Title : RESRAD Default Parameters

File : FCS BFM INSITU UA C0-58.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) =				0.81	0.83	0.83				0.03	0.02	0.04	in
Description of Probabilistic Variable	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	Variable List
Kd of Co-58 in Contaminated Zone	-0.86	-0.87	-0.87	-0.73	-0.74	-0.74	-0.05	-0.03	-0.04	-0.05	-0.03	-0.04	16
Depth of roots	0.76	0.78	0.79	0.51	0.52	0.53	0.00	0.03	0.09	0.00	0.03	0.09	10
Contaminated zone b parameter	0.02	0.06	0.21	0.01	0.03	0.09	-0.08	0.02	0.02	-0.08	0.02	0.02	2
Cover erosion rate	-0.05	-0.13	-0.04	-0.02	-0.05	-0.02	-0.04	-0.02	0.08	-0.04	-0.02	0.08	15
Weathering removal constant of all vegetation	-0.02	-0.11	-0.05	-0.01	-0.05	-0.02	-0.01	-0.03	-0.04	-0.01	-0.03	-0.04	12
Humidity in air	0.00	-0.05	-0.10	0.00	-0.02	-0.04	0.09	-0.01	-0.03	0.09	-0.01	-0.03	14
Wet foliar interception fraction of leafy vegetables	-0.06	0.13	0.07	-0.02	0.05	0.03	-0.03	0.05	0.01	-0.03	0.05	0.01	13
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.05	0.11	0.02	-0.02	0.05	0.01	0.06	0.03	-0.04	0.06	0.03	-0.04	11
Indoor dust filtration factor	-0.02	-0.03	-0.04	-0.01	-0.01	-0.02	0.02	-0.06	-0.03	0.02	-0.06	-0.03	8
Runoff coefficient	0.00	0.07	0.00	0.00	0.03	0.00	-0.06	0.02	-0.04	-0.06	0.02	-0.04	5
Kd of Co-58 in Saturated Zone	0.01	0.05	-0.04	0.00	0.02	-0.02	-0.01	0.03	0.00	-0.01	0.03	0.00	17
Mass loading for inhalation	-0.04	0.01	0.00	-0.02	0.00	0.00	0.00	-0.01	0.13	0.00	-0.01	0.13	7
Contaminated zone erosion rate	-0.03	0.00	0.05	-0.01	0.00	0.02	-0.02	-0.02	0.01	-0.02	-0.02	0.01	1
Wind Speed	-0.03	0.05	0.00	-0.01	0.02	0.00	0.03	0.06	-0.06	0.03	0.06	-0.06	4
b Parameter of Unsaturated zone 1	-0.02	0.02	0.01	-0.01	0.01	0.01	0.00	-0.02	0.00	0.00	-0.02	0.00	6
Evapotranspiration coefficient	0.05	-0.01	-0.06	0.02	0.00	-0.02	-0.04	0.00	0.00	-0.04	0.00	0.00	3
Depth of soil mixing layer	-0.02	0.00	0.02	-0.01	0.00	0.01	-0.02	0.06	0.00	-0.02	0.06	0.00	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.