

Title : RESRAD Default Parameters

File : FCS BURIED PIPE INSITU UA PU-238.RAD

## Regression Coefficients for Peak All Pathways

Description of Probabilistic Variable	Repetition = 1			2			3			1			2			3			Position in Variable List
	PRCC	PRCC	PRCC	SRRC	SRRC	SRRC	PCC	PCC	PCC	SRC	SRC	SRC	SRC	SRC	SRC				
Kd of Pu-238 in Contaminated Zone	-0.72	-0.68	-0.66	-0.65	-0.61	-0.59	-0.20	-0.13	-0.11	-0.19	-0.12	-0.11						16	
Well pump intake depth	-0.52	-0.52	-0.51	-0.38	-0.40	-0.39	-0.30	-0.24	-0.32	-0.29	-0.23	-0.31						18	
Kd of Pu-238 in Saturated Zone	-0.17	-0.30	-0.20	-0.11	-0.20	-0.14	-0.07	-0.05	-0.07	-0.07	-0.04	-0.06						17	
Cover erosion rate	0.04	0.14	0.25	0.02	0.09	0.17	0.08	0.23	0.06	0.07	0.23	0.06						15	
b Parameter of Unsaturated zone 1	0.07	0.08	0.03	0.04	0.05	0.02	-0.05	0.00	-0.01	-0.05	0.00	-0.01						6	
Depth of roots	0.01	-0.05	-0.11	0.00	-0.03	-0.07	-0.03	-0.05	-0.06	-0.03	-0.04	-0.06						10	
Contaminated zone b parameter	-0.02	-0.10	0.00	-0.01	-0.06	0.00	-0.09	0.04	0.00	-0.08	0.04	0.00						2	
Humidity in air	-0.14	0.03	0.00	-0.09	0.02	0.00	-0.03	0.02	-0.03	-0.03	0.02	-0.03						14	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.09	0.02	-0.03	-0.06	0.01	-0.02	-0.06	-0.01	-0.02	-0.05	-0.01	-0.01						11	
Indoor dust filtration factor	0.06	-0.02	0.06	0.03	-0.01	0.04	-0.03	0.06	-0.02	-0.03	0.05	-0.02						8	
Evapotranspiration coefficient	0.04	-0.12	-0.01	0.03	-0.08	-0.01	0.01	-0.02	-0.09	0.01	-0.02	-0.09						3	
Depth of soil mixing layer	-0.08	0.03	-0.03	-0.05	0.02	-0.02	0.04	0.05	-0.10	0.03	0.04	-0.09						9	
Runoff coefficient	-0.03	0.02	-0.06	-0.02	0.01	-0.04	-0.07	0.03	0.02	-0.06	0.03	0.01						5	
Mass loading for inhalation	0.14	-0.08	0.00	0.09	-0.05	0.00	0.09	0.04	-0.01	0.08	0.04	-0.01						7	
Wet foliar interception fraction of leafy vegetables	-0.07	0.01	0.00	-0.05	0.01	0.00	0.01	-0.02	0.01	0.01	-0.01	0.01						13	
Weathering removal constant of all vegetation	-0.08	0.03	0.00	-0.05	0.02	0.00	-0.09	0.05	0.00	-0.08	0.04	0.00						12	
Wind Speed	0.03	0.12	-0.09	0.02	0.08	-0.06	0.01	0.08	-0.10	0.01	0.08	-0.09						4	
Contaminated zone erosion rate	0.02	-0.06	0.05	0.01	-0.04	0.03	0.04	-0.04	-0.01	0.03	-0.04	-0.01						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.