

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA TC-99.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition = 1			2			3			1			2			3			Position in Variable List
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	SRC	SRC	SRC				
Well pump intake depth	-0.77	-0.76	-0.76	-0.67	-0.67	-0.68	-0.61	-0.57	-0.63	-0.52	-0.50	-0.54						18	
Evapotranspiration coefficient	0.58	0.54	0.56	0.39	0.37	0.39	0.56	0.52	0.56	0.46	0.43	0.46						3	
Kd of Tc-99 in Saturated Zone	-0.26	-0.28	-0.19	-0.15	-0.17	-0.11	-0.17	-0.14	-0.16	-0.12	-0.11	-0.11						17	
Runoff coefficient	0.23	0.26	0.20	0.13	0.15	0.12	0.20	0.17	0.15	0.14	0.12	0.10						5	
Depth of roots	0.21	0.23	0.22	0.12	0.13	0.13	0.05	0.09	0.13	0.04	0.07	0.09						10	
Kd of Tc-99 in Contaminated Zone	0.16	0.18	0.14	0.09	0.11	0.08	0.10	0.16	0.14	0.07	0.11	0.09						16	
Weathering removal constant of all vegetation	-0.08	-0.14	-0.09	-0.05	-0.08	-0.05	-0.10	-0.13	-0.05	-0.07	-0.09	-0.03						12	
Contaminated zone erosion rate	-0.11	-0.04	-0.03	-0.06	-0.03	-0.01	-0.03	-0.03	0.03	-0.02	-0.02	0.02						1	
Cover erosion rate	-0.05	-0.02	-0.05	-0.03	-0.01	-0.03	-0.01	-0.08	-0.03	-0.01	-0.06	-0.02						15	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.01	-0.03	-0.05	-0.01	-0.02	-0.03	0.01	0.00	0.00	0.01	0.00	0.00						11	
Indoor dust filtration factor	-0.01	-0.02	-0.04	-0.01	-0.01	-0.02	-0.03	-0.06	-0.05	-0.02	-0.04	-0.04						8	
Wet foliar interception fraction of leafy vegetables	-0.06	0.01	-0.01	-0.03	0.00	-0.01	-0.07	0.03	-0.08	-0.05	0.02	-0.05						13	
b Parameter of Unsaturated zone 1	-0.08	0.01	0.01	-0.05	0.01	0.00	-0.10	0.03	0.03	-0.07	0.02	0.02						6	
Humidity in air	-0.01	0.00	0.05	0.00	0.00	0.03	0.03	0.01	0.01	0.02	0.01	0.01						14	
Depth of soil mixing layer	-0.07	0.08	0.03	-0.04	0.04	0.01	-0.07	0.07	0.00	-0.05	0.05	0.00						9	
Wind Speed	0.02	-0.04	0.05	0.01	-0.02	0.03	-0.02	-0.05	0.03	-0.02	-0.04	0.02						4	
Contaminated zone b parameter	-0.02	0.00	0.02	-0.01	0.00	0.01	-0.05	0.01	0.02	-0.03	0.01	0.01						2	
Mass loading for inhalation	0.01	0.00	0.00	0.01	0.00	0.00	0.08	0.05	-0.02	0.05	0.03	-0.02						7	

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.