

Title : RESRAD Default Parameters

File : FCS BFM INSITU UA H-3.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =															3 Position
	1	2	3	1	2	3	1	2	3	1	2	3	Position			
Coefficient of Determination (R-squared) =																
	0.95	0.95	0.95				0.92	0.91	0.91							
	PCC	PCC	PCC	SRC	SRC	SRC	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC		Variable		
Kd of H-3 in Contaminated Zone	-0.96	-0.96	-0.96	-0.76	-0.76	-0.76	-0.93	-0.92	-0.92	-0.73	-0.72	-0.72		16		
Depth of roots	0.93	0.93	0.93	0.58	0.58	0.59	0.90	0.89	0.89	0.59	0.60	0.60		10		
Evapotranspiration coefficient	0.57	0.59	0.55	0.16	0.17	0.15	0.49	0.48	0.44	0.16	0.17	0.15		3		
Runoff coefficient	0.29	0.33	0.35	0.07	0.08	0.09	0.27	0.21	0.25	0.08	0.07	0.08		5		
Depth of soil mixing layer	0.06	0.01	0.02	0.01	0.00	0.00	0.05	0.00	0.02	0.02	0.00	0.01		9		
Kd of H-3 in Saturated Zone	0.00	-0.05	-0.03	0.00	-0.01	-0.01	-0.01	0.02	-0.02	0.00	0.00	-0.01		17		
Cover erosion rate	0.05	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00		15		
Wind Speed	0.05	0.02	-0.01	0.01	0.01	0.00	0.00	-0.02	0.04	0.00	-0.01	0.01		4		
Humidity in air	0.02	-0.02	-0.04	0.00	0.00	-0.01	0.03	-0.03	-0.02	0.01	-0.01	-0.01		14		
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.08	0.01	0.04	-0.02	0.00	0.01	-0.08	0.01	0.01	-0.02	0.00	0.00		11		
Contaminated zone b parameter	-0.04	0.01	0.00	-0.01	0.00	0.00	-0.05	0.06	-0.02	-0.01	0.02	-0.01		2		
Wet foliar interception fraction of leafy vegetables	-0.05	0.02	0.01	-0.01	0.01	0.00	-0.02	-0.05	0.03	-0.01	-0.01	0.01		13		
Mass loading for inhalation	0.02	-0.07	0.03	0.01	-0.02	0.01	0.01	-0.03	0.01	0.00	-0.01	0.00		7		
Weathering removal constant of all vegetation	0.04	0.00	-0.03	0.01	0.00	-0.01	0.06	0.04	-0.05	0.02	0.01	-0.02		12		
b Parameter of Unsaturated zone 1	0.02	-0.02	0.01	0.00	-0.01	0.00	0.05	-0.05	0.06	0.01	-0.02	0.02		6		
Contaminated zone erosion rate	-0.04	-0.01	0.05	-0.01	0.00	0.01	-0.01	0.03	0.00	0.00	0.01	0.00		1		
Indoor dust filtration factor	-0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.02	0.00		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.