EDA ON

AGRICULTURE COMMODITIES

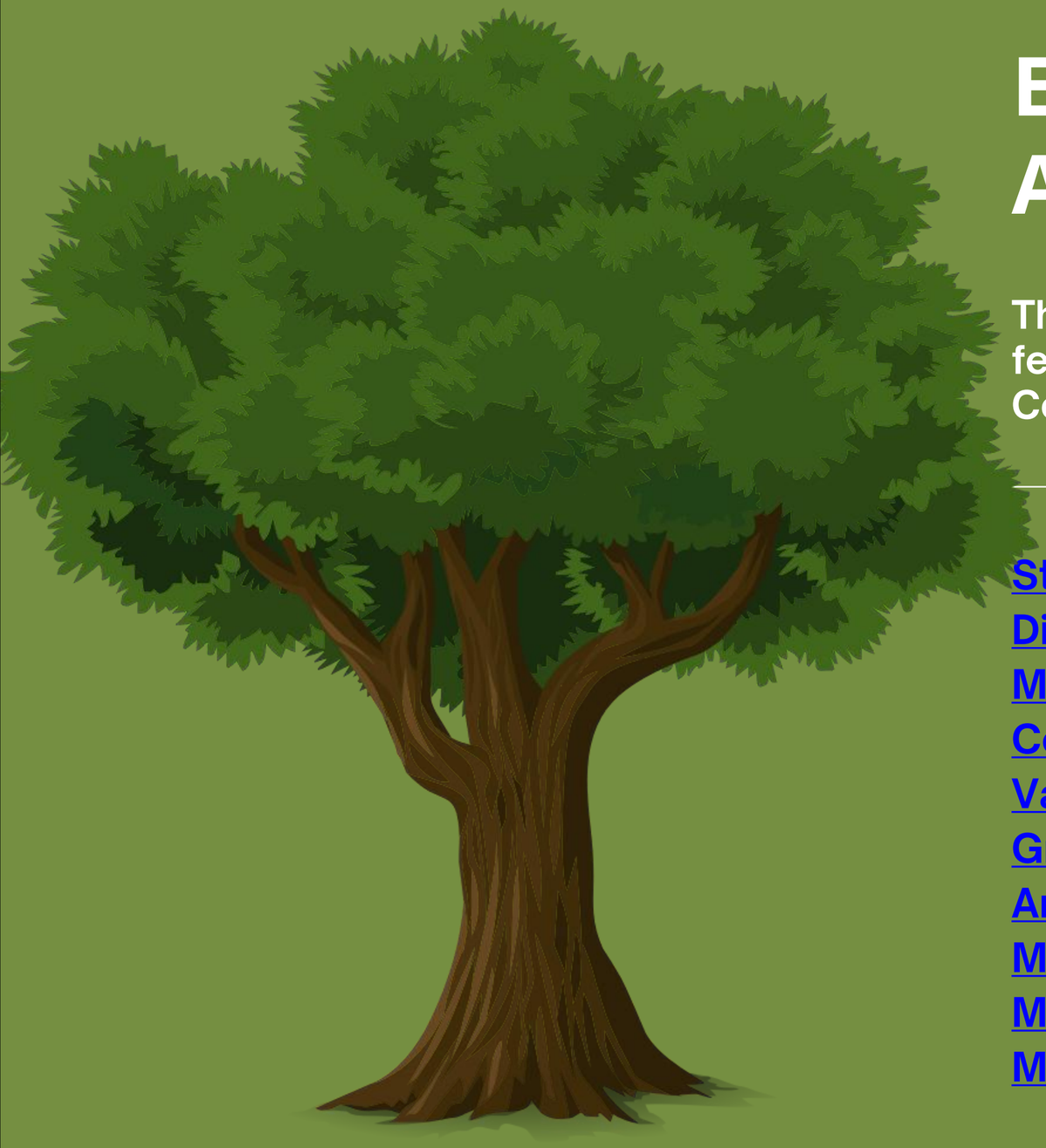
Presented by: Janani Jennifer

Agenda

Introduction
System Design
Implementation
Conclusion

Introduction

- Agricultural commodities are staple crops and animals produced or raised on farms or plantations.
- Agricultural commodities are raw or primary products that are derived from agriculture and livestock farming.
- Some of the most common agri commodities include wheat, corn, soybeans, sugar, coffee, cotton, and more.



EDA on Agriculture Commodities

The EDA consists of 10 columns. Here we have 10 features using this we start data analysis of Agriculture Commodities

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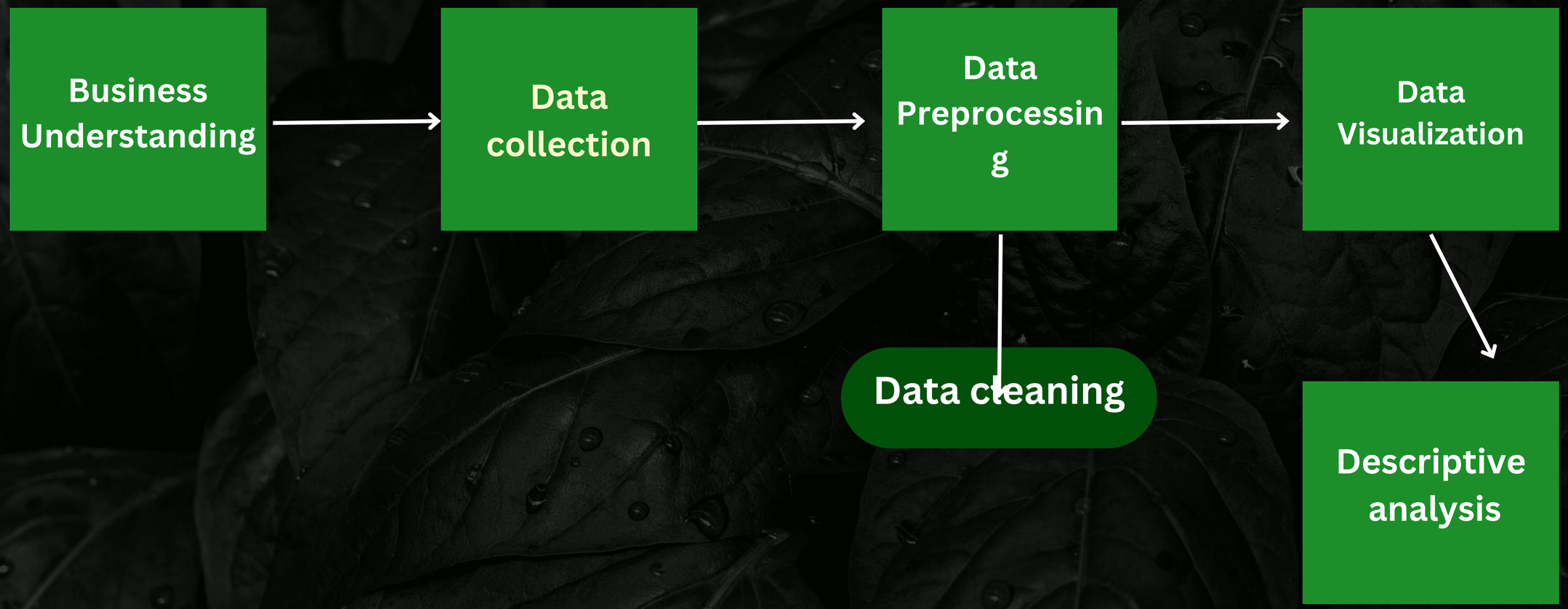
State
District
Market
Commodity
Variety
Grade
Arrival_Date
Min Price
Max Price
Modal Price

System Design



Implementation

Required Libraries to be imported :

```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

DATAPREPROCESSING

Loading Data:

```
df=pd.read_csv("G:\datascience\Price_Agriculture_Commodities_Week.csv")
```

Shape Of Dataframe

