

Title : RESRAD Default Parameters

File : FCS BFM INSITU UA CS-137.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	
				0.77	0.77	0.77				0.07	0.15	0.12			
														List	
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.