

Title : RESRAD Default Parameters
File : FCS BFM INSITU UA PU-238.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												Position in Variable List
	1	2	3	1	2	3	1	2	3	1	2	3	
	Coefficient of Determination (R-squared) =												
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
Kd of Pu-238 in Contaminated Zone	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-0.23	-0.13	-0.19	-0.23	-0.13	-0.19	16
Depth of roots	0.70	0.71	0.72	0.05	0.06	0.05	-0.02	0.01	0.06	-0.02	0.01	0.06	10
Weathering removal constant of all vegetation	-0.45	-0.38	-0.42	-0.03	-0.02	-0.02	0.00	-0.01	0.00	0.00	-0.01	0.00	12
Wet foliar interception fraction of leafy vegetables	0.23	0.21	0.23	0.01	0.01	0.01	-0.03	0.06	0.02	-0.03	0.05	0.02	13
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.14	-0.14	-0.17	-0.01	-0.01	-0.01	0.06	-0.01	-0.04	0.06	-0.01	-0.04	11
Cover erosion rate	0.06	0.01	0.05	0.00	0.00	0.00	-0.02	-0.01	0.05	-0.02	-0.01	0.05	15
Mass loading for inhalation	-0.02	-0.01	-0.06	0.00	0.00	0.00	-0.01	-0.01	0.10	-0.01	-0.01	0.09	7
Indoor dust filtration factor	-0.02	0.03	-0.09	0.00	0.00	0.00	0.01	-0.04	-0.01	0.01	-0.04	-0.01	8
Runoff coefficient	-0.02	-0.02	-0.03	0.00	0.00	0.00	-0.06	0.01	-0.06	-0.06	0.01	-0.06	5
Contaminated zone erosion rate	-0.06	0.01	-0.01	0.00	0.00	0.00	-0.02	-0.03	0.00	-0.02	-0.03	0.00	1
Kd of Pu-238 in Saturated Zone	0.04	0.02	-0.01	0.00	0.00	0.00	-0.01	0.00	-0.02	-0.01	0.00	-0.02	17
b Parameter of Unsaturated zone	1	0.05	-0.05	-0.04	0.00	0.00	0.00	-0.01	0.00	0.00	-0.01	0.00	6
Humidity in air	-0.01	0.03	0.01	0.00	0.00	0.00	0.08	0.01	-0.03	0.08	0.01	-0.03	14
Depth of soil mixing layer	0.05	-0.02	0.00	0.00	0.00	0.00	-0.02	0.06	-0.01	-0.02	0.06	-0.01	9
Contaminated zone b parameter	-0.02	0.03	-0.02	0.00	0.00	0.00	-0.08	0.03	0.01	-0.07	0.03	0.01	2
Evapotranspiration coefficient	0.11	0.00	-0.11	0.01	0.00	-0.01	-0.04	0.00	0.00	-0.04	0.00	0.00	3
Wind Speed	-0.04	0.01	0.03	0.00	0.00	0.00	0.03	0.05	-0.05	0.03	0.05	-0.05	4

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.