```
df.shape
```

o\p
(23093, 10)

DATA CLEANING

Checking for missing values

```
df.isna().sum()
```

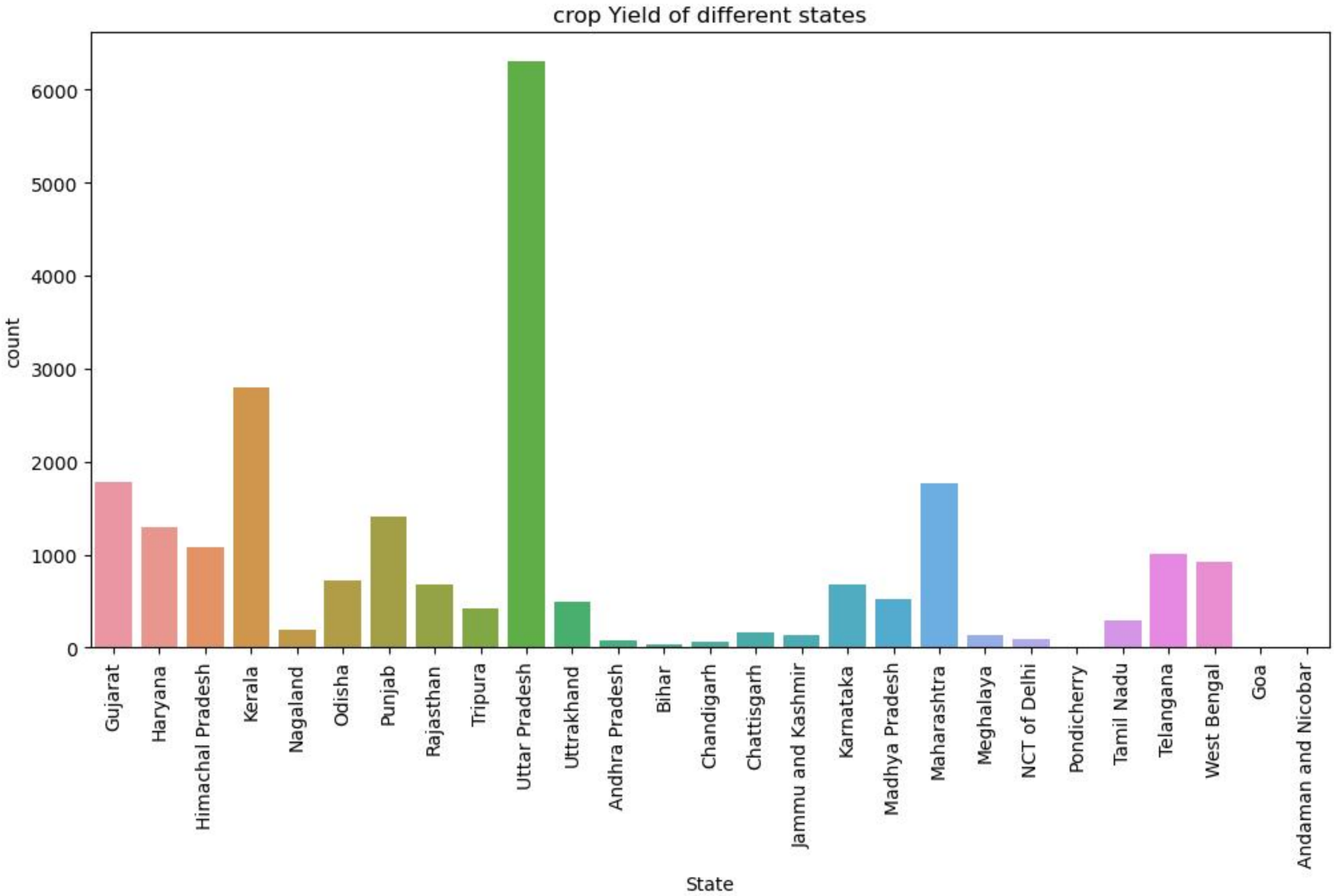
State	0
District	0
Market	0
Commodity	0
Variety	0
Grade	0
Arrival_Date	0
Min Price	0
Max Price	0
Modal Price	0

END OF DATA PREPROCESSING

EXPLORATORY DATA ANALYSIS

Q1.

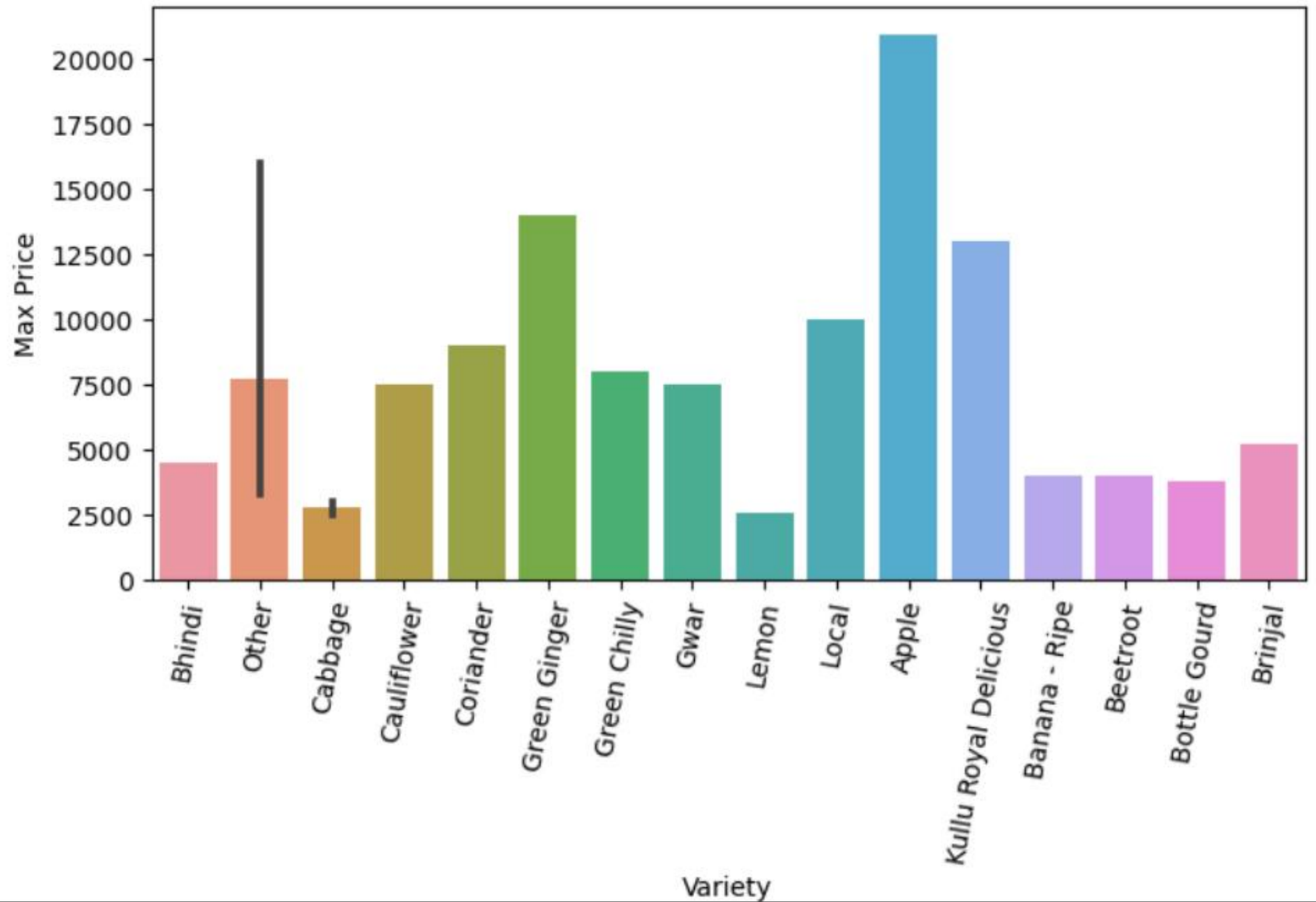
What is percentage of crop yield of different states?



HIGHEST CROP YIELD IS IN THE STATE OF UTTAR PRADESH

Q2.

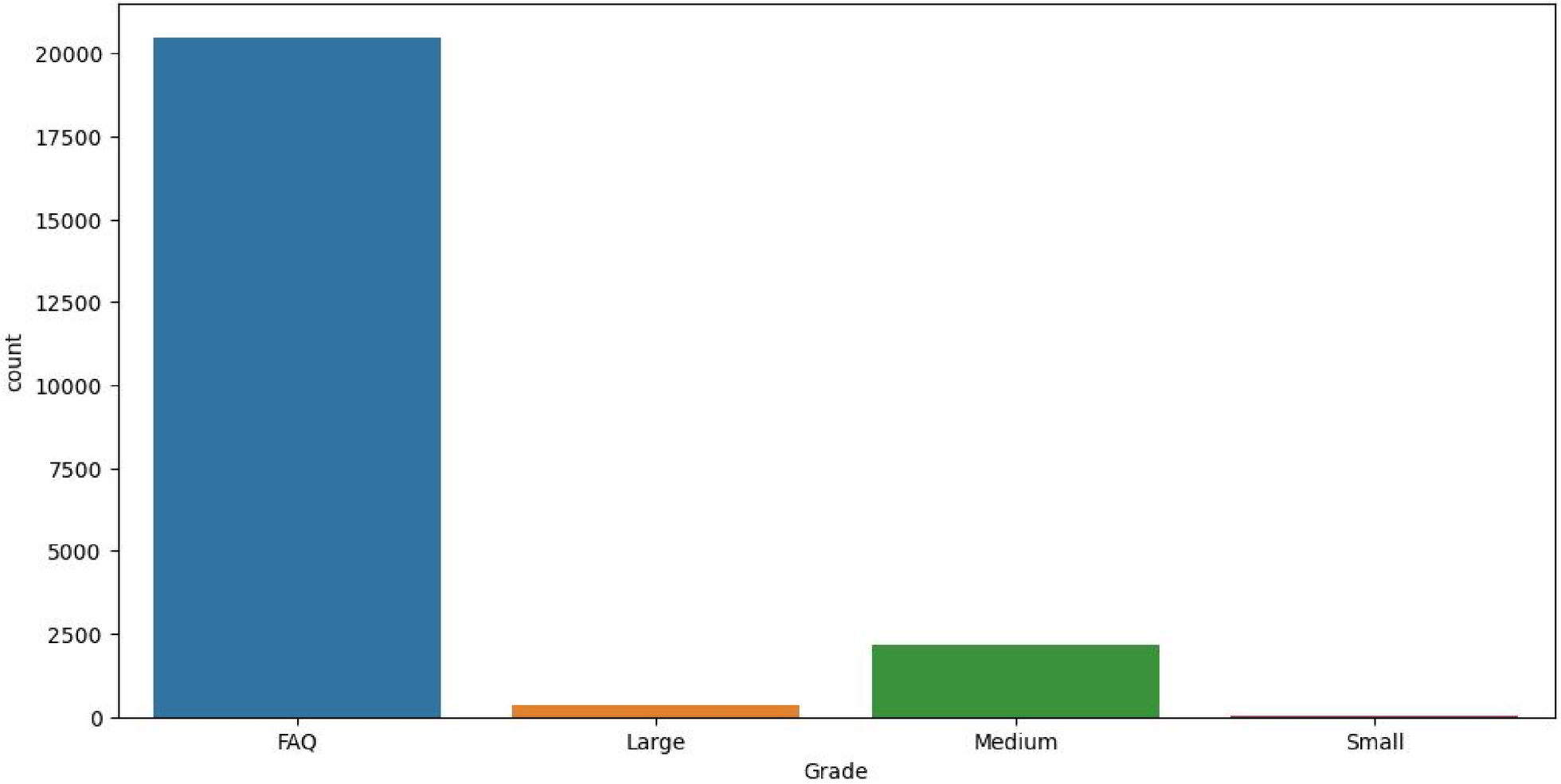
