

Title : RESRAD Default Parameters
File : FCS BURIED PIPE INSITU UA CM-244.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												3 Position in Variable List	
	1	2	3	1	2	3	1	2	3	1	2	3		
	Coefficient of Determination (R-squared) =													
	0.83	0.79	0.77								0.05	0.19	0.06	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
Kd of Cm-244 in Contaminated Zone	-0.86	-0.82	-0.81	-0.70	-0.64	-0.66	-0.04	-0.02	-0.01	-0.04	-0.02	-0.01		16
Depth of roots	0.79	0.79	0.73	0.53	0.59	0.52	-0.03	0.02	-0.01	-0.03	0.02	-0.01		10
Well pump intake depth	-0.41	-0.41	-0.39	-0.19	-0.21	-0.20	-0.10	-0.08	-0.13	-0.10	-0.07	-0.13		18
Contaminated zone erosion rate	0.07	0.02	0.13	0.03	0.01	0.06	0.07	-0.03	-0.01	0.07	-0.03	-0.01		1
Cover erosion rate	0.00	0.02	0.13	0.00	0.01	0.06	-0.01	0.37	-0.01	-0.01	0.37	-0.01		15
Wind Speed	-0.06	-0.06	-0.03	-0.02	-0.03	-0.02	-0.03	0.06	-0.12	-0.03	0.05	-0.11		4
Wet foliar interception fraction of leafy vegetables	-0.02	0.05	0.08	-0.01	0.02	0.04	0.05	-0.16	0.00	0.05	-0.15	0.00		13
Indoor dust filtration factor	-0.04	0.00	0.13	-0.02	0.00	0.06	0.00	0.08	-0.06	0.00	0.07	-0.06		8
b Parameter of Unsaturated zone	1 0.00	0.04	0.04	0.00	0.02	0.02	-0.06	0.03	-0.05	-0.06	0.03	-0.05		6
Mass loading for inhalation	0.07	-0.07	0.09	0.03	-0.03	0.04	0.01	0.02	0.02	0.01	0.02	0.02		7
Weathering removal constant of all vegetation	-0.14	0.00	0.04	-0.06	0.00	0.02	-0.07	0.09	-0.07	-0.07	0.08	-0.07		12
Evapotranspiration coefficient	0.08	0.05	-0.03	0.03	0.02	-0.02	0.06	-0.06	-0.07	0.06	-0.05	-0.07		3
Depth of soil mixing layer	0.02	0.03	-0.01	0.01	0.01	-0.01	0.08	0.06	-0.11	0.08	0.06	-0.11		9
Humidity in air	-0.11	0.07	0.05	-0.05	0.03	0.03	0.03	-0.02	-0.01	0.03	-0.02	-0.01		14
Kd of Cm-244 in Saturated Zone	-0.06	0.00	0.03	-0.03	0.00	0.01	-0.03	-0.01	-0.03	-0.03	-0.01	-0.03		17
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.05	0.01	0.02	-0.02	0.00	0.01	0.00	-0.01	-0.03	0.00	-0.01	-0.03		11
Contaminated zone b parameter	0.05	0.01	-0.03	0.02	0.00	-0.02	-0.06	0.02	-0.05	-0.06	0.02	-0.05		2
Runoff coefficient	-0.08	0.05	0.02	-0.03	0.02	0.01	0.02	0.04	0.02	0.02	0.04	0.02		5

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.