

Title : RESRAD Default Parameters  
File : FCS BURIED PIPE INSITU UA AM-241.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												Position in Variable List
	1	2	3	1	2	3	1	2	3	1	2	3	
	Coefficient of Determination (R-squared) =												
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
Kd of Am-241 in Contaminated Zone	-0.46	-0.50	-0.45	-0.40	-0.41	-0.38	-0.09	-0.05	-0.02	-0.09	-0.05	-0.01	16
Cover erosion rate	0.37	0.46	0.47	0.31	0.37	0.40	0.09	0.22	0.08	0.08	0.22	0.08	15
Well pump intake depth	-0.34	-0.41	-0.35	-0.27	-0.32	-0.28	-0.22	-0.16	-0.24	-0.21	-0.16	-0.23	18
Depth of roots	-0.24	-0.27	-0.28	-0.19	-0.20	-0.22	-0.07	-0.07	-0.10	-0.07	-0.07	-0.10	10
Kd of Am-241 in Saturated Zone	-0.16	-0.32	-0.22	-0.13	-0.24	-0.17	-0.06	-0.02	-0.05	-0.06	-0.02	-0.05	17
Depth of soil mixing layer	-0.09	-0.02	-0.10	-0.07	-0.01	-0.07	0.05	0.03	-0.12	0.05	0.03	-0.11	9
Humidity in air	-0.10	-0.05	-0.04	-0.08	-0.04	-0.03	-0.01	0.02	-0.01	-0.01	0.02	-0.01	14
Contaminated zone b parameter	-0.10	-0.08	0.02	-0.07	-0.06	0.02	-0.10	0.05	-0.02	-0.10	0.05	-0.02	2
Evapotranspiration coefficient	0.06	0.08	0.01	0.04	0.06	0.01	0.02	0.01	-0.06	0.02	0.01	-0.06	3
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.07	-0.02	-0.02	-0.06	-0.01	-0.02	-0.02	-0.01	-0.01	-0.02	-0.01	-0.01	11
b Parameter of Unsaturated zone 1	0.02	0.08	-0.02	0.01	0.06	-0.01	-0.06	-0.01	-0.03	-0.06	-0.01	-0.02	6
Weathering removal constant of all vegetation	-0.13	0.05	0.02	-0.10	0.04	0.01	-0.09	0.04	-0.03	-0.08	0.04	-0.03	12
Mass loading for inhalation	0.12	-0.13	0.05	0.09	-0.09	0.04	0.07	0.03	0.01	0.07	0.03	0.01	7
Indoor dust filtration factor	0.04	-0.02	0.03	0.03	-0.02	0.02	-0.01	0.06	-0.03	-0.01	0.06	-0.03	8
Contaminated zone erosion rate	-0.04	-0.05	0.04	-0.03	-0.04	0.03	0.04	-0.03	-0.02	0.04	-0.03	-0.02	1
Wet foliar interception fraction of leafy vegetables	-0.01	0.04	0.00	-0.01	0.03	0.00	0.04	0.01	0.00	0.03	0.01	0.00	13
Wind Speed	0.01	0.08	-0.06	0.01	0.05	-0.05	-0.01	0.10	-0.11	-0.01	0.09	-0.11	4
Runoff coefficient	-0.05	0.05	-0.01	-0.03	0.03	-0.01	-0.05	0.03	0.03	-0.05	0.03	0.03	5

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.