which variety is most cultivating?



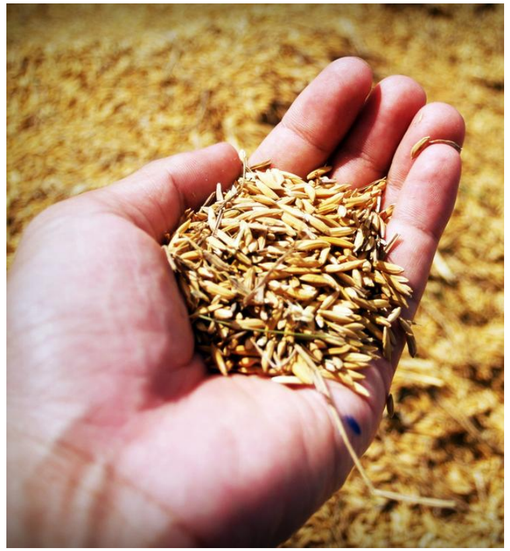
APPLE IS THE MOST CULTIVATED VARIETY

Q3.

what is count of the Grade?



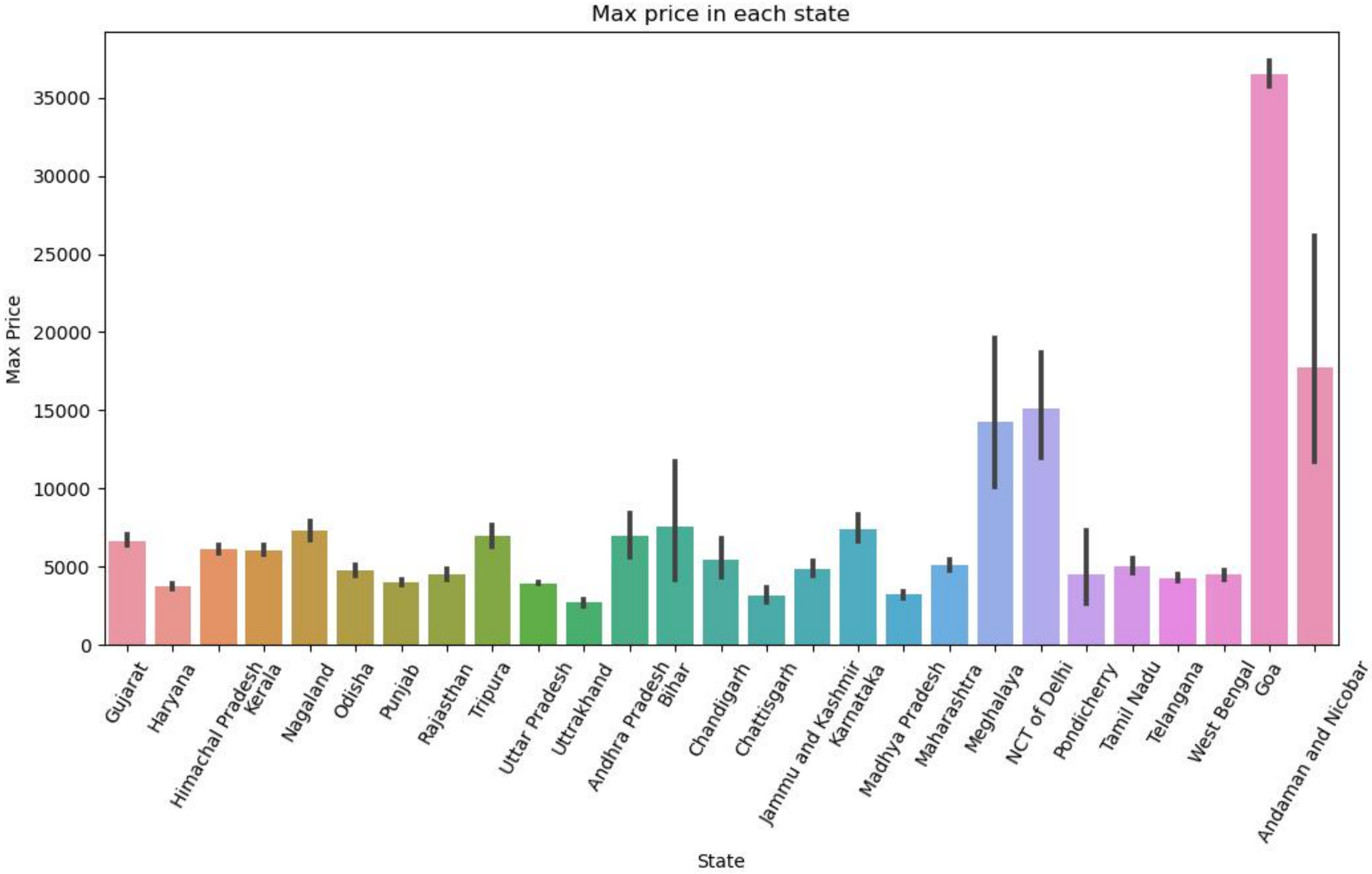
FAQ GRADE IS THE HIGHEST GRADE PRESENT IN THIS DATASET



Food and Agriculture Organization

Q4.

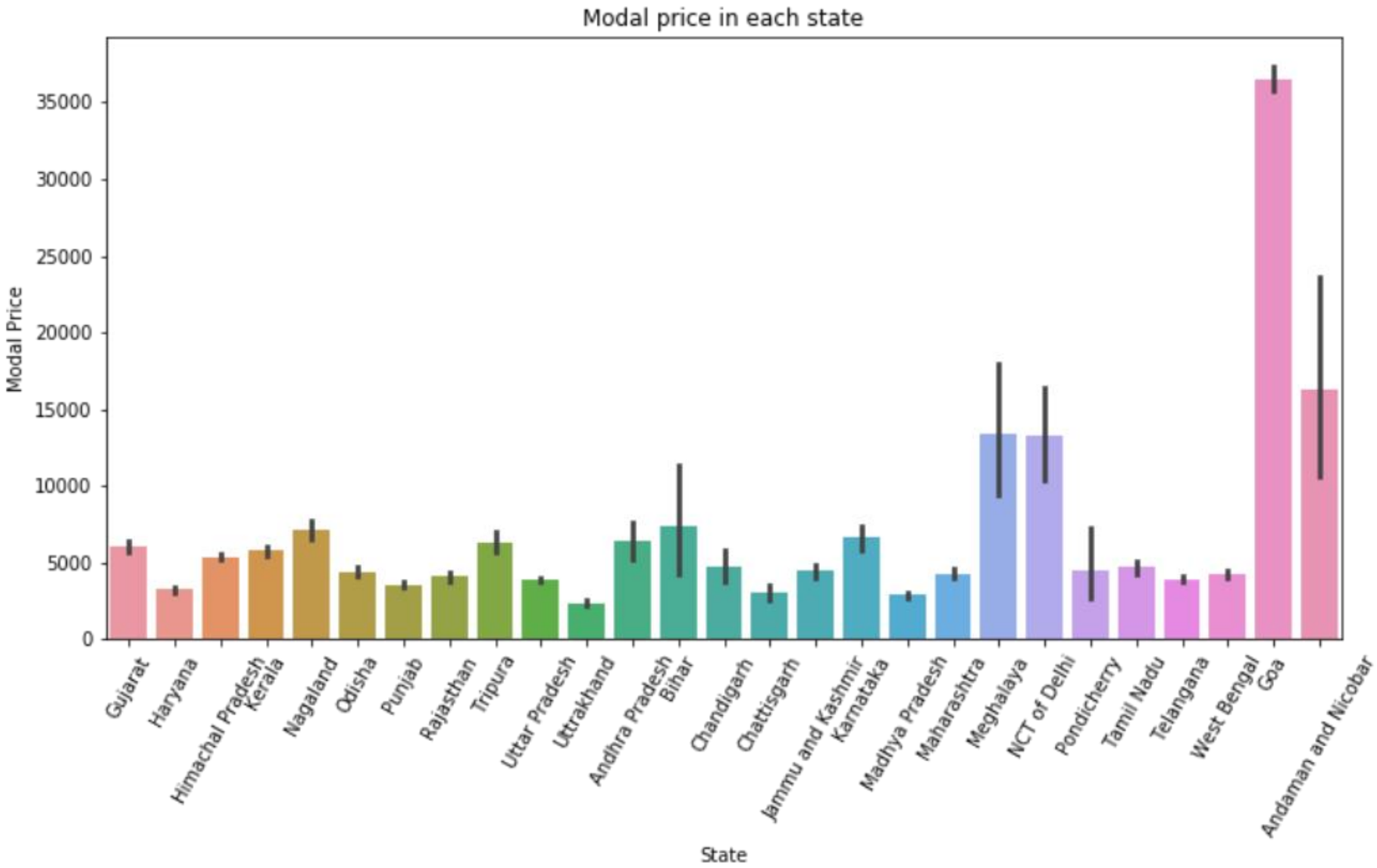
What is the maximum price in each state?



GOA,ANDAMAN AND NICOBAR HAVE THE MAXIMUM PRICE

Q5.

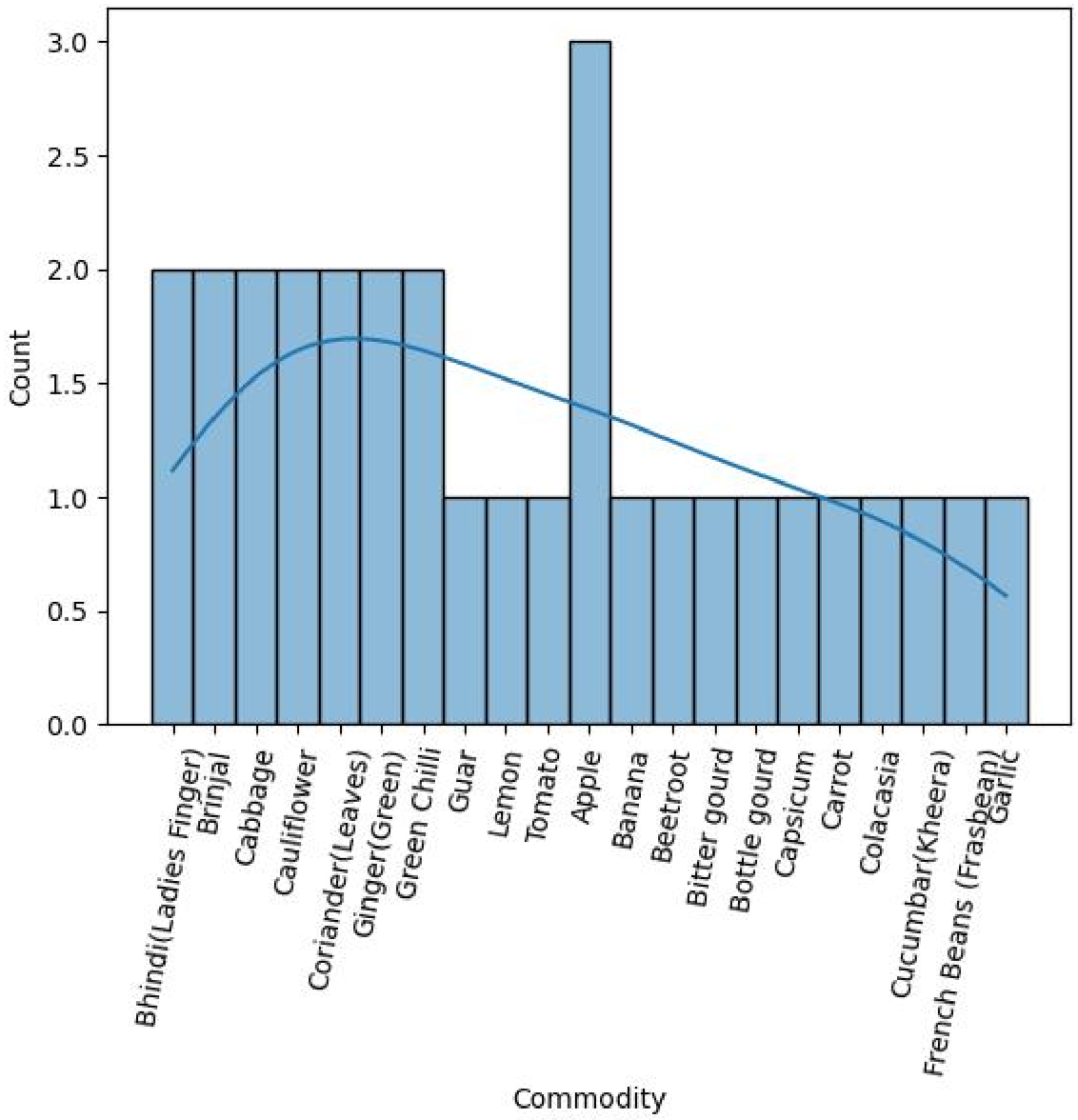
what is the modal price in each state?



GOA,ANDAMAN AND NICOBAR HAVE THE HIGHEST MODAL PRICE

