

Title : RESRAD Default Parameters  
File : FCS BFM INSITU UA PU-240.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												Position in Variable List
	Coefficient of Determination (R-squared) =												
	1	2	3	1	2	3	1	2	3	1	2	3	
				1.00	1.00	1.00				0.07	0.07	0.08	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
Kd of Pu-240 in Contaminated Zone	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-0.20	-0.19	-0.24	-0.20	-0.18	-0.24	16
Cover erosion rate	0.54	0.50	0.54	0.03	0.03	0.04	0.00	-0.03	-0.01	0.00	-0.03	-0.01	15
Weathering removal constant of all vegetation	-0.40	-0.42	-0.44	-0.02	-0.02	-0.03	-0.02	0.04	-0.04	-0.02	0.04	-0.04	12
Depth of roots	0.35	0.40	0.43	0.02	0.02	0.03	-0.07	0.08	0.02	-0.07	0.07	0.02	10
Wet foliar interception fraction of leafy vegetables	0.31	0.24	0.24	0.02	0.01	0.01	-0.04	0.00	0.03	-0.04	0.00	0.03	13
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.19	-0.27	-0.25	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	11
Depth of soil mixing layer	-0.02	0.13	0.09	0.00	0.01	0.00	0.03	-0.02	0.03	0.03	-0.02	0.03	9
Kd of Pu-240 in Saturated Zone	-0.03	-0.06	-0.10	0.00	0.00	-0.01	-0.04	-0.01	-0.02	-0.04	-0.01	-0.02	17
Evapotranspiration coefficient	-0.02	0.10	0.07	0.00	0.01	0.00	0.01	0.03	-0.03	0.01	0.03	-0.03	3
Contaminated zone erosion rate	-0.04	-0.03	-0.03	0.00	0.00	0.00	-0.03	0.02	-0.01	-0.03	0.02	-0.01	1
Contaminated zone b parameter	0.03	-0.05	-0.05	0.00	0.00	0.00	0.01	0.02	0.06	0.01	0.02	0.06	2
b Parameter of Unsaturated zone 1	0.04	0.03	0.00	0.00	0.00	0.00	0.10	-0.04	0.00	0.10	-0.04	0.00	6
Mass loading for inhalation	-0.02	0.05	0.01	0.00	0.00	0.00	0.00	0.04	0.01	0.00	0.04	0.01	7
Indoor dust filtration factor	0.02	-0.01	0.01	0.00	0.00	0.00	-0.09	0.11	-0.05	-0.09	0.11	-0.05	8
Humidity in air	0.01	0.00	-0.03	0.00	0.00	0.00	0.01	0.12	-0.08	0.01	0.12	-0.08	14
Wind Speed	0.01	0.00	0.01	0.00	0.00	0.00	0.02	-0.03	-0.03	0.02	-0.03	-0.02	4
Runoff coefficient	0.04	0.00	-0.04	0.00	0.00	0.00	0.02	0.03	0.12	0.02	0.02	0.12	5

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.