

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS CO-60.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
	Coefficient of Determination (R-squared) =												Variable
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	List
Depth of roots	-0.99	-0.98	-0.99	-0.98	-0.97	-0.98	-0.94	-0.89	-0.95	-0.94	-0.88	-0.94	11
Kd of Co-60 in Contaminated Zone	0.42	0.39	0.44	0.08	0.09	0.08	0.07	0.04	0.09	0.02	0.02	0.03	16
Evapotranspiration coefficient	0.14	0.15	0.11	0.02	0.03	0.02	0.01	0.12	0.04	0.00	0.05	0.01	3
Runoff coefficient	0.15	0.07	0.00	0.03	0.02	0.00	0.01	0.05	-0.05	0.00	0.02	-0.02	5
Kd of Co-60 in Saturated Zone	0.06	0.03	0.07	0.01	0.01	0.01	-0.01	0.01	0.03	0.00	0.01	0.01	18
Kd of Co-60 in Unsaturated Zone 1	0.08	0.05	-0.02	0.01	0.01	0.00	0.01	-0.01	-0.07	0.00	-0.01	-0.02	17
Indoor dust filtration factor	0.03	0.04	0.02	0.00	0.01	0.00	0.01	0.09	0.01	0.00	0.04	0.00	9
Depth of soil mixing layer	0.04	-0.10	0.02	0.01	-0.02	0.00	0.04	-0.07	0.00	0.01	-0.03	0.00	10
Contaminated zone b parameter	0.04	-0.07	-0.01	0.01	-0.02	0.00	-0.04	-0.10	-0.03	-0.01	-0.05	-0.01	2
Well pump intake depth	0.01	0.02	0.03	0.00	0.00	0.00	-0.04	-0.01	0.07	-0.01	0.00	0.02	6
b Parameter of Unsaturated zone 1	-0.03	0.00	-0.01	0.00	0.00	0.00	-0.06	-0.05	0.01	-0.02	-0.02	0.00	7
Weathering removal constant of all vegetation	0.02	-0.01	-0.04	0.00	0.00	-0.01	0.03	-0.02	-0.07	0.01	-0.01	-0.02	13
Contaminated zone erosion rate	0.05	-0.02	0.00	0.01	0.00	0.00	-0.08	-0.05	-0.02	-0.03	-0.02	-0.01	1
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.03	0.04	-0.04	0.00	0.01	-0.01	0.00	0.01	0.01	0.00	0.00	0.00	12
Mass loading for inhalation	0.00	0.03	-0.03	0.00	0.01	-0.01	0.04	-0.01	-0.01	0.01	0.00	0.00	8
Wet foliar interception fraction of leafy vegetables	-0.05	0.05	-0.03	-0.01	0.01	0.00	-0.03	0.04	-0.05	-0.01	0.02	-0.02	14
Humidity in air	0.05	-0.05	0.02	0.01	-0.01	0.00	0.01	-0.02	0.04	0.00	-0.01	0.01	15
Wind Speed	0.03	0.03	-0.07	0.01	0.01	-0.01	0.03	-0.03	-0.07	0.01	-0.01	-0.02	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.