

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA CE-144.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) =				0.13	0.13	0.09				0.14	0.11	0.08	in
	PRCC	PRCC	PRCC	SRCC	SRCC	SRCC	PCC	PCC	PCC	SRC	SRC	SRC	Variable List
Well pump intake depth	-0.33	-0.32	-0.26	-0.33	-0.31	-0.26	-0.29	-0.26	-0.23	-0.28	-0.26	-0.23	18
Depth of roots	0.06	0.11	0.09	0.06	0.10	0.08	0.13	0.16	0.14	0.12	0.16	0.14	10
Contaminated zone erosion rate	-0.05	-0.04	-0.01	-0.05	-0.04	-0.01	-0.03	0.01	0.01	-0.03	0.01	0.01	1
Depth of soil mixing layer	-0.03	0.09	0.02	-0.03	0.09	0.02	-0.04	0.09	0.01	-0.04	0.09	0.01	9
b Parameter of Unsaturated zone	-0.10	0.04	-0.02	-0.09	0.04	-0.02	-0.12	0.04	-0.01	-0.11	0.04	-0.01	6
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.02	-0.06	0.00	-0.01	-0.06	0.00	-0.01	-0.06	0.03	-0.01	-0.05	0.03	11
Kd of Ce-144 in Saturated Zone	0.07	-0.04	0.03	0.07	-0.03	0.02	0.08	-0.02	0.02	0.08	-0.02	0.02	17
Runoff coefficient	-0.01	0.02	-0.05	-0.01	0.02	-0.05	0.00	0.01	-0.05	0.00	0.01	-0.05	5
Wind Speed	0.05	-0.03	0.01	0.05	-0.03	0.01	0.06	-0.03	0.01	0.06	-0.03	0.01	4
Weathering removal constant of all vegetation	-0.01	-0.06	0.03	-0.01	-0.05	0.03	-0.02	-0.07	0.03	-0.02	-0.06	0.03	12
Humidity in air	0.01	-0.01	0.03	0.01	-0.01	0.03	0.05	0.00	0.03	0.05	0.00	0.03	14
Kd of Ce-144 in Contaminated Zone	0.03	0.03	-0.04	0.03	0.03	-0.03	0.01	0.03	-0.02	0.01	0.03	-0.02	16
Contaminated zone b parameter	0.03	-0.02	-0.03	0.03	-0.02	-0.03	0.03	-0.03	-0.05	0.03	-0.02	-0.05	2
Mass loading for inhalation	0.01	-0.02	-0.01	0.01	-0.02	-0.01	0.01	-0.02	0.00	0.01	-0.02	0.00	7
Indoor dust filtration factor	0.00	-0.04	0.02	0.00	-0.03	0.02	0.00	-0.04	0.02	0.00	-0.04	0.02	8
Cover erosion rate	0.01	0.03	-0.04	0.01	0.03	-0.04	0.11	-0.02	0.07	0.11	-0.01	0.07	15
Evapotranspiration coefficient	0.03	-0.04	0.01	0.03	-0.04	0.01	0.05	-0.04	0.01	0.05	-0.04	0.01	3
Wet foliar interception fraction of leafy vegetables	-0.03	0.08	-0.05	-0.03	0.08	-0.05	-0.04	0.08	-0.06	-0.04	0.08	-0.06	13

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.