Q6.

What are the top 30 commodities?



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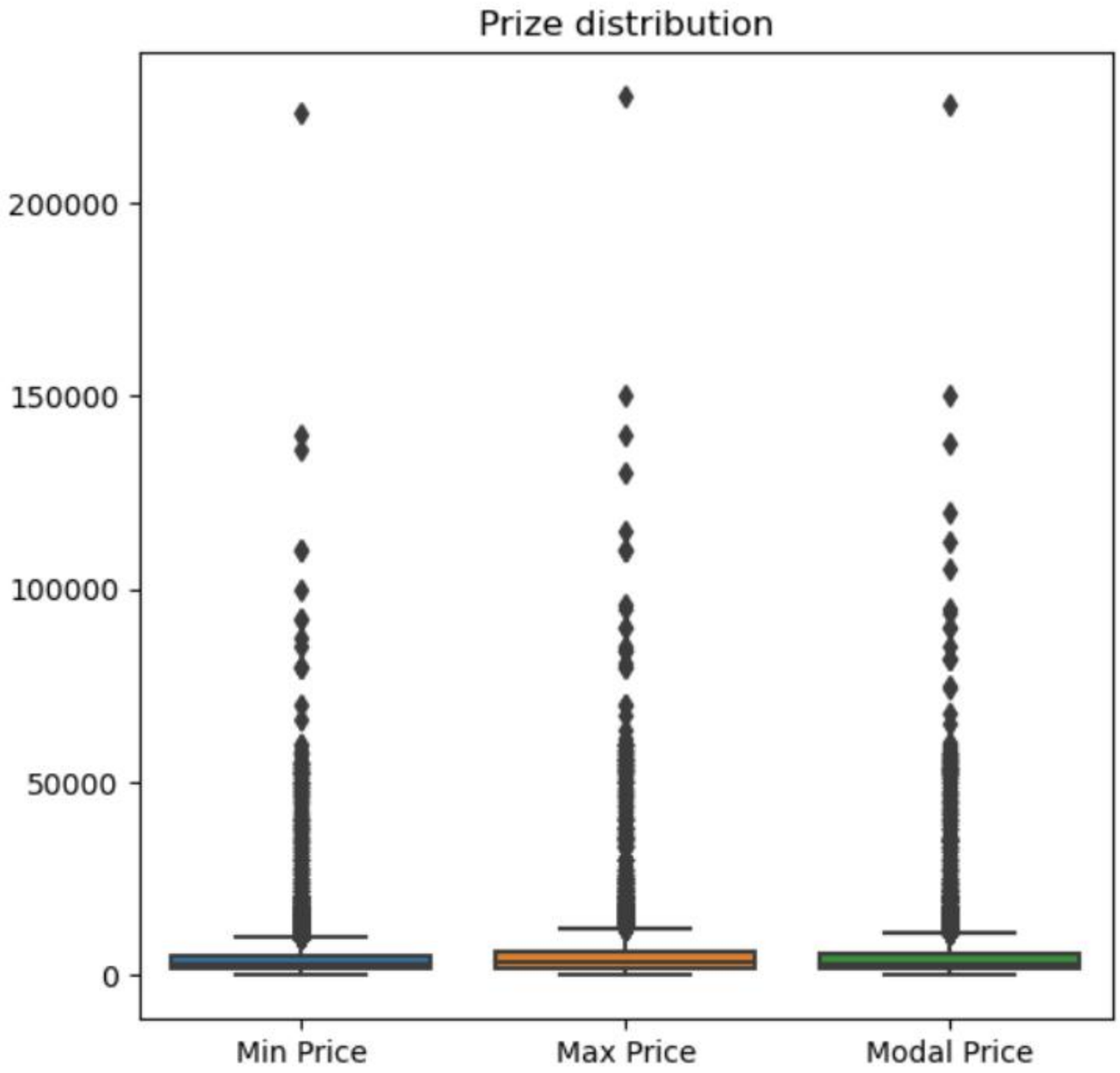
Apple is the highest commodity present in this dataset

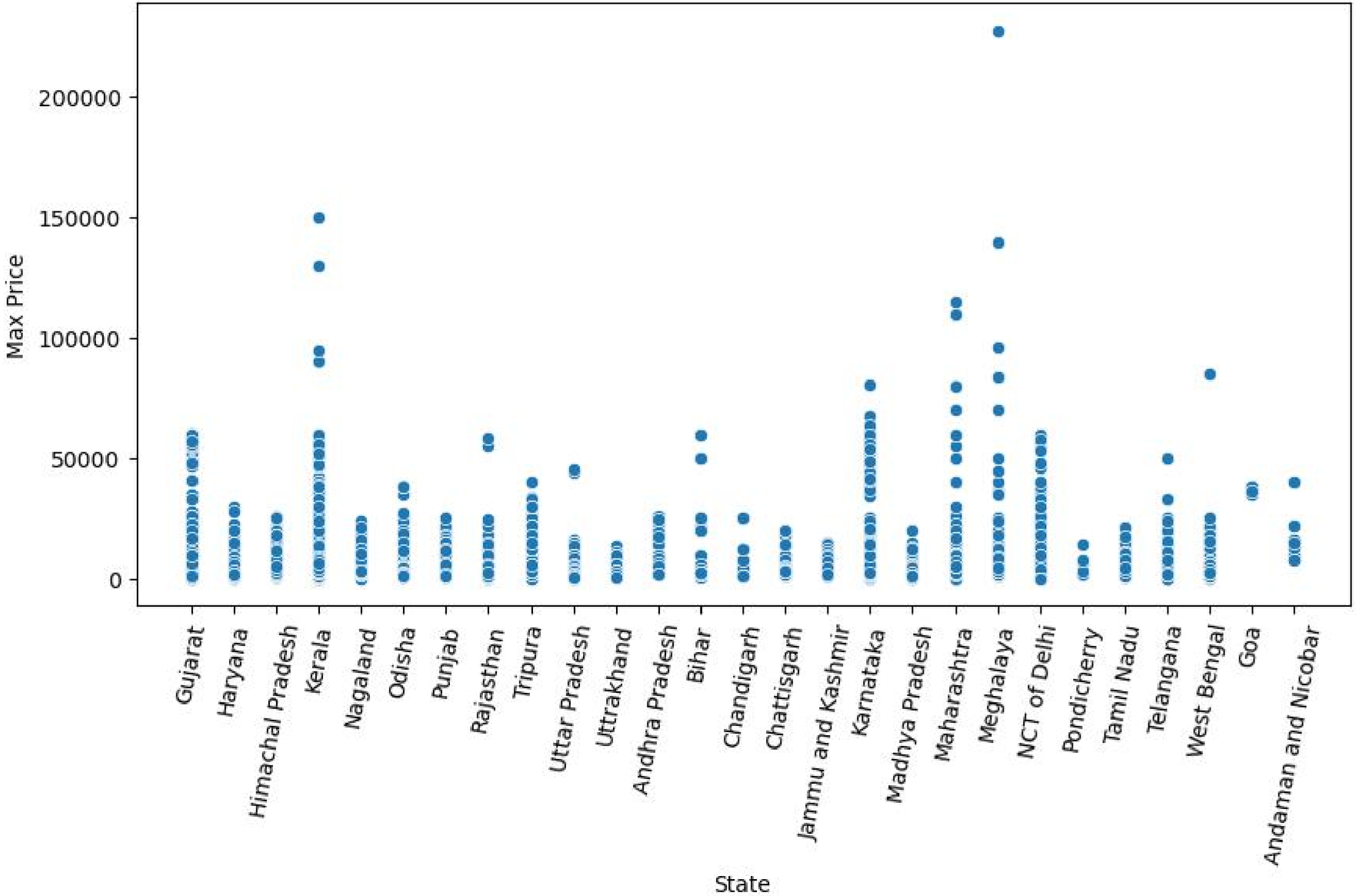
Q7.

Variations of Prize distribution?



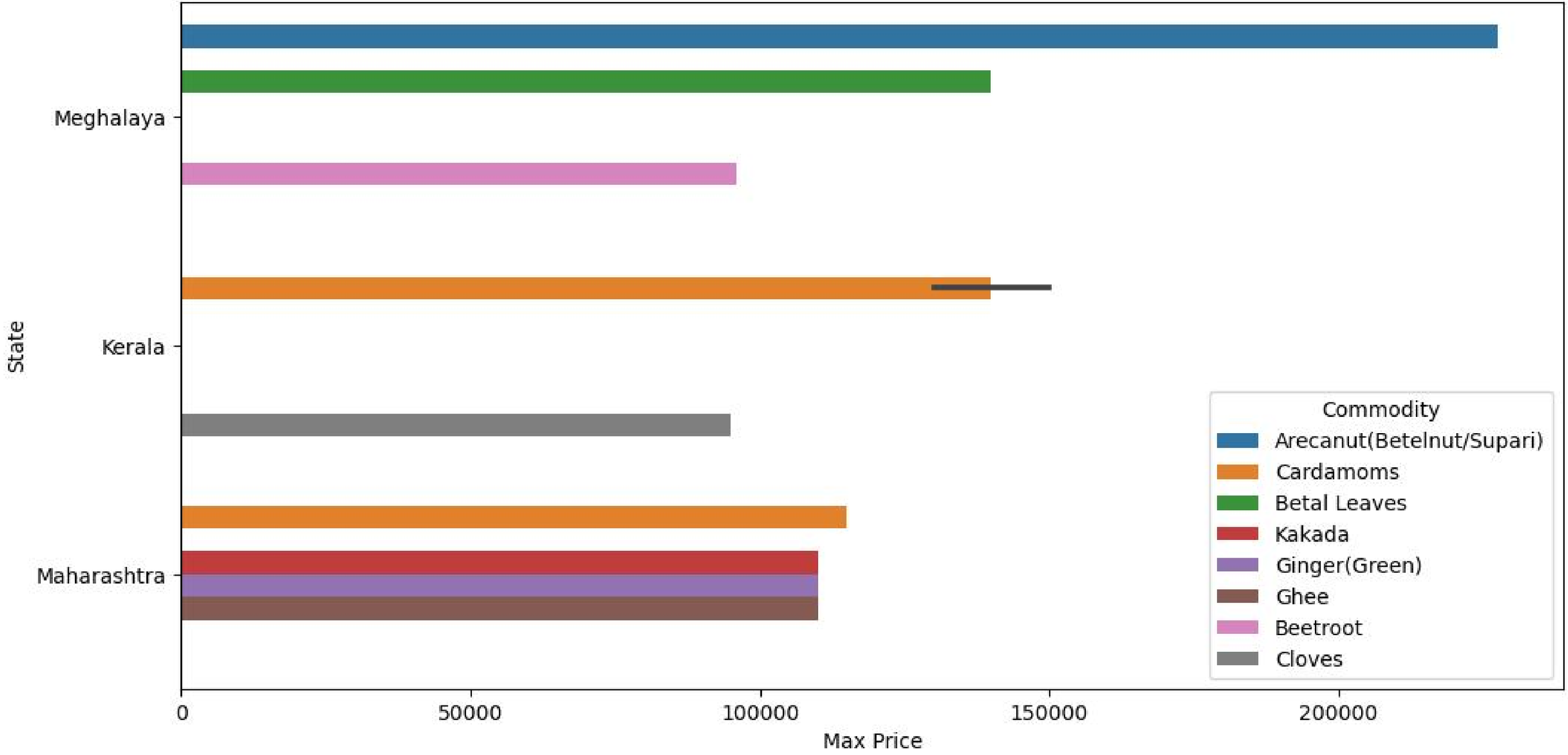
Q8.

show the max price in each state in scatter plot?



Q9.

What are the commodities in top 10 States?

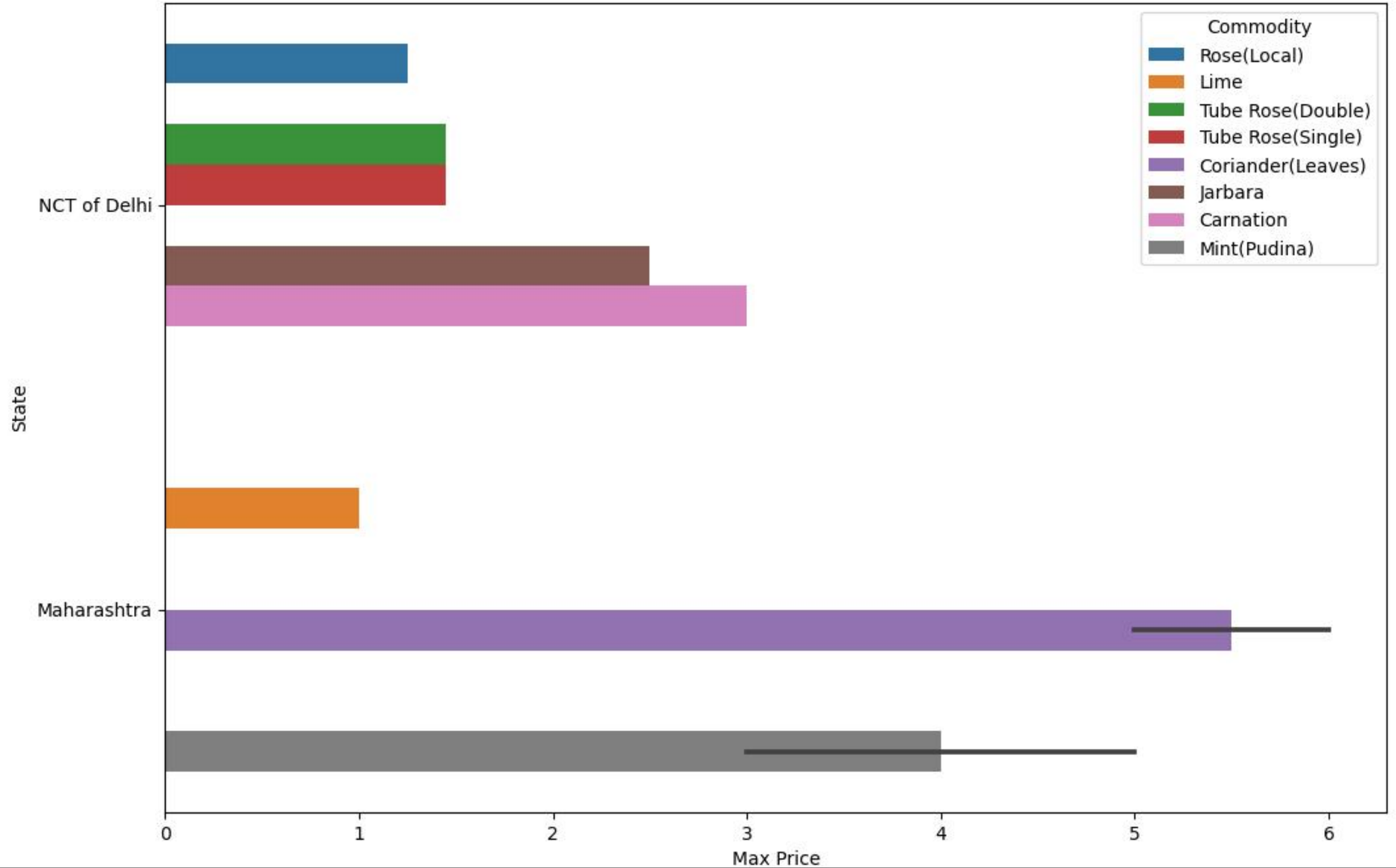


Add your text

Add more text

Q10.

