Factor	Estimation of factor	Estimation of uncertainty
R	**(a)** $R = (79 + 0.363 \times r) \times 9.8$ (Babu et al., 1978)	**(b)** $\delta R = 3.558 \times \delta r$
K	**(c)** $100\,K = 2.1 \times 10^{-4} \times (12\text{-OM}) \times M^{1.14} + 3.25 \times (sc-2) + 2.5 \times (p-3)$ (Wischmeier and Smith, 1978)	δK = Calculated–Measured = 0.0026 (65 % confidence interval) (Wischmeier and Smith, 1978)
L	**(d)** $L = \frac{(\lambda_{i-1}+D)^{m+1}-(\lambda_{i-1})^{m+1}}{D(22.13)^m}$ (Wischmeier and Smith, 1978; Desmet and Govers, 1996)	**(e)** $\frac{\delta L}{L} = \sqrt{(\frac{m}{\Delta x}\delta\Delta x)^2 + (\ln(m+1)\delta m)^2}$ where, $\delta m = \frac{\Delta m}{2\sqrt{6}}$ (triangular distribution)
S	**(f)** $S = 10.8 \times \sin\theta + 0.03$ for slope < 9 %; $S = 16.8 \times \sin\theta - 0.05$ for slope < 9 % (McCool et al., 1987)	**(g)** $\delta S = 10.8 \times \cos\theta \times \delta\theta$ slope < 9 %, $\delta S = 16.8 \times \cos\theta \times \delta\theta$ slope < 9% **(h)** $\delta\theta = \sqrt{\left(\frac{\delta\Delta h}{\Delta x \times \left(1+\left(\frac{\Delta h}{\Delta x}\right)^2\right)}\right)^2 + \left(\frac{-\delta\Delta x}{\Delta h \times \left(1+\left(\frac{\Delta x}{\Delta h}\right)^2\right)}\right)^2}$
C	Reference tables (Morgan, 2009; FAO, 1978)	**(i)** $\delta C = \frac{\Delta C}{2\sqrt{6}}$ (triangular distribution)
P		**(j)** $\delta P = \frac{\Delta P}{2\sqrt{6}}$ (triangular distribution) (JCGM, 2008)
SDR	**(k)** $\text{SDR} = 1.42 \times A^{-0.132}$ (Sharda and Ojasvi, 2016)	**(l)** $\delta\text{SDR}_{\text{model}} = \sqrt{(\exp(se^2)-1) \times \exp(2\ln(\text{SDR}) + se^2)}$ where, SE = standard error (0.048) **(m)** $\delta\text{SDR}_{\text{input data}} = 0.18 \times A^{-1.132} \times \delta A$ where $\delta A = n \times 2\Delta x \times \delta\Delta x$ **(n)** $\delta\text{SDR} = \sqrt{(\delta\text{SDR}_{\text{model}})^2 + (\delta\text{SDR}_{\text{input data}})^2}$