

Title : RESRAD Default Parameters
File : FCS BFM INSITU UA CS-137.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =												3 Position in Variable List	
	Coefficient of Determination (R-squared) =													
	1	2	3	1	2	3	1	2	3	1	2	3		
	0.77	0.77	0.77								0.07	0.15	0.12	
Depth of roots	0.82	0.81	0.81	0.69	0.67	0.68	0.14	0.32	0.26	0.14	0.31	0.26		10
Kd of Cs-137 in Contaminated Zone	-0.75	-0.75	-0.75	-0.54	-0.55	-0.55	-0.07	-0.13	-0.09	-0.07	-0.12	-0.09		15
Cover erosion rate	0.20	0.16	0.16	0.10	0.08	0.08	0.14	0.20	0.16	0.14	0.19	0.15		18
Weathering removal constant of all vegetation	-0.08	-0.04	-0.11	-0.04	-0.02	-0.05	-0.04	0.02	-0.08	-0.04	0.02	-0.07		12
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.05	-0.05	-0.10	-0.03	-0.02	-0.05	-0.04	0.00	-0.01	-0.04	0.00	-0.01		11
Contaminated zone erosion rate	0.07	0.02	0.07	0.03	0.01	0.04	-0.02	-0.03	0.06	-0.02	-0.03	0.06		1
Humidity in air	0.00	0.05	0.04	0.00	0.02	0.02	-0.04	0.04	0.07	-0.04	0.04	0.07		14
b Parameter of Unsaturated zone 1	-0.03	0.01	-0.06	-0.01	0.01	-0.03	-0.02	0.02	0.00	-0.02	0.02	0.00		6
Wet foliar interception fraction of leafy vegetables	-0.02	-0.06	0.01	-0.01	-0.03	0.00	-0.06	0.03	0.01	-0.05	0.03	0.01		13
Runoff coefficient	-0.08	0.10	-0.07	-0.04	0.05	-0.04	-0.02	0.05	0.02	-0.02	0.04	0.02		5
Mass loading for inhalation	0.01	-0.01	-0.05	0.01	-0.01	-0.03	0.14	-0.04	0.01	0.14	-0.03	0.01		7
Evapotranspiration coefficient	0.02	-0.04	-0.02	0.01	-0.02	-0.01	-0.05	0.01	0.01	-0.05	0.01	0.01		3
Depth of soil mixing layer	0.03	0.00	-0.07	0.02	0.00	-0.03	-0.03	0.04	-0.03	-0.03	0.03	-0.03		9
Kd of Cs-137 in Unsaturated Zone 1	0.01	0.01	0.00	0.01	0.01	0.00	-0.03	-0.03	0.02	-0.03	-0.02	0.02		16
Kd of Cs-137 in Saturated Zone	0.01	0.00	0.02	0.00	0.00	0.01	-0.02	0.04	0.00	-0.02	0.03	0.00		17
Contaminated zone b parameter	0.02	-0.03	-0.01	0.01	-0.01	0.00	0.04	-0.01	0.03	0.03	-0.01	0.03		2
Wind Speed	0.03	-0.03	0.00	0.02	-0.01	0.00	-0.01	-0.01	0.00	-0.01	-0.01	0.00		4
Indoor dust filtration factor	-0.03	0.01	0.02	-0.02	0.00	0.01	-0.01	-0.02	0.07	-0.01	-0.02	0.06		8

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.