

**TABLE 5-4**

Parameters for Estimating Chemical Intake from Incidental Ingestion of Contaminants in Soil  
*Bellows OU1 EE/CA, Bellows AFS, Hawaii*

Parameter	Description	Units	Intake Value <sup>1</sup>
Cs	Contaminant concentration in soil	mg/kg	95% UCL of mean
IRs	Soil ingestion rate	mg/day	50
EF	Exposure frequency	days/year	250
ED	Exposure duration	year	25
BW	Body weight	kg	70
AT	Averaging time	year	25 (noncancer effects) 70 (cancer effects)

**TABLE 5-5**

Parameters for Estimating Exposure from Dermal Contact with Contaminants in Soil  
*Bellows OU1 EE/CA, Bellows AFS, Hawaii*

Parameter	Description	Units	Intake Value <sup>1</sup>
Cs	Contaminant concentration in soil	mg/kg	95% UCL of mean
EF	Exposure frequency	days/year	250
ED	Exposure duration	year	25
SA	Exposed skin surface area	cm <sup>2</sup> /day	5000
AF	Soil adherence factor	mg/cm <sup>2</sup>	0.08
ABS	Fraction of chemical absorbed from soil through skin	unitless	Chemical-specific
BW	Body weight	kg	70
AT	Averaging time	year	70 (cancer effects) 25 (noncancer effects)

**TABLE 5-6**

Parameters for Estimating Chemical Intake from Inhalation of Contaminants in Soil  
*Bellows OU1 EE/CA, Bellows AFS, Hawaii*

Parameter	Description	Units	Intake Value <sup>1</sup>
Cs	Contaminant concentration in soil	mg/kg	95% UCL of mean
IRs	Air inhalation rate	m <sup>3</sup> /day	20
VF	Volatilization Factor	m <sup>3</sup> /kg	Chemical-specific
EF	Exposure frequency	days/year	250
ED	Exposure duration	year	25
BW	Body weight	kg	70
AT	Averaging time	years	70 (cancer effects) 25 (noncancer effects)

**Notes (for Tables 5-4 through 5-6):**

<sup>1</sup> Source: EPA, September 1991a.

mg/kg = milligram per kilogram

m<sup>3</sup>/day = cubic meters per day

m<sup>3</sup>/kg = cubic meters per kilogram

kg = kilogram

cm<sup>2</sup>/day = square centimeters per day

UCL = upper confidence limit