

Institutional Functionality in Participatory Integrated Watershed Development of Tana Sub-basin, Ethiopia

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This supplementary material supports the main text as follows:

Table S1. Presence of institutional characteristics between the two groups of watershed.

Clarity of Purpose/Objectives		With support of WLRC			Without support of WLRC		
		Agree	Not sure	Dis agree	Agree	Not sure	Dis agree
1	Organization have clear set of objectives	33	28	26	28	33	29
2	The WSD institution's objectives and purpose were clear to everyone	31	23	33	18	26	46
3	Deviation from NRM objectives were not frequent	22	47	18	21	39	30
Good Interaction							
1	There is good watershed committee to facilitate and guide the interactions	43	16	28	19	45	26
2	There is good interaction between different institution	13	54	20	9	55	26
3	There is good interaction between the watershed institution and higher level institutions such as the government.	49	27	11	41	26	23
4	There is coordination mechanism between the watershed committee and the villagers.	41	24	22	24	41	25
5	There is regular meeting	39	25	23	23	34	33
Adaptiveness							
1	The rules and procedures of the watershed institution is flexible or not very rigid	32	29	26	27	31	24
2	There is clear set mechanism for changing the rule of the institution	19	37	31	11	35	44
3	There is a regular review of the rules and systems of the institution	28	37	22	17	41	32
Scale/Size							
1	The size of the watershed is appropriate for efficient management	44	38	5	39	36	15
2	The higher level/ bigger issues/ were properly addressed by higher level authorities/ institutions/ government	45	30	12	41	19	30
3	The lower level/ smaller issues/were properly addressed by lower level groups (e.g. WSC, DAs, individuals)	55	17	15	51	16	23
Compliance							
1	There is strong bylaws and enforcement to protect land resource degradation	47	18	22	26	29	35
2	Members are aware to follow the rule	37	28	22	24	34	32
3	Watershed institution follow its rule to set the compliance	31	29	27	10	44	36
4	The compliance to the rule is sufficient	39	30	18	24	42	24