

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS H-3.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	
	Coefficient of Determination (R-squared) =												Variable
				0.95	0.95	0.96				0.89	0.90	0.90	List
Depth of roots	-0.97	-0.97	-0.98	-0.93	-0.93	-0.95	-0.94	-0.94	-0.94	-0.90	-0.89	-0.91	11
Runoff coefficient	0.67	0.68	0.71	0.20	0.21	0.20	0.51	0.59	0.53	0.20	0.23	0.20	5
Kd of H-3 in Contaminated Zone	-0.54	-0.53	-0.57	-0.14	-0.14	-0.14	-0.37	-0.48	-0.37	-0.13	-0.17	-0.13	16
Well pump intake depth	-0.50	-0.47	-0.44	-0.13	-0.12	-0.10	-0.33	-0.36	-0.21	-0.12	-0.12	-0.07	6
Evapotranspiration coefficient	-0.39	-0.37	-0.44	-0.10	-0.09	-0.10	-0.27	-0.25	-0.21	-0.09	-0.08	-0.07	3
Contaminated zone b parameter	-0.06	-0.10	-0.10	-0.01	-0.02	-0.02	-0.09	-0.11	-0.08	-0.03	-0.03	-0.03	2
Indoor dust filtration factor	0.04	0.11	0.02	0.01	0.02	0.00	0.03	0.09	0.02	0.01	0.03	0.01	9
Mass loading for inhalation	0.06	0.09	-0.01	0.01	0.02	0.00	0.03	0.13	0.04	0.01	0.04	0.01	8
Kd of H-3 in Saturated Zone	-0.03	-0.02	-0.06	-0.01	-0.01	-0.01	-0.02	0.03	-0.03	-0.01	0.01	-0.01	18
Contaminated zone erosion rate	0.00	-0.07	-0.02	0.00	-0.02	0.00	-0.08	-0.12	-0.03	-0.03	-0.04	-0.01	1
Depth of soil mixing layer	-0.01	0.01	-0.06	0.00	0.00	-0.01	0.03	-0.05	-0.06	0.01	-0.02	-0.02	10
Wind Speed	-0.01	-0.02	-0.02	0.00	0.00	0.00	-0.05	-0.01	-0.05	-0.02	0.00	-0.02	4
Humidity in air	0.05	0.02	-0.04	0.01	0.01	-0.01	0.03	0.02	0.03	0.01	0.01	0.01	15
b Parameter of Unsaturated zone 1	-0.09	-0.01	0.07	-0.02	0.00	0.01	-0.04	-0.04	0.03	-0.01	-0.01	0.01	7
Kd of H-3 in Unsaturated Zone 1	0.07	-0.01	-0.08	0.02	0.00	-0.02	0.01	0.00	-0.05	0.00	0.00	-0.01	17
Wet foliar interception fraction of leafy vegetables	-0.02	0.07	-0.04	-0.01	0.02	-0.01	0.00	0.07	-0.03	0.00	0.02	-0.01	14
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.00	0.00	0.01	0.00	0.00	0.00	-0.03	-0.02	-0.01	-0.01	-0.01	0.00	12
Weathering removal constant of all vegetation	-0.01	0.04	-0.04	0.00	0.01	-0.01	0.01	0.03	-0.06	0.00	0.01	-0.02	13

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.