

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA CS-137.RAD

## Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position		
	PCC	PCC	PCC	SRC	SRC	SRC	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	in	Variable	
Coefficient of Determination (R-squared) =				0.77	0.75	0.88				0.04	0.04	0.04			
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	-0.04		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.