What is the commodities in the least States ?



Add your text

Add more text

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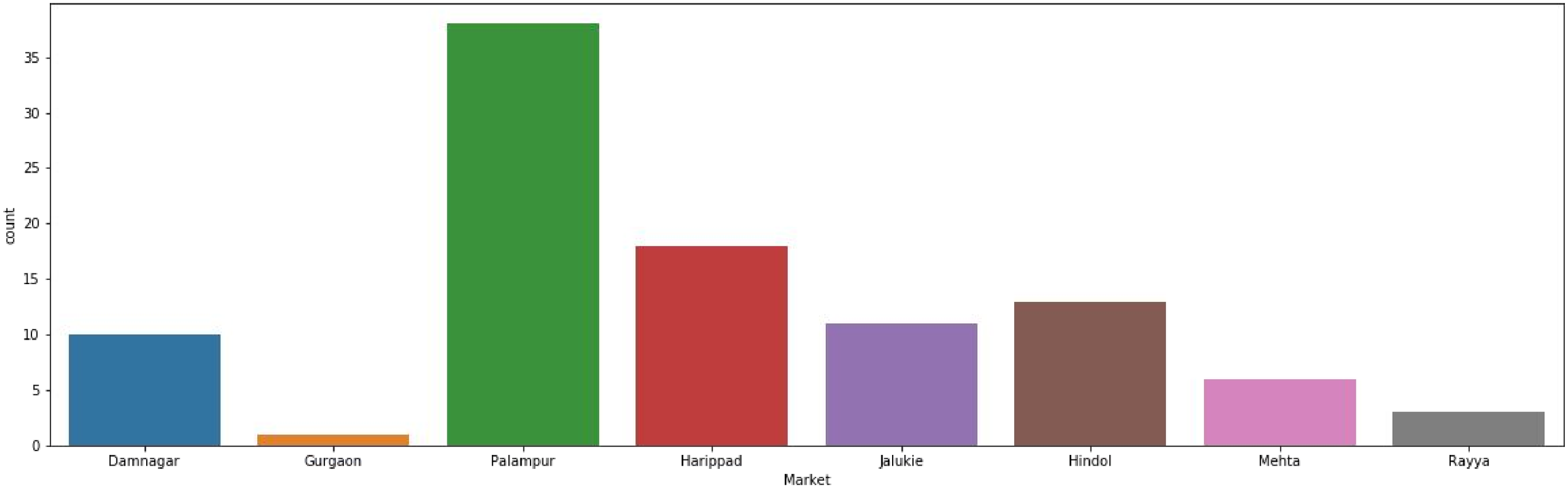
Q11.

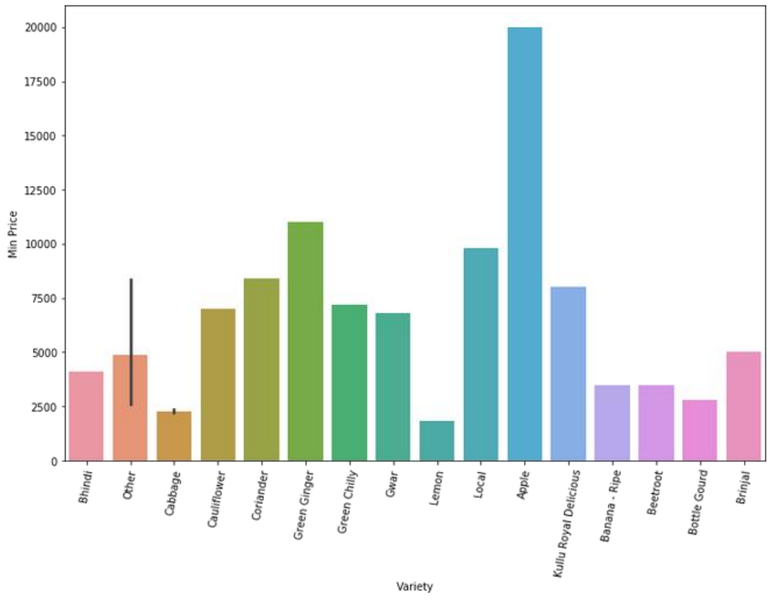
What is the most busy market?

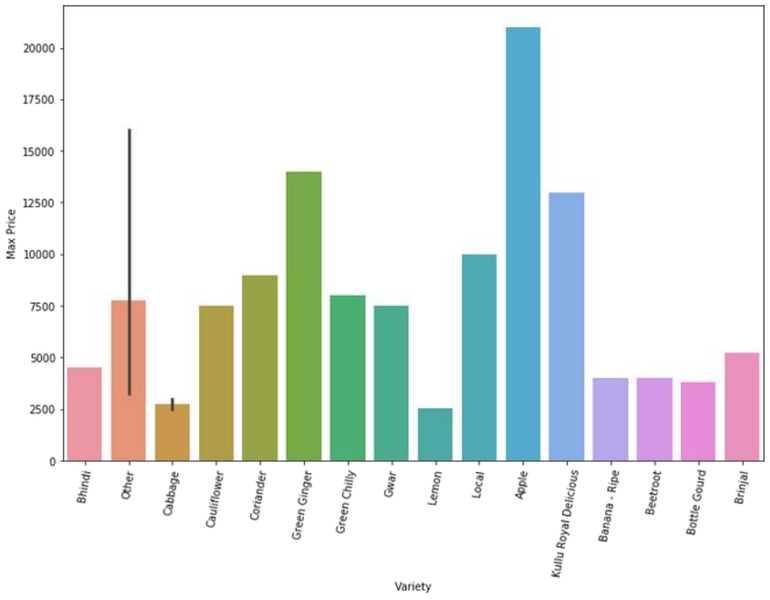


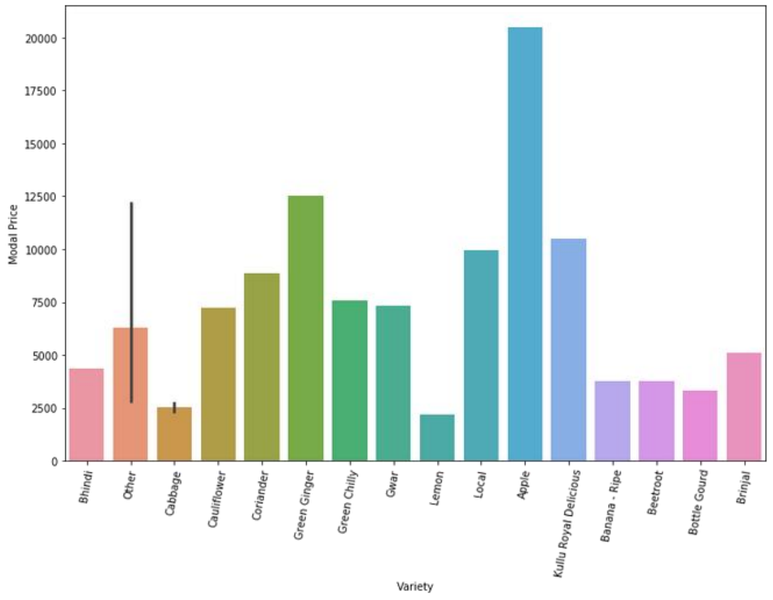
Palampur, Himachal Pradesh is the busiest city

Q12.

Variation between Variety and different price distributions







Variety VS Min price

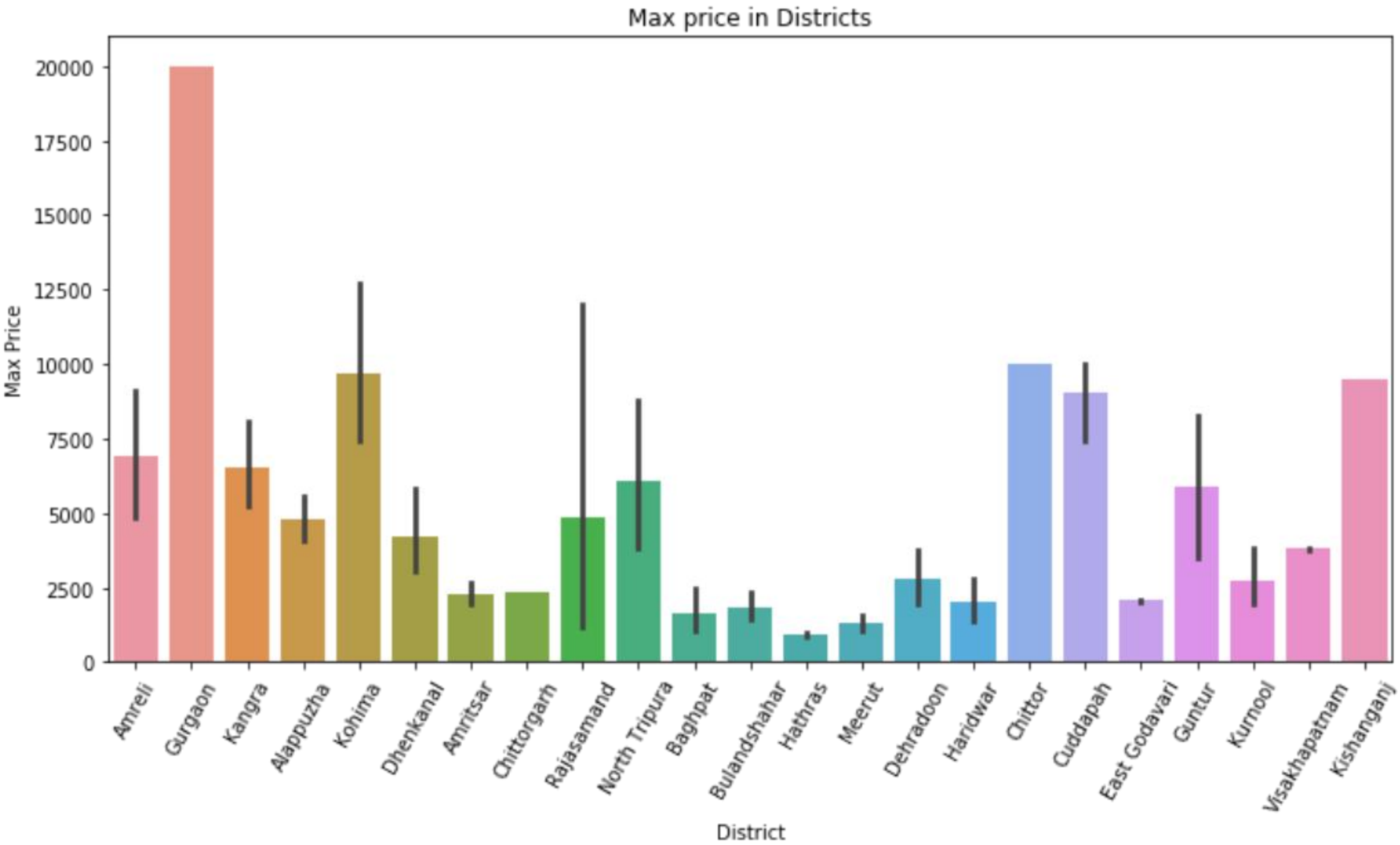
