

Blood Lead (1999 - 2010)

CAS Number 7439-92-1

Geometric mean and selected percentiles of blood concentrations (in µg/dL) for the U.S. population from the National Health and Nutrition Examination Survey.

Demographic Categories	Survey (Years)	Geometric Mean (95% CI)	50th Percentile (95% CI)	75th Percentile (95% CI)	90th Percentile (95% CI)	95th Percentile (95% CI)	Sample Size
Total population	99-00	1.66 (1.60-1.72)	1.60 (1.60-1.70)	2.50 (2.40-2.60)	3.80 (3.60-4.00)	5.00 (4.70-5.50)	7970
Total population	01-02	1.45 (1.39-1.51)	1.40 (1.40-1.50)	2.20 (2.10-2.30)	3.40 (3.20-3.60)	4.50 (4.20-4.70)	8945
Total population	03-04	1.43 (1.36-1.50)	1.40 (1.30-1.50)	2.10 (2.10-2.20)	3.20 (3.10-3.30)	4.20 (3.90-4.40)	8373
Total population	05-06	1.29 (1.23-1.36)	1.27 (1.20-1.34)	2.01 (1.91-2.11)	3.05 (2.86-3.22)	3.91 (3.64-4.18)	8407
Total population	07-08	1.27 (1.21-1.34)	1.22 (1.18-1.30)	1.90 (1.80-2.00)	2.80 (2.67-2.96)	3.70 (3.50-3.90)	8266
Total population	09-10	1.12 (1.08-1.16)	1.07 (1.03-1.12)	1.70 (1.62-1.77)	2.58 (2.45-2.71)	3.34 (3.14-3.57)	8793
Age 1-5 years	99-00	2.23 (1.96-2.53)	2.20 (1.90-2.50)	3.40 (2.80-3.90)	4.90 (4.00-6.60)	7.00 (6.10-8.30)	723
Age 1-5 years	01-02	1.70 (1.55-1.87)	1.60 (1.50-1.80)	2.50 (2.20-2.90)	4.20 (3.50-5.20)	5.80 (4.70-6.90)	898
Age 1-5 years	03-04	1.77 (1.60-1.95)	1.70 (1.50-1.90)	2.50 (2.30-2.80)	3.90 (3.30-4.60)	5.10 (4.10-6.60)	911
Age 1-5 years	05-06	1.46 (1.36-1.57)	1.43 (1.34-1.55)	2.10 (1.97-2.20)	2.98 (2.72-3.32)	3.80 (3.49-4.54)	968
Age 1-5 years	07-08	1.51 (1.37-1.66)	1.43 (1.30-1.60)	2.20 (1.98-2.31)	3.20 (2.65-3.85)	4.10 (3.40-5.19)	817
Age 1-5 years	09-10	1.17 (1.08-1.26)	1.15 (1.03-1.27)	1.70 (1.50-1.87)	2.39 (2.08-2.65)	3.37 (2.63-4.11)	836
Age 6-11 years	99-00	1.51 (1.36-1.66)	1.40 (1.30-1.60)	2.10 (1.80-2.50)	3.30 (2.80-3.80)	4.50 (3.40-6.20)	905
Age 6-11 years	01-02	1.25 (1.14-1.36)	1.20 (1.00-1.30)	1.70 (1.60-2.00)	2.80 (2.50-3.10)	3.70 (3.00-4.70)	1044
Age 6-11 years	03-04	1.25 (1.12-1.39)	1.20 (1.10-1.40)	1.80 (1.50-2.10)	2.60 (2.10-3.10)	3.30 (2.50-4.60)	856
Age 6-11 years	05-06	1.02 (.948-1.10)	.970 (.890-1.01)	1.40 (1.28-1.55)	2.06 (1.80-2.72)	3.00 (2.26-3.81)	934
Age 6-11 years	07-08	.988 (.914-1.07)	.960 (.880-1.07)	1.31 (1.22-1.49)	1.90 (1.70-2.11)	2.50 (2.10-2.88)	1011
Age 6-11 years	09-10	.838 (.792-.887)	.810 (.740-.840)	1.13 (1.06-1.21)	1.64 (1.45-1.84)	2.01 (1.88-2.25)	1009
Age 12-19 years	99-00	1.10 (1.04-1.17)	1.10 (1.00-1.20)	1.50 (1.40-1.70)	2.30 (2.10-2.40)	2.90 (2.70-3.00)	2135
Age 12-19 years	01-02	.942 (.899-.986)	.900 (.900-1.00)	1.30 (1.20-1.40)	2.00 (1.90-2.10)	2.70 (2.40-2.90)	2231
Age 12-19 years	03-04	.946 (.878-1.02)	.900 (.800-1.00)	1.30 (1.20-1.40)	1.90 (1.70-2.10)	2.60 (2.20-3.00)	2081
Age 12-19 years	05-06	.797 (.746-.852)	.740 (.690-.790)	1.08 (.990-1.20)	1.69 (1.50-1.85)	2.23 (1.98-2.46)	1996
Age 12-19 years	07-08	.800 (.744-.859)	.760 (.720-.820)	1.04 (.980-1.16)	1.50 (1.35-1.70)	1.90 (1.70-2.32)	1074
