Many Elements of Adaptation Strategies to Climate Change Need to be Practiced Even Today at the Global and Local Levels

- Investment in research on 'climate proofing'
- Action for management of climatic stresses in normal climate years
- Early warning systems for drought, flood and heat
- Weather based agro-advisories and crop outlooks
- Food, feed, fodder and seed banks

(Aggarwal)

Future research priorities

- Impacts on crops, livestock,fisheries, pests, and microbes
- Evolving ‘adverse climate tolerant’ genotypes and land use systems
- Value-added weather management services: contingency plans; applications of weather forecasts for reducing production risks, pest forecasting systems
- Compendium of indigenous, traditional knowledge for adaptation
- Water and fertilizer management for adaptation and mitigation
- Optimal livestock population considering milk requirement, diet, GHGs, and social issues
- Decision support systems

(Aggarwal)

Strengthening developmental projects

- Surveillance of pests and diseases
- Weather based insurance products to increasing number of farmers
- Community partnerships in food and forage banks to manage scarcity during increased periods of stress.

(Aggarwal)

Policy considerations

- Mainstreaming adaptation perspectives in current policy considerations
- Financial incentives to farmers and agri-industry for resource (carbon, water, energy) conservation
- Enhance investment in water harvesting and efficient water use technologies
- Increased budget allocation for research on 'climate-proofing' agriculture
- Explore international partnerships for joint food security
- Payments to farmers for carbon sequestration should be included in international negotiations

(Aggarwal)