

Title : RESRAD Default Parameters
File : FCS BURIED PIPE INSITU UA H-3.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												Position in Variable List																
	1			2			3			1				2			3												
	Coefficient of Determination (R-squared) =													0.87			0.87			0.88			0.75			0.76			0.77
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC																	
Well pump intake depth	-0.93	-0.93	-0.93	-0.90	-0.91	-0.91	-0.86	-0.86	-0.87	-0.83	-0.84	-0.84	18																
Evapotranspiration coefficient	0.46	0.46	0.49	0.18	0.18	0.19	0.33	0.35	0.35	0.17	0.19	0.18	3																
Kd of H-3 in Saturated Zone	-0.35	-0.33	-0.31	-0.13	-0.13	-0.12	-0.25	-0.26	-0.23	-0.13	-0.13	-0.12	17																
Runoff coefficient	0.17	0.22	0.15	0.06	0.08	0.05	0.10	0.17	0.09	0.05	0.09	0.04	5																
Kd of H-3 in Contaminated Zone	-0.03	-0.08	-0.12	-0.01	-0.03	-0.04	-0.03	-0.08	-0.09	-0.02	-0.04	-0.04	16																
Weathering removal constant of all vegetation	0.01	0.04	0.03	0.00	0.01	0.01	-0.02	0.02	0.04	-0.01	0.01	0.02	12																
Contaminated zone erosion rate	0.05	0.03	-0.01	0.02	0.01	0.00	0.01	0.00	-0.03	0.01	0.00	-0.02	1																
Humidity in air	-0.03	-0.03	0.00	-0.01	-0.01	0.00	-0.01	-0.02	-0.02	-0.01	-0.01	-0.01	14																
Wind Speed	0.00	0.03	0.02	0.00	0.01	0.01	-0.01	0.01	0.03	0.00	0.00	0.01	4																
Depth of soil mixing layer	-0.03	0.02	-0.04	-0.01	0.01	-0.02	-0.01	-0.01	-0.04	0.00	-0.01	-0.02	9																
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.00	0.03	0.01	0.00	0.01	0.01	-0.01	0.03	0.01	0.00	0.01	0.01	11																
Indoor dust filtration factor	0.03	0.00	-0.07	0.01	0.00	-0.03	0.06	-0.02	-0.10	0.03	-0.01	-0.05	8																
Cover erosion rate	0.04	0.01	-0.01	0.01	0.00	0.00	0.01	0.04	-0.02	0.00	0.02	-0.01	15																
b Parameter of Unsaturated zone 1	0.03	0.00	0.01	0.01	0.00	0.00	0.05	-0.01	0.00	0.03	-0.01	0.00	6																
Depth of roots	0.00	-0.02	-0.01	0.00	-0.01	0.00	-0.07	-0.03	-0.04	-0.03	-0.02	-0.02	10																
Wet foliar interception fraction of leafy vegetables	-0.04	0.02	-0.01	-0.01	0.01	0.00	-0.03	0.02	-0.01	-0.02	0.01	-0.01	13																
Mass loading for inhalation	-0.01	0.00	-0.01	0.00	0.00	-0.01	-0.01	0.02	-0.01	0.00	0.01	0.00	7																
Contaminated zone b parameter	0.00	-0.01	-0.01	0.00	0.00	0.00	0.01	0.00	0.04	0.00	0.00	0.02	2																

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.