

## Supplementary of App. Envi. Res. 40(1) (2018): 1-12

### Appendix A. The LVI results of the each Sustainable Livelihood Capitals/Assets

Household Capitals	Component	Subcomponents	Unit	Observed value/Index	Maximum value	Minimum value	Value
<b>Human capital</b>	Health	Households with members suffering chronic illness	%	11.90	100	0	0.119
		Average distance to health care centre	Km	16.43	37	1.3	0.424
	Knowledge and skills	Average schooling years of household heads*	Year	0.19	0.333	0.1	0.374
		Average farming experience of households heads	Year	0.06	0.5	0.02	0.073
		Households who do not own TV at home	%	13.60	100	0	0.136
		Households who do not have mobile phone	%	3.40	100	0	0.034
		Households who do not have radio	%	77.97	100	0	0.780
	Livelihood strategies	Households do not participate in awareness training	%	79.66	100	0	0.797
		Average crop diversification index*		0.29	0.5	0.25	0.158
		Household depending on agriculture as a major source of income	%	100	100	0	1.000
<i>Human capital vulnerability Index</i>							<b>0.389</b>
<b>Natural capital</b>	Natural Resources	Household with small farm (<2.5 ha)	%	20.34	100	0	0.203
		Households who have barrier to access land	%	39.00	100	0	0.390
		Households who do not grow third crop	%	76.27	100	0	0.763
		Households who affected by salt water intrusion	%	13.559	100	0	0.136
		Households who do not collect non-farm product	%	74.58	100	0	0.746
	Climate variability and natural disaster	Households with crop area affected by flood	%	25.40	100	0	0.254
		Households who reported rain decrease in the past 10 year	%	84.70	100	0	0.847
		Households who reported drought increase in the past 10 year	%	39.00	100	0	0.390
		Households who reported flood increase in the past 10 year	%	72.90	100	0	0.729
		Households who reported unusual rain in the past 10 year	%	72.90	100	0	0.729

**Appendix A. The LVI results of the each Sustainable Livelihood Capitals/Assets (continued)**

Household Capitals	Component	Subcomponents	Unit	Observed value/Index	Maximum value	Minimum value	Value
		Households who reported temperature increase in the past 10 year	%	86.40	100	0	0.864
		Mean standard deviation of monthly mean maximum temperature	°C	1.13	2.00	0.74	0.311
		Mean standard deviation of monthly mean minimum temperature	°C	2.91	3.37	2.46	0.495
		Mean standard deviation of monthly mean precipitation	mm	87.28	238.81	3.61	0.356
<b>Natural capital vulnerability Index</b>							<b>0.515</b>
<b>Social capital</b>	Demography	Dependency ratio (<15+>64)/15-64)*100	Ratio	58.78	500	0	0.118
		Average age of household heads	Year	50.98	70	26	0.568
		Female-headed households	%	11.90	100	0	0.119
		Average household family member	Number	4.93	10	2	0.367
	Social networks	Households who did not participate in community affair last year	%	57.60	100	0	0.576
		Households who did not contribute in community affair last year	%	27.10	100	0	0.271
		Households who did not vote in the last election	%	15.30	100	0	0.153
		Households with the least family member is affiliated with any institution	%	52.54	100	0	0.525
<b>Social capital vulnerability Index</b>							<b>0.337</b>
<b>Financial capital</b>	Finance and income	Inverse of rice sale*		0.022	0.127	0.002	0.164
		Households who earn per capita income less than 1300 USD	%	54.24	100.00	0.00	0.542
		Households who did not save money last year	%	59.30	100.00	0.00	0.593
		Households who got very limited credit loan	%	66.10	100.00	0.00	0.661
		Households who have unpaid debt	%	37.29	100.00	0.00	0.373
		Households with family member who do not work in another place	%	84.75	100.00	0.00	0.847

**Appendix A. The LVI results of the each Sustainable Livelihood Capitals/Assets (continued)**

Household Capitals	Component	Subcomponents	Unit	Observed value/Index	Maximum value	Minimum value	Value
<i>Financial capital vulnerability Index</i>							<b>0.530</b>
<b>Physical capital</b>	Transportation	Distance to agricultural market	Km	16.97	37	2	0.428
		Households who do not own motorbike	%	25.40	100	0	0.254
	Production means	Households who do not own water pump	%	35.60	100	0	0.356
		Households who do not own trailer	%	83.10	100	0	0.831
		Households who do not own enough farming equipment	%	8.50	100	0	0.085
		Households who apply less than 50% of necessary fertiliser	%	38.98	100	0	0.390
		Households who do not get extension service from government	%	0.00	100	0	0.000
		Households who do not get extension service from other organisation	%	100.00	100	0	1.000
		<i>Physical capital vulnerability Index</i>					
<b>Livelihood Vulnerability Index (LVI)</b>							<b>0.442</b>