

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA FE-55.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position
	1	2	3	1	2	3	1	2	3	1	2	3	
Coefficient of Determination (R-squared) =				0.28	0.32	0.32				0.27	0.32	0.33	in
	PCC	PCC	PCC	SRC	SRC	SRC	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	Variable List
Well pump intake depth	-0.50	-0.53	-0.54	-0.49	-0.52	-0.54	-0.51	-0.55	-0.56	-0.50	-0.55	-0.55	18
Cover erosion rate	0.15	0.22	0.13	0.13	0.18	0.11	0.03	0.01	0.04	0.02	0.01	0.04	15
Depth of roots	0.10	0.12	0.12	0.09	0.10	0.10	0.09	0.10	0.12	0.08	0.08	0.10	10
Depth of soil mixing layer	-0.04	-0.02	-0.03	-0.03	-0.02	-0.02	-0.04	-0.02	-0.02	-0.03	-0.01	-0.02	9
b Parameter of Unsaturated zone	-0.02	-0.03	-0.03	-0.02	-0.03	-0.03	-0.03	-0.03	-0.04	-0.02	-0.03	-0.03	6
Humidity in air	0.03	0.01	0.04	0.02	0.01	0.03	-0.02	0.01	0.05	-0.02	0.01	0.04	14
Indoor dust filtration factor	0.00	-0.02	-0.07	0.00	-0.01	-0.05	-0.01	-0.01	-0.06	-0.01	-0.01	-0.05	8
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.07	0.03	-0.03	-0.06	0.03	-0.03	-0.08	0.03	-0.05	-0.07	0.02	-0.04	11
Weathering removal constant of all vegetation	-0.03	-0.04	0.02	-0.03	-0.04	0.02	-0.05	-0.02	0.00	-0.04	-0.01	0.00	12
Mass loading for inhalation	0.00	-0.04	-0.01	0.00	-0.03	-0.01	0.01	-0.02	0.02	0.00	-0.02	0.01	7
Kd of Fe-55 in Contaminated Zone	0.03	0.01	0.01	0.02	0.01	0.01	0.01	0.01	-0.01	0.01	0.01	-0.01	16
Wet foliar interception fraction of leafy vegetables	-0.01	0.00	-0.02	-0.01	0.00	-0.02	-0.02	0.01	-0.03	-0.02	0.01	-0.02	13
Evapotranspiration coefficient	-0.02	0.00	0.00	-0.02	0.00	0.00	-0.03	-0.03	-0.01	-0.03	-0.02	-0.01	3
Contaminated zone erosion rate	0.03	-0.02	-0.02	0.02	-0.02	-0.02	0.04	0.02	0.01	0.03	0.02	0.01	1
Wind Speed	-0.03	0.03	0.02	-0.03	0.02	0.02	-0.05	0.05	0.03	-0.04	0.04	0.02	4
Kd of Fe-55 in Saturated Zone	-0.01	0.00	0.02	-0.01	0.00	0.02	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	17
Runoff coefficient	0.01	0.02	-0.01	0.00	0.01	-0.01	0.03	0.00	-0.02	0.02	0.00	-0.01	5
Contaminated zone b parameter	0.01	-0.04	0.02	0.01	-0.04	0.02	0.03	-0.05	0.00	0.02	-0.04	0.00	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.