

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA C-14.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position		
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	in	Variable	
				0.31	0.40	0.33				0.08	0.10	0.09			
														List	
Kd of C-14 in Saturated Zone	-0.48	-0.55	-0.49	-0.45	-0.52	-0.47	-0.03	-0.01	-0.04	-0.03	-0.01	-0.04		17	
Well pump intake depth	-0.30	-0.37	-0.24	-0.26	-0.31	-0.21	-0.24	-0.27	-0.24	-0.24	-0.27	-0.23		18	
Evapotranspiration coefficient	0.14	0.15	0.18	0.12	0.12	0.15	0.00	0.04	0.10	0.00	0.04	0.10		3	
Kd of C-14 in Contaminated Zone	-0.04	-0.03	-0.15	-0.04	-0.03	-0.13	0.00	-0.02	-0.04	0.00	-0.02	-0.04		16	
Runoff coefficient	0.05	0.12	0.05	0.04	0.09	0.04	-0.06	0.04	0.05	-0.05	0.04	0.05		5	
Cover erosion rate	0.06	0.07	0.07	0.05	0.05	0.05	-0.02	-0.04	0.00	-0.02	-0.04	0.00		15	
Contaminated zone b parameter	-0.04	-0.03	-0.11	-0.03	-0.02	-0.09	-0.07	-0.05	-0.05	-0.07	-0.04	-0.04		2	
Depth of roots	-0.02	-0.08	-0.05	-0.02	-0.06	-0.04	-0.02	-0.02	0.05	-0.02	-0.02	0.05		10	
Contaminated zone erosion rate	-0.10	-0.07	0.04	-0.08	-0.05	0.04	0.09	-0.04	0.07	0.09	-0.04	0.07		1	
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.01	-0.08	-0.04	0.01	-0.06	-0.03	0.01	-0.06	-0.02	0.01	-0.06	-0.02		11	
Wet foliar interception fraction of leafy vegetables	-0.08	0.00	0.00	-0.07	0.00	0.00	-0.03	-0.02	-0.05	-0.02	-0.02	-0.04		13	
Humidity in air	-0.02	0.03	0.05	-0.02	0.02	0.04	0.05	0.01	0.02	0.05	0.01	0.02		14	
Wind Speed	-0.04	0.02	0.05	-0.03	0.02	0.04	-0.07	-0.01	0.05	-0.07	0.00	0.05		4	
Depth of soil mixing layer	0.00	0.02	0.01	0.00	0.02	0.01	-0.04	0.04	-0.01	-0.03	0.04	-0.01		9	
Weathering removal constant of all vegetation	-0.03	-0.03	0.03	-0.02	-0.02	0.02	0.03	0.01	0.02	0.03	0.01	0.02		12	
Mass loading for inhalation	-0.02	0.05	-0.05	-0.02	0.04	-0.04	-0.02	-0.02	-0.04	-0.02	-0.02	-0.04		7	
Indoor dust filtration factor	0.01	-0.05	0.05	0.01	-0.04	0.04	-0.04	-0.08	0.05	-0.04	-0.08	0.05		8	
b Parameter of Unsaturated zone 1	-0.01	0.05	-0.04	-0.01	0.03	-0.03	0.04	0.04	0.02	0.04	0.04	0.02		6	

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.