

Title : RESRAD Default Parameters

File : FCS SOIL UNCERTAINTY ANALYSIS C-14.RAD

## Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position in Variable List
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	
Wind Speed	-1.00	-0.99	-1.00	-0.99	-0.99	-0.99	-0.98	-0.98	-0.98	-0.98	-0.98	-0.98	4
Kd of C-14 in Contaminated Zone	0.64	0.61	0.62	0.08	0.08	0.07	0.05	0.07	-0.01	0.01	0.01	0.00	16
Evapotranspiration coefficient	0.27	0.31	0.28	0.03	0.03	0.03	0.14	0.18	0.19	0.03	0.03	0.03	3
Depth of roots	-0.22	-0.14	-0.22	-0.02	-0.01	-0.02	-0.16	-0.09	-0.09	-0.03	-0.02	-0.02	11
Runoff coefficient	0.19	0.15	0.10	0.02	0.02	0.01	0.06	0.08	0.07	0.01	0.02	0.01	5
Contaminated zone erosion rate	-0.02	-0.11	-0.09	0.00	-0.01	-0.01	-0.12	-0.14	-0.09	-0.02	-0.03	-0.02	1
Well pump intake depth	0.05	0.09	0.00	0.01	0.01	0.00	0.04	0.06	0.02	0.01	0.01	0.00	6
Wet foliar interception fraction of leafy vegetables	-0.10	0.03	-0.04	-0.01	0.00	0.00	-0.08	0.03	-0.01	-0.01	0.00	0.00	14
b Parameter of Unsaturated zone 1	-0.05	-0.07	0.02	0.00	-0.01	0.00	-0.05	-0.03	-0.04	-0.01	-0.01	-0.01	7
Humidity in air	0.04	0.02	0.03	0.00	0.00	0.00	0.02	0.06	0.02	0.00	0.01	0.00	15
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.08	0.01	-0.03	-0.01	0.00	0.00	-0.06	-0.03	-0.03	-0.01	-0.01	-0.01	12
Weathering removal constant of all vegetation	0.03	-0.01	-0.09	0.00	0.00	-0.01	0.01	-0.02	-0.06	0.00	0.00	-0.01	13
Indoor dust filtration factor	0.04	-0.03	0.06	0.00	0.00	0.01	0.03	-0.03	0.01	0.01	0.00	0.00	9
Depth of soil mixing layer	0.02	0.00	0.03	0.00	0.00	0.00	0.01	0.03	-0.01	0.00	0.00	0.00	10
Contaminated zone b parameter	0.00	-0.01	-0.03	0.00	0.00	0.00	0.03	-0.03	-0.10	0.01	-0.01	-0.02	2
Kd of C-14 in Saturated Zone	0.00	-0.02	0.05	0.00	0.00	0.01	0.05	0.05	0.06	0.01	0.01	0.01	18
Kd of C-14 in Unsaturated Zone 1	0.06	0.01	-0.03	0.01	0.00	0.00	0.04	-0.04	-0.04	0.01	-0.01	-0.01	17
Mass loading for inhalation	0.02	0.01	-0.03	0.00	0.00	0.00	0.00	-0.02	-0.03	0.00	0.00	-0.01	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.