

Title : RESRAD Default Parameters
File : FCS BFM INSITU UA EU-152.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		
	0.83	0.85	0.84								0.13	0.10	0.13	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
Kd of Eu-152 in Contaminated Zone	-0.91	-0.92	-0.91	-0.89	-0.90	-0.90	-0.04	-0.02	-0.03	-0.04	-0.02	-0.03		16
Depth of roots	0.34	0.41	0.40	0.15	0.17	0.18	-0.04	-0.01	0.05	-0.04	-0.01	0.05		10
Cover erosion rate	0.25	0.23	0.24	0.10	0.09	0.10	0.30	0.30	0.33	0.30	0.30	0.33		15
Mass loading for inhalation	-0.05	-0.06	-0.04	-0.02	-0.02	-0.02	0.00	-0.01	0.10	0.00	-0.01	0.10		7
Weathering removal constant of all vegetation	-0.08	-0.02	-0.04	-0.03	-0.01	-0.02	0.01	-0.01	-0.01	0.01	0.00	-0.01		12
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.06	0.01	0.05	0.03	0.00	0.02	0.08	0.01	-0.04	0.07	0.01	-0.04		11
Runoff coefficient	-0.04	0.00	-0.07	-0.02	0.00	-0.03	-0.06	0.01	-0.06	-0.06	0.01	-0.06		5
Contaminated zone erosion rate	-0.08	0.00	-0.03	-0.03	0.00	-0.01	-0.02	-0.01	0.01	-0.01	-0.01	0.01		1
Evapotranspiration coefficient	0.06	0.04	0.00	0.03	0.01	0.00	-0.04	-0.01	0.01	-0.04	-0.01	0.01		3
Indoor dust filtration factor	-0.02	-0.02	-0.06	-0.01	-0.01	-0.02	0.03	-0.05	-0.03	0.03	-0.05	-0.03		8
Wind Speed	-0.06	-0.02	-0.02	-0.03	-0.01	-0.01	0.04	0.05	-0.06	0.04	0.05	-0.05		4
Humidity in air	0.07	-0.03	0.04	0.03	-0.01	0.02	0.09	0.00	-0.04	0.09	0.00	-0.03		14
b Parameter of Unsaturated zone	1	0.01	-0.05	-0.02	0.00	-0.02	-0.01	-0.01	0.01	-0.01	-0.01	0.01		6
Wet foliar interception fraction of leafy vegetables	0.03	0.03	0.00	0.01	0.01	0.00	-0.02	0.04	0.02	-0.02	0.04	0.01		13
Depth of soil mixing layer	0.07	-0.03	0.00	0.03	-0.01	0.00	-0.03	0.07	0.00	-0.03	0.06	0.00		9
Contaminated zone b parameter	-0.07	0.03	0.02	-0.03	0.01	0.01	-0.10	0.01	-0.01	-0.09	0.01	-0.01		2
Kd of Eu-152 in Saturated Zone	0.02	0.03	-0.05	0.01	0.01	-0.02	-0.02	0.03	0.00	-0.02	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.