

Textbook of Agricultural and Allied Sciences



Sunil Kumar
P. Smriti Rao
Neelam Kumari
Dangi Pooja Arun
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TEXTBOOK OF AGRICULTURAL AND ALLIED SCIENCES

**Sunil Kumar
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GEOINFORMATICS IN AGRICULTURE

Ashish David, Tarence Thomas and P. Smriti Rao

Agriculture has always been a lifeline for India. Even though with age, India has made a mark in various spheres and has progressed in the manufacturing sector by leaps and bounds, but agriculture still remains one of the key drivers of the economy. Worldwide, India ranks second in farm output and accounts for about 50% of the country's workforce. But this isn't a new phenomenon.

From ancient times, agriculture has played a vital role in India's growth and can be traced back to Indus Valley Civilization. Rich fertile land, plenty of water for irrigation, and domestication of crops and animals were some of the key factors for its success. Other areas where agriculture was a predominant force for rise and fall of many kingdoms were the Gangetic Plain and the Deccan Peninsula area. Even then, the constant evolution of science and technology helped agriculture immensely.

Since then Indian agriculture has witnessed many phases. However, the real success of scientific farming and use of various technologies in agriculture can be attributed to the Green Revolution. In 1960s when India was grappling with frequent droughts, Green Revolution came as a God's blessing.

The golden period in the agriculture sector, facilitated in increasing crop yields by manifolds. Improved agronomic technology allowed India to overcome poor agricultural productivity. A crucial aspect to the success of the Green Revolution in India was the various scientific technologies developed to facilitate more yields. New farming irrigation methods such as drip irrigation, stronger and more resistant pesticides, more efficient fertilizers, and newly

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