

Title : RESRAD Default Parameters
File : FCS BURIED PIPE INSITU UA CO-60.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												Position in Variable List						
	1			2			3			1				2			3		
	Coefficient of Determination (R-squared) =																		
	PCC	PCC	PCC	SRC	SRC	SRC	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC							
Cover erosion rate	0.93	0.94	0.88	0.93	0.94	0.87	0.06	0.11	0.03	0.06	0.11	0.03	15						
b Parameter of Unsaturated zone	-0.11	-0.06	-0.03	-0.04	-0.02	-0.02	-0.06	0.06	0.03	-0.06	0.06	0.03	6						
Contaminated zone b parameter	0.00	-0.01	-0.11	0.00	0.00	-0.05	0.01	0.01	-0.03	0.01	0.01	-0.03	2						
Evapotranspiration coefficient	0.01	0.03	0.06	0.00	0.01	0.03	0.03	0.02	0.07	0.03	0.02	0.07	3						
Wind Speed	0.04	-0.03	-0.08	0.01	-0.01	-0.04	0.05	0.02	0.03	0.05	0.02	0.02	4						
Indoor dust filtration factor	0.00	0.00	0.05	0.00	0.00	0.03	-0.01	-0.06	0.01	-0.01	-0.06	0.01	8						
Depth of roots	-0.02	0.04	-0.04	-0.01	0.01	-0.02	0.07	0.08	0.06	0.07	0.08	0.06	10						
Contaminated zone erosion rate	0.02	0.00	0.01	0.01	0.00	0.00	-0.04	-0.05	-0.04	-0.04	-0.05	-0.04	1						
Depth of soil mixing layer	0.01	0.05	-0.02	0.00	0.02	-0.01	-0.02	0.11	0.00	-0.02	0.10	0.00	9						
Mass loading for inhalation	0.04	-0.02	0.00	0.01	-0.01	0.00	0.01	-0.02	-0.01	0.01	-0.02	-0.01	7						
Kd of Co-60 in Saturated Zone	0.01	0.00	0.01	0.00	0.00	0.00	0.01	-0.06	-0.03	0.01	-0.06	-0.03	17						
Wet foliar interception fraction of leafy vegetables	0.08	-0.01	-0.04	0.03	0.00	-0.02	-0.06	0.08	-0.02	-0.05	0.07	-0.02	13						
Runoff coefficient	-0.01	-0.06	0.04	0.00	-0.02	0.02	0.01	0.03	-0.04	0.01	0.03	-0.03	5						
Kd of Co-60 in Contaminated Zone	-0.01	0.01	-0.01	0.00	0.00	0.00	-0.04	-0.03	-0.14	-0.04	-0.03	-0.14	16						
Weathering removal constant of all vegetation	-0.03	0.00	0.03	-0.01	0.00	0.02	-0.01	-0.04	0.04	-0.01	-0.04	0.04	12						
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.01	-0.01	0.01	0.00	0.00	0.00	-0.03	-0.04	0.02	-0.03	-0.04	0.02	11						
Well pump intake depth	-0.04	-0.02	0.05	-0.02	-0.01	0.03	-0.11	-0.11	-0.04	-0.11	-0.10	-0.04	18						
Humidity in air	0.02	0.07	-0.07	0.01	0.02	-0.03	-0.01	0.00	0.01	-0.01	0.00	0.01	14						

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.