

Title : RESRAD Default Parameters

File : FCS BFM INSITU UA C-14.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												Position in Variable List	
	1	2	3	1	2	3	1	2	3	1	2	3		
	Coefficient of Determination (R-squared) =													
				0.96	0.96	0.96					0.02	0.02	0.02	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
Kd of C-14 in Contaminated Zone	-0.98	-0.98	-0.98	-0.97	-0.97	-0.97	-0.09	-0.04	-0.07	-0.09	-0.04	-0.07	16	
Depth of roots	0.49	0.53	0.53	0.11	0.12	0.12	0.01	0.01	0.02	0.01	0.01	0.02	10	
Cover erosion rate	0.28	0.21	0.24	0.06	0.04	0.05	-0.02	-0.02	0.03	-0.02	-0.02	0.03	15	
Wind Speed	-0.11	-0.05	-0.16	-0.02	-0.01	-0.03	-0.04	0.01	-0.04	-0.04	0.01	-0.04	4	
Depth of soil mixing layer	0.10	-0.01	0.08	0.02	0.00	0.02	0.01	-0.01	0.00	0.01	-0.01	0.00	9	
Evapotranspiration coefficient	0.08	0.09	-0.01	0.02	0.02	0.00	-0.01	0.02	-0.03	-0.01	0.02	-0.03	3	
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.05	0.03	0.04	0.01	0.01	0.01	0.01	0.03	0.01	0.01	0.03	0.01	11	
Contaminated zone b parameter	0.01	0.04	0.03	0.00	0.01	0.01	-0.01	0.03	0.06	-0.01	0.02	0.06	2	
Mass loading for inhalation	-0.06	-0.04	0.03	-0.01	-0.01	0.01	-0.05	0.01	0.08	-0.05	0.01	0.08	7	
b Parameter of Unsaturated zone 1	0.03	-0.05	-0.05	0.01	-0.01	-0.01	-0.02	-0.03	0.01	-0.02	-0.03	0.01	6	
Kd of C-14 in Saturated Zone	0.07	0.02	-0.02	0.02	0.00	0.00	0.02	0.07	0.02	0.02	0.07	0.02	17	
Runoff coefficient	-0.03	0.08	0.00	-0.01	0.02	0.00	-0.01	0.04	-0.03	-0.01	0.04	-0.03	5	
Indoor dust filtration factor	-0.03	0.03	-0.04	-0.01	0.01	-0.01	-0.03	-0.03	0.00	-0.03	-0.03	0.00	8	
Weathering removal constant of all vegetation	-0.06	0.10	0.00	-0.01	0.02	0.00	0.02	0.01	0.00	0.02	0.01	0.00	12	
Humidity in air	0.06	-0.03	-0.01	0.01	-0.01	0.00	0.05	-0.05	-0.02	0.05	-0.05	-0.02	14	
Wet foliar interception fraction of leafy vegetables	-0.03	-0.01	0.02	-0.01	0.00	0.00	-0.05	0.05	0.02	-0.05	0.05	0.02	13	
Contaminated zone erosion rate	-0.08	0.02	0.05	-0.02	0.00	0.01	-0.03	-0.05	0.00	-0.03	-0.05	0.00	1	

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.