

Evaluating biophysical conservation practices with dynamic land use and land cover in the highlands of Ethiopia

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Supplementary material

Table S1: Types of sensor used, acquisition date and percent cloud cover

Acquisition date	Sensor	Spatial resolution	Path/row	Cloud cover
05-Feb-2020	Landsat 8 OLI TIRS	30m	169/051	0.00
			169/052	0.17
08-Mar-2005	Landsat 7 ETM+	30m	169/051	0.00
			169/052	0.00
12-Feb-1990	Landsat 5 ETM	30m	169/051	0.00
			169/052	0.00

Table S2: Land use classes and accuracy assessment results (1999-2020)

Land Use Class	Reference Totals	Classified Totals	Number Correct	Producers Accuracy (%)	Users Accuracy (%)	Kappa
2020	Water body	22	22	100	100	1
	Forest	27	27	100	100	1
	Cultivated land	49	52	100	94.2	0.92
	Grazing land	36	35	97.2	100	1
	Built-up area	23	21	91.3	100	1
	Total	157	157	154		
Overall Classification Accuracy =				98.1%		
				Overall Kappa Statistics = 0.98		
2005	Water body	24	22	91.7	100	1
	Forest	31	31	96.8	96.8	0.96
	Cultivated land	50	53	100	94.3	0.92
	Grazing land	35	36	97.1	94.5	0.93
	Built-up area	35	33	91.4	96	0.96
	Total	175	175	168		
Overall Classification Accuracy =				96%		
				Overall Kappa Statistics = 0.95		
199	Water body	20	19	95	100	1
	Forest	46	46	97.8	97.8	0.97

Cultivated land	60	64	60	100	93.6	0.91
Grazing land	55	53	53	96.4	100	1
Built-up area	28	27	27	96.4	100	1
Total	209	209	204			
Overall Classification Accuracy = 97.6%						
Overall Kappa Statistics = 0.97%						