

Title : RESRAD Default Parameters
File : FCS BFM INSITU UA SB-125.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												3 Position in Variable List	
	Coefficient of Determination (R-squared) =													
	1	2	3	1	2	3	1	2	3	1	2	3		
	0.95	0.96	0.97								0.05	0.03	0.06	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
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.