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Soil Type and Erodibility (K) A measure of the susceptibility of soil particles to erosion Affected by soil texture, structure, organic matter, profile permeability and other parameters Generally, fine sands and silts are most erodible, but dispersible

clays can be highly erodible















| Cover Type (C) for Grass | | | | | | | | |
|--------------------------|---|-----------------------------------|-----|--|--|--|--|--|
| | Grass Cover | C-Factor | | | | | | |
| | No cover, soil smooth and compacted | 1.0 (High) | | | | | | |
| | 20% | 0.45 (Med) | | | | | | |
| | 50% | 0.15 (Low) | | | | | | |
| | 70% | 0.05 | | | | | | |
| | 100% | < 0.01 | | | | | | |
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| ר | | | 3) T | ter Rosewell able E4 |
|----------------------|--------|---------------------------------|-------------------------|-----------------------------------|
| Soil texture | Symbol | Estimated clay content (%) | K-factor ^[1] | |
| Sand | S | < 10 | 0.015 | |
| Clayey sand | CLS | 5-10 | 0.025 | |
| Loamy sand | LS | 5-10 | 0.020 | 1 |
| Sandy loam | SL | 10-15 | 0.030 | |
| Fine sandy loam | FSL | 10-20 | 0.035 | |
| Sandy clay loam | SCL | 15-20 | 0.025 | |
| Loam | L | about 25 | 0.040 | |
| Loam, fine sandy | Lfsy | about 25 | 0.050 | |
| Silt loam | SIL | about 25 and more than 25% silt | 0.055 | |
| Sandy clay loam | SCL | 20-30 | [0.043] | |
| Clay loam | CL | 30-35 | 0.030 | |
| Silty clay loam | SICL | 30-35 and more than 25% silt | 0.040 | |
| Fine sandy clay loam | FSCL | 30-35 | 0.025 | |
| Sandy clay | SC | 35-40 | 0.017 | 1 |
| Sity clay | SIC | 35-40 and more than 25% silt | 0.025 | 1 |
| Light clay | LC | 35-40 | 0.025 | 1 |
| Light medium clay | LMC | 40-45 | 0.018 | 1 |
| Nedium clay | MC | 45-55 | 0.015 | |
| Heavy clay | HC | > 50 | 0.012 | Centre for Environmental Training |











| | LS-factor | | | | | | | | | | | | |
|-----------|-----------|-------|------|------|-------|--------------|---------|--------------|--------------|----------|--------------|----------|----|
| | | | | | | | | | | | | | |
| | | Table | E3 - | Slop | e-len | gth, L | S-fac | ors fo | or RU | SLE | | | |
| Slope gra | | | | | | | e lengt | | | | | | _ |
| (%) | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 150 | 1 |
| 1 | 0.09 | 0.11 | 0.13 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.23 | 0 |
| 2 | 0.14 | 0.18 | 0.24 | 0.28 | 0.31 | 0.34 | 0.36 | 0.39 | 0.41 | 0.43 | 0.44 | 0.52 | 0 |
| 3 | 0.17 | 0.24 | 0.34 | 0.41 | 0.47 | 0.52 | 0.57 | 0.61 | 0.65 | 0.69 | 0.72 | 0.87 | 1 |
| 4 | 0.21 | 0.30 | 0.44 | 0.54 | 0.63 | 0.71 | 0.78 | 0.85 | 0.91 | 0.97 | 1.03 | 1.26 | 1. |
| 5 | 0.24 | 0.36 | 050 | 0.68 | 0.80 | 09 | 1.01 | 1.10 | 1.19 | 1.27 | 1.35 | 1.70 | 2 |
| 6 | 0.28 | 0.42 | 0.64 | 0.81 | 0.97 | 1.11 | 1.24 | 1.36 | 1.47 | 1.58 | 1.68 | 2.14 | 2 |
| 8 | 0.34 | 0.53 | 0.83 | 1.08 | 1.31 | 1.51 | 1.70 | 1.88 | 2.05 | 2.21 | 2.37 | 3.07 | 3. |
| 10 | 0.42 | 0.68 | 1.09 | 1.44 | 1.75 | 2.04 | 2.31 | 2.56 | 2.81 | 3.04 | 3.27 | 4.06 | 4 |
| 12 | 0.52 | 0.85 | 1.39 | 1.85 | 2.27 | 2.66 | 3.02 | 3.37 | 3.70 | 4.02 | 4.33 | 5.77 | 7 |
| 14 | 0.62 | 1.02 | 1.69 | 2.26 | 2.79 | 3.28 | 3.74 | 4.18 | 4.61 | 5.02 | 5.42 | 7.27 | 8. |
| 16 | 0.71 | 1.19 | 1.98 | 2.67 | 3.31 | 3.90 | 4.46 | 5.00 5.81 | 5.52 6.42 | 6.02 | 6.51 7.59 | 8.78 | - |
| 18 | 0.80 | 1.35 | 2.27 | 3.07 | 3.82 | 4.51 | 5.17 | 5.81 | 6.42 7.32 | 8.01 | 7.59 | - | - |
| 20 | 0.89 | 1.50 | 3.23 | 3.47 | 4.32 | 5.12 6.59 | 5.88 | 6.61 8.57 | 7.32 | 0.01 | 0.68 | - | - |
| 30 | 1.09 | 2.23 | 3.86 | 5.32 | 6.69 | 7.99 | 9.23 | 0.07 | 0.01 | - | | - | - |
| 40 | 1.20 | 2.83 | 4.98 | 6.92 | 8.74 | 7.99 | 9.23 | | | <u> </u> | - | <u> </u> | - |
| 40 | 1.81 | 3.33 | 5.89 | 8.22 | 0.74 | | | | | <u> </u> | - | <u> </u> | ⊢ |





| | Conservation Practice (P) Table E11 | | | | | | | |
|----|---|--------------------|--|--|--|--|--|--|
| Γ | Table E11 - Erosion control practice, P-fact Surface condition | tors P-factor | | | | | | |
| | Compacted and smooth (default construction phase condition) | 1.3 | | | | | | |
| | Trackwalked along the contour | 1.2 | | | | | | |
| | Trackwalked up and down the slope | 0.9 | | | | | | |
| | Straw punched into loose ground by disc harrow | 0.9 | | | | | | |
| | Loose to 300 mm depth | 0.8 | | | | | | |
| | Note: [1] Straw mulch has been punched into a loose ground surface wi | th a disc harrow. | | | | | | |
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| | Cover Type (C-factor) for Grass | | | | | | | | |
|----|---|-----------------------------------|--|--|--|--|--|--|--|
| | Grass Cover | C-Factor | | | | | | | |
| | No cover, soil smooth and compacted | 1.0 (High) | | | | | | | |
| | 20% | 0.45 (Med) | | | | | | | |
| | 50% | 0.15 (Low) | | | | | | | |
| | 70% | 0.05 | | | | | | | |
| | 100% | < 0.01 | | | | | | | |
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