ABC Company Avocado sells

George.B

2022-12-11

SUMMARY

- What season is more profitable of selling Avocado fruits.
- Research shows that there are four season in the united state of america.
- According to my research the best time to sell Avocado is February(Winter) and March(Springs) and July(Summer).

Cleaning and Wrangling the Data

```
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
      filter, lag
## The following objects are masked from 'package:base':
##
      intersect, setdiff, setequal, union
##
## -- Attaching packages ------ tidyverse 1.3.2 --
                            0.3.5
## v ggplot2 3.3.6
                   v purrr
## v tibble 3.1.8
                   v stringr 1.4.1
## v tidvr
          1.2.1
                     v forcats 0.5.2
## v readr
          2.1.3
## Warning: package 'readr' was built under R version 4.2.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                  masks stats::lag()
## Warning: package 'janitor' was built under R version 4.2.2
##
## Attaching package: 'janitor'
## The following objects are masked from 'package:stats':
##
      chisq.test, fisher.test
##
```

```
## Warning: package 'skimr' was built under R version 4.2.2
##
## Attaching package: 'lubridate'
##
## The following objects are masked from 'package:base':
##
##
      date, intersect, setdiff, union
  • loading all necessary packages needed for analysing the data.
## Rows: 18249 Columns: 13
## Delimiter: ","
## chr (3): Date, type, region
## dbl (10): AveragePrice, Total_Volume, 4046, 4225, 4770, Total_Bags, Small_Ba...
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
  • Importing the dataset
##
          Date AveragePrice Total_Volume
                                                4046
                                                            4225
                                                                        4770
   "character"
                  "numeric"
                                           "numeric"
                                                                    "numeric"
##
                              "numeric"
                                                       "numeric"
##
    Total_Bags
                 Small_Bags
                             Large_Bags
                                         Xlarge_Bags
                                                            type
                                                                        year
                  "numeric"
      "numeric"
                              "numeric"
                                           "numeric"
                                                     "character"
                                                                    "numeric"
##
##
        region
##
   "character"
```

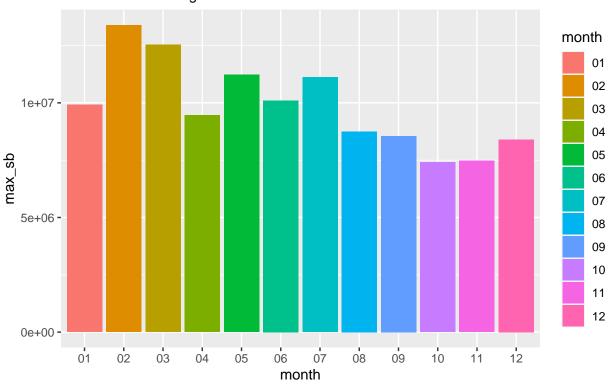
Analysis and Visualization.

Below is the graphical representation of my findings.

```
## # A tibble: 12 x 4
##
      month
               max sb
                        max lb max xlb
##
      <chr>
                <dbl>
                          <dbl>
                                  <dbl>
##
    1 01
             9918256. 3917570. 206519.
  2 02
##
            13384587. 5719097. 303537.
   3 03
            12540327. 3988102. 309468.
##
   4 04
             9463811. 3434847. 207847.
##
    5 05
            11228050. 4324231. 256887.
##
   6 06
            10103007. 3267491. 347390.
   7 07
            11112406. 3119708. 551694.
##
             8749239. 3118889. 317518.
   8 08
##
## 9 09
             8555284. 2476401. 218395.
## 10 10
             7408766. 2981276. 91799.
## 11 11
             7470394. 3275463.
                                 95159
## 12 12
             8404955. 3122650. 199305.
```

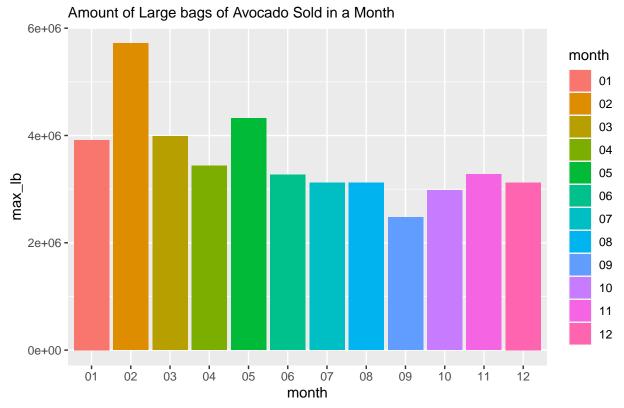
• The table above shows the maximum amount of Small, Large, Xlarge bags of avocado sold in a month.

