

## AGRICULTURAL STATISTICS AND ITS APPLICATIONS

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### Abstract

Statistics of agriculture subject have a extremely broad exposure and finds a large scope. It acts very essential role in the economy of a state or country. It is important for those countries which depends more on agriculture like india. This paper deals with the study of applications of agricultural statistics. This paper also consists of constituents and classification of agricultural statistics. It provides knowledge of GDP and economy of a country.

**Key Words:** Agriculture, Statistics, Applications, Constituents, Classification, Irrigation.

### Introduction

Agricultural Statistics have done a key role in the improvement of agriculture sector in countries which are standing in developed category, but developing country such as India which depends more on agriculture is more important to apply this subject. India ranks second worldwide in farm outputs. According to data of 2018, 50% of the Indian work force are engaged in agriculture and 17-18% of country's GDP is coming from this.

The usefulness of subject of agricultural statistics is still more significant, because this subject has not been used efficiently thus far. The research of agricultural scientists depends on data coming from statistical and numerical information.

Initiation of present system of data processing has facilitated the planners of agricultural land to make use of latest technical systems and methodologies and requires for new more data.

The farming or agriculture of a place is found as the result of various forces like numerous corporeal, economic, communal, technological, political, organizational, and psychological which interact each other and, hence the different problems of agriculture and its development cannot be solved by partial and isolated approaches. A multidisciplinary advancement is required with a great system of data to solve these.

So, investigators, scientist and system planners have become more aware about the utilization of statistics of data. The data of agriculture are truths and it constructs the agriculture related to use of land area, irrigation, production in agriculture, forestry and worth of the commodities of agriculture.

The agricultural data means the information given in quantitative form may be in figure form on the different features of agriculture of a either micro or macro part. The considering area may be country, state, district, village, farm or the field itself. The agricultural data are useful in various fields like estimation, arrangement and predicting the operation of agriculture in the form of per unit area at a given period.

The subject agricultural statistics has wide coverage area with broad scope. The comprehensive statistics of agricultural is needed at national to various levels such as village and farm for decision making of agricultural policy and agricultural development and will be beneficial to estimates of the income of agricultural and national level.

### Constituents of Agriculture Statistics

- Structure of agriculture: Census (at least decadal).
- Production & consumption related: Current surveys (yearly or cyclic)
- Cost of cultivation: use of inputs, agricultural labour' wage rates
- Agro-processing
- Market Information
  - Price related: wholesale, retail, indices, farm gate, border.
  - Market arrivals, quantities transacted, international trade
- use of land or other kind of natural resources
- Infrastructure
- Finance – rural / agricultural credit
- Technology and Accumulation of resources: machinery of agricultural and tools

- Analytical / derived statistics:
  - Related to Food balance sheets and matrices of food accounting
  - Number of below nourished & other kind of development indicators
- Climate

#### Classification of Agricultural Statistics

- Utilization of land and irrigation, which include the sown region, gross area of cultivation, part of cultivable devestate, unsown which is other than current unsown, supplementary unfarmed land and land of irrigation in seasons of kharif and rabi, etc.
- Production by agricultural sector such as fertilisations, plantations and fisheries .
- Statistics which is related to organization of agriculture and farm compositions, e.g., (iv) Forestry.
- General statistics which is related to literacy of those employed in agriculture sector, health, sanitation field.
- Agricultural prices and wages.
- Statistics associated with climate, rainfall, temperature, soil and its pH value, etc.
- Weather Forecasting, crops and prices, etc.

#### Conclusion

Agricultural statistics is a very important subject. This paper presents a detailed study of applications of Agricultural statistics. It acts a key and important role in the growth of economy of a country. It is intensively important for the country like india which depends more on agriculture. This paper also consists of constituents and classification of Agricultural statistics. It shows the importance of this subject for GDP and economy of a country.

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