$$\text{Runoff}_{initial} = \frac{(1.123206 * \text{Pest}_{field} * \text{App}_{eff} * \text{Runoff}_{area} * \text{Runoff}_{\%} * \text{KD}_{\%} * \text{Deg}_{\%}/\text{Depth}_{incorp})}{20}$$

Pest_{field} = Initial pesticide in the field

App_{eff} = Pesticide application efficiency

Runoff_{area} = Runoff area; set to 10 ha

$\text{Runoff}_{\%}$ = Percent of runoff from field; set to 10%

$\text{KD}_{\%}$ = Fraction of pesticide dissolved after adsorption to soil and/or organic matter

$\text{Deg}_{\%}$ = Fraction of pesticide remaining in the field on each of the seven days post application

Depth_{incorp} = Incorporation depth (in); smallest value is 1”