

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS NI-59.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			
				0.98			0.98			0.98			in		
										0.91			0.92	0.91	in
															Variable
															List
Depth of roots	-0.99	-0.99	-0.99	-0.99	-0.99	-0.99	-0.95	-0.96	-0.96	-0.95	-0.96	-0.95	11		
Kd of Ni-59 in Contaminated Zone	0.10	0.09	0.09	0.01	0.01	0.01	0.03	-0.01	0.07	0.01	0.00	0.02	16		
Kd of Ni-59 in Saturated Zone	-0.07	-0.07	-0.05	-0.01	-0.01	-0.01	-0.01	0.00	0.02	0.00	0.00	0.01	18		
Wet foliar interception fraction of leafy vegetables	-0.04	0.13	0.03	0.00	0.02	0.00	-0.01	0.06	-0.02	0.00	0.02	-0.01	14		
Mass loading for inhalation	-0.01	0.09	0.03	0.00	0.01	0.00	0.05	0.12	0.03	0.02	0.03	0.01	8		
Contaminated zone erosion rate	-0.04	-0.01	-0.03	0.00	0.00	0.00	-0.11	-0.11	-0.04	-0.04	-0.03	-0.01	1		
Well pump intake depth	-0.07	-0.03	0.01	-0.01	0.00	0.00	-0.07	-0.11	0.05	-0.02	-0.03	0.02	6		
Runoff coefficient	-0.02	-0.01	-0.04	0.00	0.00	-0.01	-0.08	0.04	-0.09	-0.02	0.01	-0.03	5		
Depth of soil mixing layer	0.04	-0.05	0.06	0.00	-0.01	0.01	0.06	-0.02	0.00	0.02	-0.01	0.00	10		
b Parameter of Unsaturated zone 1	0.00	0.05	0.00	0.00	0.01	0.00	-0.05	-0.08	0.02	-0.01	-0.02	0.01	7		
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.01	0.10	-0.07	0.00	0.01	-0.01	-0.01	0.00	-0.01	0.00	0.00	0.00	12		
Indoor dust filtration factor	0.00	0.04	0.00	0.00	0.00	0.00	0.01	0.09	0.01	0.00	0.02	0.00	9		
Humidity in air	0.03	-0.03	-0.03	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.01	0.01	15		
Contaminated zone b parameter	0.05	-0.05	-0.03	0.01	-0.01	0.00	-0.01	-0.04	-0.04	0.00	-0.01	-0.01	2		
Evapotranspiration coefficient	0.06	-0.01	-0.03	0.01	0.00	0.00	-0.03	0.01	-0.03	-0.01	0.00	-0.01	3		
Wind Speed	0.03	0.01	-0.03	0.00	0.00	0.00	0.00	-0.01	-0.03	0.00	0.00	-0.01	4		
Kd of Ni-59 in Unsaturated Zone 1	0.07	-0.06	0.00	0.01	-0.01	0.00	0.03	-0.03	-0.06	0.01	-0.01	-0.02	17		
Weathering removal constant of all vegetation	0.01	0.04	-0.05	0.00	0.01	-0.01	-0.01	0.05	-0.07	0.00	0.01	-0.02	13		

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.