

Title : RESRAD Default Parameters  
File : FCS BURIED PIPE INSITU UA C0-58.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =															Position in Variable List
	1			2			3			1			2			
	Coefficient of Determination (R-squared) =			0.05			0.07			0.07			0.06			
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC				
Kd of Co-58 in Contaminated Zone	-0.15	-0.16	-0.23	-0.15	-0.16	-0.23	-0.08	-0.01	-0.04	-0.08	-0.01	-0.04	16			
Well pump intake depth	-0.09	-0.10	-0.06	-0.08	-0.10	-0.06	-0.12	-0.12	-0.09	-0.11	-0.12	-0.09	18			
Depth of roots	0.06	0.08	0.06	0.06	0.08	0.06	0.14	0.15	0.12	0.13	0.15	0.11	10			
Contaminated zone erosion rate	-0.05	-0.04	-0.02	-0.05	-0.04	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	1			
Depth of soil mixing layer	0.00	0.11	-0.01	0.00	0.11	-0.01	-0.01	0.07	-0.04	-0.01	0.07	-0.04	9			
Evapotranspiration coefficient	0.03	-0.02	0.05	0.03	-0.02	0.04	0.05	0.00	0.07	0.05	0.00	0.07	3			
Indoor dust filtration factor	-0.01	-0.06	0.00	-0.01	-0.05	0.00	-0.01	-0.09	-0.02	-0.01	-0.09	-0.02	8			
Wind Speed	0.05	-0.01	0.01	0.05	-0.01	0.01	0.04	-0.03	0.01	0.04	-0.03	0.01	4			
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.01	-0.05	0.01	-0.01	-0.05	0.01	-0.01	-0.04	0.03	-0.01	-0.04	0.03	11			
b Parameter of Unsaturated zone 1	-0.08	0.05	0.01	-0.08	0.05	0.01	-0.09	0.05	-0.01	-0.09	0.04	-0.01	6			
Humidity in air	0.01	-0.02	0.04	0.01	-0.02	0.04	0.06	-0.02	0.01	0.06	-0.02	0.01	14			
Runoff coefficient	-0.01	0.04	-0.06	-0.01	0.04	-0.05	-0.01	0.03	-0.03	-0.01	0.03	-0.03	5			
Cover erosion rate	0.01	0.01	-0.04	0.01	0.01	-0.04	0.01	-0.06	-0.01	0.01	-0.06	-0.01	15			
Weathering removal constant of all vegetation	0.01	-0.04	0.04	0.01	-0.04	0.04	-0.01	0.01	0.07	-0.01	0.01	0.07	12			
Kd of Co-58 in Saturated Zone	0.04	-0.03	0.01	0.04	-0.03	0.01	0.02	0.04	0.00	0.02	0.04	0.00	17			
Contaminated zone b parameter	0.03	-0.01	-0.03	0.03	-0.01	-0.03	0.02	0.00	0.01	0.02	0.00	0.01	2			
Wet foliar interception fraction of leafy vegetables	-0.06	0.07	-0.02	-0.05	0.06	-0.01	-0.07	0.02	-0.03	-0.07	0.02	-0.03	13			
Mass loading for inhalation	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.02	7			

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.