

Article

Effect of Land Use and Land Cover Change on Soil Erosion in Erer Sub-Basin, Northeast Wabi Shebelle Basin, Ethiopia

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Table S1. Attributes of soil units and calculated soil erodibility (K) factor.

Soil Units	Area (ha)	K_{usle}	K
Dystric Cambisols	121450.35	0.37	0.36
Haplic Xerosols	16015.44	0.36	0.37
Eutric Cambisols	1891.49	0.32	0.42
Eutric Nitosols	47616.50	0.36	0.37
Eutric Regosols	20856.09	0.36	0.37
Humic Cambisols	29803.86	0.36	0.37

Table S2. List of priority districts identified for SWC in the Erer Sub-Basin.

Name of District	1st Priority Level		2nd Priority Level		3rd Priority Level		4th Priority Level		5th Priority Level		6th Priority Level		7th Priority Level		8th Priority Level	
	Area (km ²)	% of the Priority Area	Area (km ²)	% of the Priority Area	Area (km ²)	% of the Priority Area	Area (km ²)	% of the Priority Area	Area (km ²)	% of the Priority Area	Area (km ²)	% of the Priority Area	Area (km ²)	% of the Priority Area	Area (km ²)	% of the Priority Area
Babile	18.31	18.96	13.07	14.21	11.93	14.42	22.59	16.15	41.21	19.64	95.97	21.61	243.86	27.00	474.01	25.06
Fedis	50.78	52.59	42.05	45.71	33.83	40.89	54.2	38.75	77.44	36.90	174.75	39.35	336.74	37.28	583.69	30.86
Fik	20.75	21.49	14.54	15.80	10.92	13.20	18.93	13.53	37.49	17.87	80.06	18.03	202.59	22.43	662.21	35.01
Gola Oda	0.03	0.03	0.07	0.08	0.05	0.06	0.08	0.06	0.11	0.05	0.20	0.05	0.25	0.03	6.74	0.36
Gursum	0.11	0.11	0.63	0.68	1.19	1.44	2.33	1.67	2.31	1.10	3.53	0.79	3.7	0.41	4.18	0.22
Haramaya	0.09	0.09	0.66	0.72	0.95	1.15	1.95	1.39	2.56	1.22	3.75	0.84	1.15	0.13	4.91	0.26
Harari	4.13	4.28	10.56	11.48	12.35	14.93	21.44	15.33	28.21	13.44	56.16	12.64	88.8	9.83	123.88	6.55
Jarso	0.37	0.38	2.73	2.97	2.49	3.01	2.96	2.12	2.86	1.36	3.83	0.86	4.41	0.49	3.49	0.18
Kombolcha	1.98	2.05	7.69	8.36	9.02	10.90	15.39	11.00	17.65	8.41	25.88	5.83	21.81	2.41	28.52	1.51
Total	96.55	100	92	100	82.73	100	139.87	100	209.84	100	444.13	100	903.31	100	1,891.63	100