

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS EU-154.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
				0.75			0.73			0.73			
										0.04			0.05
													0.05
Depth of roots	-0.77	-0.75	-0.76	-0.61	-0.60	-0.61	-0.10	0.02	-0.10	-0.10	0.02	-0.10	11
Kd of Eu-154 in Contaminated Zone	0.76	0.74	0.75	0.58	0.58	0.59	0.04	0.01	0.04	0.04	0.01	0.04	16
Evapotranspiration coefficient	0.21	0.23	0.15	0.11	0.13	0.08	0.04	0.14	0.10	0.04	0.13	0.10	3
Runoff coefficient	0.07	0.09	0.06	0.03	0.05	0.03	0.11	0.05	0.06	0.11	0.05	0.06	5
Contaminated zone b parameter	0.03	-0.08	-0.07	0.01	-0.04	-0.04	-0.03	-0.09	0.04	-0.03	-0.09	0.04	2
b Parameter of Unsaturated zone 1	-0.06	-0.01	-0.05	-0.03	-0.01	-0.02	0.01	-0.04	-0.01	0.01	-0.04	-0.01	7
Indoor dust filtration factor	0.01	0.01	0.09	0.01	0.01	0.05	0.00	0.02	-0.03	0.00	0.02	-0.03	9
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.08	0.00	0.00	-0.04	0.00	0.00	0.01	-0.01	0.01	0.01	-0.01	0.01	12
Depth of soil mixing layer	0.05	0.01	0.00	0.02	0.00	0.00	0.04	-0.06	0.06	0.04	-0.06	0.06	10
Kd of Eu-154 in Saturated Zone	-0.02	-0.07	0.04	-0.01	-0.03	0.02	-0.01	0.02	0.01	-0.01	0.02	0.01	18
Wet foliar interception fraction of leafy vegetables	-0.09	0.03	0.01	-0.04	0.01	0.00	-0.04	0.02	-0.04	-0.04	0.02	-0.04	14
Contaminated zone erosion rate	-0.02	-0.05	0.02	-0.01	-0.03	0.01	0.02	0.01	0.02	0.03	0.01	0.02	1
Weathering removal constant of all vegetation	0.05	0.06	-0.06	0.02	0.03	-0.03	0.03	-0.07	-0.07	0.03	-0.07	-0.06	13
Well pump intake depth	-0.01	-0.01	-0.02	0.00	0.00	-0.01	0.00	0.07	0.01	0.00	0.07	0.01	6
Mass loading for inhalation	0.02	0.04	-0.03	0.01	0.02	-0.02	-0.03	-0.05	-0.07	-0.03	-0.05	-0.07	8
Humidity in air	0.02	0.02	-0.02	0.01	0.01	-0.01	0.01	-0.03	0.06	0.01	-0.03	0.06	15
Wind Speed	0.02	-0.03	-0.01	0.01	-0.01	0.00	0.07	-0.02	-0.06	0.07	-0.02	-0.06	4
Kd of Eu-154 in Unsaturated Zone 1	0.08	-0.05	-0.02	0.04	-0.03	-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.