

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA NI-63.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	in	Variable	
				0.06	0.11	0.06				0.11	0.05	0.05			
														List	
Well pump intake depth	-0.14	-0.19	-0.08	-0.14	-0.18	-0.08	-0.15	-0.16	-0.12	-0.15	-0.16	-0.11		18	
Cover erosion rate	0.10	0.13	0.07	0.10	0.13	0.07	0.21	0.03	0.11	0.20	0.03	0.10		15	
Kd of Ni-63 in Saturated Zone	-0.06	-0.15	-0.08	-0.06	-0.15	-0.07	0.07	0.00	-0.04	0.06	0.00	-0.04		17	
Evapotranspiration coefficient	0.04	0.05	0.12	0.04	0.05	0.12	0.05	0.07	0.13	0.05	0.07	0.13		3	
Depth of roots	-0.07	-0.07	-0.06	-0.06	-0.07	-0.06	-0.01	0.01	0.00	-0.01	0.01	0.00		10	
Kd of Ni-63 in Contaminated Zone	-0.03	-0.04	-0.12	-0.03	-0.04	-0.12	0.03	-0.02	-0.06	0.03	-0.02	-0.05		16	
Contaminated zone erosion rate	-0.07	-0.08	-0.01	-0.07	-0.07	-0.01	0.16	-0.02	0.03	0.15	-0.02	0.03		1	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.01	-0.07	0.00	-0.01	-0.07	0.00	-0.01	-0.05	0.01	-0.01	-0.05	0.01		11	
Indoor dust filtration factor	-0.02	-0.06	0.01	-0.02	-0.05	0.01	-0.05	-0.10	-0.01	-0.04	-0.09	-0.01		8	
Runoff coefficient	0.00	0.06	-0.01	0.00	0.06	-0.01	0.03	0.07	0.02	0.03	0.07	0.02		5	
b Parameter of Unsaturated zone 1	-0.07	0.05	0.05	-0.06	0.05	0.05	-0.06	0.04	0.04	-0.06	0.04	0.04		6	
Wet foliar interception fraction of leafy vegetables	-0.07	0.05	-0.01	-0.07	0.05	-0.01	-0.04	0.02	-0.06	-0.03	0.02	-0.06		13	
Wind Speed	0.00	0.03	0.00	0.00	0.03	0.00	-0.01	0.02	0.04	-0.01	0.02	0.04		4	
Humidity in air	-0.01	0.00	-0.02	-0.01	0.00	-0.02	0.04	-0.01	-0.02	0.03	-0.01	-0.02		14	
Weathering removal constant of all vegetation	0.01	-0.03	0.04	0.01	-0.03	0.04	-0.01	-0.02	0.04	-0.01	-0.02	0.04		12	
Depth of soil mixing layer	-0.04	0.08	-0.03	-0.03	0.08	-0.03	-0.06	0.01	-0.04	-0.05	0.01	-0.04		9	
Mass loading for inhalation	0.01	0.02	-0.02	0.01	0.02	-0.02	0.04	0.01	-0.01	0.04	0.01	-0.01		7	
Contaminated zone b parameter	0.03	0.03	-0.06	0.03	0.03	-0.05	0.03	0.00	-0.01	0.03	0.00	-0.01		2	

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.