

Title : RESRAD Default Parameters
File : FCS BURIED PIPE INSITU UA NI-59.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												Position in Variable List	
	Coefficient of Determination (R-squared) =													
	1	2	3	1	2	3	1	2	3	1	2	3		
	0.12	0.18	0.09								0.15	0.08	0.08	
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC		
Depth of roots	-0.20	-0.21	-0.17	-0.19	-0.19	-0.17	-0.17	-0.14	-0.11	-0.16	-0.14	-0.11		10
Cover erosion rate	0.16	0.16	0.13	0.16	0.14	0.12	0.19	0.04	0.10	0.18	0.03	0.09		15
Well pump intake depth	-0.15	-0.20	-0.09	-0.14	-0.18	-0.09	-0.14	-0.15	-0.12	-0.13	-0.14	-0.11		18
Kd of Ni-59 in Saturated Zone	-0.11	-0.18	-0.09	-0.11	-0.16	-0.08	0.04	-0.03	-0.06	0.03	-0.03	-0.06		17
Evapotranspiration coefficient	0.10	0.11	0.16	0.09	0.10	0.15	0.11	0.13	0.17	0.10	0.12	0.16		3
Kd of Ni-59 in Contaminated Zone	0.11	0.13	0.01	0.11	0.12	0.01	0.19	0.05	-0.02	0.18	0.05	-0.02		16
Contaminated zone erosion rate	-0.04	-0.10	0.00	-0.04	-0.09	0.00	0.13	-0.03	0.02	0.13	-0.03	0.02		1
Runoff coefficient	0.03	0.05	0.02	0.03	0.04	0.02	0.04	0.06	0.04	0.04	0.06	0.04		5
Indoor dust filtration factor	-0.03	-0.08	0.02	-0.03	-0.08	0.02	-0.03	-0.09	0.02	-0.03	-0.09	0.02		8
b Parameter of Unsaturated zone 1	-0.05	0.08	0.06	-0.05	0.07	0.05	-0.03	0.03	0.06	-0.03	0.03	0.06		6
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.00	-0.08	0.00	0.00	-0.08	0.00	0.01	-0.08	0.01	0.01	-0.08	0.01		11
Depth of soil mixing layer	-0.06	0.05	-0.07	-0.05	0.05	-0.06	-0.05	-0.03	-0.08	-0.04	-0.03	-0.08		9
Weathering removal constant of all vegetation	0.03	-0.03	0.04	0.03	-0.03	0.03	0.01	-0.01	0.03	0.01	-0.01	0.03		12
Contaminated zone b parameter	0.03	0.05	-0.04	0.02	0.04	-0.04	0.04	0.00	0.01	0.04	0.00	0.01		2
Wet foliar interception fraction of leafy vegetables	-0.06	0.04	-0.01	-0.05	0.04	-0.01	0.00	0.01	-0.05	0.00	0.01	-0.05		13
Mass loading for inhalation	0.00	0.01	-0.02	0.00	0.01	-0.02	0.03	0.00	-0.02	0.03	0.00	-0.02		7
Humidity in air	0.02	0.00	-0.03	0.02	0.00	-0.03	0.04	0.02	-0.03	0.03	0.02	-0.03		14
Wind Speed	-0.03	0.01	0.02	-0.03	0.01	0.02	-0.05	0.02	0.05	-0.05	0.02	0.04		4

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.