Age 12-19 years	09-10	.680 (.636-.727)	.660 (.590-.700)	.910 (.840-.990)	1.29 (1.19-1.43)	1.72 (1.52-1.86)	1183
Age 20+ years	99-00	1.75 (1.68-1.81)	1.70 (1.60-1.80)	2.60 (2.50-2.70)	3.90 (3.70-4.10)	5.20 (4.80-5.60)	4207
Age 20+ years	01-02	1.56 (1.49-1.62)	1.60 (1.50-1.60)	2.30 (2.30-2.40)	3.60 (3.40-3.70)	4.60 (4.30-5.00)	4772
Age 20+ years	03-04	1.52 (1.45-1.60)	1.50 (1.40-1.60)	2.30 (2.20-2.40)	3.30 (3.20-3.50)	4.30 (4.00-4.60)	4525
Age 20+ years	05-06	1.41 (1.34-1.48)	1.41 (1.33-1.48)	2.17 (2.04-2.31)	3.22 (3.05-3.43)	4.12 (3.82-4.38)	4509
Age 20+ years	07-08	1.38 (1.31-1.46)	1.34 (1.26-1.42)	2.06 (1.94-2.18)	3.00 (2.80-3.14)	3.90 (3.68-4.23)	5364
Age 20+ years	09-10	1.23 (1.19-1.28)	1.20 (1.14-1.25)	1.85 (1.78-1.93)	2.77 (2.60-2.93)	3.57 (3.29-3.84)	5765
Male	99-00	2.01 (1.93-2.09)	1.90 (1.90-2.00)	2.90 (2.80-3.00)	4.50 (4.10-4.80)	6.00 (5.50-6.50)	3913
Male	01-02	1.78 (1.71-1.86)	1.80 (1.70-1.80)	2.70 (2.50-2.80)	3.90 (3.80-4.10)	5.40 (5.00-5.50)	4339
Male	03-04	1.69 (1.62-1.75)	1.60 (1.50-1.70)	2.50 (2.40-2.60)	3.70 (3.40-3.90)	4.80 (4.50-5.20)	4132
Male	05-06	1.52 (1.42-1.62)	1.49 (1.41-1.58)	2.30 (2.12-2.51)	3.48 (3.20-3.75)	4.36 (4.04-4.76)	4092
Male	07-08	1.47 (1.39-1.56)	1.40 (1.32-1.50)	2.17 (2.00-2.30)	3.21 (3.01-3.53)	4.41 (4.10-4.88)	4147
Male	09-10	1.31 (1.25-1.36)	1.26 (1.20-1.32)	1.96 (1.89-2.03)	2.93 (2.72-3.15)	3.84 (3.54-4.39)	4366
Female	99-00	1.37 (1.32-1.43)	1.30 (1.30-1.40)	2.00 (1.90-2.10)	3.10 (2.90-3.30)	4.00 (3.80-4.20)	4057
Female	01-02	1.19 (1.14-1.25)	1.20 (1.10-1.20)	1.80 (1.70-1.90)	2.60 (2.50-2.80)	3.60 (3.10-4.00)	4606
Female	03-04	1.22 (1.14-1.31)	1.20 (1.10-1.30)	1.80 (1.70-2.00)	2.70 (2.50-3.00)	3.50 (3.10-3.80)	4241
Female	05-06	1.11 (1.05-1.17)	1.06 (.980-1.15)	1.73 (1.61-1.84)	2.59 (2.44-2.74)	3.25 (3.12-3.44)	4315
Female	07-08	1.11 (1.06-1.16)	1.09 (1.00-1.14)	1.64 (1.54-1.74)	2.41 (2.35-2.50)	3.00 (2.81-3.20)	4119
Female	09-10	.966 (.929-1.01)	.940 (.890-.970)	1.43 (1.36-1.53)	2.18 (2.08-2.30)	2.81 (2.63-2.93)	4427
Mexican American	99-00	1.83 (1.75-1.91)	1.80 (1.70-1.90)	2.80 (2.60-2.90)	4.20 (3.90-4.60)	5.80 (5.10-6.60)	2742
Mexican American	01-02	1.46 (1.34-1.60)	1.50 (1.30-1.60)	2.30 (2.10-2.60)	3.60 (3.40-4.20)	5.40 (4.40-6.70)	2268
Mexican American	03-04	1.55 (1.43-1.69)	1.50 (1.40-1.60)	2.30 (2.10-2.50)	3.50 (2.90-4.20)	4.90 (3.90-6.40)	2085
Mexican American	05-06	1.29 (1.21-1.38)	1.26 (1.15-1.36)	2.00 (1.87-2.20)	3.16 (2.79-3.58)	4.22 (3.47-5.36)	2236
Mexican American	07-08	1.25 (1.15-1.36)	1.20 (1.10-1.31)	1.88 (1.70-2.06)	2.81 (2.60-3.20)	3.92 (3.20-5.00)	1712
Mexican American	09-10	1.14 (1.03-1.28)	1.04 (.940-1.18)	1.76 (1.52-1.99)	2.93 (2.63-3.30)	3.92 (3.60-4.69)	1966
Non-Hispanic Black	99-00	1.87 (1.75-2.00)	1.80 (1.70-2.00)	2.80 (2.60-3.00)	4.30 (4.00-4.60)	5.70 (5.20-6.10)	1842
Non-Hispanic Black	01-02	1.65 (1.52-1.80)	1.60 (1.40-1.70)	2.60 (2.30-2.90)	4.20 (3.80-4.70)	5.80 (5.30-6.50)	2219
Non-Hispanic Black	03-04	1.69 (1.52-1.89)	1.60 (1.40-1.80)	2.60 (2.20-3.00)	4.10 (3.50-4.70)	5.30 (4.60-6.60)	2293

