

Climate-Resilient Crops: Securing Agriculture in a Changing Climate

Author: S. P. Rathore

Climate change poses significant challenges to agriculture, with unpredictable weather patterns, rising temperatures, and erratic rainfall affecting crop yields. Developing and promoting climate-resilient crops is essential to safeguarding global food security.

Researchers are focusing on breeding drought-tolerant, heat-resistant, and disease-resistant crop varieties. Crops like millets, known for their resilience to harsh conditions, are being promoted as viable alternatives to traditional staples. Advances in genetic engineering and traditional breeding techniques are helping create crops better suited to withstand climate stresses.

Government schemes such as the National Adaptation Fund for

Climate Change (NAFCC) are supporting farmers in adopting climate-smart practices. Collaborations between research institutions, private players, and farming communities will be crucial in building resilience and ensuring the sustainability of agricultural systems.