

Title : RESRAD Default Parameters
File : FCS SOIL UNCERTAINTY ANALYSIS SB-125.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												3 Position in Variable List
	Coefficient of Determination (R-squared) =												
	1	2	3	1	2	3	1	2	3	1	2	3	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
Depth of roots	-0.98	-0.98	-0.98	-0.96	-0.96	-0.97	-0.95	-0.91	-0.95	-0.95	-0.90	-0.94	11
Kd of Sb-125 in Contaminated Zone	0.62	0.57	0.60	0.15	0.14	0.14	0.20	0.09	0.21	0.06	0.04	0.07	16
Evapotranspiration coefficient	0.40	0.42	0.40	0.08	0.09	0.08	0.15	0.21	0.17	0.05	0.09	0.05	3
Runoff coefficient	0.23	0.21	0.11	0.05	0.04	0.02	0.05	0.10	-0.01	0.01	0.04	0.00	5
Kd of Sb-125 in Saturated Zone	0.08	-0.01	0.09	0.02	0.00	0.02	-0.01	0.02	0.03	0.00	0.01	0.01	18
Kd of Sb-125 in Unsaturated Zone 1	0.08	0.04	-0.01	0.02	0.01	0.00	0.08	0.00	-0.07	0.03	0.00	-0.02	17
Indoor dust filtration factor	0.03	0.04	0.03	0.01	0.01	0.01	0.03	0.09	0.02	0.01	0.04	0.01	9
Weathering removal constant of all vegetation	0.02	0.00	-0.09	0.00	0.00	-0.02	0.02	0.00	-0.08	0.01	0.00	-0.03	13
Well pump intake depth	0.03	0.01	0.02	0.01	0.00	0.00	-0.03	-0.02	0.07	-0.01	-0.01	0.02	6
Depth of soil mixing layer	0.02	-0.07	-0.01	0.00	-0.01	0.00	0.05	-0.05	-0.01	0.01	-0.02	0.00	10
Humidity in air	-0.03	-0.04	0.01	-0.01	-0.01	0.00	0.01	0.00	0.04	0.00	0.00	0.01	15
Wind Speed	0.01	0.03	0.01	0.00	0.01	0.00	0.02	-0.03	-0.06	0.01	-0.01	-0.02	4
Mass loading for inhalation	0.04	0.05	-0.05	0.01	0.01	-0.01	0.05	0.01	-0.01	0.02	0.00	0.00	8
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.06	0.06	0.03	-0.01	0.01	0.00	-0.02	0.01	0.00	-0.01	0.00	0.00	12
Contaminated zone erosion rate	0.03	-0.02	0.02	0.01	0.00	0.00	-0.10	-0.07	-0.03	-0.04	-0.03	-0.01	1
Wet foliar interception fraction of leafy vegetables	-0.04	0.07	-0.02	-0.01	0.01	0.00	-0.04	0.04	-0.05	-0.01	0.02	-0.01	14
Contaminated zone b parameter	0.04	-0.03	-0.02	0.01	-0.01	0.00	-0.01	-0.10	-0.04	0.00	-0.04	-0.01	2
b Parameter of Unsaturated zone 1	-0.01	0.00	0.01	0.00	0.00	0.00	-0.06	-0.06	0.01	-0.02	-0.02	0.00	7

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.