



RECENT TRENDS IN AGRICULTURE MANAGEMENT AND TECHNOLOGY

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Abstract :

Change in soil organic carbon stocks significantly influence the atmospheric concentration. Agriculture management practice that increase **SOC** stocks thus may have profound effects on climate mitigation.

Introduction :-

Most challenging task for agriculture science today is to insure for continuous and enough supply of food to growing human civilization. Urban centre's throughout the world have experienced substantial increase in population. This growth is accompanied with change in food habit and rising concerned for food quality, Here food quality refer to the optimum level of nutrition in the food along with the minimize amount of the chemical. (Pesticides/Fertilizers) residues used in the production of the crop. agriculture entrusted with a role of restoring environmental imbalance created due to injudicious / indiscriminate used of the chemical in the agriculture. Along with this issue, increase demand for fuel crop for sustaining the rapidly growing economies is needed.

According to the estimate of un population projection, world population could reach 9.5 billion by 2050, thus the expected rate of increase in world population will be 2.25% over the next 40 years.

- 1) Thus provide for a potentially huge market for food grains and food production need to be double to meet this demand. It is projected that to feed that global population by 2050 require 7% increase in global food production. With food production from developing country need to be double.
- 2) Environmental stress (Climate Change) and shortage of water and land resources are major constraints haunting this task. To the advance in science and information technology has resulted in more comfortable world with global linkage, this advance has head to change in agriculture project in recent past production and productivity of crop have increase along with the increase in fertilizer and pesticide consumption this trend is more conspicuous in develop and industrial countries with developing country like change in made there presence felt by around to fold

increase in cereal yield since 1961. In developing country due to lake of financial resources and knowledge technical advancement farmer are unable to shift to practice of modern intensive agriculture.

- 3) And hence remain isolated from global linkage. Increase in long distance food trade, diet changes and increase in food base retail industry are the indicators, suggesting, that global has affected food systems world-wide.
- 4) At the same time this trend have created for environmental problem as excessive use of chemicals is not desirable in agriculture for preservation of environment, biodiversity and soil quality, thus increase global trade and easy accesses to chemical and technology has contributed to change in agriculture system. Recent trend in agriculture has seen rise in organic agriculture, vertical forming and intensive agriculture.

What is Agriculture Management :-

Agriculture management is an occupation that involves the science of food production. It deal with .farming techniques, demonstration of animals, and the general processing of food .

Since concepts like productivity and food safety play such an importance role in the food supply of the world, new government regulatory body to manage the process of food production from both plant and animal sources in addition, population growth and the use of certain foods such as corn as bio fuel has limited the growth potential of the industry the goal today is to strive for new way to produced the necessary amount of food for the growing population, while maintaining the quality that society has come to expect from its food sources land is the fore most importance factor of production. Since the every agriculture production depend upon the land area available. Land does not support activity take of by the farmer like dairy, poultry, sheep farming etc. land values generally depend on the types of

soil, availability of irrigation, crops and other infrastructural facility like availability of motorable roads, electricity, accessibility to market and agro base industries.

What is Agriculture Technology –

The basic technology of agriculture machines has change little in last century. Below are technology related to agriculture and natural manufacturing under four key areas off accelerating change :- Sensors, Food, Automation and engineering.

1) Sensors :- Sensors help agriculture by enabling real - time traceability and diagnosis of crop, live stock and farm machine state.

2) Food :- Food may benefit directly from genetic tailoring and potentially from producing meat directly in lab.

3) Automation :- Automation will help agriculture via large – scale robotic and micro robots to check and maintain crop at the plant level.

4) Engineering :- Engineering involve technologies that extend the reach of new means, new place and new area of the economy of particular interest will be synthetic biology which allows efficiently re programming unicellular life to make fuels, byproducts accessible from organic chemistry and smart devices.

Objective :-

- 1)To provide and effective mechanism for co-ordination and management of activity of different agencies involve in technology adoption.
- 2)To increase the quality and technology being disseminated.
- 3)To develop new pattern ship with the private institution including NGO's.
- 4)To manage the Water, Chemical, pesticides and technological management.
- 5)To strength research – extension – farmer linkages.
- 6)To increase use of information technology.
- 7)To unable farmer to gear up to the situation, they need to have knowledge on various issues.

Hypothesis :-

- To increase the agriculture production.
- Use the new technology and management in agriculture.
- The minimize amount of the chemical (pesticides/fertilizers) reduced use in the production of the crop.

Key Point :-

- ❖ To determine how to use the new technology and management in agriculture.
- ❖ It helpful to increase the agriculture production and quality product.
- ❖ To fulfill the demand of growing population.

Research Methodology :-

❖ Data collection :-

Secondary data :- Internet, Reference Books, News paper, Journals and other reports and project.

Conclusion :-

In conclusion changing demographic trend and technological advancement are delivering new innovation in the field of agriculture this emerging technology are required to be use judicially to meet growing demand from modern agriculture.

Reference :-

S. Subba Reddy, P. Raghuram, T.V. Neelakanta Sastry, I. Bhavani Devi (2014) Agriculture Economics.

Sharma A. N. and V. K. Sharma, Elements of farm management.

www.fao.org

www.verticalfarming.com

www.pri.org

Shankayan, P. L., Introduction to the economics of agriculture production.