

Title : RESRAD Default Parameters
File : FCS SOIL UNCERTAINTY ANALYSIS CE-144.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												Position in Variable List	
	Coefficient of Determination (R-squared) =													
	1	2	3	1	2	3	1	2	3	1	2	3		
	0.99	0.99	0.99								0.92	0.92	0.92	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
Depth of roots	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-0.96	-0.96	-0.96	-0.96	-0.96	-0.96	-0.96	11
Indoor dust filtration factor	0.10	0.04	0.03	0.01	0.00	0.00	0.02	0.09	0.03	0.00	0.03	0.01		9
Mass loading for inhalation	0.02	0.11	0.01	0.00	0.01	0.00	0.06	0.13	0.02	0.02	0.04	0.01		8
Wet foliar interception fraction of leafy vegetables	-0.01	0.09	0.04	0.00	0.01	0.00	-0.01	0.03	-0.03	0.00	0.01	-0.01		14
Depth of soil mixing layer	-0.02	-0.09	-0.02	0.00	-0.01	0.00	0.02	-0.02	-0.03	0.01	0.00	-0.01		10
Kd of Ce-144 in Contaminated Zone	0.03	0.03	0.04	0.00	0.00	0.00	0.03	-0.06	0.07	0.01	-0.02	0.02		16
Well pump intake depth	0.01	-0.02	0.10	0.00	0.00	0.01	-0.04	-0.11	0.07	-0.01	-0.03	0.02		6
Kd of Ce-144 in Unsaturated Zone 1	0.06	-0.01	0.04	0.00	0.00	0.00	0.05	-0.03	-0.05	0.01	-0.01	-0.02		17
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.01	0.10	-0.01	0.00	0.01	0.00	-0.01	0.00	0.01	0.00	0.00	0.00		12
Kd of Ce-144 in Saturated Zone	0.04	0.03	0.00	0.00	0.00	0.00	-0.01	0.08	0.04	0.00	0.02	0.01		18
Wind Speed	-0.03	0.06	-0.07	0.00	0.00	-0.01	-0.01	-0.02	-0.05	0.00	0.00	-0.01		4
Contaminated zone b parameter	0.06	0.01	-0.04	0.00	0.00	0.00	-0.01	-0.03	-0.06	0.00	-0.01	-0.02		2
Runoff coefficient	0.06	0.01	-0.04	0.00	0.00	0.00	-0.06	0.05	-0.09	-0.02	0.01	-0.03		5
b Parameter of Unsaturated zone 1	0.00	0.04	-0.02	0.00	0.00	0.00	-0.08	-0.09	0.03	-0.02	-0.02	0.01		7
Evapotranspiration coefficient	0.04	0.02	-0.03	0.00	0.00	0.00	-0.02	0.02	-0.01	-0.01	0.01	0.00		3
Weathering removal constant of all vegetation	-0.01	0.02	-0.03	0.00	0.00	0.00	0.00	0.07	-0.06	0.00	0.02	-0.02		13
Humidity in air	0.04	-0.03	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.00	0.01	0.00		15
Contaminated zone erosion rate	0.00	-0.01	0.02	0.00	0.00	0.00	-0.13	-0.12	-0.04	-0.04	-0.03	-0.01		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.