

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA NP-237.RAD

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	in	Variable	
				0.78	0.73	0.70				0.28	0.22	0.22			
														List	
Kd of Np-237 in Saturated Zone	-0.77	-0.73	-0.70	-0.57	-0.56	-0.54	-0.23	-0.18	-0.20	-0.21	-0.17	-0.18		17	
Well pump intake depth	-0.74	-0.73	-0.71	-0.52	-0.56	-0.55	-0.42	-0.41	-0.42	-0.40	-0.40	-0.42		18	
Kd of Np-237 in Contaminated Zone	-0.62	-0.52	-0.48	-0.38	-0.32	-0.30	-0.18	-0.11	-0.09	-0.16	-0.10	-0.08		16	
Cover erosion rate	0.02	0.12	0.11	0.01	0.07	0.06	0.18	-0.02	0.02	0.16	-0.02	0.02		15	
b Parameter of Unsaturated zone	0.11	0.08	0.03	0.05	0.04	0.01	-0.02	0.01	0.01	-0.01	0.01	0.01		6	
Runoff coefficient	0.03	0.06	0.09	0.01	0.03	0.05	-0.09	0.04	0.05	-0.07	0.03	0.05		5	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.08	-0.03	-0.04	-0.04	-0.01	-0.02	-0.01	-0.04	-0.05	-0.01	-0.03	-0.04		11	
Contaminated zone erosion rate	0.03	-0.05	-0.05	0.01	-0.03	-0.03	-0.02	-0.05	-0.02	-0.02	-0.04	-0.02		1	
Contaminated zone b parameter	-0.02	-0.10	0.05	-0.01	-0.05	0.03	-0.08	0.03	0.03	-0.07	0.03	0.03		2	
Humidity in air	-0.11	0.05	-0.01	-0.05	0.02	-0.01	-0.08	-0.01	-0.01	-0.07	-0.01	-0.01		14	
Evapotranspiration coefficient	0.05	0.01	-0.01	0.03	0.00	-0.01	-0.04	-0.02	-0.11	-0.03	-0.02	-0.10		3	
Weathering removal constant of all vegetation	-0.07	0.01	0.02	-0.03	0.00	0.01	-0.09	-0.05	0.04	-0.07	-0.04	0.04		12	
Depth of roots	0.02	-0.01	-0.03	0.01	0.00	-0.02	0.06	-0.04	-0.01	0.05	-0.03	-0.01		10	
Wind Speed	0.05	0.03	-0.05	0.02	0.01	-0.03	0.03	0.04	-0.06	0.02	0.04	-0.05		4	
Mass loading for inhalation	0.12	-0.05	-0.07	0.06	-0.02	-0.04	0.10	0.06	-0.03	0.09	0.05	-0.03		7	
Wet foliar interception fraction of leafy vegetables	-0.10	0.07	0.03	-0.05	0.03	0.02	-0.04	0.13	-0.01	-0.03	0.11	-0.01		13	
Indoor dust filtration factor	0.01	-0.05	0.03	0.00	-0.03	0.02	-0.02	0.05	0.02	-0.01	0.05	0.02		8	
Depth of soil mixing layer	-0.01	-0.02	0.03	0.00	-0.01	0.01	0.01	0.03	0.03	0.01	0.03	0.03		9	

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.