- Apple has more value and the next one is Green Ginger
- Lemon has the lowest value

Variety VS Max price

- Apple has more value and the next one is others
- Lemon has the lowest value

Variety VS Min price

- Apple has more value and the next one is Green Ginger
- Lemon has the lowest value

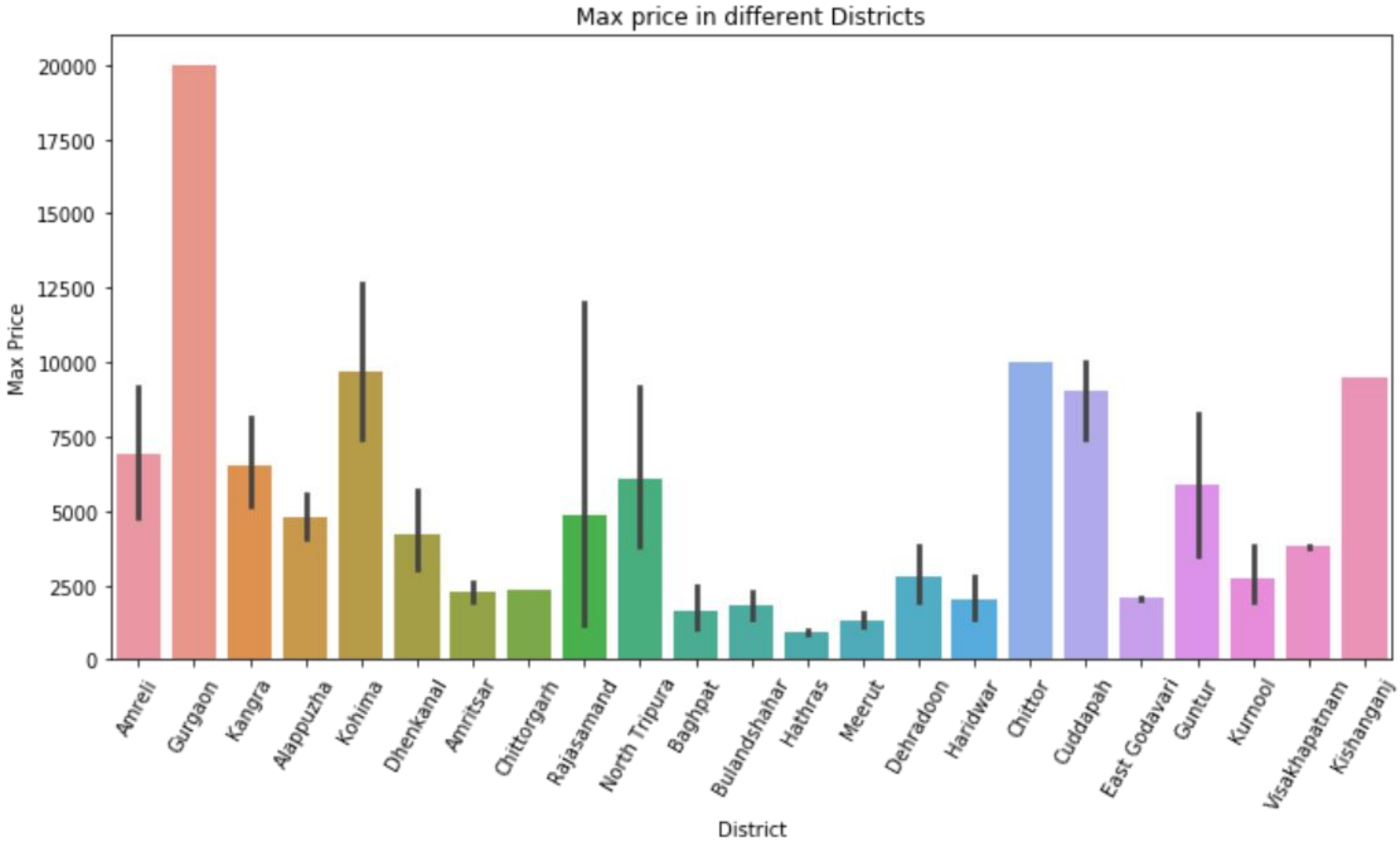


Q13.

What is the maximum price in different districts

Gurgaon, Haryana

Kohima, Nagaland



Q14.

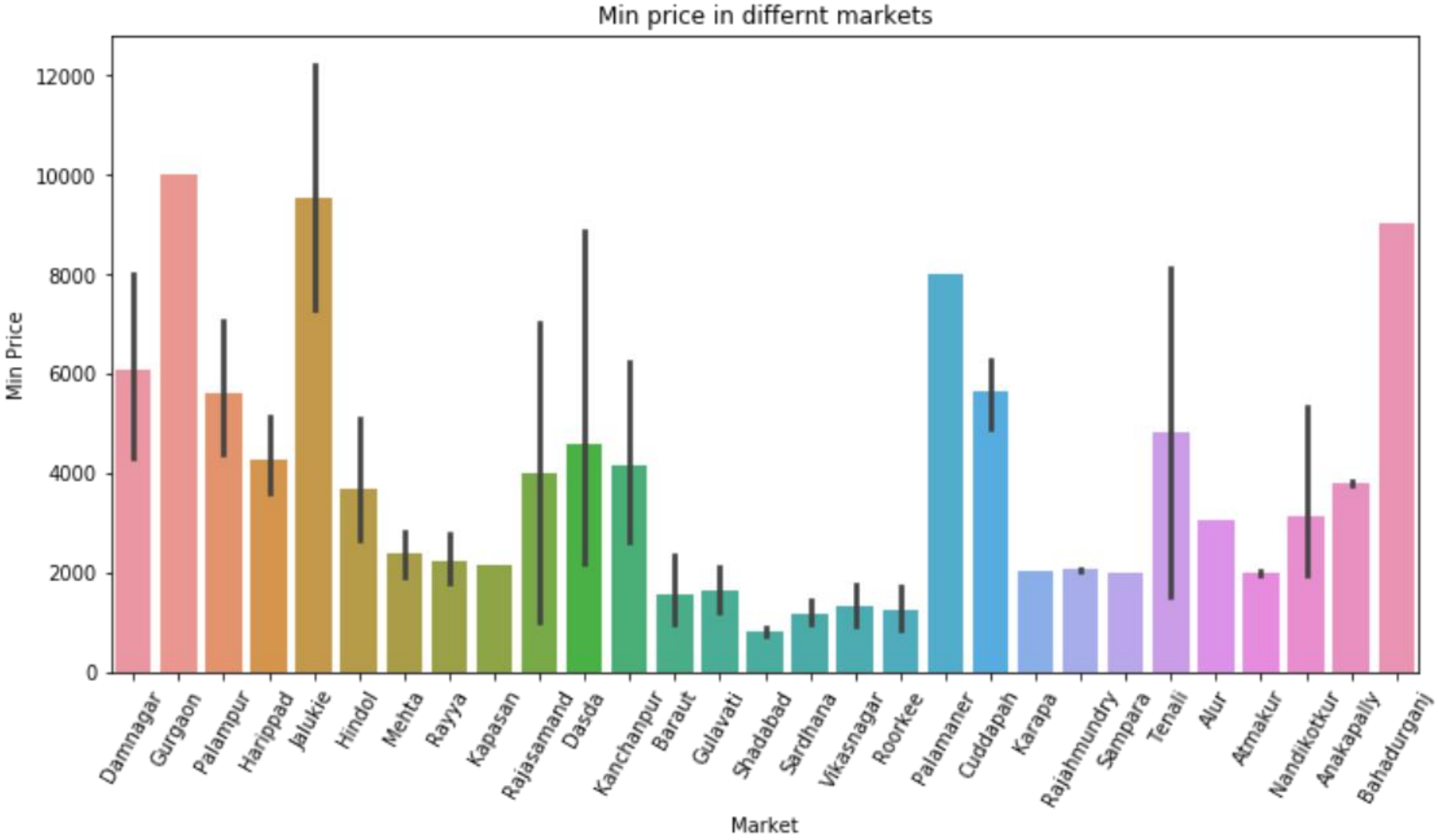
What is the maximum price in different Markets?

Gurgaon, Haryana

