

Title : RESRAD Default Parameters  
File : FCS BFM INSITU UA NP-237.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) =												
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
Kd of Np-237 in Contaminated Zone	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-0.29	-0.20	-0.27	-0.29	-0.20	-0.26	16
Depth of roots	0.60	0.61	0.63	0.04	0.04	0.04	-0.01	0.01	0.05	-0.01	0.01	0.05	10
Weathering removal constant of all vegetation	-0.53	-0.53	-0.52	-0.03	-0.03	-0.03	-0.01	-0.02	-0.04	-0.01	-0.02	-0.04	12
Wet foliar interception fraction of leafy vegetables	0.29	0.19	0.25	0.01	0.01	0.01	-0.03	0.08	0.03	-0.03	0.07	0.03	13
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.21	-0.23	-0.19	-0.01	-0.01	-0.01	0.04	0.01	-0.03	0.04	0.01	-0.02	11
Cover erosion rate	0.20	0.17	0.19	0.01	0.01	0.01	-0.01	0.00	0.06	-0.01	0.00	0.05	15
Wind Speed	-0.05	-0.06	-0.02	0.00	0.00	0.00	0.00	0.05	-0.04	0.00	0.05	-0.03	4
Contaminated zone erosion rate	-0.07	-0.01	-0.05	0.00	0.00	0.00	-0.02	-0.04	-0.01	-0.02	-0.04	0.00	1
Indoor dust filtration factor	-0.03	-0.03	-0.06	0.00	0.00	0.00	-0.01	-0.05	-0.02	-0.01	-0.05	-0.02	8
Mass loading for inhalation	-0.03	-0.02	-0.05	0.00	0.00	0.00	-0.02	0.00	0.12	-0.02	0.00	0.12	7
Evapotranspiration coefficient	0.10	0.04	-0.05	0.00	0.00	0.00	-0.04	0.00	-0.01	-0.04	0.00	-0.01	3
Humidity in air	0.00	0.03	0.05	0.00	0.00	0.00	0.08	-0.03	-0.03	0.08	-0.03	-0.03	14
Kd of Np-237 in Saturated Zone	0.03	0.01	0.03	0.00	0.00	0.00	0.00	0.01	-0.03	0.00	0.01	-0.03	17
Depth of soil mixing layer	0.07	-0.01	-0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	9
b Parameter of Unsaturated zone 1	0.01	-0.03	-0.01	0.00	0.00	0.00	-0.02	-0.03	0.01	-0.02	-0.03	0.01	6
Runoff coefficient	-0.01	0.01	0.03	0.00	0.00	0.00	-0.05	0.03	-0.05	-0.05	0.03	-0.05	5
Contaminated zone b parameter	0.00	0.02	-0.03	0.00	0.00	0.00	-0.06	0.03	0.04	-0.06	0.03	0.04	2

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.