

Title : RESRAD Default Parameters
File : FCS SOIL UNCERTAINTY ANALYSIS EU-155.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		
	0.82	0.79	0.84								0.08	0.05	0.10	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
Depth of roots	-0.88	-0.87	-0.90	-0.81	-0.79	-0.84	-0.25	-0.09	-0.25	-0.25	-0.09	-0.25		11
Kd of Eu-155 in Contaminated Zone	0.64	0.63	0.65	0.36	0.37	0.34	0.04	0.02	0.04	0.04	0.02	0.04		16
Evapotranspiration coefficient	0.17	0.19	0.10	0.07	0.09	0.04	0.04	0.14	0.10	0.04	0.13	0.10		3
Runoff coefficient	0.08	0.07	0.04	0.03	0.03	0.02	0.11	0.05	0.05	0.10	0.05	0.05		5
Indoor dust filtration factor	0.04	0.00	0.11	0.02	0.00	0.04	0.00	0.03	-0.03	0.00	0.03	-0.03		9
Depth of soil mixing layer	0.03	0.05	0.01	0.01	0.02	0.00	0.04	-0.06	0.06	0.04	-0.06	0.06		10
Contaminated zone erosion rate	0.07	-0.06	0.07	0.03	-0.03	0.03	0.02	0.01	0.02	0.02	0.01	0.02		1
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.09	0.01	0.03	-0.04	0.00	0.01	0.01	-0.01	0.01	0.01	-0.01	0.01		12
b Parameter of Unsaturated zone 1	-0.04	-0.06	0.05	-0.02	-0.03	0.02	0.01	-0.04	-0.01	0.01	-0.04	-0.01		7
Wind Speed	0.01	0.02	0.01	0.00	0.01	0.00	0.07	-0.02	-0.06	0.07	-0.02	-0.06		4
Humidity in air	0.01	0.00	0.02	0.01	0.00	0.01	0.01	-0.03	0.06	0.01	-0.03	0.06		15
Contaminated zone b parameter	0.03	0.00	-0.06	0.01	0.00	-0.02	-0.03	-0.09	0.04	-0.03	-0.09	0.04		2
Well pump intake depth	0.03	0.01	-0.01	0.01	0.00	0.00	-0.01	0.07	0.01	-0.01	0.07	0.01		6
Kd of Eu-155 in Saturated Zone	0.01	-0.05	0.02	0.00	-0.02	0.01	-0.01	0.02	0.01	-0.01	0.02	0.01		18
Weathering removal constant of all vegetation	0.05	0.01	-0.08	0.02	0.01	-0.03	0.03	-0.06	-0.07	0.03	-0.06	-0.06		13
Mass loading for inhalation	-0.02	0.06	-0.04	-0.01	0.03	-0.02	-0.03	-0.04	-0.07	-0.02	-0.04	-0.07		8
Wet foliar interception fraction of leafy vegetables	-0.06	0.05	0.01	-0.03	0.02	0.01	-0.04	0.02	-0.04	-0.04	0.02	-0.04		14
Kd of Eu-155 in Unsaturated Zone 1	0.07	-0.04	-0.02	0.03	-0.02	-0.01	0.02	0.00	-0.03	0.02	0.00	-0.03		17

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.