

Supplementary material

Soil erosion estimates in arid region: A case study of Koutine catchment, Southeastern of Tunisia

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Table S1. Particles size distribution and soil texture of samples from impluviums areas.

Table S2. Particles size distribution and soil texture of samples taken from different sites in the Koutine catchment.

Table S1. Particles size distribution and soil texture of samples from impluvium areas.

Cistern	Location	Slope (%)	Clay (%)	Silt (%)	Sand (%)	Texture*	Organic Matter (%)
M5	Upstream	30	11.8	13.0	75.1	SL	0.77
M14	Upstream	6	13.8	6.7	77.9	SL	0.83
F2	Upstream	10	4.7	1.5	91.9	S	0.95
M19	Upstream	17	30.8	3.2	65.1	SCL	1.07
M7	Upstream	15	13.8	10.0	75.7	SL	1.37
M18	Upstream	22	27.3	0.0	72.0	SL	1.55
M4	Upstream	14	4.5	6.0	88.6	S	1.67
M6	Upstream	11	12.0	29.5	56.7	SL	1.84
M2	Upstream	7	8.7	3.5	86.7	LS	1.90
M3	Upstream	2	6.5	2.8	89.2	S	2.02
M8	Downstream	2	3.8	9.2	86.2	LS	0.18
M10	Downstream	3	11.8	6.5	80.6	SL	0.54
M9	Downstream	2	12.7	10.7	75.7	SL	0.65
F3	Downstream	3	9.7	2.8	85.5	LS	0.65
F5	Downstream	6	5.7	2.0	91.7	S	0.95
F6	Downstream	5	3.8	0.0	94.5	S	1.13
M11	Downstream	5	12.0	12.2	75.3	SL	1.31
M13	Middle	3	8.0	0.3	90.6	S	0.54
M12	Middle	2	8.8	4.8	85.1	LS	0.65
F4	Middle	3	10.2	1.5	87.1	LS	1.01
M17	Middle	2	32.2	11.8	54.7	SL	1.19
F1	Middle	5	8.0	6.2	85.1	LS	1.37
M15	Middle	2	21.0	0.0	77.6	SL	1.61
M16	Middle	5	24.8	6.5	67.4	SL	1.84
M1	Middle	5	10.2	0.0	89.0	LS	1.90

*Where: SL: Sandy Loam, S: Sandy, SCL: Sandy Clay Loam and LS: Loamy Sand.

Table S2. Particles size distribution and soil texture of samples taken from different sites in the Koutine catchment.

Sample	Location	Slope (%)	Clay (%)	Silt (%)	Sand (%)	Texture*
E2	Upstream	2.1	14.5	2.5	82.5	SL
E3	Upstream	3.2	9.5	2.5	87.3	LS
E4	Upstream	3.2	14.5	2.5	82.9	SL
E5	Upstream	3.5	7.0	27.5	64.2	SL
E6	Upstream	2.7	7.0	10.0	81.6	LS
E7	Upstream	2.5	14.5	5.0	79.4	SL
E8	Upstream	2.1	14.5	5.0	80.5	SL
E9	Upstream	6.2	17.0	7.5	73.9	SL
E10	Middle	5.6	9.5	5.0	84.7	LS
E11	Middle	5.7	14.5	7.5	77.3	SL
E12	Upstream	2.1	12.0	5.0	82.6	LS
E13	Downstream	0.5	14.5	0.0	84.5	SL
E14	Downstream	0.4	7.0	0.0	92.7	S
E15	Downstream	0.3	4.5	2.5	92.6	S
E16	Downstream	0.2	9.5	2.5	88.0	LS
E17	Downstream	0.3	12.0	5.0	82.8	LS
E18	Downstream	0.9	7.0	0.0	92.5	S
E19	Downstream	0.5	9.5	0.0	90.3	S
E20	Middle	3.8	12.0	7.5	79.7	SL
E21	Middle	1.2	12.0	2.5	85.2	LS
E22	Downstream	0.3	7.0	5.0	86.5	LS
E23	Middle	0.5	14.5	7.5	77.7	SL
E24	Downstream	0.4	14.5	7.5	78.0	SL
E25	Middle	0.5	14.5	5.0	80.2	SL
E26	Downstream	0.4	12.0	10.0	76.0	SL
E27	Upstream	3.9	16.8	11.0	71.8	SL
E28	Upstream	4.0	10.2	6.8	81.7	LS
E29	Upstream	5.3	14.5	10.0	74.2	SL
E30	Middle	4.3	14.5	0.0	85.2	LS
E31	Middle	4.1	9.5	2.5	86.8	LS
E32	Middle	1.0	9.5	2.5	87.6	LS
E33	Middle	3.9	17.0	5.0	77.5	SL
E34	Downstream	0.2	8.5	1.5	89.9	S
E35	Upstream	2.6	14.5	29.8	55.6	SL
E36	Upstream	4.7	10.3	7.8	81.9	LS
E37	Middle	0.5	5.3	5.7	87.6	LS
E38	Upstream	5.1	4.7	2.5	91.7	S

*Where: SL: Sandy Loam, S: Sandy, SCL: Sandy Clay Loam and LS: Loamy Sand.