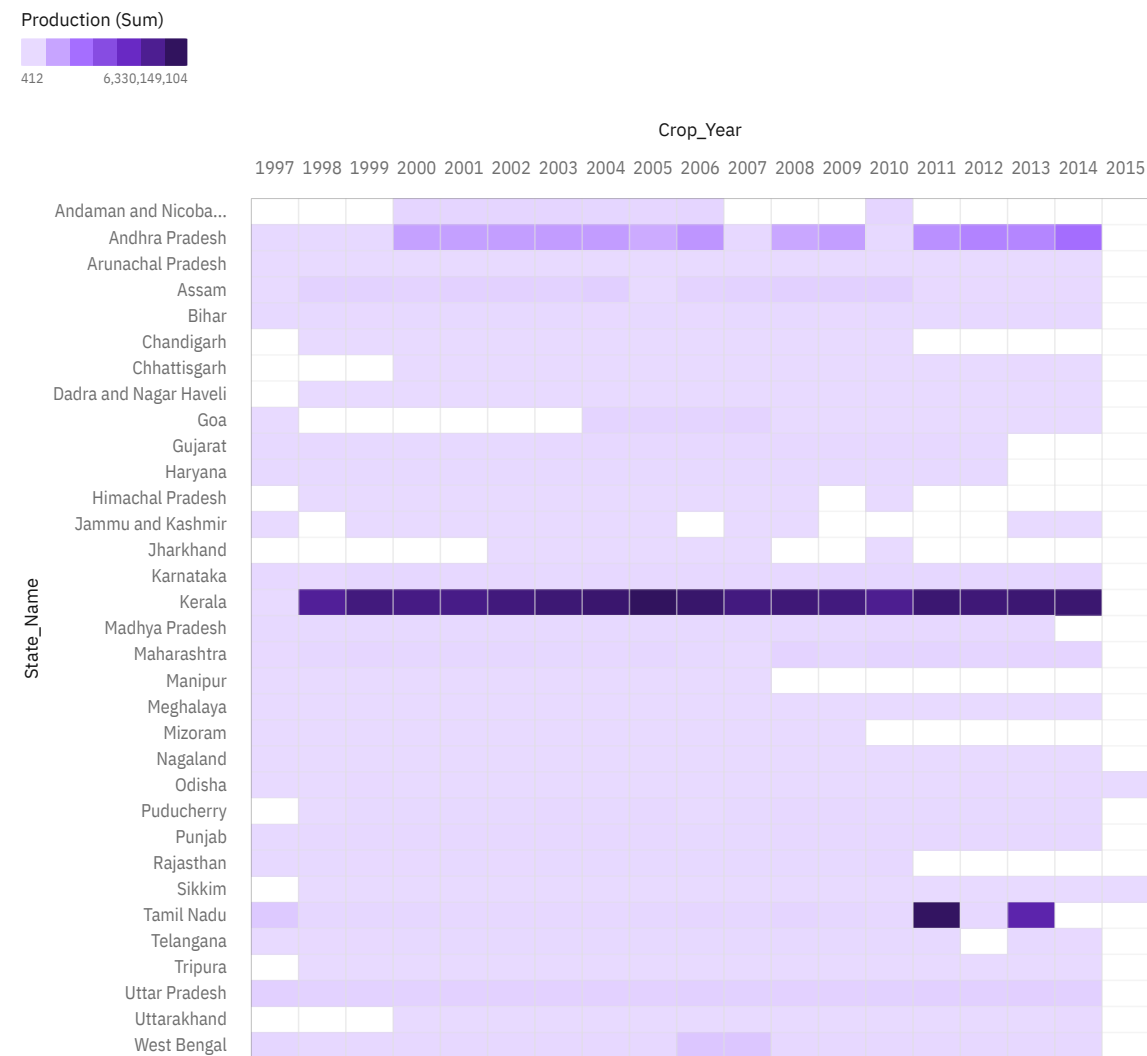


### Tab 3

### District wise production

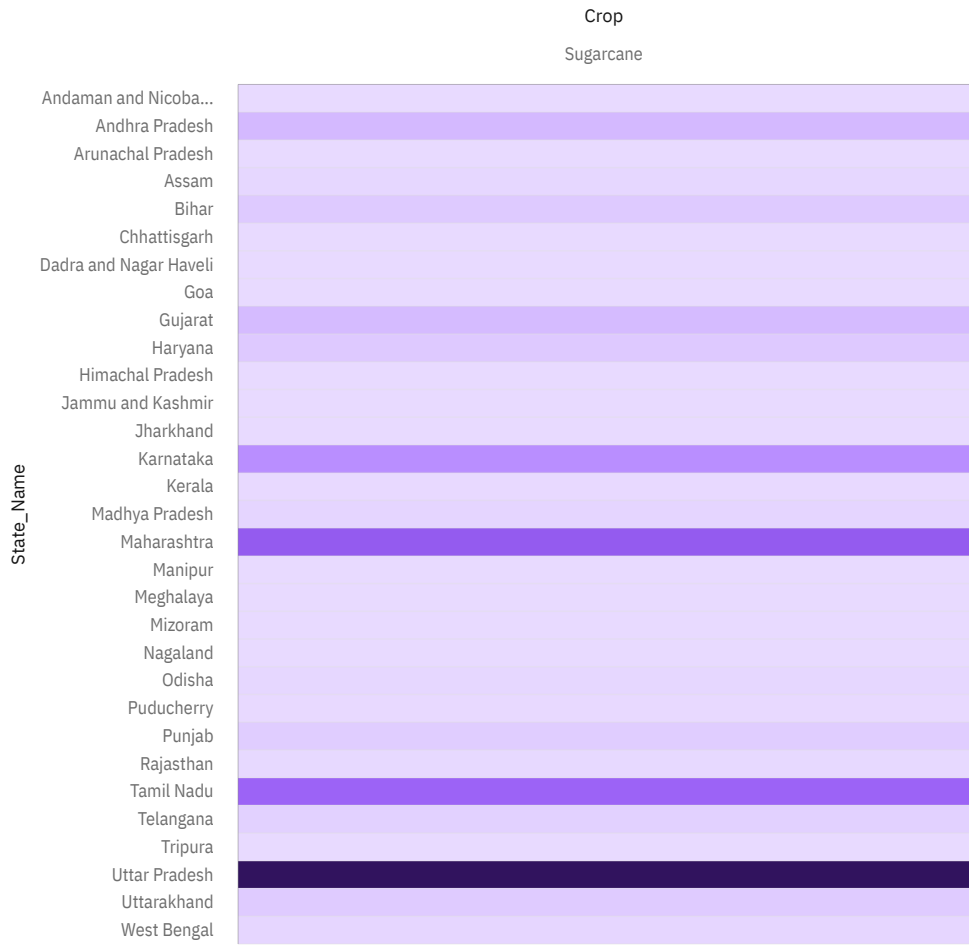
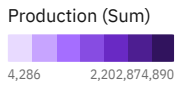


### Production by State\_Name and Crop\_Year

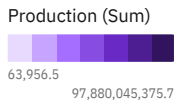


Tab 4

SugarCane Production by State

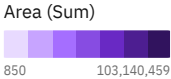


Production for State\_Name regions



Tab 5

Area by State\_Name and Season



State_Name	Season					
	Autumn	Kharif	Rabi	Summer	Whole Year	Winter
Andaman and Nicobar Islands						
Andhra Pradesh						
Arunachal Pradesh						
Assam						
Bihar						
Chandigarh						
Chhattisgarh						
Dadra and Nagar Haveli						
Goa						
Gujarat						
Haryana						
Himachal Pradesh						
Jammu and Kashmir						
Jharkhand						
Karnataka						
Kerala						
Madhya Pradesh						
Maharashtra						
Manipur						
Meghalaya						
Mizoram						
Nagaland						
Odisha						
Puducherry						
Punjab						
Rajasthan						
Sikkim						
Tamil Nadu						
Telangana						
Tripura						
Uttar Pradesh						
Uttarakhand						
West Bengal						