

Blood Lead (2011 - 2018)

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	11-12	.973 (.916-1.04)	.930 (.880-.980)	1.52 (1.41-1.61)	2.38 (2.17-2.61)	3.16 (2.77-3.68)	7920
Total population	13-14	.858 (.813-.906)	.830 (.780-.870)	1.32 (1.24-1.42)	2.10 (1.96-2.30)	2.81 (2.49-3.14)	5215
Total population	15-16	.820 (.772-.872)	.780 (.740-.840)	1.32 (1.21-1.42)	2.14 (2.02-2.24)	2.75 (2.50-2.98)	4988
Total population	17-18	.753 (.723-.784)	.730 (.690-.770)	1.22 (1.17-1.27)	1.86 (1.75-1.95)	2.41 (2.24-2.67)	7513
Age 1-5 years	11-12	.970 (.877-1.07)	.950 (.870-1.04)	1.34 (1.20-1.65)	2.26 (1.88-2.65)	2.91 (2.41-3.83)	713
Age 1-5 years	13-14	.782 (.705-.869)	.740 (.680-.800)	1.08 (.940-1.24)	1.58 (1.33-1.90)	2.24 (1.68-2.64)	818
Age 1-5 years	15-16	.758 (.675-.850)	.690 (.610-.790)	1.10 (.950-1.32)	1.86 (1.50-2.65)	2.76 (1.94-3.81)	790
Age 1-5 years	17-18	.670 (.600-.748)	.620 (.540-.740)	.980 (.810-1.18)	1.49 (1.28-1.72)	2.02 (1.67-2.44)	629
Age 6-11 years	11-12	.681 (.623-.744)	.640 (.600-.700)	.930 (.820-1.05)	1.34 (1.14-1.60)	1.89 (1.36-2.94)	1048
Age 6-11 years	13-14	.567 (.529-.607)	.530 (.500-.570)	.760 (.700-.820)	1.13 (1.01-1.23)	1.42 (1.21-1.83)	1075
Age 6-11 years	15-16	.571 (.523-.623)	.550 (.510-.600)	.780 (.720-.830)	1.18 (.970-1.44)	1.59 (1.24-2.24)	1023
Age 6-11 years	17-18	.475 (.456-.494)	.460 (.430-.490)	.650 (.610-.690)	.930 (.840-1.04)	1.19 (1.04-1.40)	833
Age 12-19 years	11-12	.554 (.511-.601)	.530 (.490-.570)	.740 (.660-.830)	1.09 (.960-1.19)	1.31 (1.16-1.65)	1129
Age 12-19 years	13-14	.506 (.464-.551)	.460 (.420-.500)	.670 (.600-.750)	1.13 (.870-1.53)	1.69 (1.27-2.06)	627
Age 12-19 years	15-16	.467 (.433-.504)	.450 (.410-.490)	.680 (.610-.730)	.930 (.820-1.03)	1.17 (.990-1.36)	565
Age 12-19 years	17-18	.411 (.387-.436)	.390 (.370-.410)	.530 (.490-.600)	.830 (.730-.940)	1.09 (.930-1.45)	1030
Age 20+ years	11-12	1.09 (1.03-1.16)	1.05 (1.00-1.12)	1.67 (1.56-1.79)	2.56 (2.33-2.77)	3.36 (2.98-3.93)	5030
Age 20+ years	13-14	.967 (.921-1.02)	.940 (.900-.980)	1.45 (1.37-1.55)	2.26 (2.09-2.49)	3.03 (2.65-3.55)	2695
Age 20+ years	15-16	.920 (.862-.982)	.880 (.810-.960)	1.46 (1.35-1.59)	2.30 (2.15-2.44)	2.89 (2.65-3.07)	2610
Age 20+ years	17-18	.855 (.816-.895)	.850 (.780-.900)	1.34 (1.27-1.43)	2.01 (1.86-2.17)	2.62 (2.41-2.86)	5021
Male	11-12	1.13 (1.06-1.21)	1.07 (1.01-1.14)	1.74 (1.63-1.88)	2.73 (2.48-3.01)	3.68 (3.18-4.22)	3968
Male	13-14	.994 (.919-1.08)	.940 (.890-1.00)	1.48 (1.35-1.61)	2.41 (2.07-2.90)	3.47 (2.89-4.32)	2587
Male	15-16	.921 (.864-.981)	.860 (.800-.930)	1.46 (1.33-1.60)	2.41 (2.18-2.62)	2.93 (2.75-3.26)	2488
