

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position
	1	2	3	1	2	3	1	2	3	1	2	3	
Coefficient of Determination (R-squared) =				0.08	0.05	0.06				0.08	0.10	0.06	in
	PCC	PCC	PCC	SRC	SRC	SRC	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	Variable List
Evapotranspiration coefficient	0.13	0.08	0.15	0.13	0.08	0.15	0.11	0.08	0.15	0.11	0.08	0.15	3
Depth of roots	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.07	0.08	0.06	0.07	10
Cover erosion rate	0.14	0.03	0.09	0.13	0.03	0.09	0.03	0.04	0.01	0.03	0.04	0.01	15
Well pump intake depth	-0.10	-0.10	-0.03	-0.10	-0.10	-0.03	-0.13	-0.14	-0.04	-0.13	-0.13	-0.04	18
Runoff coefficient	0.06	0.08	0.01	0.06	0.08	0.01	0.04	0.10	0.01	0.03	0.09	0.01	5
Indoor dust filtration factor	-0.02	-0.07	-0.01	-0.02	-0.07	-0.01	-0.02	-0.06	0.00	-0.02	-0.06	0.00	8
Wind Speed	0.05	0.00	0.04	0.05	0.00	0.04	0.04	0.01	0.05	0.04	0.01	0.05	4
Contaminated zone b parameter	0.01	-0.02	-0.07	0.01	-0.02	-0.07	0.02	-0.01	-0.05	0.02	-0.01	-0.05	2
Wet foliar interception fraction of leafy vegetables	-0.05	0.05	-0.08	-0.05	0.05	-0.08	-0.03	0.05	-0.06	-0.03	0.04	-0.06	13
Kd of Sr-90 in Saturated Zone	0.11	0.02	-0.05	0.11	0.02	-0.05	-0.03	-0.13	-0.08	-0.02	-0.12	-0.08	17
Kd of Sr-90 in Contaminated Zone	0.04	0.03	-0.01	0.04	0.03	-0.01	0.19	0.16	0.10	0.19	0.16	0.10	16
Contaminated zone erosion rate	0.03	-0.01	0.04	0.03	-0.01	0.04	-0.05	-0.08	0.01	-0.05	-0.08	0.01	1
b Parameter of Unsaturated zone 1	-0.09	0.05	0.00	-0.09	0.05	0.00	-0.05	0.05	0.00	-0.05	0.05	0.00	6
Depth of soil mixing layer	-0.03	0.08	-0.02	-0.03	0.08	-0.02	-0.01	0.09	-0.01	-0.01	0.08	-0.01	9
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.01	-0.04	0.03	-0.01	-0.04	0.03	0.00	-0.05	0.00	0.00	-0.05	0.00	11
Humidity in air	0.01	-0.01	0.02	0.01	-0.01	0.02	-0.03	0.00	0.02	-0.03	0.00	0.02	14
Weathering removal constant of all vegetation	-0.03	-0.05	0.05	-0.03	-0.05	0.05	-0.02	-0.04	0.04	-0.02	-0.03	0.04	12
Mass loading for inhalation	0.04	-0.01	-0.02	0.04	-0.01	-0.02	0.01	0.01	-0.02	0.01	0.01	-0.02	7

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.