Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS PU-240.RAD

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 Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition = 1 PRCC	2 PRCC	3 PRCC	1 SRRC	2 SRRC	3 SRRC	1 PCC	2 PCC	3 PCC	1 SRC	2 SRC	3 SRC	Position in Variable List
Coefficient of Determination (R-squared) =				0.91	0.94	0.95				0.56	0.64	0.61	
Depth of roots	-0.95	-0.97	-0.98	-0.95	-0.97	-0.97	-0.74	-0.79	-0.78	-0.73	-0.79	-0.78	11
Kd of Pu-240 in Saturated Zone	-0.20	-0.20	-0.19	-0.06	-0.05	-0.04	-0.02	-0.04	-0.05	-0.02	-0.02	-0.03	18
Mass loading for inhalation	0.14	0.21	0.18	0.04	0.05	0.04	0.05	0.09	0.05	0.03	0.05	0.03	8
Kd of Pu-240 in Contaminated Zone	-0.19	-0.13	-0.09	-0.06	-0.03	-0.02	-0.05	-0.05	-0.01	-0.03	-0.03	-0.01	16
Indoor dust filtration factor	0.08	0.18	0.15	0.02	0.04	0.03	-0.03	0.06	0.01	-0.02	0.03	0.01	9
Runoff coefficient	-0.12	-0.11	-0.09	-0.04	-0.03	-0.02	-0.10	-0.06	-0.07	-0.07	-0.04	-0.05	5
Contaminated zone erosion rate	-0.10	-0.09	-0.12	-0.03	-0.02	-0.03	-0.06	-0.05	-0.04	-0.05	-0.03	-0.02	1
Evapotranspiration coefficient	-0.11	-0.09	-0.10	-0.03	-0.02	-0.02	-0.10	-0.05	-0.10	-0.07	-0.03	-0.06	3
Wind Speed	-0.08	-0.09	-0.13	-0.03	-0.02	-0.03	0.00	-0.01	0.01	0.00	-0.01	0.01	4
Well pump intake depth	-0.12	-0.06	-0.09	-0.03	-0.01	-0.02	-0.12	-0.09	-0.05	-0.08	-0.06	-0.03	6
Wet foliar interception fraction of leafy vegetables	0.06	0.14	0.04	0.02	0.03	0.01	0.02	0.11	0.01	0.02	0.07	0.00	14
Humidity in air	0.00	-0.03	-0.10	0.00	-0.01	-0.02	0.02	0.03	-0.03	0.01	0.02	-0.02	15
Depth of soil mixing layer	0.01	0.03	0.03	0.00	0.01	0.01	0.10	0.00	0.07	0.07	0.00	0.04	10
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.01	0.11	-0.05	0.00	0.03	-0.01	-0.02	0.02	-0.06	-0.01	0.01	-0.04	12
Weathering removal constant of all vegetation	0.04	0.04	-0.07	0.01	0.01	-0.01	-0.03	0.01	-0.06	-0.02	0.00	-0.04	13
Kd of Pu-240 in Unsaturated Zone 1	0.02	-0.06	0.02	0.01	-0.01	0.00	-0.02	-0.04	-0.03	-0.01	-0.02	-0.02	17
Contaminated zone b parameter	0.03	-0.03	-0.01	0.01	-0.01	0.00	-0.01	-0.03	0.01	-0.01	-0.02	0.01	2
b Parameter of Unsaturated zone 1	-0.03	0.04	0.01	-0.01	0.01	0.00	0.06	0.02	0.03	0.04	0.01	0.02	7

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.