

Climate change and agriculture

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Stakeholder adaptation

- Objective of the strategy: To minimize impacts of a warmer and drier climate while maintaining rural agricultural production and minimizing the environmental damage
- Consideration of effectiveness to minimize the impacts of a warmer and drier climate, cost, and feasibility
- Adequacy for situation without climate change (win-win strategy)

Valuation of attributes of each option

Value	A Assistance required for adoption	B Effectiveness for climate change	C Cost	D Feasibility	E Adequacy for current situation
0	none	none	none	non feasible	highly inadequate
1	very low	very low	very low	very low	inadequate
2	low	low	low	low	somewhat inadequate
3	medium	medium	medium	medium	indifferent
4	high	high	high	high	adequate
5	very high	very effective	very high	very high	very adequate

Examples of adaptation strategies		A	B	C	D	E	*
1.	Tactical advice on changes in crop calendar						
2.	Tactical advice on changes in water needs						
3.	Improve cash return for water and land units						
4.	Management of risk in water availability						
5.	Investment in irrigation technology; Mechanisms of risk-sharing (e.g., insurance)						
6.	Integrated resource management for water and land						
7.	Education on water-saving practices and changes in crop choices						
8.	Private sector participation in development of agro-businesses						
9.	Alternatives for the use of natural resources and infrastructure						
10.	Crop residue incorporation						
11.	Access to fertilizer						
12.	Agricultural extension services, understanding of stresses and responses						
13.	Indigenous knowledge/coping strategies						
14.	Use of short-duration rice varieties						
15.	Crop diversification and crop rotation						
16.	Introduce new crop varieties						
17.	Introduce new crops						
18.	Agroforestry						
19.	Food storage						
20.	Agrometeorological advice to farmers						
21.	Construction of a dam						
22.	Irrigation (new scheme)						
23.	Irrigation (improved system)						
24.	Water harvesting						
25.	Desalination / reutilization plant						
26.	Cease activity						

* Comments