

Research Article



# Farmers' Adaptation Strategies to Combat Climate Change Impacts on Wheat Crop in Pakistan

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**Supplementary Table 1: Sub-indices and their respective indicators for the construction of HACI.**

Economic Wellbeing and Stability		Gender Discrimination		Dependency Burden	
Indicators (range)	Values/ weights	Indicators (range)	Values/ weights	Indicators (range)	Values/ weights
Assets accumulation (1-5)	1 for ≤ 5 assets	Women land rights (0-1)	0 if No 1 if Yes	Household members from prolonged illness [(-2)-0]	0 when no member -1 when 1 -2 when ≥ 2
	2 for b/w 6-10 assets	Decision-making power (0-1)	0 if Not allowed to disagree 1 if Yes allowed		
	3 for b/w 11-15 assets				
	4 for b/w 16-20 assets				
	5 for ≤ 20 assets				
Income diversification (0-3)	0 if no working hour on off farm work	Women health (0-1)	0 if not allowed to visit Doctor 1 if allowed	Non-working household members [(-2)-0]	0 when no member -1 when ≤ 3 2 when b/w 3-11
	1 if less than 50 percent hours	Women skills and off-farm work (0-1)	0 if no skill 1 if any skill possessed		
	2 if less than 75 percent hours		0 if women do not fetch water		
Education (0-4)	3 if more than 75 percent	Women responsibility as caregivers [0 -(-3)]	-1 if women fetch -2 if someone accompany her and have animal to bring water -3 if go alone and no one accompany her		
	0 if no one trained	Women allowed to join any social group (0-1)	0 if not allowed 1 if allowed		
	1 for ≤ 25 percent				
	2 for ≤ 50 percent				
3 for ≤ 75 percent					
4 for more than 75 percent					

	Crop failures due to disaster and strategies to cope with [0-(-4)]	0 no strategy adapted -1 uses personal saving -2 loans from relatives -3 sell personal jewelry/ornaments -4 sell personal assets
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**Supplementary Table 1: *Continue.***

Connectivity in higher level process		Susceptibility to environmental change		Awareness level
Indicators (range)	Values/ weights	Indicators (range)	Values/ weights	Values/ weights
Geographical scope of social capital contacts and social categories a household relies on (0-4)	0 no contact	Contribution of farming to household livelihood [(-3)-(-1)]	-1 if < 30 percent	0 if did not perceive
	1 only with relatives/friends		-2 if 30-70 percent	1 if perceived
	2 when relatives/ friends and civil society		-3 if > 70 percent	
	3 when relatives/ friends and civil society and local public institutions	Cooking energy source [(-2)-(-1)]	-1 gas available -2 wood fuel or cow dung	
	4 when relatives/ friends and civil society and local public institutions and private institutions	Source of drinking water [(-1)-1]	1 if piped water -1 if hand pump/ well/motor pump -2 if pound/ canal water/spring water	
Number of groups to which a household member belongs (0-2)	0 when no group joined	Housing quality (1-3)	1 if low-quality house( <i>katcha Makan</i> )	
	1 when only one group joined		2 if mixed	
	2 for ≥ 2 groups		3 if bricked ( <i>Pakka Makan</i> ) 3 if bricked ( <i>Pakka Makan</i> )	