

Title : RESRAD Default Parameters

File : FCS BFM INSITU UA FE-55.RAD

Regression Coefficients for Peak All Pathways

		Repetition =			1	2	3	1	2	3	1	2	3	1	2	3	Position
		Coefficient of Determination (R-squared) =						0.94	0.94	0.94				0.86	0.86	0.86	in
Description of Probabilistic Variable		PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC				Variable
	Weathering removal constant of all vegetation	-0.95	-0.95	-0.96	-0.77	-0.79	-0.80	-0.89	-0.89	-0.90	-0.74	-0.75	-0.76				12
	Depth of roots	0.91	0.90	0.91	0.54	0.53	0.52	0.81	0.80	0.81	0.52	0.50	0.51				10
	Wet foliar interception fraction of leafy vegetables	0.50	0.45	0.55	0.14	0.13	0.16	0.38	0.32	0.37	0.15	0.13	0.15				13
	Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.45	-0.39	-0.40	-0.13	-0.11	-0.11	-0.34	-0.33	-0.26	-0.14	-0.13	-0.10				11
	Mass loading for inhalation	0.06	0.07	0.05	0.02	0.02	0.01	-0.01	0.05	0.06	0.00	0.02	0.02				7
	Depth of soil mixing layer	-0.01	-0.04	-0.06	0.00	-0.01	-0.02	-0.05	0.01	-0.03	-0.02	0.00	-0.01				9
	Contaminated zone b parameter	0.00	0.06	0.05	0.00	0.01	0.01	0.02	0.06	0.00	0.01	0.02	0.00				2
	Cover erosion rate	-0.04	-0.04	-0.01	-0.01	-0.01	0.00	-0.04	0.06	-0.07	-0.01	0.02	-0.03				15
	Humidity in air	-0.04	0.02	-0.07	-0.01	0.00	-0.02	-0.01	0.05	-0.09	0.00	0.02	-0.03				14
	b Parameter of Unsaturated zone 1	-0.06	0.06	0.09	-0.02	0.01	0.02	-0.09	0.02	0.10	-0.03	0.01	0.04				6
	Kd of Fe-55 in Saturated Zone	0.03	-0.02	0.06	0.01	-0.01	0.01	0.01	-0.05	-0.01	0.01	-0.02	0.00				17
	Indoor dust filtration factor	0.04	0.01	-0.01	0.01	0.00	0.00	0.06	0.03	0.01	0.02	0.01	0.00				8
	Evapotranspiration coefficient	-0.01	0.03	-0.07	0.00	0.01	-0.02	0.05	0.06	-0.07	0.02	0.02	-0.03				3
	Contaminated zone erosion rate	0.04	-0.02	-0.05	0.01	-0.01	-0.01	-0.02	-0.04	-0.05	-0.01	-0.01	-0.02				1
	Wind Speed	0.07	-0.09	-0.01	0.02	-0.02	0.00	-0.02	-0.14	-0.04	-0.01	-0.05	-0.01				4
	Runoff coefficient	-0.06	0.04	0.01	-0.02	0.01	0.00	-0.01	0.00	-0.03	0.00	0.00	-0.01				5
	Kd of Fe-55 in Contaminated Zone	0.05	-0.01	-0.02	0.01	0.00	-0.01	0.02	-0.09	0.00	0.01	-0.03	0.00				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.