

→ Limitations of Statistics.

In modern times, Statistics has emerged to be of crucial significance in all walks of life. However, it has certain limitations.

Following are some notable limitations of statistics;

① Study of Numerical Facts only: →

Statistics studies only such facts as can be expressed in numerical terms. It does not study qualitative phenomena like honesty, friendship, wisdom, health, patriotism, justice, etc.

② Study of Aggregates only: →

Statistics studies only the aggregates of quantitative facts. It does not study statistical facts relating to any particular unit.

③ Homogeneity of Data, an essential Requirement: →

To compare data, it is essential that statistics are uniform

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In equality. Data of diverse qualities and kinds cannot be compared.

④ Results are True only on an Average: →

Most statistical findings are true only on averages. They express only the broad tendencies. Unlike the laws of natural sciences, statistical observations are not error-free. They are not always valid under all conditions.

⑤ Without Reference, Results may prove to be Wrong: →

In order to understand the conclusions precisely, it is necessary that the circumstances and conditions under which these conclusions have been drawn are also studied. Otherwise, they may prove to be wrong.

⑥ Can be Used only by the Experts: →
Statistics can be used

only by those people who have special knowledge of statistical methods. Those who are ignorant about these methods cannot make sensible use of statistics. It can, therefore, be said that data in the hands of a quack who may abuse it, leading to disastrous consequences. In the other words of Yule and Kendall, "Statistical methods are most dangerous tools in the hands of an inexperienced."

7. Prone to Misuse: →

Misuse of statistics is very common. Statistics may be used to support a pre-drawn conclusion even when it is absolutely false. It is usually said, "Statistics are like clay by which you can make a ~~good~~ god or a devil, as you please." Misuse of statistics is indeed its greatest limitation.

Thank You.