Table 2.9-36 ~~Parameters Used to Estimate~~ Wet-weight Vegetable Concentrations from Dry-weight Soil Concentrations.

Parameter	Parameter Description	Plant Type	Radionuclide	Value	Concentration Factor[4] (C_{svhi})	Average Vegetable Concentration - Seven Gardens[5]
ML_v	Mass Loading factor	Root Vegetables	Not Radionuclide Specific	0.1[1]		
		Leafy Vegetables				
		Fruits				
B_{jv}	Concentration Factor for Root Uptake	Root Vegetables	Natural Uranium	0.014[2]	22.8	13.35
			Thorium-230	0.00012[2]	20.24	6.01
			Radium-226	0.0032[2]	20.64	13.85
			Lead-210	0.0032[2]	20.64	26.24
			Polonium-210	0.009[2]	21.8	Not detected
		Leafy Vegetables	Natural Uranium	0.017[2]	29.5	17.13
			Thorium-230	0.0025[2]	25.63	7.69
			Radium-226	0.075[2]	43.75	22.06
			Lead-210	0.0058[2]	26.54	38.74
			Polonium-210	0.0025[2]	25.63	Not detected
		Fruits	Natural Uranium	0.004[2]	18.72	11.87
			Thorium-230	0.000085[2]	18.02	5.4
			Radium-226	0.0061[2]	19.1	12.82
			Lead-210	0.009[2]	19.62	24.95
			Polonium-210	0.0004[2]	18.07	Not detected
W_v	Dry weight to Wet Weight Conversion Factor	Root Vegetables	Not Radionuclide Specific	0.2[3]		
		Leafy Vegetables		0.25[3]		
		Fruits		0.18[3]		

[1] pCi/kg dry-weight plant per pCi/g dry-weight soil

[2] pCi/kg dry-weight plant per pCi/g dry-weight soil

[3] Dry weight to wet-weight conversion factor, unitless

[4] pCi/kg wet-weight plant per pCi/g dry-weight soil

[5] pCi/kg wet-weight plant

ML_v = plant soil mass-loading factor for re-suspension of soil to plant v (pCi/kg dry-weight plant per pCi/g dry-weight soil)

B_{jv} = concentration factor for uptake of radionuclide j from the soil in plant v (pCi/kg dry-weight plant per pCi/g dry-weight soil)

W_v = dry to wet-weight conversion factor (unitless)

Revised February 2015