

## Biomonitoring

### Lead

**Table B1: Lead in children ages 1 to 5 years: Median and 95<sup>th</sup> percentile concentrations in blood, 1976-2012**

	Blood lead concentration (µg/dL)									
	1976-1980	1988-1991	1991-1994	1999-2000	2001-2002	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012
<b>Median</b>	15.0	3.5	2.6	2.2	1.6	1.6	1.4	1.4	1.2	1.0
<b>95<sup>th</sup> percentile</b>	29.0	12.1	9.7	7.0	5.8	5.1	3.8	4.1	3.4	2.9

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

**Table B1a: Lead in children ages 1 to 17 years: Blood lead concentrations by age group, 2011-2012**

	Blood lead concentration (µg/dL)						
	All ages	Age 1 year	Age 2 years	Ages 3 to 5 years	Ages 6 to 10 years	Ages 11 to 15 years	Ages 16 to 17 years
<b>Median</b>	0.6	1.1	1.0	0.9	0.7	0.5	0.5
<b>95<sup>th</sup> percentile</b>	2.0	3.6*	3.5	2.7	2.0	1.3	1.5

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

Footnote \*: The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate), or the RSE may be underestimated.

**Table B2. Lead in children ages 1 to 5 years: Median concentrations in blood, by race/ethnicity and family income, 2009-2012**

	Median blood lead concentration (µg/dL)		
Race / Ethnicity	All Incomes† (n=1,549)	< Poverty Level (n=623)	≥ Poverty Level (n=807)
<b>All Races/Ethnicities</b> (n=1,549)	1.1	1.2	0.9
<b>White Non-Hispanic</b> (n=386)	1.0	1.4*	0.9
<b>Black Non-Hispanic</b> (n=392)	1.4	1.5	1.3
<b>Mexican-American</b> (n=414)	1.0	1.1	0.9
<b>All Other Races/Ethnicities†</b> (n=357)	1.0	1.2	0.8

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

† The “All Other Races/Ethnicities” category includes all other races or ethnicities not specified, together with those individuals who report more than one race.

‡ Includes sampled individuals for whom income information is missing.

\*The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate), or the RSE may be underestimated.

**Table B2a. Lead in children ages 1 to 5 years: 95<sup>th</sup> percentile concentrations in blood, by race/ethnicity and family income, 2009-2012**

Race / Ethnicity	95 <sup>th</sup> Percentile blood lead concentration (µg/dL)		
	All Incomes‡ (n=1,549)	< Poverty Level (n=623)	≥ Poverty Level (n=807)
<b>All Races/Ethnicities</b> (n=1,549)	3.2	4.3	2.6
<b>White non-Hispanic</b> (n=386)	3.4	NA**	2.6
<b>Black non-Hispanic</b> (n=392)	4.1	4.6	3.2
<b>Mexican-American</b> (n=414)	2.6	2.8	2.3
<b>All Other Races/Ethnicities†</b> (n=357)	2.6	3.4	1.9

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

† The “All Other Races/Ethnicities” category includes all other races or ethnicities not specified, together with those individuals who report more than one race.

‡ Includes sampled individuals for whom income information is missing.

\*The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate), or the RSE may be underestimated.

\*\*Not available. The estimate is not reported because it has large uncertainty: the relative standard error, RSE, is at least 40% (RSE = standard error divided by the estimate), or the RSE cannot be reliably estimated.

**Table B2b. Lead in children ages 1 to 5 years: Median concentrations in blood, by race/ethnicity and family income, 1991-1994**

Race / Ethnicity	Median blood lead concentration (µg/dL)		
	All Incomes‡ (n=2,367)	< Poverty Level (n=974)	≥ Poverty Level (n=1,253)
<b>All Races/Ethnicities</b> (n=2,367)	2.6	4.0	2.2
<b>White Non-Hispanic</b> (n=623)	2.3	3.2*	2.1
<b>Black Non-Hispanic</b> (n=773)	4.3	5.1	3.5
<b>Mexican-American</b> (n=822)	3.1	3.7	2.6
<b>All Other Races/Ethnicities†</b> (n=149)	2.5	NA**	2.0*

DATA: Centers for Disease Control and Prevention, National Center for Health Statistics and National Center for Environmental Health, National Health and Nutrition Examination Survey

† The “All Other Races/Ethnicities” category includes all other races or ethnicities not specified, together with those individuals who report more than one race.

‡ Includes sampled individuals for whom income information is missing.

\*The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate), or the RSE may be underestimated.

\*\* Not available. The estimate is not reported because it has large uncertainty: the relative standard error, RSE, is 40% or greater (RSE = standard error divided by the estimate), or the RSE cannot be reliably estimated.