

# School of Basic and Applied Sciences

Course Code : AGRI 2008

Course Name: Statistical Methods



## Graphical Representation of Data

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**Graphical Representation** is a way of analysing numerical data. It exhibits the relation between data, ideas, information and concepts in a diagram. It is easy to understand and it

is one of the most important learning strategies. It always depends on the type of information in a particular domain. There are different types of graphical representation. Some of them are as follows:

**Line Graphs** – Line graph or the linear graph is used to display the continuous data and it is useful for predicting future events over time.

**Bar Graphs** – Bar Graph is used to display the category of data and it compares the data using solid bars to represent the quantities.

**Histograms** – The graph that uses bars to represent the frequency of numerical data that are organised into intervals. Since all the intervals are equal and continuous, all the bars have the same width.

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**Line Plot** – It shows the frequency of data on a given number line. ' x ' is placed above a number line each time when that data occurs again.

**Frequency Table** – The table shows the number of pieces of data that falls within the given interval.

**Circle Graph** – Also known as the pie chart that shows the relationships of the parts of the whole. The circle is considered with 100% and the categories occupied is represented with that specific percentage like 15%, 56%, etc.

**Stem and Leaf Plot** – In the stem and leaf plot, the data are organised from least value to the greatest value. The digits of the least place values from the leaves and the next place value digit forms the stems.

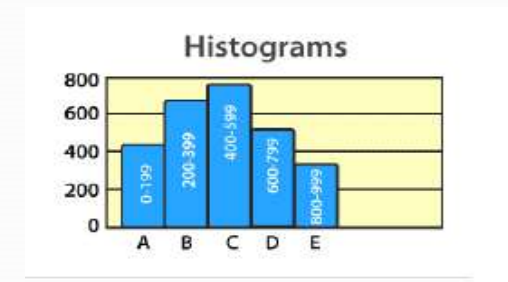
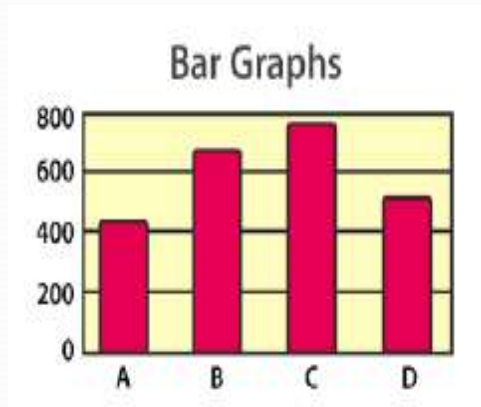
**Box and Whisker Plot** – The plot diagram summarises the data by dividing into four parts. Box and whisker show the range (spread) and the middle ( median) of the data.

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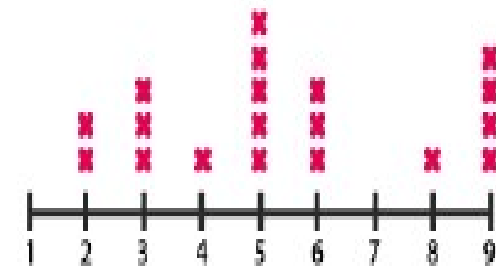
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### Line Graphs



### Line Plot



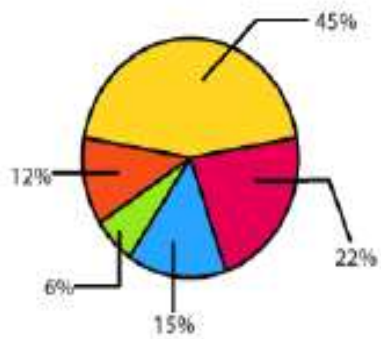
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Circle Graph



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## REFERENCES

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2. Rangaswamy, R. 1995. *A Text Book of Agricultural Statistics*. New Age International (P) Limited, Hyderabad.
3. Chandel, S.R.S., *Hand Book of Agricultural Statistics*. Achal Prakashan Mandir publications, New Delhi.



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