**Q. 1**

Graphical user interface, application

Description automatically generated

**Q. 2  
Graphical user interface, application, Excel

Description automatically generated**

**Q. 3** Chart, histogram

Description automatically generated

**Q. 4**

The top 5 counties of California from the visualization are:

County State. Avg. Yield

* Placer CA 490.20
* D60 Sierra Mountains CA 446.15
* Yuba CA 359.87
* Butte CA 353.45
* Sutter CA 341.96

**Q. 5**

**Graphical user interface

Description automatically generated**

**Q. 6**

Insights:

* Wheat All and Wheat Winter all follow same pattern throughout all the county’s and with their respective period.
* It can be seen that in D60 Sierra Mountains and Placer, Sorghum for Grain was not grown at all in between 1978 and 1980
* In case of Barley All, Only D60 Sierra Mountains show a strong positive increase in Yield.
* Sorghum for Grain is always at higher Yields

**Q. 7**

Two commodities that show a similar pattern change in average yield throughout the years for all counties are Wheat All and Wheat Winter All

**Q. 8**

**Graphical user interface, application

Description automatically generated**

**Chart, histogram

Description automatically generated**

Graphical user interface, chart

Description automatically generated

**Q. 9**

**Logical rhetoric** was applied to analyse each worksheet and derive meaningful insights. One of the findings was that Sorghum for Grain was the most produced crop among the top five counties in California from 1976-1980.

This approach aligns with our visualizations and narrative as they provide a logical and coherent explanation of the data.