

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS CM-244.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	in	Variable	
				0.99	0.99	0.99				0.92	0.92	0.92		List	
Depth of roots	-0.99	-0.99	-0.99	-0.99	-0.99	-0.99	-0.96	-0.96	-0.96	-0.96	-0.96	-0.96		11	
Mass loading for inhalation	0.26	0.37	0.31	0.03	0.04	0.04	0.10	0.16	0.06	0.03	0.05	0.02		8	
Indoor dust filtration factor	0.33	0.29	0.29	0.04	0.03	0.03	0.04	0.12	0.06	0.01	0.03	0.02		9	
Wind Speed	-0.22	-0.17	-0.29	-0.03	-0.02	-0.03	-0.04	-0.04	-0.08	-0.01	-0.01	-0.02		4	
Weathering removal constant of all vegetations	-0.06	-0.03	-0.11	-0.01	0.00	-0.01	0.00	0.07	-0.06	0.00	0.02	-0.02		13	
Wet foliar interception fraction of leafy vegetables	0.01	0.06	0.10	0.00	0.01	0.01	-0.01	0.03	-0.03	0.00	0.01	-0.01		14	
Kd of Cm-244 in Unsaturated Zone 1	0.05	0.02	0.03	0.01	0.00	0.00	0.05	-0.02	-0.04	0.01	0.00	-0.01		17	
Humidity in air	-0.03	-0.02	-0.05	0.00	0.00	-0.01	0.01	0.02	0.01	0.00	0.01	0.00		15	
Evapotranspiration coefficient	-0.02	-0.05	-0.01	0.00	-0.01	0.00	-0.02	0.02	-0.01	-0.01	0.00	0.00		3	
Well pump intake depth	0.02	0.01	0.04	0.00	0.00	0.00	-0.04	-0.11	0.07	-0.01	-0.03	0.02		6	
Kd of Cm-244 in Saturated Zone	0.06	0.04	-0.04	0.01	0.00	0.00	-0.01	0.00	0.02	0.00	0.00	0.01		18	
Depth of soil mixing layer	0.01	-0.03	-0.04	0.00	0.00	0.00	0.02	-0.01	-0.04	0.01	0.00	-0.01		10	
Contaminated zone b parameter	0.03	-0.01	-0.04	0.00	0.00	0.00	-0.01	-0.02	-0.06	0.00	-0.01	-0.02		2	
b Parameter of Unsaturated zone 1	-0.03	0.05	-0.04	0.00	0.01	0.00	-0.08	-0.09	0.03	-0.02	-0.02	0.01		7	
Runoff coefficient	0.10	-0.01	-0.07	0.01	0.00	-0.01	-0.06	0.05	-0.09	-0.02	0.01	-0.03		5	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.02	0.07	-0.03	0.00	0.01	0.00	-0.01	0.00	0.00	0.00	0.00	0.00		12	
Contaminated zone erosion rate	0.00	-0.08	0.07	0.00	-0.01	0.01	-0.12	-0.12	-0.05	-0.04	-0.03	-0.01		1	
Kd of Cm-244 in Contaminated Zone	-0.05	-0.01	0.06	-0.01	0.00	0.01	0.01	-0.11	0.06	0.00	-0.03	0.02		16	

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.