

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS NP-237.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1 2 3			1 2 3			1 2 3			Position
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
	Coefficient of Determination (R-squared) =												Variable
				0.67	0.67	0.69				0.18	0.20	0.21	List
Depth of roots	-0.73	-0.73	-0.74	-0.62	-0.61	-0.62	-0.20	-0.26	-0.26	-0.19	-0.24	-0.24	11
Kd of Np-237 in Saturated Zone	-0.59	-0.59	-0.60	-0.42	-0.42	-0.42	-0.05	-0.18	-0.19	-0.05	-0.16	-0.17	18
Well pump intake depth	-0.40	-0.41	-0.41	-0.25	-0.26	-0.25	-0.29	-0.28	-0.28	-0.27	-0.26	-0.26	6
Kd of Np-237 in Contaminated Zone	-0.28	-0.28	-0.25	-0.17	-0.17	-0.15	-0.15	-0.13	-0.10	-0.14	-0.12	-0.09	16
Contaminated zone erosion rate	-0.15	-0.24	-0.18	-0.09	-0.14	-0.10	-0.07	-0.09	-0.07	-0.07	-0.08	-0.07	1
Evapotranspiration coefficient	-0.17	-0.15	-0.20	-0.10	-0.09	-0.11	-0.14	-0.14	-0.18	-0.13	-0.13	-0.17	3
Runoff coefficient	-0.19	-0.12	-0.05	-0.11	-0.07	-0.03	-0.12	-0.06	-0.04	-0.11	-0.05	-0.03	5
Mass loading for inhalation	0.08	0.14	0.08	0.05	0.08	0.04	0.03	0.04	0.05	0.03	0.04	0.04	8
Wet foliar interception fraction of leafy vegetables	0.01	0.10	0.03	0.01	0.06	0.01	0.05	0.08	-0.01	0.04	0.07	-0.01	14
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.05	0.07	0.01	0.03	0.04	0.01	0.04	0.00	-0.06	0.04	0.00	-0.05	12
b Parameter of Unsaturated zone 1	0.00	0.03	0.09	0.00	0.02	0.05	0.10	0.09	0.01	0.09	0.08	0.00	7
Humidity in air	-0.03	-0.03	-0.03	-0.02	-0.02	-0.02	0.00	0.03	0.00	0.00	0.03	0.00	15
Weathering removal constant of all vegetation	-0.04	0.03	-0.07	-0.02	0.02	-0.04	0.01	0.00	-0.08	0.01	0.00	-0.07	13
Kd of Np-237 in Unsaturated Zone 1	0.05	0.00	0.02	0.03	0.00	0.01	-0.03	-0.01	0.14	-0.03	-0.01	0.13	17
Indoor dust filtration factor	-0.02	0.05	0.02	-0.01	0.03	0.01	-0.08	-0.04	0.01	-0.07	-0.03	0.01	9
Wind Speed	-0.02	-0.03	0.02	-0.01	-0.02	0.01	0.02	-0.02	-0.01	0.02	-0.02	-0.01	4
Contaminated zone b parameter	0.03	-0.01	0.01	0.01	0.00	0.01	0.03	0.02	0.04	0.03	0.01	0.04	2
Depth of soil mixing layer	-0.02	-0.01	0.03	-0.01	-0.01	0.02	0.05	0.02	0.09	0.04	0.02	0.08	10

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.