Avocado: Small Bags Sells Amount of Small bags of Avocado Sold in a Month



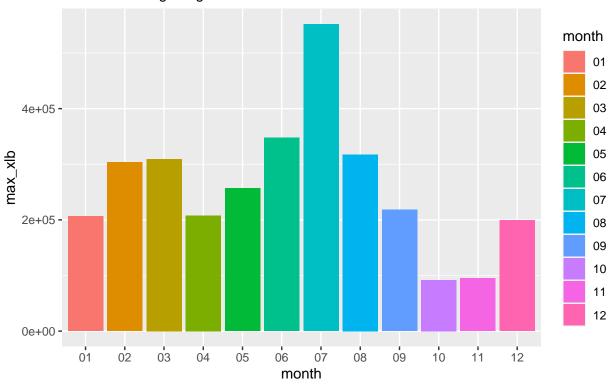
• About 13.3 million small bags of avocado was sold in the month of February alone and February has the highest amount of avocado sell followed by March with 12.5 million small bags avocado sells.

Avocado: Large Bags Sells



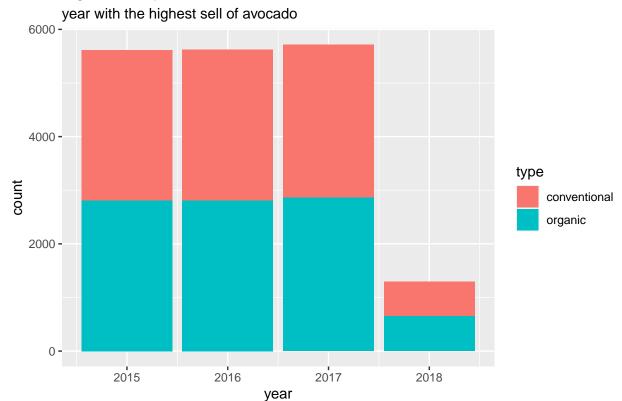
• As shown in the Chart above the month of February still has the highest amount of Avocado sell in Large bags of avocado with about 5.7 million Large bags of avocado sell compare the rest of the months.

Avocado: Xlarge Bags Sells Amount of Xlarge bags of Avocado Sold in a Month



• the month of July has the largest sell of Xlarge bags of avocado sell with the sells of over five hundred thousand sells.

highest sell year

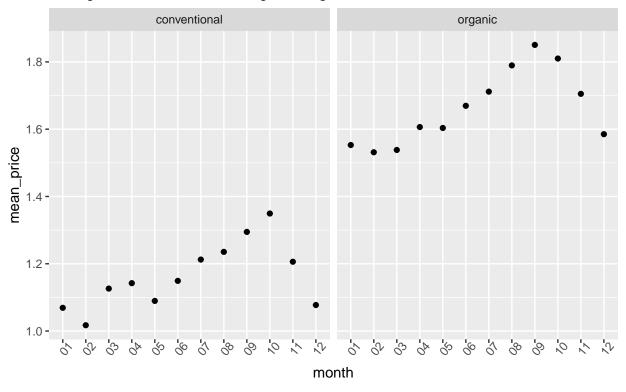


- The viz about shows that 2015 and 2016 has relative sell of avocado between the two year with a slightly higher sell in 2017,
- while 2018 recorded the lowest sell below 1800 sell, and both conventional avocado and organic avocado has the same amount of sells each year.

'summarise()' has grouped output by 'month'. You can override using the
'.groups' argument.

```
## # A tibble: 24 x 3
   # Groups:
                month [12]
##
      month type
                          mean_price
##
      <chr> <chr>
                                <dbl>
    1 01
##
             conventional
                                 1.07
    2 01
##
             organic
                                 1.55
    3 02
             conventional
                                 1.02
##
##
    4 02
             organic
                                 1.53
##
    5 03
             conventional
                                 1.13
##
    6 03
                                 1.54
             organic
##
    7 04
             conventional
                                 1.14
##
    8 04
             organic
                                 1.61
    9 05
##
             conventional
                                 1.09
## 10 05
             organic
                                 1.60
## # ... with 14 more rows
```

Conventional Avocado vs Oganic Avocado Average Price of Conventional Against Organic



- The table shows the average amount 1 avocado in a month.
- average price per type (conventional vs organic) in a month, with Conventional avocado having an average price of 1.0 to 1.34 with February having the lowest \$1.0 and the highest \$1.34 of the October.
- While Organic Avocado has an average price of lowest (1.53) to highest (1.85) February (1.53) and September (1.85).

RECOMMENDATION

solution

- ABC Company should buy and store Avocados in bulk when it's not in demand and sell them when the season is right.
- ABC Company should invest more in Small Bags and Large Bags of avocado and less in the xlarge Bags of avocado during the season of demand, that is because customer tend the buy more of the small and large bags than the xlarge bags.