

Title : RESRAD Default Parameters

File : FCS BFM INSITU UA PU-240.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	
				1.00	1.00	1.00				0.07	0.07	0.08			
														List	
Kd of Pu-240 in Contaminated Zone	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-0.20	-0.19	-0.24	-0.20	-0.18	-0.24		16	
Cover erosion rate	0.54	0.50	0.54	0.03	0.03	0.04	0.00	-0.03	-0.01	0.00	-0.03	-0.01		15	
Weathering removal constant of all vegetation	-0.40	-0.42	-0.44	-0.02	-0.02	-0.03	-0.02	0.04	-0.04	-0.02	0.04	-0.04		12	
Depth of roots	0.35	0.40	0.43	0.02	0.02	0.03	-0.07	0.08	0.02	-0.07	0.07	0.02		10	
Wet foliar interception fraction of non-leafy vegetables	0.31	0.24	0.24	0.02	0.01	0.01	-0.04	0.00	0.03	-0.04	0.00	0.03		13	
Wet weight crop yield of fruit, grain and non-leafy vegetables	-0.19	-0.27	-0.25	-0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.00	0.00		11	
Depth of soil mixing layer	-0.02	0.13	0.09	0.00	0.01	0.00	0.03	-0.02	0.03	0.03	-0.02	0.03		9	
Kd of Pu-240 in Saturated Zone	-0.03	-0.06	-0.10	0.00	0.00	-0.01	-0.04	-0.01	-0.02	-0.04	-0.01	-0.02		17	
Evapotranspiration coefficient	-0.02	0.10	0.07	0.00	0.01	0.00	0.01	0.03	-0.03	0.01	0.03	-0.03		3	
Contaminated zone erosion rate	-0.04	-0.03	-0.03	0.00	0.00	0.00	-0.03	0.02	-0.01	-0.03	0.02	-0.01		1	
Contaminated zone b parameter	0.03	-0.05	-0.05	0.00	0.00	0.00	0.01	0.02	0.06	0.01	0.02	0.06		2	
b Parameter of Unsaturated zone 1	0.04	0.03	0.00	0.00	0.00	0.00	0.10	-0.04	0.00	0.10	-0.04	0.00		6	
Mass loading for inhalation	-0.02	0.05	0.01	0.00	0.00	0.00	0.00	0.04	0.01	0.00	0.04	0.01		7	
Indoor dust filtration factor	0.02	-0.01	0.01	0.00	0.00	0.00	-0.09	0.11	-0.05	-0.09	0.11	-0.05		8	
Humidity in air	0.01	0.00	-0.03	0.00	0.00	0.00	0.01	0.12	-0.08	0.01	0.12	-0.08		14	
Wind Speed	0.01	0.00	0.01	0.00	0.00	0.00	0.02	-0.03	-0.03	0.02	-0.03	-0.02		4	
Runoff coefficient	0.04	0.00	-0.04	0.00	0.00	0.00	0.02	0.03	0.12	0.02	0.02	0.12		5	

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.