

Title : RESRAD Default Parameters
File : FCS SOIL UNCERTAINTY ANALYSIS PU-241.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												Position in Variable List						
	1			2			3			1				2			3		
	Coefficient of Determination (R-squared) =																		
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC							
Depth of roots	-0.98	-0.98	-0.98	-0.97	-0.96	-0.97	-0.95	-0.94	-0.95	-0.94	-0.93	-0.94	11						
Contaminated zone erosion rate	-0.64	-0.69	-0.66	-0.16	-0.18	-0.16	-0.38	-0.40	-0.39	-0.14	-0.14	-0.13	1						
Kd of Pu-241 in Contaminated Zone	0.14	0.14	0.16	0.03	0.03	0.03	0.04	-0.01	0.03	0.01	0.00	0.01	16						
Mass loading for inhalation	0.09	0.17	0.13	0.02	0.03	0.02	0.08	0.12	0.05	0.03	0.04	0.02	8						
Indoor dust filtration factor	0.15	0.16	0.08	0.03	0.03	0.01	0.02	0.09	0.05	0.01	0.03	0.02	9						
Evapotranspiration coefficient	0.06	0.09	0.08	0.01	0.02	0.02	0.02	0.05	0.01	0.01	0.01	0.00	3						
Wind Speed	-0.08	-0.06	-0.08	-0.02	-0.01	-0.01	-0.01	-0.05	-0.06	0.00	-0.02	-0.02	4						
Well pump intake depth	0.07	0.01	0.03	0.01	0.00	0.01	-0.02	-0.08	0.04	-0.01	-0.03	0.01	6						
Runoff coefficient	0.06	0.03	-0.02	0.01	0.01	0.00	-0.06	0.05	-0.06	-0.02	0.02	-0.02	5						
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.03	0.03	-0.06	-0.01	0.01	-0.01	0.00	-0.02	0.00	0.00	-0.01	0.00	12						
Wet foliar interception fraction of leafy vegetables	-0.08	0.09	0.04	-0.01	0.02	0.01	0.03	0.02	-0.02	0.01	0.01	-0.01	14						
Kd of Pu-241 in Unsaturated Zone 1	0.08	0.00	-0.04	0.02	0.00	-0.01	0.01	-0.03	-0.06	0.00	-0.01	-0.02	17						
Weathering removal constant of all vegetation	-0.02	0.06	-0.09	0.00	0.01	-0.02	0.02	0.02	-0.05	0.00	0.01	-0.02	13						
Depth of soil mixing layer	-0.03	-0.05	0.05	-0.01	-0.01	0.01	0.04	-0.04	-0.03	0.01	-0.01	-0.01	10						
b Parameter of Unsaturated zone 1	-0.01	0.02	0.02	0.00	0.00	0.00	-0.06	-0.08	0.00	-0.02	-0.03	0.00	7						
Kd of Pu-241 in Saturated Zone	0.02	0.06	-0.06	0.00	0.01	-0.01	0.02	0.03	0.02	0.01	0.01	0.01	18						
Contaminated zone b parameter	0.05	-0.08	0.01	0.01	-0.02	0.00	-0.03	-0.06	-0.04	-0.01	-0.02	-0.01	2						
Humidity in air	0.00	-0.01	-0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	15						

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.