Title : RESRAD Default Parameters

File : FCS BFM INSITU UA PU-241.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) =				0.91	0.90	0.90				0.06	0.12	0.05	in
Description of Probabilistic Variable	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	Variable List
Kd of Pu-241 in Contaminated Zone	-0.95	-0.94	-0.95	-0.92	-0.91	-0.93	-0.19	-0.13	-0.12	-0.19	-0.13	-0.12	15
Depth of roots	0.50	0.52	0.53	0.18	0.19	0.20	-0.06	0.05	0.03	-0.06	0.04	0.03	10
Weathering removal constant of all vegetation	-0.29	-0.18	-0.25	-0.09	-0.06	-0.08	-0.03	-0.03	-0.03	-0.03	-0.02	-0.03	12
Cover erosion rate	0.13	0.24	0.14	0.04	0.08	0.05	-0.04	0.09	0.00	-0.04	0.08	0.00	17
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.20	-0.04	-0.12	-0.06	-0.01	-0.04	-0.05	-0.05	-0.02	-0.05	-0.05	-0.02	11
Wet foliar interception fraction of leafy vegetables	0.10	0.17	0.07	0.03	0.05	0.02	0.05	0.04	-0.01	0.05	0.04	-0.01	13
Humidity in air	0.00	-0.13	0.01	0.00	-0.04	0.00	0.00	0.01	-0.02	0.00	0.01	-0.02	14
Mass loading for inhalation	-0.10	0.02	-0.04	-0.03	0.01	-0.01	0.00	0.01	0.01	0.00	0.01	0.01	7
Depth of soil mixing layer	-0.05	0.00	-0.04	-0.02	0.00	-0.01	-0.02	0.08	-0.02	-0.02	0.08	-0.02	9
Runoff coefficient	0.01	0.03	0.04	0.00	0.01	0.01	-0.03	-0.05	0.01	-0.03	-0.04	0.01	5
Contaminated zone erosion rate	0.02	-0.05	0.09	0.00	-0.02	0.03	-0.03	0.00	0.02	-0.03	0.00	0.02	1
b Parameter of Unsaturated zone 1	0.08	-0.05	0.03	0.03	-0.02	0.01	0.00	0.08	-0.02	0.00	0.07	-0.02	6
Indoor dust filtration factor	-0.03	0.01	0.06	-0.01	0.00	0.02	-0.01	-0.06	-0.07	-0.01	-0.06	-0.07	8
Contaminated zone b parameter	-0.12	0.03	0.05	-0.04	0.01	0.02	-0.04	0.08	0.15	-0.04	0.08	0.15	2
Evapotranspiration coefficient	0.04	-0.01	0.00	0.01	0.00	0.00	-0.06	0.11	-0.09	-0.06	0.10	-0.09	3
Kd of Pu-241 in Saturated Zone	0.09	-0.08	0.03	0.03	-0.03	0.01	0.05	0.25	-0.04	0.05	0.25	-0.04	16
Wind Speed	0.06	-0.05	-0.02	0.02	-0.02	-0.01	0.05	0.00	-0.06	0.05	0.00	-0.06	4

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.