Oklahoma Ephemeral Gully Erosion Prediction Table

R = 255

RUSLE

Approximate CP Allowed Without Treatment for Ephemeral Gully Erosion

This table is to be used only as a guide for conservation treatment of ephemeral gullies. It shall not take the place of onsite field observations.

RUSLE	Average Land Slope			
K	.5-1	1-3	3-5	5-8
.14	0.60	0.60	0.60	0.16
.16	0.60	0.60	0.50	0.08
.20	0.60	0.60	0.25	0.06
.23	0.60	0.35	0.10	0.03
.26	0.60	0.30	0.08	0.03
.30	0.25	0.08	0.04	0.02
.35	0.50	0.17	0.06	0.02
.40	0.25	0.10	0.04	0.02

The figures shown in the table below are the average annual soil loss amounts (tons/ac/yr) from ephemeral erosion only, computed on a weighted average rate for the entire field. Soil loss from RUSLE and/or WEQ should be added to this amount to get total soil loss from the field. These table values are only to be used for reporting soil loss values. Ephemeral gully erosion will be assumed to be zero on fields with adequate terrace systems.

RUSLE	0.5 - 1.0 Percent Slope							1.0 - 3.0 Percent Slope							3.0 - 5.0 Percent Slope							5.0 - 8.0 Percent Slope						
K	CP Factors							CP Factors							CP Factors							CP Factors						
value	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.05	0.10	0.20	0.30	0.40	0.50	0.60
0.14	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.2	0.4	0.8	1.0	1.2	1.4	1.5
0.16	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.6	0.7	0.8	0.4	0.8	1.5	2.1	2.7	3.2	3.6
0.20	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.2	0.4	0.6	0.8	1.0	1.1	1.2	0.6	1.2	2.1	2.9	3.6	4.2	4.8
0.23	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.1	0.3	0.5	0.6	0.8	0.9	0.9	0.4	0.7	1.3	1.7	2.1	2.5	2.7	1.1	2.0	3.6	5.1	6.4	7.4	8.5
0.26	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.2	0.3	0.5	0.7	0.9	1.0	1.1	0.4	0.8	1.5	2.0	2.4	2.8	3.1	1.3	2.3	4.1	5.7	7.2	8.5	9.8
0.30	0.2	0.3	0.6	0.8	0.9	1.1	1.2	0.4	0.8	1.3	1.8	2.1	2.4	2.7	1.0	1.9	3.3	4.4	5.3	6.1	6.7	2.1	4.0	7.2	9.9	12.2	14.3	16.1
0.35	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.2	0.5	0.8	1.1	1.3	1.5	1.6	0.6	1.2	2.1	2.9	3.6	4.1	4.6	1.5	2.9	5.2	7.2	9.0	10.5	12.0
0.40	0.3	0.4	0.6	0.8	1.0	1.1	1.3	0.4	0.7	1.2	1.6	1.9	2.2	2.4	0.8	1.5	2.6	3.5	4.2	4.7	5.2	1.9	3.5	6.1	8.3	9.9	11.4	12.6