

Title : RESRAD Default Parameters

File : FCS BFM INSITU UA C0-60.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												3 Position in Variable List	
	1	2	3	1	2	3	1	2	3	1	2	3		
	Coefficient of Determination (R-squared) =													
				0.76	0.79	0.79					0.03	0.02	0.05	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
Kd of Co-60 in Contaminated Zone	-0.83	-0.85	-0.85	-0.71	-0.73	-0.73	-0.05	-0.03	-0.04	-0.05	-0.03	-0.04		16
Depth of roots	0.71	0.74	0.73	0.49	0.51	0.49	0.00	0.03	0.09	0.00	0.03	0.09		10
Contaminated zone b parameter	-0.01	0.05	0.13	0.00	0.02	0.06	-0.08	0.02	0.02	-0.08	0.02	0.02		2
Wet foliar interception fraction of leafy vegetables	-0.04	0.12	0.07	-0.02	0.06	0.03	-0.03	0.05	0.02	-0.03	0.05	0.02		13
Weathering removal constant of all vegetation	-0.01	-0.10	-0.04	-0.01	-0.04	-0.02	-0.01	-0.03	-0.04	-0.01	-0.03	-0.04		12
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.00	0.09	0.03	0.00	0.04	0.02	0.06	0.03	-0.04	0.06	0.03	-0.04		11
Indoor dust filtration factor	-0.01	-0.06	-0.05	-0.01	-0.03	-0.02	0.02	-0.06	-0.03	0.02	-0.06	-0.03		8
Humidity in air	0.04	-0.06	-0.08	0.02	-0.03	-0.04	0.09	-0.01	-0.03	0.09	-0.01	-0.03		14
Mass loading for inhalation	-0.03	0.00	-0.06	-0.02	0.00	-0.03	0.00	-0.01	0.13	0.00	-0.01	0.13		7
Cover erosion rate	0.04	-0.04	0.07	0.02	-0.02	0.03	0.01	0.02	0.12	0.01	0.02	0.12		15
b Parameter of Unsaturated zone	1 0.01	0.00	0.03	0.00	0.00	0.01	0.00	-0.02	0.00	0.00	-0.02	0.00		6
Wind Speed	-0.08	0.04	0.01	-0.04	0.02	0.00	0.03	0.07	-0.06	0.03	0.07	-0.06		4
Runoff coefficient	-0.01	0.05	-0.02	0.00	0.02	-0.01	-0.06	0.02	-0.04	-0.06	0.02	-0.04		5
Evapotranspiration coefficient	0.05	0.00	-0.07	0.02	0.00	-0.03	-0.04	0.00	0.00	-0.04	0.00	0.00		3
Depth of soil mixing layer	0.02	-0.02	0.01	0.01	-0.01	0.00	-0.02	0.06	0.00	-0.02	0.06	0.00		9
Contaminated zone erosion rate	-0.05	0.01	0.04	-0.02	0.00	0.02	-0.02	-0.02	0.01	-0.02	-0.02	0.01		1
Kd of Co-60 in Saturated Zone	0.01	0.06	-0.07	0.01	0.03	-0.03	-0.01	0.03	0.00	-0.01	0.03	0.00		17

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.