Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA NI-59.RAD

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Regression Coefficients for Peak All Pathways

Repetition =	1	2	3	1	2	3	1	2	3	1	2	3	Position
Coefficient of Determination (R-squared) =				0.12	0.18	0.09				0.15	0.08	0.08	in
Description of Probabilistic Variable	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	Variable List
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.