

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS CE-144.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	
	Coefficient of Determination (R-squared) =												Variable
													List
Depth of roots	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-0.96	-0.96	-0.96	-0.96	-0.96	-0.96	11
Indoor dust filtration factor	0.10	0.04	0.03	0.01	0.00	0.00	0.02	0.09	0.03	0.00	0.03	0.01	9
Mass loading for inhalation	0.02	0.11	0.01	0.00	0.01	0.00	0.06	0.13	0.02	0.02	0.04	0.01	8
Wet foliar interception fraction of leafy vegetables	-0.01	0.09	0.04	0.00	0.01	0.00	-0.01	0.03	-0.03	0.00	0.01	-0.01	14
Depth of soil mixing layer	-0.02	-0.09	-0.02	0.00	-0.01	0.00	0.02	-0.02	-0.03	0.01	0.00	-0.01	10
Kd of Ce-144 in Contaminated Zone	0.03	0.03	0.04	0.00	0.00	0.00	0.03	-0.06	0.07	0.01	-0.02	0.02	16
Well pump intake depth	0.01	-0.02	0.10	0.00	0.00	0.01	-0.04	-0.11	0.07	-0.01	-0.03	0.02	6
Kd of Ce-144 in Unsaturated Zone 1	0.06	-0.01	0.04	0.00	0.00	0.00	0.05	-0.03	-0.05	0.01	-0.01	-0.02	17
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.01	0.10	-0.01	0.00	0.01	0.00	-0.01	0.00	0.01	0.00	0.00	0.00	12
Kd of Ce-144 in Saturated Zone	0.04	0.03	0.00	0.00	0.00	0.00	-0.01	0.08	0.04	0.00	0.02	0.01	18
Wind Speed	-0.03	0.06	-0.07	0.00	0.00	-0.01	-0.01	-0.02	-0.05	0.00	0.00	-0.01	4
Contaminated zone b parameter	0.06	0.01	-0.04	0.00	0.00	0.00	-0.01	-0.03	-0.06	0.00	-0.01	-0.02	2
Runoff coefficient	0.06	0.01	-0.04	0.00	0.00	0.00	-0.06	0.05	-0.09	-0.02	0.01	-0.03	5
b Parameter of Unsaturated zone 1	0.00	0.04	-0.02	0.00	0.00	0.00	-0.08	-0.09	0.03	-0.02	-0.02	0.01	7
Evapotranspiration coefficient	0.04	0.02	-0.03	0.00	0.00	0.00	-0.02	0.02	-0.01	-0.01	0.01	0.00	3
Weathering removal constant of all vegetation	-0.01	0.02	-0.03	0.00	0.00	0.00	0.00	0.07	-0.06	0.00	0.02	-0.02	13
Humidity in air	0.04	-0.03	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.00	0.01	0.00	15
Contaminated zone erosion rate	0.00	-0.01	0.02	0.00	0.00	0.00	-0.13	-0.12	-0.04	-0.04	-0.03	-0.01	1

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.