

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA EU-155.RAD

Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition =			1			2			3			Position		
	PCC	PCC	PCC	SRC	SRC	SRC	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC		in	
	Coefficient of Determination (R-squared) =												Variable		
	0.91			0.91			0.83			0.39			0.40	0.46	List
Cover erosion rate	0.95	0.95	0.91	0.95	0.95	0.91	0.10	0.11	0.09	0.08	0.09	0.07	15		
b Parameter of Unsaturated zone	-0.08	-0.08	-0.04	-0.03	-0.02	-0.02	-0.05	0.04	0.03	-0.04	0.03	0.02	6		
Wind Speed	0.00	-0.03	-0.09	0.00	-0.01	-0.04	0.00	0.08	0.05	0.00	0.06	0.04	4		
Contaminated zone b parameter	-0.02	0.00	-0.06	-0.01	0.00	-0.02	0.00	0.07	-0.06	0.00	0.06	-0.04	2		
Evapotranspiration coefficient	-0.01	0.02	0.05	0.00	0.01	0.02	-0.04	-0.02	0.01	-0.03	-0.02	0.01	3		
Depth of roots	-0.03	0.02	-0.06	-0.01	0.01	-0.02	0.04	0.07	0.04	0.03	0.05	0.03	10		
Indoor dust filtration factor	0.02	-0.03	0.04	0.01	-0.01	0.02	-0.01	-0.06	-0.04	0.00	-0.05	-0.03	8		
Runoff coefficient	-0.04	-0.05	0.03	-0.01	-0.02	0.01	-0.02	0.00	-0.03	-0.01	0.00	-0.02	5		
Well pump intake depth	-0.04	-0.04	0.03	-0.01	-0.01	0.01	-0.13	-0.15	-0.13	-0.10	-0.12	-0.10	18		
Weathering removal constant of all vegetation	-0.03	0.01	0.03	-0.01	0.00	0.01	-0.01	-0.05	0.05	-0.01	-0.04	0.03	12		
Contaminated zone erosion rate	0.02	0.00	0.01	0.01	0.00	0.00	-0.02	-0.01	-0.04	-0.01	-0.01	-0.03	1		
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.01	0.01	-0.01	0.00	0.00	-0.01	0.01	-0.03	0.05	0.01	-0.02	0.04	11		
Depth of soil mixing layer	0.01	0.04	-0.02	0.00	0.01	-0.01	-0.05	0.12	-0.08	-0.04	0.09	-0.06	9		
Wet foliar interception fraction of leafy vegetables	0.08	-0.03	-0.06	0.02	-0.01	-0.02	-0.08	0.06	0.02	-0.06	0.05	0.01	13		
Mass loading for inhalation	0.04	-0.01	-0.01	0.01	0.00	0.00	0.03	-0.01	0.00	0.03	-0.01	0.00	7		
Kd of Eu-155 in Contaminated Zone	-0.02	0.01	0.00	0.00	0.00	0.00	-0.60	-0.61	-0.67	-0.60	-0.60	-0.66	16		
Humidity in air	0.04	0.07	-0.08	0.01	0.02	-0.03	-0.01	-0.01	0.01	-0.01	-0.01	0.01	14		
Kd of Eu-155 in Saturated Zone	-0.02	0.00	0.01	-0.01	0.00	0.01	-0.03	-0.06	-0.04	-0.03	-0.04	-0.03	17		

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.