

Title : RESRAD Default Parameters

File : FCS BFM INSITU UA NI-63.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) =													
				0.83	0.84	0.85					0.03	0.02	0.05	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
Kd of Ni-63 in Contaminated Zone	-0.89	-0.90	-0.90	-0.80	-0.81	-0.81	-0.08	-0.04	-0.07	-0.08	-0.04	-0.07		16
Depth of roots	0.70	0.73	0.73	0.41	0.42	0.42	0.01	0.04	0.10	0.01	0.04	0.09		10
Weathering removal constant of all vegetation	-0.10	-0.16	-0.09	-0.04	-0.07	-0.04	-0.02	-0.04	-0.05	-0.02	-0.04	-0.05		12
Cover erosion rate	0.09	0.01	0.10	0.04	0.00	0.04	-0.02	-0.01	0.09	-0.02	-0.01	0.09		15
Contaminated zone b parameter	0.01	0.06	0.14	0.00	0.02	0.05	-0.08	0.02	0.02	-0.07	0.02	0.02		2
Wet foliar interception fraction of leafy vegetables	-0.01	0.09	0.08	-0.01	0.04	0.03	-0.04	0.04	0.02	-0.04	0.04	0.02		13
Indoor dust filtration factor	-0.01	-0.06	-0.06	-0.01	-0.02	-0.02	0.02	-0.05	-0.03	0.02	-0.05	-0.02		8
Mass loading for inhalation	-0.07	0.01	-0.06	-0.03	0.00	-0.02	-0.01	-0.01	0.13	-0.01	-0.01	0.13		7
Humidity in air	0.04	-0.05	-0.09	0.02	-0.02	-0.03	0.09	-0.01	-0.03	0.08	-0.01	-0.03		14
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.04	0.06	0.05	-0.01	0.03	0.02	0.07	0.02	-0.04	0.07	0.02	-0.04		11
Wind Speed	-0.07	0.02	-0.01	-0.03	0.01	0.00	0.03	0.06	-0.06	0.03	0.06	-0.06		4
Contaminated zone erosion rate	-0.05	0.00	0.02	-0.02	0.00	0.01	-0.02	-0.03	0.00	-0.02	-0.03	0.00		1
Depth of soil mixing layer	0.04	-0.02	0.01	0.02	-0.01	0.00	-0.02	0.06	0.00	-0.02	0.06	0.00		9
b Parameter of Unsaturated zone 1	0.00	0.00	-0.02	0.00	0.00	-0.01	0.00	-0.02	0.00	0.00	-0.02	0.00		6
Runoff coefficient	-0.01	0.06	-0.04	0.00	0.02	-0.02	-0.06	0.01	-0.05	-0.06	0.01	-0.05		5
Kd of Ni-63 in Saturated Zone	0.02	0.06	-0.08	0.01	0.03	-0.03	-0.01	0.01	-0.01	-0.01	0.01	-0.01		17
Evapotranspiration coefficient	0.06	-0.01	-0.06	0.02	0.00	-0.02	-0.04	0.00	0.00	-0.04	0.00	0.00		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.