

Title : RESRAD Default Parameters

File : FCS BFM INSITU UA SR-90.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												3 Position in Variable List	
	1	2	3	1	2	3	1	2	3	1	2	3		
	Coefficient of Determination (R-squared) =													
				0.87	0.88	0.88					0.06	0.04	0.08	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
Kd of Sr-90 in Contaminated Zone	-0.91	-0.92	-0.92	-0.81	-0.82	-0.82	-0.17	-0.10	-0.16	-0.17	-0.10	-0.15	16	
Depth of roots	0.77	0.79	0.79	0.44	0.45	0.44	0.13	0.14	0.19	0.13	0.14	0.19	10	
Weathering removal constant of all vegetation	-0.06	-0.14	-0.06	-0.02	-0.05	-0.02	-0.01	-0.04	-0.05	-0.01	-0.03	-0.04	12	
Contaminated zone b parameter	0.02	0.06	0.16	0.01	0.02	0.06	-0.06	0.03	0.04	-0.06	0.03	0.04	2	
Wet foliar interception fraction of leafy vegetables	-0.02	0.11	0.11	-0.01	0.04	0.04	-0.03	0.06	0.03	-0.03	0.06	0.03	13	
Humidity in air	0.01	-0.06	-0.11	0.00	-0.02	-0.04	0.09	-0.03	-0.03	0.09	-0.02	-0.03	14	
Indoor dust filtration factor	0.00	-0.05	-0.06	0.00	-0.02	-0.02	0.00	-0.06	-0.02	0.00	-0.05	-0.02	8	
Mass loading for inhalation	-0.04	0.00	-0.04	-0.01	0.00	-0.02	-0.02	-0.01	0.13	-0.02	-0.01	0.12	7	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.05	0.09	0.03	-0.02	0.03	0.01	0.04	0.02	-0.03	0.04	0.02	-0.03	11	
Runoff coefficient	0.01	0.07	-0.02	0.00	0.03	-0.01	-0.05	0.03	-0.05	-0.05	0.03	-0.04	5	
Wind Speed	-0.06	0.03	-0.02	-0.02	0.01	-0.01	0.01	0.05	-0.04	0.01	0.05	-0.03	4	
Cover erosion rate	0.00	-0.07	0.04	0.00	-0.03	0.01	0.00	0.00	0.09	0.00	0.00	0.09	15	
Depth of soil mixing layer	0.03	-0.01	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.04	0.00	9	
Contaminated zone erosion rate	-0.03	0.00	0.02	-0.01	0.00	0.01	-0.02	-0.04	0.00	-0.02	-0.04	0.00	1	
Evapotranspiration coefficient	0.05	0.00	-0.06	0.02	0.00	-0.02	-0.04	0.00	-0.01	-0.04	0.00	-0.01	3	
b Parameter of Unsaturated zone 1	0.01	0.01	-0.02	0.00	0.00	-0.01	-0.01	-0.03	0.01	-0.01	-0.03	0.01	6	
Kd of Sr-90 in Saturated Zone	0.03	0.07	-0.10	0.01	0.02	-0.03	0.00	0.02	-0.01	0.00	0.02	-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.