

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS AM-241.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
				0.98	0.97	0.98				0.92	0.89	0.85	List
Depth of roots	-0.99	-0.98	-0.99	-0.99	-0.98	-0.98	-0.96	-0.95	-0.92	-0.96	-0.94	-0.92	11
Mass loading for inhalation	0.24	0.22	0.26	0.03	0.04	0.04	0.09	0.14	0.06	0.03	0.04	0.03	8
Kd of Am-241 in Contaminated Zone	-0.03	-0.03	-0.04	-0.03	-0.03	-0.04	0.00	0.11	0.08	0.00	0.09	0.15	16
Indoor dust filtration factor	0.31	0.20	0.17	0.04	0.04	0.03	0.05	0.10	-0.01	0.01	0.03	0.00	9
Wind Speed	-0.22	-0.11	-0.22	-0.03	-0.02	-0.03	-0.03	-0.04	-0.08	-0.01	-0.01	-0.03	4
Kd of Am-241 in Unsaturated Zone 1	0.02	0.02	0.04	0.02	0.02	0.04	0.01	-0.12	-0.08	0.01	-0.10	-0.13	17
Weathering removal constant of all vegetation	-0.09	0.00	-0.13	-0.01	0.00	-0.02	-0.02	0.06	-0.08	-0.01	0.02	-0.03	13
Wet foliar interception fraction of leafy vegetables	0.02	0.07	0.09	0.00	0.01	0.01	-0.01	0.06	0.01	0.00	0.02	0.00	14
Evapotranspiration coefficient	-0.03	-0.07	-0.06	0.00	-0.01	-0.01	-0.03	-0.01	-0.07	-0.01	0.00	-0.03	3
Kd of Am-241 in Saturated Zone	0.01	-0.06	-0.10	0.00	-0.01	-0.02	-0.01	0.00	0.00	0.00	0.00	0.00	18
Well pump intake depth	0.00	-0.05	-0.02	0.00	-0.01	0.00	-0.04	-0.13	-0.01	-0.01	-0.04	0.00	6
b Parameter of Unsaturated zone 1	-0.02	0.10	-0.02	0.00	0.02	0.00	-0.06	-0.01	0.02	-0.02	0.00	0.01	7
Runoff coefficient	0.05	-0.04	-0.06	0.01	-0.01	-0.01	-0.08	0.02	-0.08	-0.02	0.01	-0.03	5
Contaminated zone erosion rate	0.00	-0.02	0.02	0.00	0.00	0.00	-0.12	-0.10	-0.04	-0.04	-0.03	-0.02	1
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.00	0.09	-0.08	0.00	0.02	-0.01	-0.01	0.02	-0.04	0.00	0.01	-0.02	12
Contaminated zone b parameter	0.06	-0.04	0.01	0.01	-0.01	0.00	0.01	-0.05	-0.01	0.00	-0.02	0.00	2
Depth of soil mixing layer	0.01	-0.04	0.04	0.00	-0.01	0.01	0.04	-0.03	0.05	0.01	-0.01	0.02	10
Humidity in air	-0.03	0.01	0.01	0.00	0.00	0.00	0.01	0.05	0.04	0.00	0.02	0.01	15

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.