Title : RESRAD Default Parameters

File : FCS BFM INSITU UA SB-125.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) =				0.95	0.96	0.97				0.05	0.03	0.06	in
Description of Probabilistic Variable	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	Variable List
Kd of Sb-125 in Contaminated Zone	-0.98	-0.98	-0.98	-0.96	-0.97	-0.97	-0.18	-0.10	-0.16	-0.18	-0.10	-0.16	16
Depth of roots	0.59	0.66	0.64	0.16	0.17	0.15	0.01	0.02	0.07	0.01	0.02	0.07	10
Weathering removal constant of all vegetation	-0.17	-0.10	-0.13	-0.04	-0.02	-0.02	-0.01	-0.02	-0.04	-0.01	-0.02	-0.04	12
Wet foliar interception fraction of leafy vegetables	0.00	0.12	0.07	0.00	0.02	0.01	-0.03	0.07	0.03	-0.03	0.07	0.03	13
Cover erosion rate	0.06	-0.01	0.06	0.01	0.00	0.01	0.00	0.00	0.08	0.00	0.00	0.08	15
Contaminated zone erosion rate	-0.09	0.01	-0.02	-0.02	0.00	0.00	-0.02	-0.04	0.00	-0.02	-0.04	0.00	1
Indoor dust filtration factor	-0.02	0.02	-0.09	0.00	0.00	-0.02	-0.01	-0.05	-0.02	-0.01	-0.05	-0.02	8
Contaminated zone b parameter	0.00	0.07	0.02	0.00	0.01	0.00	-0.06	0.03	0.04	-0.06	0.03	0.04	2
Mass loading for inhalation	-0.02	-0.03	-0.02	-0.01	-0.01	0.00	-0.02	0.00	0.12	-0.02	0.00	0.12	7
Wind Speed	-0.06	0.05	-0.06	-0.01	0.01	-0.01	0.00	0.05	-0.03	0.00	0.05	-0.03	4
Kd of Sb-125 in Saturated Zone	0.09	0.01	-0.05	0.02	0.00	-0.01	0.00	0.02	-0.01	0.00	0.02	-0.01	17
Humidity in air	0.02	0.03	-0.01	0.00	0.01	0.00	0.09	-0.03	-0.03	0.08	-0.03	-0.03	14
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.00	0.05	-0.01	0.00	0.01	0.00	0.04	0.02	-0.03	0.04	0.02	-0.03	11
b Parameter of Unsaturated zone 1	0.05	-0.03	-0.07	0.01	-0.01	-0.01	-0.01	-0.03	0.01	-0.01	-0.03	0.01	6
Runoff coefficient	-0.04	0.04	-0.03	-0.01	0.01	-0.01	-0.05	0.03	-0.04	-0.04	0.03	-0.04	5
Depth of soil mixing layer	0.07	-0.05	0.00	0.01	-0.01	0.00	0.00	0.03	0.00	0.00	0.03	0.00	9
Evapotranspiration coefficient	0.07	0.00	-0.06	0.01	0.00	-0.01	-0.04	0.00	-0.02	-0.04	0.00	-0.02	3

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.