

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	
	Coefficient of Determination (R-squared) =												Variable
				0.74	0.70	0.73				0.03	0.05	0.05	List
Kd of Eu-152 in Contaminated Zone	0.77	0.75	0.78	0.63	0.62	0.64	0.04	0.01	0.04	0.04	0.01	0.04	16
Depth of roots	-0.73	-0.69	-0.72	-0.54	-0.52	-0.55	-0.09	0.03	-0.09	-0.09	0.03	-0.09	11
Evapotranspiration coefficient	0.25	0.24	0.14	0.13	0.13	0.07	0.04	0.14	0.10	0.04	0.13	0.10	3
Runoff coefficient	0.09	0.09	0.03	0.05	0.05	0.01	0.11	0.05	0.06	0.11	0.05	0.06	5
Indoor dust filtration factor	-0.01	0.06	0.09	0.00	0.03	0.05	0.00	0.02	-0.03	0.00	0.02	-0.03	9
Contaminated zone b parameter	0.01	-0.09	-0.03	0.01	-0.05	-0.02	-0.03	-0.09	0.04	-0.03	-0.09	0.04	2
b Parameter of Unsaturated zone 1	-0.08	-0.02	-0.01	-0.04	-0.01	-0.01	0.01	-0.04	-0.01	0.01	-0.03	-0.01	7
Contaminated zone erosion rate	-0.03	-0.07	-0.01	-0.01	-0.04	0.00	0.02	0.01	0.02	0.02	0.01	0.02	1
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.08	-0.01	0.00	-0.04	0.00	0.00	0.01	-0.01	0.01	0.01	-0.01	0.01	12
Well pump intake depth	-0.04	-0.04	0.01	-0.02	-0.02	0.00	-0.01	0.07	0.01	-0.01	0.07	0.01	6
Depth of soil mixing layer	0.04	0.01	0.00	0.02	0.01	0.00	0.04	-0.06	0.06	0.04	-0.06	0.06	10
Wet foliar interception fraction of leafy vegetables	-0.08	0.05	-0.03	-0.04	0.03	-0.02	-0.04	0.02	-0.04	-0.04	0.02	-0.04	14
Mass loading for inhalation	0.03	0.05	-0.03	0.02	0.03	-0.02	-0.03	-0.05	-0.07	-0.03	-0.05	-0.07	8
Humidity in air	0.02	0.01	0.01	0.01	0.01	0.01	0.01	-0.03	0.06	0.01	-0.03	0.06	15
Weathering removal constant of all vegetation	0.03	0.07	-0.06	0.02	0.04	-0.03	0.03	-0.07	-0.07	0.03	-0.07	-0.06	13
Kd of Eu-152 in Saturated Zone	-0.05	-0.03	0.05	-0.03	-0.02	0.03	-0.01	0.02	0.01	-0.01	0.02	0.01	18
Kd of Eu-152 in Unsaturated Zone 1	0.09	-0.04	-0.04	0.04	-0.02	-0.02	0.02	0.00	-0.03	0.02	0.00	-0.03	17
Wind Speed	0.03	-0.05	0.02	0.02	-0.03	0.01	0.07	-0.02	-0.06	0.07	-0.02	-0.06	4

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.