Title : RESRAD Default Parameters

File : FCS BFM INSITU UA SR-90.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) =				0.87	0.88	0.88				0.06	0.04	0.08	
Kd of Sr-90 in Contaminated Zone	-0.91	-0.92	-0.92	-0.81	-0.82	-0.82	-0.17	-0.10	-0.16	-0.17	-0.10	-0.15	16
Depth of roots	0.77	0.79	0.79	0.44	0.45	0.44	0.13	0.14	0.19	0.13	0.14	0.19	10
Weathering removal constant of all vegetation	-0.06	-0.14	-0.06	-0.02	-0.05	-0.02	-0.01	-0.04	-0.05	-0.01	-0.03	-0.04	12
Contaminated zone b parameter	0.02	0.06	0.16	0.01	0.02	0.06	-0.06	0.03	0.04	-0.06	0.03	0.04	2
Wet foliar interception fraction of leafy vegetables	-0.02	0.11	0.11	-0.01	0.04	0.04	-0.03	0.06	0.03	-0.03	0.06	0.03	13
Humidity in air	0.01	-0.06	-0.11	0.00	-0.02	-0.04	0.09	-0.03	-0.03	0.09	-0.02	-0.03	14
Indoor dust filtration factor	0.00	-0.05	-0.06	0.00	-0.02	-0.02	0.00	-0.06	-0.02	0.00	-0.05	-0.02	8
Mass loading for inhalation	-0.04	0.00	-0.04	-0.01	0.00	-0.02	-0.02	-0.01	0.13	-0.02	-0.01	0.12	7
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.05	0.09	0.03	-0.02	0.03	0.01	0.04	0.02	-0.03	0.04	0.02	-0.03	11
Runoff coefficient	0.01	0.07	-0.02	0.00	0.03	-0.01	-0.05	0.03	-0.05	-0.05	0.03	-0.04	5
Wind Speed	-0.06	0.03	-0.02	-0.02	0.01	-0.01	0.01	0.05	-0.04	0.01	0.05	-0.03	4
Cover erosion rate	0.00	-0.07	0.04	0.00	-0.03	0.01	0.00	0.00	0.09	0.00	0.00	0.09	15
Depth of soil mixing layer	0.03	-0.01	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	9
Contaminated zone erosion rate	-0.03	0.00	0.02	-0.01	0.00	0.01	-0.02	-0.04	0.00	-0.02	-0.04	0.00	1
Evapotranspiration coefficient	0.05	0.00	-0.06	0.02	0.00	-0.02	-0.04	0.00	-0.01	-0.04	0.00	-0.01	3
b Parameter of Unsaturated zone 1	0.01	0.01	-0.02	0.00	0.00	-0.01	-0.01	-0.03	0.01	-0.01	-0.03	0.01	6
Kd of Sr-90 in Saturated Zone	0.03	0.07	-0.10	0.01	0.02	-0.03	0.00	0.02	-0.01	0.00	0.02	-0.01	17

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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.