Title : RESRAD Default Parameters

File : FCS BFM INSITU UA CS-134.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) =				0.84	0.84	0.85				0.10	0.06	0.11	in
Description of Probabilistic Variable	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	Variable List
Depth of roots	0.87	0.87	0.88	0.71	0.70	0.72	0.26	0.21	0.29	0.25	0.21	0.28	10
Kd of Cs-134 in Contaminated Zone	-0.82	-0.83	-0.83	-0.57	-0.59	-0.58	-0.12	-0.06	-0.10	-0.11	-0.06	-0.09	16
Weathering removal constant of all vegetation	-0.04	-0.10	-0.08	-0.02	-0.04	-0.03	-0.02	-0.02	-0.01	-0.02	-0.02	-0.01	12
Wet foliar interception fraction of leafy vegetables	-0.05	0.16	0.06	-0.02	0.06	0.02	-0.03	0.03	0.02	-0.03	0.03	0.02	13
Contaminated zone b parameter	-0.01	0.02	0.16	-0.01	0.01	0.06	-0.07	0.03	0.01	-0.07	0.03	0.01	2
Cover erosion rate	-0.06	-0.07	-0.03	-0.02	-0.03	-0.01	-0.02	-0.01	0.06	-0.02	-0.01	0.06	15
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.03	0.11	-0.01	0.01	0.05	0.00	0.08	-0.02	-0.04	0.08	-0.01	-0.04	11
b Parameter of Unsaturated zone 1	0.03	0.03	0.06	0.01	0.01	0.02	-0.01	0.00	0.01	-0.01	0.00	0.01	6
Wind Speed	0.00	0.04	0.03	0.00	0.02	0.01	0.04	0.05	-0.06	0.04	0.05	-0.05	4
Mass loading for inhalation	0.00	0.02	0.06	0.00	0.01	0.02	0.00	-0.01	0.10	0.00	-0.01	0.09	7
Contaminated zone erosion rate	-0.03	0.06	0.03	-0.01	0.02	0.01	-0.01	-0.02	0.00	-0.01	-0.02	0.00	1
Indoor dust filtration factor	-0.03	0.00	-0.02	-0.01	0.00	-0.01	0.02	-0.04	-0.01	0.02	-0.04	-0.01	8
Humidity in air	0.09	-0.06	-0.09	0.04	-0.02	-0.03	0.07	0.02	-0.03	0.07	0.02	-0.03	14
Runoff coefficient	-0.03	0.07	0.00	-0.01	0.03	0.00	-0.07	0.00	-0.06	-0.06	0.00	-0.06	5
Kd of Cs-134 in Saturated Zone	-0.03	0.06	-0.08	-0.01	0.03	-0.03	-0.02	0.00	-0.01	-0.02	0.00	-0.01	17
Evapotranspiration coefficient	0.01	0.01	-0.05	0.00	0.00	-0.02	-0.03	0.01	0.00	-0.03	0.01	0.00	3
Depth of soil mixing layer	0.02	-0.01	-0.01	0.01	0.00	-0.01	-0.03	0.07	-0.01	-0.03	0.07	-0.01	9

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.