Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS PU-238.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	-0.99	-0.99	-0.99	-0.99	-0.99	-0.99	-0.96	-0.96	-0.96	-0.96	-0.96	-0.96	11
Mass loading for inhalation	0.26	0.37	0.31	0.03	0.04	0.04	0.10	0.16	0.06	0.03	0.05	0.02	8
Indoor dust filtration factor	0.33	0.30	0.29	0.04	0.03	0.03	0.04	0.12	0.06	0.01	0.03	0.02	9
Wind Speed	-0.23	-0.18	-0.29	-0.03	-0.02	-0.03	-0.04	-0.04	-0.08	-0.01	-0.01	-0.02	4
Weathering removal constant of all vegetation	-0.07	-0.04	-0.11	-0.01	0.00	-0.01	0.00	0.07	-0.06	0.00	0.02	-0.02	13
Wet foliar interception fraction of leafy vegetables	0.00	0.07	0.10	0.00	0.01	0.01	-0.01	0.03	-0.03	0.00	0.01	-0.01	14
Kd of Pu-238 in Unsaturated Zone 1	0.06	0.03	0.03	0.01	0.00	0.00	0.05	-0.03	-0.06	0.01	-0.01	-0.02	17
Humidity in air	-0.03	-0.02	-0.05	0.00	0.00	-0.01	0.01	0.02	0.01	0.00	0.01	0.00	15
Well pump intake depth	0.02	0.02	0.04	0.00	0.00	0.00	-0.04	-0.11	0.07	-0.01	-0.03	0.02	6
Kd of Pu-238 in Contaminated Zone	-0.02	0.02	0.07	0.00	0.00	0.01	0.03	-0.03	0.07	0.01	-0.01	0.02	16
Depth of soil mixing layer	0.00	-0.04	-0.04	0.00	0.00	0.00	0.03	-0.01	-0.03	0.01	0.00	-0.01	10
Kd of Pu-238 in Saturated Zone	0.06	0.04	-0.04	0.01	0.00	0.00	0.00	0.03	0.03	0.00	0.01	0.01	18
Evapotranspiration coefficient	-0.02	-0.04	0.00	0.00	0.00	0.00	-0.02	0.02	-0.01	-0.01	0.01	0.00	3
Contaminated zone b parameter	0.03	-0.02	-0.04	0.00	0.00	0.00	-0.01	-0.03	-0.06	0.00	-0.01	-0.02	2
Runoff coefficient	0.10	-0.01	-0.07	0.01	0.00	-0.01	-0.06	0.05	-0.09	-0.02	0.01	-0.03	5
b Parameter of Unsaturated zone 1	-0.04	0.06	-0.04	0.00	0.01	0.00	-0.08	-0.09	0.02	-0.02	-0.03	0.01	7
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.03	0.08	-0.03	0.00	0.01	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	12
Contaminated zone erosion rate	0.00	-0.07	0.07	0.00	-0.01	0.01	-0.12	-0.12	-0.05	-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.