

Title : RESRAD Default Parameters
File : FCS SOIL UNCERTAINTY ANALYSIS SR-90.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	-0.99	-0.99	-0.99	-0.99	-0.99	-0.99	-0.96	-0.96	-0.96	-0.96	-0.96	-0.96	11
Kd of Sr-90 in Contaminated Zone	0.28	0.33	0.32	0.03	0.04	0.04	0.04	0.00	0.08	0.01	0.00	0.02	16
Evapotranspiration coefficient	0.17	0.13	0.14	0.02	0.01	0.02	-0.01	0.04	0.00	0.00	0.01	0.00	3
Runoff coefficient	0.09	0.08	0.01	0.01	0.01	0.00	-0.06	0.05	-0.09	-0.02	0.01	-0.03	5
Indoor dust filtration factor	0.00	0.06	0.08	0.00	0.01	0.01	0.02	0.10	0.03	0.00	0.03	0.01	9
Depth of soil mixing layer	-0.01	-0.10	-0.03	0.00	-0.01	0.00	0.03	-0.02	-0.03	0.01	0.00	-0.01	10
Humidity in air	0.03	-0.06	-0.10	0.00	-0.01	-0.01	0.01	0.02	0.02	0.00	0.01	0.00	15
Well pump intake depth	0.04	-0.02	0.06	0.00	0.00	0.01	-0.04	-0.10	0.07	-0.01	-0.03	0.02	6
Weathering removal constant of all vegetation	0.02	0.04	0.01	0.00	0.00	0.00	0.01	0.07	-0.05	0.00	0.02	-0.02	13
Kd of Sr-90 in Saturated Zone	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.01	0.01	18
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.02	0.11	-0.02	0.00	0.01	0.00	-0.01	0.00	0.01	0.00	0.00	0.00	12
Mass loading for inhalation	-0.01	0.06	0.00	0.00	0.01	0.00	0.06	0.11	0.02	0.02	0.03	0.01	8
b Parameter of Unsaturated zone 1	-0.01	0.03	0.04	0.00	0.00	0.00	-0.08	-0.09	0.02	-0.02	-0.03	0.01	7
Kd of Sr-90 in Unsaturated Zone 1	0.05	-0.01	0.00	0.01	0.00	0.00	0.04	-0.03	-0.07	0.01	-0.01	-0.02	17
Contaminated zone b parameter	0.04	0.00	-0.02	0.00	0.00	0.00	-0.01	-0.04	-0.05	0.00	-0.01	-0.02	2
Wet foliar interception fraction of leafy vegetables	-0.02	0.05	0.00	0.00	0.00	0.00	-0.01	0.04	-0.03	0.00	0.01	-0.01	14
Contaminated zone erosion rate	0.01	-0.03	0.02	0.00	0.00	0.00	-0.12	-0.11	-0.04	-0.04	-0.03	-0.01	1
Wind Speed	0.04	0.06	-0.09	0.00	0.01	-0.01	-0.01	-0.02	-0.05	0.00	0.00	-0.01	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.