Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS CS-137.RAD

Regression Coefficients for Peak All Pathways

Repetition =	1	2	3	1	2	3	1	2	3	1	2	3	Position
Coefficient of Determination (R-squared) =				0.99	0.99	0.99				0.92	0.92	0.92	in
Description of Probabilistic Variable	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	Variable List
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	11
Kd of Cs-137 in Contaminated Zone	0.07	0.09	0.00	0.01	0.01	0.00	-0.02	0.00	0.06	-0.01	0.00	0.02	19
Wind Speed	0.01	-0.04	-0.12	0.00	0.00	-0.01	0.02	0.03	-0.05	0.01	0.01	-0.01	4
Weathering removal constant of all vegetation	-0.05	-0.10	0.03	0.00	-0.01	0.00	-0.02	-0.08	0.04	-0.01	-0.02	0.01	13
Contaminated zone erosion rate	-0.02	0.00	-0.09	0.00	0.00	-0.01	0.05	-0.08	-0.03	0.01	-0.02	-0.01	1
Indoor dust filtration factor	0.03	0.04	0.03	0.00	0.00	0.00	-0.04	0.01	0.00	-0.01	0.00	0.00	9
Mass loading for inhalation	-0.04	-0.05	-0.01	0.00	0.00	0.00	-0.05	-0.02	-0.02	-0.01	-0.01	-0.01	8
Kd of Cs-134 in Contaminated Zone	0.04	-0.01	0.04	0.00	0.00	0.00	0.04	-0.04	-0.04	0.01	-0.01	-0.01	16
Well pump intake depth	0.06	-0.05	-0.06	0.01	0.00	-0.01	0.07	-0.03	-0.06	0.02	-0.01	-0.02	6
Kd of Cs-134 in Unsaturated Zone 1	-0.05	0.04	-0.04	0.00	0.00	0.00	0.09	0.02	-0.03	0.03	0.00	-0.01	17
Contaminated zone b parameter	-0.05	0.04	-0.05	0.00	0.00	0.00	-0.04	-0.01	0.00	-0.01	0.00	0.00	2
Wet foliar interception fraction of leafy vegetables	-0.01	0.06	-0.01	0.00	0.01	0.00	-0.02	0.04	-0.06	-0.01	0.01	-0.02	14
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.04	0.00	0.00	0.00	0.00	0.00	-0.07	-0.06	-0.01	-0.02	-0.02	0.00	12
Evapotranspiration coefficient	-0.04	0.11	-0.10	0.00	0.01	-0.01	-0.06	0.07	-0.07	-0.02	0.02	-0.02	3
Runoff coefficient	0.00	0.02	-0.05	0.00	0.00	0.00	0.00	0.03	-0.03	0.00	0.01	-0.01	5
Depth of soil mixing layer	-0.05	-0.01	0.05	0.00	0.00	0.00	-0.02	-0.05	0.04	-0.01	-0.01	0.01	10
Kd of Cs-134 in Saturated Zone	0.01	0.05	-0.07	0.00	0.00	-0.01	-0.03	-0.03	-0.01	-0.01	-0.01	0.00	18
Kd of Cs-137 in Saturated Zone	-0.04	0.07	-0.02	0.00	0.01	0.00	-0.05	0.01	-0.05	-0.01	0.00	-0.02	21
b Parameter of Unsaturated zone 1	-0.05	0.06	-0.01	0.00	0.01	0.00	-0.04	0.02	0.02	-0.01	0.01	0.01	7
Humidity in air	0.00	-0.01	0.01	0.00	0.00	0.00	-0.03	-0.03	0.02	-0.01	-0.01	0.00	15
Kd of Cs-137 in Unsaturated Zone 1	-0.04	0.01	0.03	0.00	0.00	0.00	-0.06	0.01	0.05	-0.02	0.00	0.01	20

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.