

Supplementary Table 1. Pedological characteristics and the erodibility factor (K) of the Umsarang micro-watershed

Sample number	Sand (%)	Silt (%)	Clay (%)	Textural class	SOM (%)	Soil permeability code	Soil Structure Code	M	K
F ₁	27.57	30.75	41.68	Clay	4.43	6	1	1793.34	0.160
F ₂	34.06	32.4	33.54	Clay loam	4.35	4	2	2153.30	0.163
F ₃	37.75	29.39	32.86	Clay loam	4.36	4	2	1973.24	0.151
F ₄	36.03	30.82	33.15	Clay loam	4.35	4	2	2060.32	0.157
F ₅	31.27	31.19	37.54	Clay loam	4.44	4	2	1948.13	0.148
F ₆	28.72	31.76	39.52	Clay loam	4.42	4	2	1920.84	0.146
F ₇	18.97	45.45	35.58	Silty clay loam	4.24	5	2	2927.89	0.253
F ₈	35.63	33.92	30.45	Clay loam	4.34	4	2	2359.14	0.178
F ₉	17.76	46.63	35.61	Silty clay loam	4.21	5	2	3002.51	0.259
F ₁₀	31.35	35.25	33.4	Clay loam	4.27	4	2	2347.65	0.178
F ₁₁	19.31	45.33	35.36	Silty clay loam	4.23	5	2	2930.13	0.253
F ₁₂	29.78	33.47	36.75	Clay loam	4.37	4	2	2116.98	0.160
F ₁₃	37.03	33.52	29.45	Clay loam	4.28	4	2	2364.84	0.179
F ₁₄	19.78	44.38	35.84	Silty clay loam	4.25	5	2	2847.42	0.247
F ₁₅	30.53	33.53	35.94	Clay loam	4.36	4	2	2147.93	0.163
F ₁₆	18.47	46.62	34.91	Silty clay loam	4.26	5	2	3034.50	0.260
F ₁₇	33.55	31.48	34.97	Clay loam	4.37	4	2	2047.14	0.156
F ₁₈	35.67	33.83	30.5	Clay loam	4.31	4	2	2351.19	0.178
A ₁	18.7	51.8	29.5	Silty clay loam	3.04	5	2	3651.90	0.345
A ₂	27.14	30.42	42.44	Clay	3.58	6	1	1750.98	0.169
A ₃	29.1	29.87	41.03	Clay	3.57	6	1	1761.43	0.170
A ₄	29.65	34.83	35.52	Clay loam	3.56	4	2	2245.84	0.184
A ₅	31.34	36.63	32.03	Clay loam	3.42	4	2	2489.74	0.205
A ₆	29.79	24.81	45.4	Clay	3.57	6	1	1354.63	0.140
A ₇	29.59	24.54	45.87	Clay	3.58	6	1	1328.35	0.138
A ₈	19.7	47.8	32.5	Silty clay loam	3.23	5	2	3226.50	0.302
A ₉	31.15	25.38	43.47	Clay	3.58	6	1	1434.73	0.146
A ₁₀	28.08	30.75	41.17	Clay	3.57	6	1	1809.02	0.173

A ₁₁	33.64	32.54	33.82	Clay loam	3.56	4	2	2153.50	0.177
A ₁₂	31.47	32.92	35.61	Clay loam	3.56	4	2	2119.72	0.174
A ₁₃	31.68	33.85	34.47	Clay loam	3.57	4	2	2218.19	0.182
A ₁₄	32.63	30.47	36.9	Clay loam	3.43	4	2	1922.66	0.161
A ₁₅	27.12	30.48	42.4	Clay	3.57	6	1	1755.65	0.169
A ₁₆	40.99	26.19	32.82	Clay loam	3.33	4	2	1759.44	0.150
A ₁₇	31.56	23.94	44.5	Clay	3.58	6	1	1328.67	0.138
A ₁₈	36.26	27.2	36.54	Clay loam	3.43	4	2	1726.11	0.146
A ₁₉	30.76	23.64	45.6	Clay	3.58	6	1	1286.02	0.135
A ₂₀	34.76	26.41	38.83	Clay loam	3.56	4	2	1615.50	0.136
A ₂₁	35.03	34.52	30.45	Clay loam	3.33	4	2	2400.87	0.200
A ₂₂	23.88	28.72	47.4	Clay	3.58	6	1	1510.67	0.151

NOTE- F= Forest soil (n=18), A= Agriculture soil (n=22)