

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA CS-134.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position
	1	2	3	1	2	3	1	2	3	1	2	3	
Coefficient of Determination (R-squared) =				0.58	0.59	0.51				0.03	0.05	0.03	in
	PCC	PCC	PCC	SRC	SRC	SRC	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	Variable
													List
Cover erosion rate	0.76	0.76	0.71	0.76	0.75	0.71	0.04	0.08	0.00	0.04	0.08	0.00	15
Depth of roots	0.05	0.12	0.06	0.03	0.08	0.04	0.03	0.06	0.03	0.03	0.06	0.03	10
b Parameter of Unsaturated zone	-0.11	-0.02	-0.03	-0.07	-0.01	-0.02	-0.08	0.04	0.00	-0.08	0.04	0.00	6
Depth of soil mixing layer	-0.02	0.09	0.01	-0.01	0.06	0.00	-0.02	0.12	0.00	-0.02	0.11	0.00	9
Evapotranspiration coefficient	0.07	-0.01	0.02	0.04	-0.01	0.01	0.02	-0.03	0.02	0.02	-0.03	0.02	3
Kd of Cs-134 in Saturated Zone	0.03	0.01	0.02	0.02	0.01	0.02	0.06	-0.03	0.02	0.06	-0.03	0.02	17
Kd of Cs-134 in Contaminated Zone	-0.06	0.03	-0.03	-0.04	0.02	-0.02	-0.06	-0.05	-0.14	-0.06	-0.05	-0.14	16
Humidity in air	0.06	0.01	-0.02	0.04	0.00	-0.01	0.01	0.01	0.03	0.01	0.01	0.03	14
Wind Speed	0.04	-0.08	-0.02	0.03	-0.05	-0.01	0.07	0.00	0.02	0.07	0.00	0.02	4
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.00	-0.04	-0.01	0.00	-0.03	-0.01	-0.01	-0.05	0.00	-0.01	-0.05	0.00	11
Contaminated zone b parameter	0.04	-0.02	-0.06	0.02	-0.01	-0.04	0.01	-0.02	-0.03	0.01	-0.02	-0.03	2
Well pump intake depth	-0.03	-0.06	0.03	-0.02	-0.04	0.02	-0.07	-0.06	0.01	-0.07	-0.05	0.01	18
Runoff coefficient	0.01	-0.04	-0.01	0.00	-0.03	-0.01	-0.02	0.03	-0.05	-0.02	0.03	-0.05	5
Wet foliar interception fraction of leafy vegetables	0.01	0.05	-0.09	0.01	0.03	-0.06	-0.04	0.08	-0.03	-0.04	0.08	-0.03	13
Indoor dust filtration factor	0.00	-0.01	0.03	0.00	-0.01	0.02	0.00	-0.06	0.00	0.00	-0.06	0.00	8
Mass loading for inhalation	0.03	0.01	-0.01	0.02	0.00	-0.01	0.01	0.00	-0.01	0.01	0.00	-0.01	7
Weathering removal constant of all vegetation	-0.02	-0.01	0.02	-0.01	-0.01	0.01	0.00	-0.05	0.05	0.00	-0.04	0.05	12
Contaminated zone erosion rate	-0.03	0.01	0.01	-0.02	0.01	0.01	-0.05	-0.03	-0.03	-0.05	-0.03	-0.03	1

The coefficient of determination ranges from 0 to 1; it provides a measure of the variation in the dependent variable (Dose or Risk) that is explained by the variation in the independent variables under the assumed linear regression model.