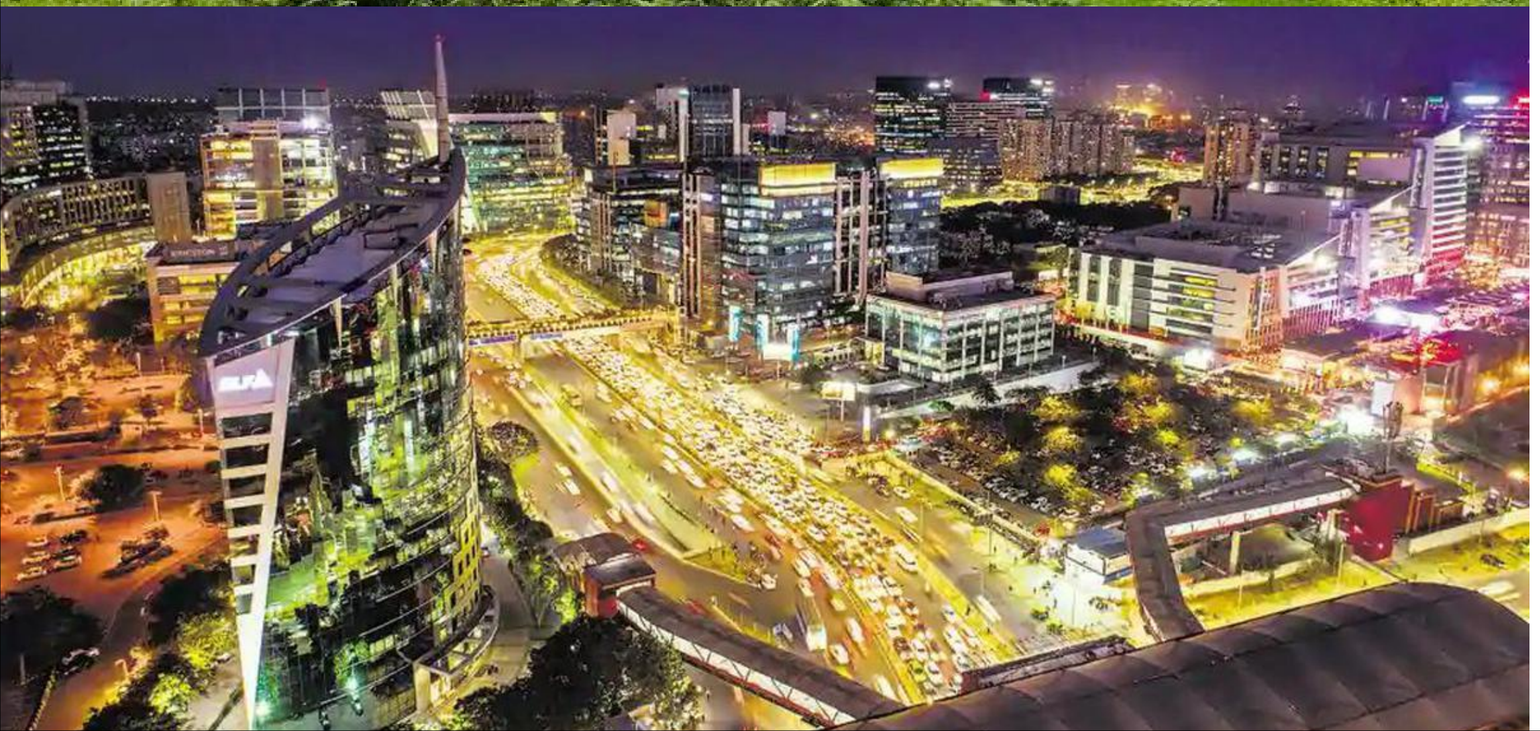
Kohima, Nagaland

Q15.

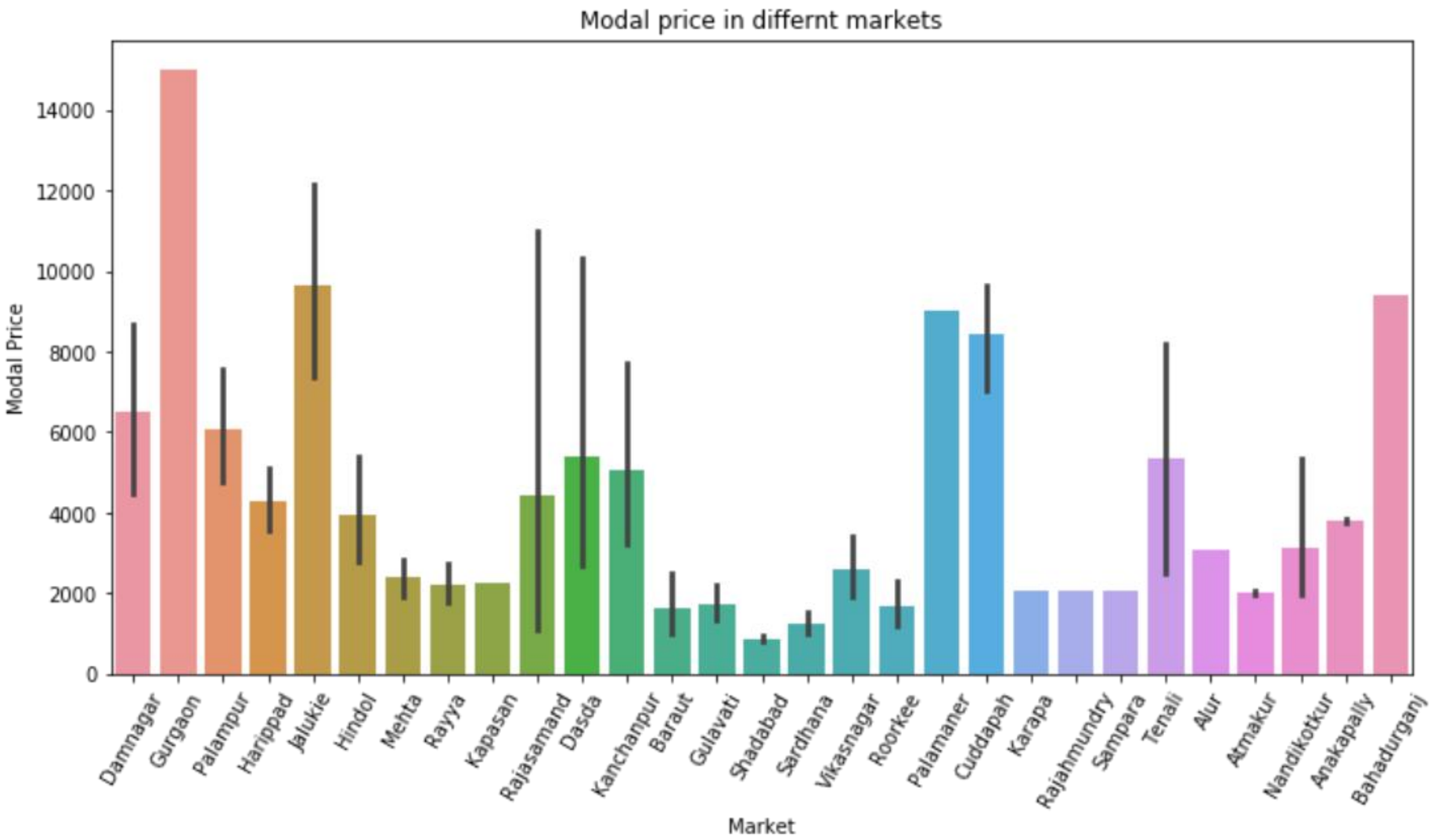
What is the minimum price in different Markets?



Jalukie is **a town in the Peren District of the Indian state of Nagaland**



Gurgaon, Haryana

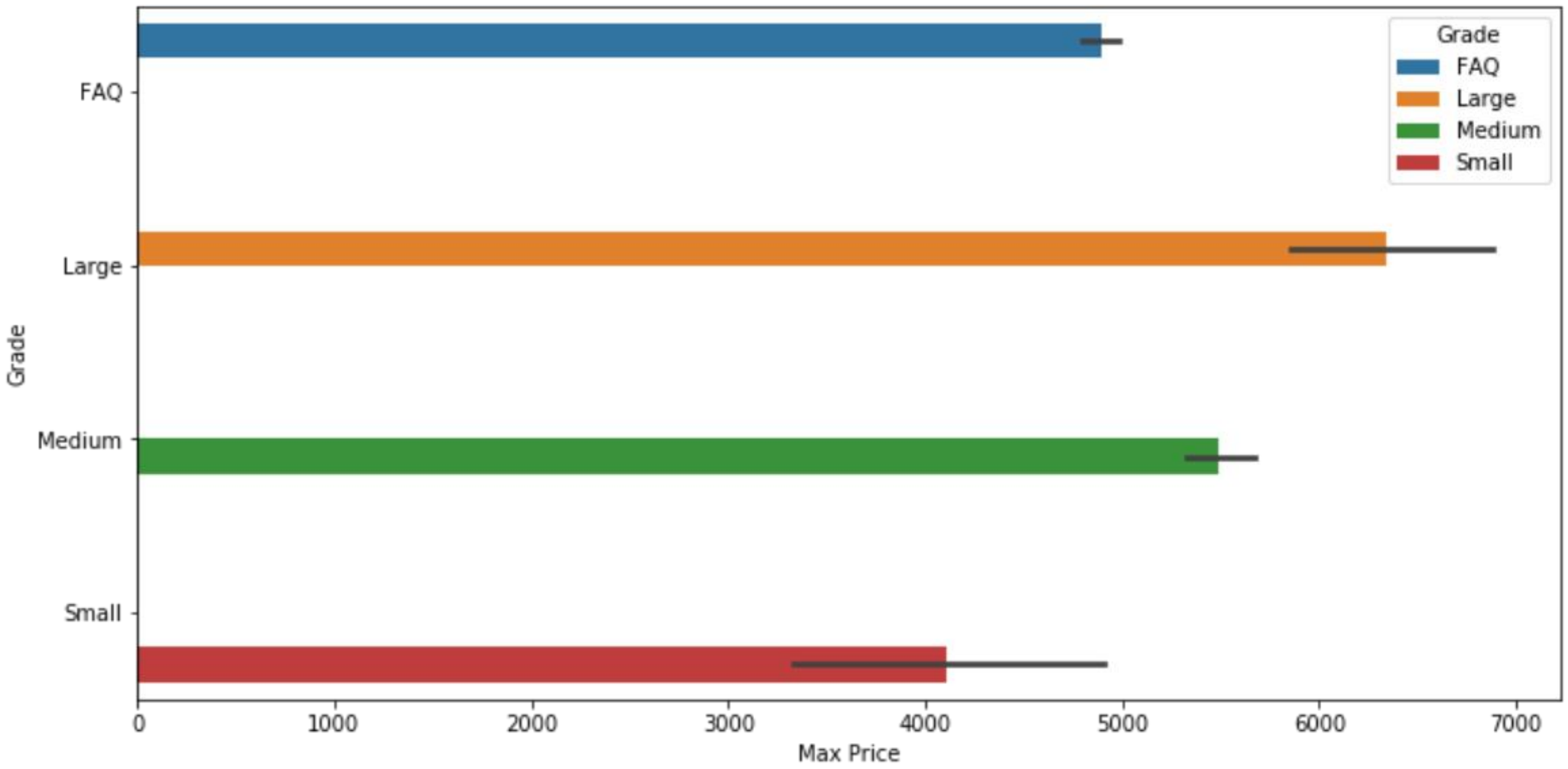


Q16.

What is the minimum price in different Markets?

Jalukie is a town in the Peren District of the Indian state of Nagaland

Gurgaon, Haryana



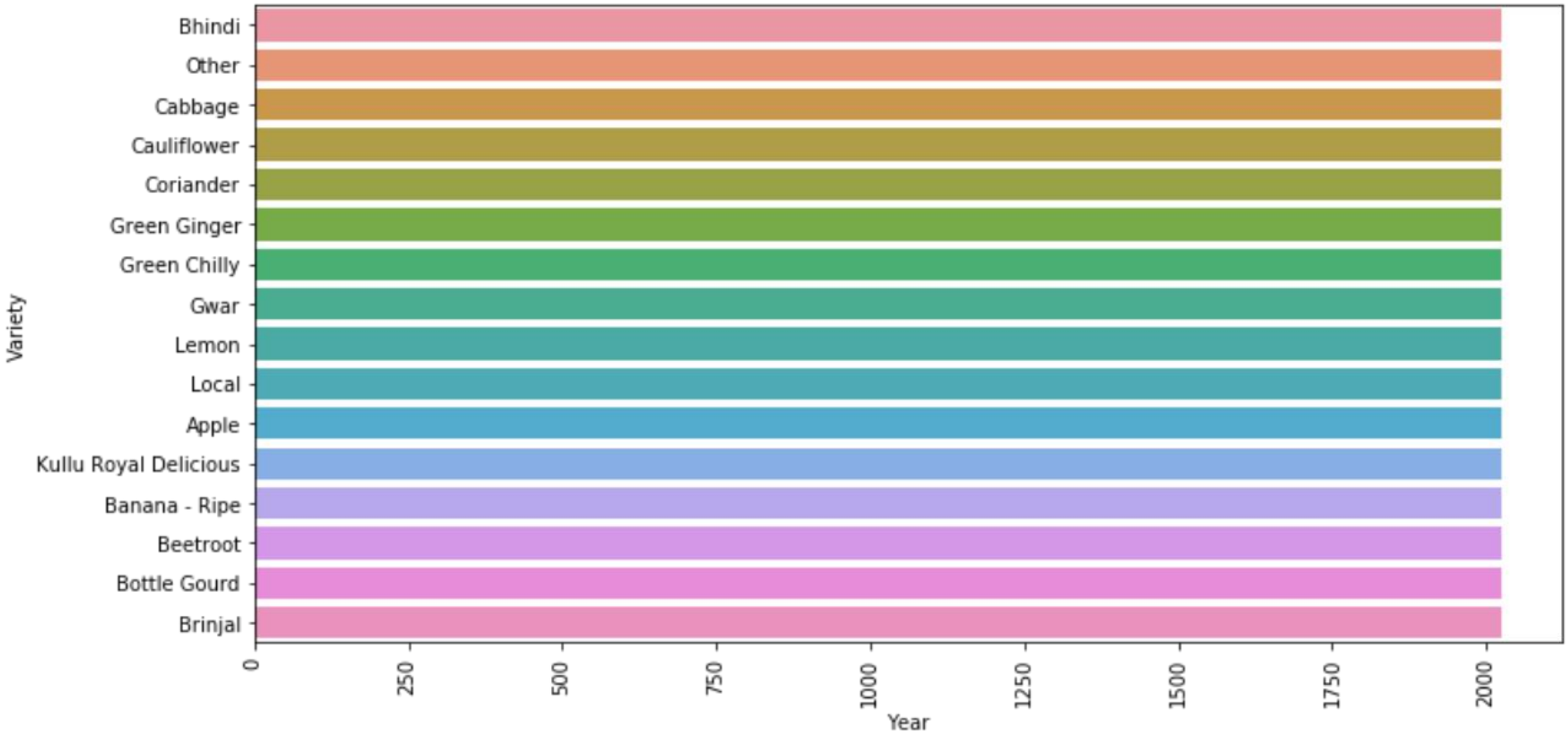
Q17.

Which Grade has the Maximum price ?

