

Title : RESRAD Default Parameters
File : FCS BURIED PIPE INSITU UA CS-137.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	0.88	0.87	0.94	0.88	0.86	0.94	0.15	0.14	0.16	0.15	0.14	0.16	17						
Evapotranspiration coefficient	0.04	0.06	0.04	0.02	0.03	0.01	0.01	-0.01	0.01	0.01	-0.01	0.01	3						
Depth of roots	0.01	0.03	0.09	0.00	0.02	0.03	0.00	0.00	0.02	0.00	0.00	0.02	10						
Kd of Cs-137 in Contaminated Zone	0.04	0.03	0.02	0.02	0.02	0.01	-0.06	-0.07	-0.02	-0.06	-0.07	-0.02	15						
b Parameter of Unsaturated zone	1	0.00	-0.04	-0.03	0.00	-0.02	-0.01	-0.01	-0.02	-0.04	-0.01	-0.02	6						
Depth of soil mixing layer	0.01	0.03	0.03	0.00	0.02	0.01	-0.02	0.02	0.02	-0.02	0.02	0.02	9						
Wind Speed	-0.01	-0.03	-0.02	-0.01	-0.01	-0.01	-0.05	0.00	0.00	-0.04	0.00	0.00	4						
Contaminated zone b parameter	0.00	-0.06	0.01	0.00	-0.03	0.00	0.00	-0.05	-0.01	0.00	-0.05	-0.01	2						
Wet foliar interception fraction of leafy vegetables	0.04	0.04	-0.04	0.02	0.02	-0.02	0.00	-0.02	-0.01	0.00	-0.01	-0.01	13						
Runoff coefficient	0.00	0.00	0.05	0.00	0.00	0.02	0.05	0.01	0.01	0.05	0.01	0.01	5						
Weathering removal constant of all vegetation	0.04	-0.01	0.01	0.02	0.00	0.00	0.03	0.01	0.04	0.03	0.01	0.04	12						
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.01	0.02	-0.01	0.01	0.01	0.00	-0.06	0.04	-0.01	-0.06	0.04	-0.01	11						
Contaminated zone erosion rate	0.01	-0.03	0.01	0.01	-0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.01	1						
Kd of Cs-137 in Saturated Zone	-0.01	0.01	-0.02	0.00	0.00	-0.01	0.02	-0.01	-0.03	0.02	-0.01	-0.03	16						
Well pump intake depth	0.02	-0.02	0.03	0.01	-0.01	0.01	0.01	-0.05	-0.04	0.01	-0.05	-0.04	18						
Mass loading for inhalation	0.01	-0.02	-0.01	0.01	-0.01	0.00	0.00	-0.07	-0.01	0.00	-0.07	-0.01	7						
Humidity in air	-0.04	0.04	0.00	-0.02	0.02	0.00	-0.04	0.01	0.06	-0.04	0.01	0.06	14						
Indoor dust filtration factor	0.04	-0.01	-0.04	0.02	-0.01	-0.01	-0.01	-0.02	-0.04	-0.01	-0.02	-0.04	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.