

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA EU-152.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	Variable	
Coefficient of Determination (R-squared) =				0.92	0.95	0.84				0.37	0.40	0.45		List	
Cover erosion rate	0.96	0.98	0.91	0.96	0.97	0.91	0.16	0.16	0.15	0.13	0.13	0.11		15	
b Parameter of Unsaturated zone	-0.08	-0.06	0.00	-0.02	-0.01	0.00	-0.05	0.04	0.04	-0.04	0.03	0.03		6	
Wet foliar interception fraction of leafy vegetables	-0.03	-0.06	-0.02	-0.01	-0.01	-0.01	-0.05	0.07	0.01	-0.04	0.06	0.00		13	
Humidity in air	-0.06	0.04	-0.04	-0.02	0.01	-0.02	-0.01	0.00	-0.01	-0.01	0.00	0.00		14	
Depth of soil mixing layer	-0.03	0.00	-0.04	-0.01	0.00	-0.02	-0.05	0.12	-0.10	-0.04	0.10	-0.07		9	
Weathering removal constant of all vegetation	0.01	-0.04	0.05	0.00	-0.01	0.02	-0.01	-0.04	0.04	-0.01	-0.03	0.03		12	
Contaminated zone b parameter	0.01	0.05	-0.07	0.00	0.01	-0.03	-0.01	0.08	-0.07	-0.01	0.06	-0.05		2	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.05	0.03	0.05	-0.01	0.01	0.02	-0.01	-0.04	0.06	0.00	-0.03	0.05		11	
Kd of Eu-152 in Saturated Zone	-0.01	-0.03	0.00	0.00	-0.01	0.00	-0.05	-0.10	-0.07	-0.04	-0.08	-0.05		17	
Indoor dust filtration factor	0.04	-0.07	0.03	0.01	-0.02	0.01	0.00	-0.06	-0.04	0.00	-0.05	-0.03		8	
Kd of Eu-152 in Contaminated Zone	0.00	-0.01	0.00	0.00	0.00	0.00	-0.59	-0.61	-0.65	-0.58	-0.59	-0.64		16	
Wind Speed	0.00	0.12	-0.06	0.00	0.02	-0.02	-0.01	0.08	0.04	-0.01	0.06	0.03		4	
Well pump intake depth	-0.05	0.00	0.03	-0.01	0.00	0.01	-0.10	-0.15	-0.12	-0.08	-0.12	-0.09		18	
Runoff coefficient	0.02	0.00	-0.02	0.01	0.00	-0.01	-0.03	0.01	-0.02	-0.02	0.01	-0.02		5	
Depth of roots	0.03	0.00	-0.02	0.01	0.00	-0.01	0.04	0.04	0.04	0.03	0.03	0.03		10	
Evapotranspiration coefficient	-0.04	-0.01	0.04	-0.01	0.00	0.01	-0.03	-0.03	0.02	-0.03	-0.03	0.01		3	
Mass loading for inhalation	-0.01	-0.02	0.02	0.00	0.00	0.01	0.04	-0.01	-0.01	0.03	-0.01	-0.01		7	
Contaminated zone erosion rate	0.01	-0.02	0.00	0.00	0.00	0.00	-0.04	-0.03	-0.02	-0.03	-0.02	-0.02		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.