

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) =				0.96	0.96	0.96				0.02	0.02	0.02	in
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	Variable
													List
Kd of C-14 in Contaminated Zone	-0.98	-0.98	-0.98	-0.97	-0.97	-0.97	-0.09	-0.04	-0.07	-0.09	-0.04	-0.07	16
Depth of roots	0.49	0.53	0.53	0.11	0.12	0.12	0.01	0.01	0.02	0.01	0.01	0.02	10
Cover erosion rate	0.28	0.21	0.24	0.06	0.04	0.05	-0.02	-0.02	0.03	-0.02	-0.02	0.03	15
Wind Speed	-0.11	-0.05	-0.16	-0.02	-0.01	-0.03	-0.04	0.01	-0.04	-0.04	0.01	-0.04	4
Depth of soil mixing layer	0.10	-0.01	0.08	0.02	0.00	0.02	0.01	-0.01	0.02	0.00	-0.01	0.00	9
Evapotranspiration coefficient	0.08	0.09	-0.01	0.02	0.02	0.00	-0.01	0.02	-0.03	-0.01	0.02	-0.03	3
Wet weight crop yield of fruit, grain and non-leafy vegetables	0.05	0.03	0.04	0.01	0.01	0.01	0.01	0.03	0.01	0.01	0.03	0.01	11
Contaminated zone b parameter	0.01	0.04	0.03	0.00	0.01	0.01	-0.01	0.03	0.06	-0.01	0.02	0.06	2
Mass loading for inhalation	-0.06	-0.04	0.03	-0.01	-0.01	0.01	-0.05	0.01	0.08	-0.05	0.01	0.08	7
b Parameter of Unsaturated zone 1	0.03	-0.05	-0.05	0.01	-0.01	-0.01	-0.02	-0.03	0.01	-0.02	-0.03	0.01	6
Kd of C-14 in Saturated Zone	0.07	0.02	-0.02	0.02	0.00	0.00	0.02	0.07	0.02	0.02	0.07	0.02	17
Runoff coefficient	-0.03	0.08	0.00	-0.01	0.02	0.00	-0.01	0.04	-0.03	-0.01	0.04	-0.03	5
Indoor dust filtration factor	-0.03	0.03	-0.04	-0.01	0.01	-0.01	-0.03	-0.03	0.00	-0.03	-0.03	0.00	8
Weathering removal constant of all vegetation	-0.06	0.10	0.00	-0.01	0.02	0.00	0.02	0.01	0.00	0.02	0.01	0.00	12
Humidity in air	0.06	-0.03	-0.01	0.01	-0.01	0.00	0.05	-0.05	-0.02	0.05	-0.05	-0.02	14
Wet foliar interception fraction of leafy vegetables	-0.03	-0.01	0.02	-0.01	0.00	0.00	-0.05	0.05	0.02	-0.05	0.05	0.02	13
Contaminated zone erosion rate	-0.08	0.02	0.05	-0.02	0.00	0.01	-0.03	-0.05	0.00	-0.03	-0.05	0.00	1

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.