Title : RESRAD Default Parameters

File : FCS BFM INSITU UA EU-154.RAD

Regression Coefficients for Peak All Pathways

Repetition =	1	2	3	1	2	3	1	2	3	1	2	3	Position
Coefficient of Determination (R-squared) =				0.85	0.87	0.87				0.06	0.04	0.07	in
Description of Probabilistic Variable	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	Variable List
Kd of Eu-154 in Contaminated Zone	-0.92	-0.93	-0.93	-0.90	-0.91	-0.91	-0.04	-0.02	-0.03	-0.04	-0.02	-0.03	16
Depth of roots	0.37	0.45	0.43	0.15	0.18	0.17	-0.04	-0.01	0.05	-0.04	-0.01	0.05	10
Cover erosion rate	0.22	0.19	0.22	0.09	0.07	0.08	0.17	0.17	0.22	0.17	0.17	0.22	15
Mass loading for inhalation	-0.04	-0.06	-0.05	-0.01	-0.02	-0.02	0.01	-0.01	0.11	0.01	-0.01	0.10	7
Weathering removal constant of all vegetation	-0.08	-0.02	-0.03	-0.03	-0.01	-0.01	0.01	-0.01	-0.01	0.01	-0.01	-0.01	12
Indoor dust filtration factor	-0.02	-0.04	-0.06	-0.01	-0.01	-0.02	0.03	-0.05	-0.03	0.03	-0.05	-0.03	8
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.07	0.01	0.04	0.03	0.00	0.01	0.08	0.01	-0.05	0.08	0.01	-0.04	11
Wind Speed	-0.08	-0.02	-0.02	-0.03	-0.01	-0.01	0.04	0.06	-0.06	0.04	0.06	-0.06	4
Runoff coefficient	-0.04	0.00	-0.08	-0.02	0.00	-0.03	-0.06	0.01	-0.06	-0.06	0.01	-0.05	5
Contaminated zone erosion rate	-0.08	0.01	-0.03	-0.03	0.00	-0.01	-0.02	-0.02	0.01	-0.02	-0.02	0.01	1
Humidity in air	0.07	-0.03	0.05	0.03	-0.01	0.02	0.09	0.00	-0.03	0.08	0.00	-0.03	14
Wet foliar interception fraction of leafy vegetables	0.03	0.04	0.00	0.01	0.02	0.00	-0.02	0.05	0.02	-0.02	0.04	0.01	13
Evapotranspiration coefficient	0.06	0.02	-0.02	0.02	0.01	-0.01	-0.04	-0.01	0.00	-0.04	0.00	0.00	3
b Parameter of Unsaturated zone 1	0.02	-0.05	-0.03	0.01	-0.02	-0.01	-0.01	-0.01	0.00	-0.01	-0.01	0.00	6
Depth of soil mixing layer	0.08	-0.04	0.01	0.03	-0.01	0.00	-0.03	0.07	0.00	-0.03	0.07	0.00	9
Contaminated zone b parameter	-0.07	0.03	0.01	-0.03	0.01	0.01	-0.09	0.01	-0.01	-0.09	0.01	-0.01	2
Kd of Eu-154 in Saturated Zone	0.04	0.02	-0.05	0.02	0.01	-0.02	-0.02	0.03	-0.01	-0.02	0.03	-0.01	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.