Demographic Categories	Survey (Years)	Geometric Mean (95% CI)	50th Percentile (95% CI)	75th Percentile (95% CI)	90th Percentile (95% CI)	95th Percentile (95% CI)	Sample Size
Non-Hispanic Black	05-06	1.39 (1.26-1.53)	1.31 (1.19-1.45)	2.16 (1.95-2.42)	3.48 (3.19-3.80)	4.65 (4.21-5.14)	2193
Non-Hispanic Black	07-08	1.39 (1.30-1.48)	1.30 (1.20-1.42)	2.10 (2.00-2.20)	3.22 (3.08-3.50)	4.50 (4.00-4.80)	1746
Non-Hispanic Black	09-10	1.24 (1.18-1.30)	1.19 (1.12-1.25)	1.87 (1.76-1.99)	2.90 (2.68-3.18)	3.86 (3.57-4.29)	1593
Non-Hispanic White	99-00	1.62 (1.55-1.69)	1.60 (1.50-1.70)	2.40 (2.30-2.50)	3.60 (3.40-3.90)	5.00 (4.40-5.70)	2716
Non-Hispanic White	01-02	1.43 (1.37-1.48)	1.40 (1.30-1.50)	2.20 (2.10-2.20)	3.20 (3.10-3.40)	4.20 (3.90-4.50)	3806
Non-Hispanic White	03-04	1.37 (1.32-1.43)	1.30 (1.30-1.40)	2.10 (2.00-2.10)	3.00 (2.80-3.20)	3.90 (3.60-4.30)	3478
Non-Hispanic White	05-06	1.28 (1.19-1.37)	1.27 (1.17-1.38)	1.97 (1.86-2.14)	2.99 (2.73-3.25)	3.82 (3.41-4.20)	3310
Non-Hispanic White	07-08	1.24 (1.16-1.33)	1.20 (1.10-1.30)	1.86 (1.72-2.00)	2.70 (2.54-2.90)	3.50 (3.20-3.89)	3461
Non-Hispanic White	09-10	1.10 (1.04-1.16)	1.07 (1.00-1.15)	1.67 (1.59-1.76)	2.49 (2.35-2.63)	3.14 (2.99-3.36)	3760

Limit of detection (LOD, see Data Analysis section) for Survey years 99-00, 01-02, 03-04, 05-06, 07-08, and 09-10 are 0.3, 0.3, 0.28, 0.25, 0.25, and 0.25 respectively.