Large Grade has the maximum price

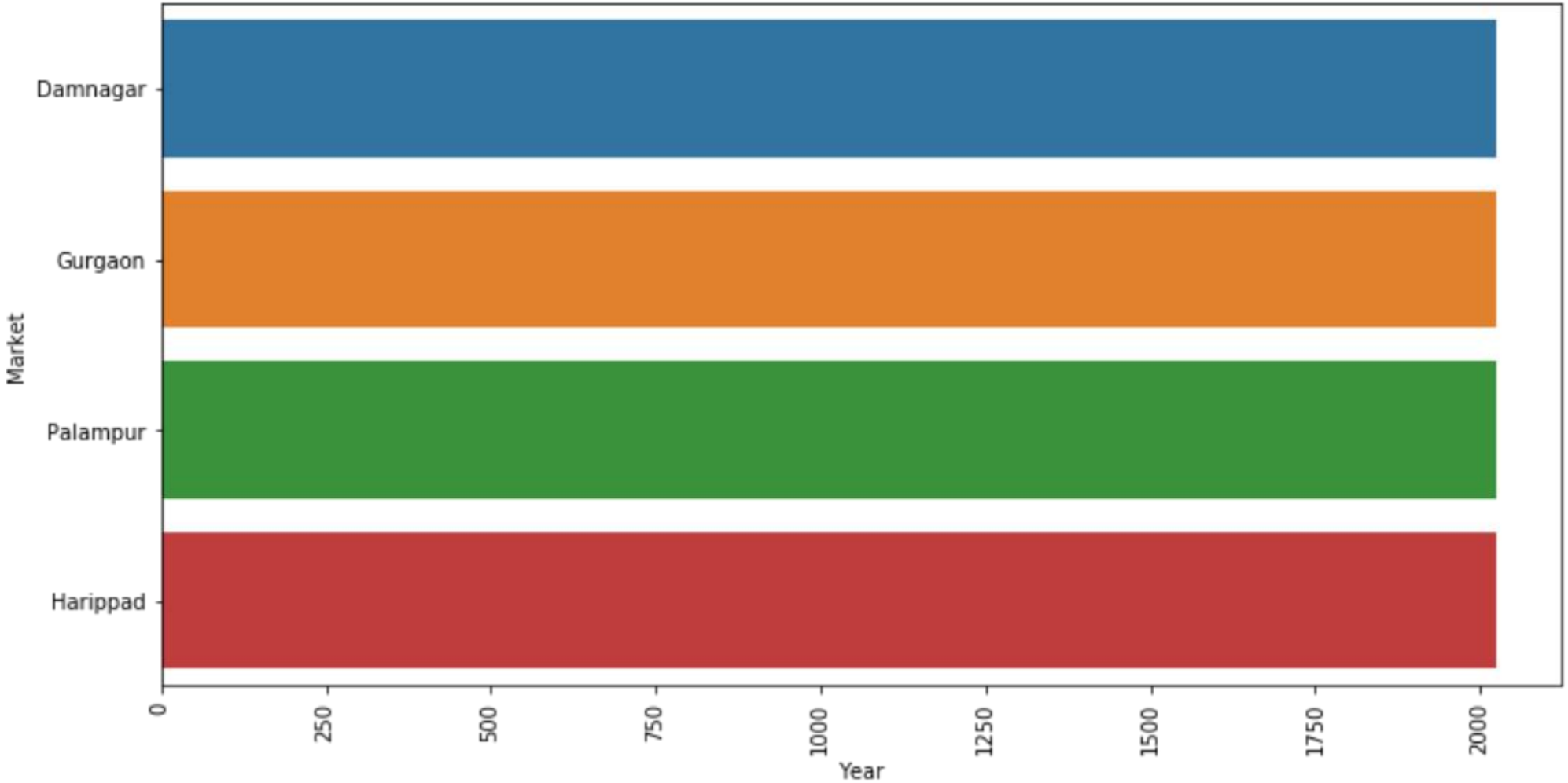
Q18.

Different Variety compared in year 2023

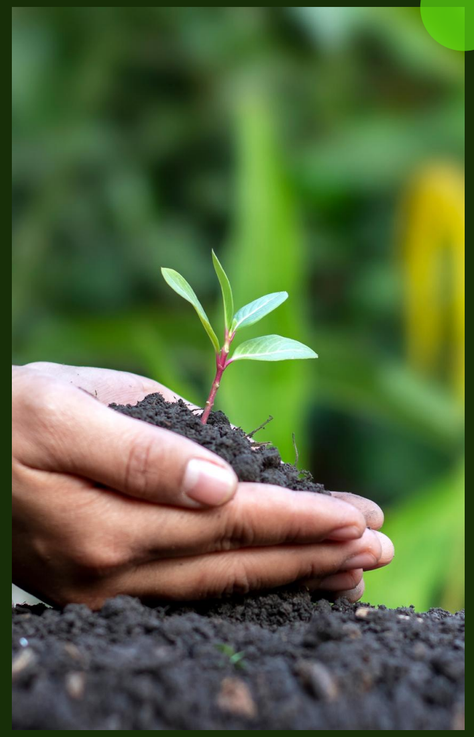


Q19.

Different Markets compared in year 2023



CONCLUSION



- Highest crop yield is in the state of Uttar pradesh
- Apple is the most cultivated variety
- FAQ grade is the highest grade present in this dataset
- Our Contact Information
- Goa, Andaman and Nicobar have the maximum price
- Apple is the highest commodity present in this dataset

THANK YOU