

Title : RESRAD Default Parameters
File : FCS BFM INSITU UA CE-144.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) =													
				0.94	0.93	0.94					0.88	0.88	0.88	in
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	List	
Depth of roots	0.96	0.96	0.96	0.88	0.88	0.88	0.93	0.93	0.93	0.87	0.86	0.87	10	
Weathering removal constant of all vegetation	-0.80	-0.80	-0.82	-0.35	-0.35	-0.36	-0.65	-0.67	-0.67	-0.29	-0.31	-0.31	12	
Wet foliar interception fraction of leafy vegetables	0.50	0.52	0.50	0.15	0.15	0.15	0.33	0.39	0.38	0.12	0.14	0.14	13	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.51	-0.47	-0.43	-0.15	-0.14	-0.12	-0.37	-0.31	-0.28	-0.14	-0.11	-0.10	11	
Contaminated zone erosion rate	-0.01	0.03	0.07	0.00	0.01	0.02	-0.04	-0.01	0.01	-0.01	0.00	0.00	1	
Runoff coefficient	0.03	0.04	0.02	0.01	0.01	0.01	-0.01	0.04	0.03	0.00	0.01	0.01	5	
Mass loading for inhalation	0.01	-0.07	-0.01	0.00	-0.02	0.00	0.01	-0.04	0.00	0.00	-0.01	0.00	7	
Depth of soil mixing layer	0.04	0.04	0.00	0.01	0.01	0.00	0.05	0.04	0.01	0.02	0.01	0.00	9	
Cover erosion rate	0.05	0.04	-0.01	0.01	0.01	0.00	0.04	0.05	0.06	0.01	0.02	0.02	15	
Humidity in air	0.05	0.00	0.00	0.01	0.00	0.00	0.02	-0.02	-0.01	0.01	-0.01	0.00	14	
Contaminated zone b parameter	-0.07	0.05	-0.02	-0.02	0.01	-0.01	-0.06	0.01	-0.03	-0.02	0.00	-0.01	2	
Kd of Ce-144 in Saturated Zone	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.02	-0.01	0.00	0.01	0.00	17	
Evapotranspiration coefficient	-0.05	0.06	0.02	-0.01	0.02	0.00	-0.02	0.01	-0.03	-0.01	0.00	-0.01	3	
Wind Speed	-0.01	-0.04	0.03	0.00	-0.01	0.01	0.02	0.00	0.01	0.01	0.00	0.00	4	
b Parameter of Unsaturated zone 1	0.03	-0.05	0.05	0.01	-0.01	0.01	0.05	-0.03	0.03	0.02	-0.01	0.01	6	
Kd of Ce-144 in Contaminated Zone	-0.01	0.03	-0.02	0.00	0.01	0.00	0.00	0.03	0.01	0.00	0.01	0.00	16	
Indoor dust filtration factor	-0.03	0.00	0.03	-0.01	0.00	0.01	-0.02	0.03	0.02	-0.01	0.01	0.01	8	

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.