

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA PU-241.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	
Well pump intake depth	-0.54	-0.48	-0.53	-0.45	-0.40	-0.45	-0.31	-0.33	-0.33	-0.30	-0.30	-0.33		18	
Cover erosion rate	0.44	0.37	0.43	0.35	0.29	0.34	0.06	0.27	0.08	0.05	0.25	0.08		17	
Kd of Pu-241 in Contaminated Zone	-0.43	-0.38	-0.35	-0.33	-0.30	-0.27	-0.12	-0.18	-0.10	-0.11	-0.16	-0.09		15	
Depth of roots	-0.33	-0.31	-0.30	-0.24	-0.24	-0.23	-0.11	-0.10	-0.16	-0.11	-0.09	-0.15		10	
Evapotranspiration coefficient	0.15	0.22	0.21	0.10	0.16	0.16	0.01	0.16	0.13	0.00	0.14	0.12		3	
Kd of Pu-241 in Saturated Zone	-0.11	-0.15	-0.14	-0.07	-0.11	-0.10	-0.05	-0.04	-0.01	-0.05	-0.04	-0.01		16	
Contaminated zone b parameter	-0.03	-0.19	0.03	-0.02	-0.14	0.02	-0.04	-0.09	-0.04	-0.04	-0.08	-0.04		2	
Runoff coefficient	0.07	0.02	0.07	0.05	0.01	0.05	0.09	0.00	0.04	0.08	0.00	0.03		5	
Wet foliar interception fraction of leafy vegetables	-0.08	-0.08	0.03	-0.06	-0.06	0.02	0.05	-0.06	-0.03	0.05	-0.05	-0.02		13	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.13	0.03	-0.03	-0.09	0.03	-0.02	-0.07	-0.06	-0.01	-0.07	-0.05	-0.01		11	
Depth of soil mixing layer	-0.02	0.00	-0.09	-0.01	0.00	-0.06	0.05	0.04	-0.03	0.05	0.04	-0.02		9	
Indoor dust filtration factor	0.03	0.06	0.00	0.02	0.05	0.00	-0.08	0.07	-0.02	-0.08	0.06	-0.02		8	
Contaminated zone erosion rate	0.04	-0.08	-0.05	0.02	-0.05	-0.04	0.09	-0.05	-0.05	0.08	-0.05	-0.04		1	
Humidity in air	0.01	-0.06	0.00	0.01	-0.04	0.00	0.01	-0.04	-0.03	0.01	-0.03	-0.03		14	
b Parameter of Unsaturated zone 1	0.05	0.00	0.00	0.04	0.00	0.00	-0.01	-0.04	-0.04	-0.01	-0.04	-0.03		6	
Wind Speed	0.04	0.04	-0.03	0.03	0.03	-0.02	0.07	0.14	-0.01	0.07	0.12	-0.01		4	
Weathering removal constant of all vegetation	-0.04	0.09	-0.07	-0.03	0.07	-0.05	0.01	0.04	-0.04	0.01	0.03	-0.04		12	
Mass loading for inhalation	0.04	-0.07	0.04	0.03	-0.05	0.03	0.08	-0.03	0.01	0.07	-0.02	0.01		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.