

Title : RESRAD Default Parameters

File : FCS BFM INSITU UA EU-155.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position
	1	2	3	1	2	3	1	2	3	1	2	3	
Coefficient of Determination (R-squared) =				0.90	0.91	0.92				0.03	0.02	0.03	in
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	Variable
													List
Kd of Eu-155 in Contaminated Zone	-0.94	-0.95	-0.96	-0.93	-0.93	-0.94	-0.04	-0.02	-0.03	-0.04	-0.02	-0.03	16
Depth of roots	0.47	0.52	0.53	0.17	0.18	0.18	-0.04	-0.01	0.06	-0.04	-0.01	0.06	10
Cover erosion rate	0.12	0.11	0.12	0.04	0.03	0.04	-0.02	0.00	0.08	-0.02	0.00	0.08	15
Weathering removal constant of all vegetation	-0.10	0.00	0.00	-0.03	0.00	0.00	0.01	-0.01	-0.02	0.01	-0.01	-0.02	12
Indoor dust filtration factor	-0.03	-0.04	-0.04	-0.01	-0.01	-0.01	0.03	-0.05	-0.03	0.03	-0.05	-0.03	8
Wind Speed	-0.07	0.00	-0.04	-0.02	0.00	-0.01	0.05	0.06	-0.07	0.04	0.06	-0.06	4
Contaminated zone erosion rate	-0.09	0.00	0.01	-0.03	0.00	0.00	-0.02	-0.02	0.01	-0.02	-0.02	0.01	1
Runoff coefficient	-0.04	0.03	-0.08	-0.01	0.01	-0.02	-0.06	0.01	-0.05	-0.06	0.01	-0.05	5
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.05	0.02	0.01	0.02	0.00	0.00	0.07	0.01	-0.05	0.07	0.01	-0.05	11
Mass loading for inhalation	0.00	-0.05	-0.03	0.00	-0.02	-0.01	0.01	-0.01	0.11	0.01	-0.01	0.11	7
Wet foliar interception fraction of leafy vegetables	-0.01	0.06	0.02	0.00	0.02	0.00	-0.02	0.05	0.01	-0.02	0.05	0.01	13
Depth of soil mixing layer	0.08	-0.04	0.02	0.02	-0.01	0.01	-0.03	0.07	0.00	-0.03	0.07	0.00	9
b Parameter of Unsaturated zone 1	0.04	-0.05	-0.04	0.01	-0.02	-0.01	-0.01	-0.01	0.00	-0.01	-0.01	0.00	6
Kd of Eu-155 in Saturated Zone	0.07	0.03	-0.07	0.02	0.01	-0.02	-0.01	0.03	0.00	-0.01	0.03	0.00	17
Humidity in air	0.05	-0.04	0.02	0.02	-0.01	0.01	0.08	0.00	-0.03	0.08	0.00	-0.03	14
Evapotranspiration coefficient	0.03	0.00	-0.05	0.01	0.00	-0.02	-0.04	0.00	0.00	-0.04	0.00	0.00	3
Contaminated zone b parameter	-0.04	0.04	0.01	-0.01	0.01	0.00	-0.09	0.01	0.00	-0.09	0.01	0.00	2

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.