

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA PU-239.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1 2 3			1 2 3			1 2 3			Position in Variable List
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
				0.56	0.57	0.54				0.16	0.12	0.11	
Kd of Pu-239 in Saturated Zone	-0.55	-0.57	-0.53	-0.44	-0.45	-0.42	-0.14	-0.08	-0.07	-0.13	-0.08	-0.07	17
Well pump intake depth	-0.54	-0.57	-0.51	-0.42	-0.46	-0.40	-0.30	-0.31	-0.28	-0.29	-0.30	-0.28	18
Kd of Pu-239 in Contaminated Zone	-0.45	-0.46	-0.49	-0.33	-0.34	-0.38	-0.13	-0.09	-0.14	-0.12	-0.09	-0.13	16
Depth of roots	-0.30	-0.20	-0.26	-0.20	-0.13	-0.19	-0.08	0.02	0.00	-0.07	0.02	0.00	10
Cover erosion rate	0.25	0.16	0.16	0.17	0.10	0.11	0.01	-0.04	0.00	0.01	-0.04	0.00	15
Depth of soil mixing layer	-0.05	-0.01	-0.10	-0.03	-0.01	-0.07	-0.06	0.00	-0.04	-0.06	0.00	-0.04	9
Evapotranspiration coefficient	0.05	0.06	0.05	0.03	0.04	0.03	-0.06	0.02	0.04	-0.05	0.02	0.04	3
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.03	-0.10	0.00	0.02	-0.06	0.00	0.03	-0.04	0.01	0.03	-0.03	0.01	11
Runoff coefficient	-0.02	0.01	0.07	-0.01	0.01	0.05	-0.10	0.01	0.01	-0.09	0.01	0.01	5
Weathering removal constant of all vegetation	-0.03	-0.05	0.02	-0.02	-0.03	0.01	-0.01	0.02	0.05	-0.01	0.02	0.05	12
b Parameter of Unsaturated zone 1	0.00	0.03	0.04	0.00	0.02	0.02	0.02	-0.01	0.03	0.02	-0.01	0.03	6
Contaminated zone b parameter	-0.01	0.08	-0.01	-0.01	0.05	-0.01	0.07	0.02	0.04	0.06	0.02	0.04	2
Wind Speed	-0.02	0.05	0.02	-0.01	0.03	0.02	-0.07	-0.02	0.05	-0.07	-0.02	0.05	4
Wet foliar interception fraction of leafy vegetables	-0.03	0.03	0.04	-0.02	0.02	0.03	-0.01	-0.01	-0.02	-0.01	-0.01	-0.02	13
Mass loading for inhalation	0.02	0.03	-0.01	0.01	0.02	-0.01	0.06	0.03	-0.01	0.05	0.03	-0.01	7
Indoor dust filtration factor	-0.02	0.02	0.04	-0.02	0.01	0.02	-0.03	-0.09	0.00	-0.03	-0.09	0.00	8
Contaminated zone erosion rate	-0.06	-0.02	0.07	-0.04	-0.01	0.04	0.13	-0.04	0.05	0.13	-0.03	0.05	1
Humidity in air	0.05	-0.02	-0.04	0.03	-0.01	-0.02	0.07	0.00	-0.02	0.07	0.00	-0.02	14

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.