Male	17-18	.860 (.820-.902)	.830 (.760-.900)	1.35 (1.25-1.45)	2.10 (1.91-2.27)	2.79 (2.54-3.11)	3666
Female	11-12	.842 (.796-.890)	.820 (.780-.860)	1.30 (1.22-1.39)	1.98 (1.83-2.22)	2.59 (2.32-2.94)	3952
Female	13-14	.746 (.715-.777)	.730 (.700-.760)	1.19 (1.11-1.28)	1.86 (1.69-2.02)	2.33 (2.24-2.42)	2628
Female	15-16	.735 (.679-.795)	.720 (.650-.770)	1.16 (1.04-1.31)	1.88 (1.66-2.13)	2.39 (2.21-2.65)	2500
Female	17-18	.664 (.632-.698)	.640 (.590-.690)	1.08 (1.02-1.15)	1.67 (1.54-1.76)	2.11 (1.89-2.33)	3847
Mexican American	11-12	.838 (.767-.916)	.780 (.690-.880)	1.27 (1.15-1.40)	2.05 (1.81-2.36)	3.06 (2.34-3.59)	1077
Mexican American	13-14	.746 (.685-.813)	.690 (.650-.750)	1.17 (1.10-1.28)	1.88 (1.61-2.04)	2.38 (2.03-2.74)	969
Mexican American	15-16	.704 (.659-.752)	.680 (.610-.730)	1.10 (.970-1.22)	1.77 (1.67-1.96)	2.39 (2.01-3.10)	994
Mexican American	17-18	.662 (.610-.719)	.620 (.560-.680)	1.10 (1.02-1.16)	1.67 (1.49-1.92)	2.46 (1.86-3.70)	1134
Non-Hispanic Black	11-12	.998 (.947-1.05)	.910 (.850-.990)	1.53 (1.45-1.60)	2.58 (2.31-2.91)	3.72 (3.04-4.58)	2195
Non-Hispanic Black	13-14	.871 (.787-.963)	.830 (.720-.940)	1.39 (1.27-1.48)	2.17 (2.00-2.38)	3.03 (2.48-4.00)	1119
Non-Hispanic Black	15-16	.856 (.763-.962)	.790 (.700-.890)	1.32 (1.11-1.60)	2.19 (1.86-2.80)	3.11 (2.76-3.39)	1070
Non-Hispanic Black	17-18	.766 (.736-.798)	.710 (.680-.760)	1.23 (1.18-1.27)	2.03 (1.85-2.18)	2.76 (2.45-3.08)	1708
Non-Hispanic White	11-12	.993 (.914-1.08)	.960 (.880-1.03)	1.56 (1.40-1.73)	2.43 (2.11-2.74)	3.14 (2.67-3.85)	2493
Non-Hispanic White	13-14	.882 (.820-.950)	.870 (.800-.920)	1.34 (1.24-1.48)	2.20 (1.94-2.48)	2.97 (2.43-3.58)	1848
Non-Hispanic White	15-16	.835 (.774-.900)	.790 (.750-.860)	1.35 (1.23-1.49)	2.21 (2.03-2.36)	2.72 (2.39-2.98)	1511
Non-Hispanic White	17-18	.772 (.731-.816)	.750 (.690-.830)	1.24 (1.15-1.32)	1.86 (1.69-2.01)	2.35 (2.15-2.67)	2536
All Hispanic	11-12	.855 (.793-.922)	.820 (.750-.880)	1.27 (1.18-1.39)	2.00 (1.86-2.23)	2.84 (2.41-3.34)	1931
All Hispanic	13-14	.742 (.695-.793)	.690 (.660-.730)	1.14 (1.08-1.24)	1.80 (1.62-1.99)	2.36 (2.03-2.72)	1481
All Hispanic	15-16	.703 (.658-.750)	.670 (.620-.720)	1.10 (1.01-1.18)	1.73 (1.56-2.00)	2.39 (2.00-2.97)	1664
All Hispanic	17-18	.629 (.593-.667)	.580 (.550-.630)	1.01 (.950-1.08)	1.53 (1.43-1.74)	2.11 (1.78-2.94)	1816
Non-Hispanic Asian	11-12	1.15 (1.06-1.24)	1.14 (1.02-1.26)	1.70 (1.56-1.86)	2.56 (2.36-2.72)	3.28 (2.80-3.65)	1005
Non-Hispanic Asian	13-14	1.01 (.923-1.11)	1.02 (.900-1.19)	1.48 (1.35-1.66)	2.25 (2.06-2.39)	2.67 (2.37-2.86)	510
Non-Hispanic Asian	15-16	1.07 (.976-1.18)	1.08 (.920-1.20)	1.65 (1.47-1.96)	2.62 (2.11-2.92)	3.07 (2.76-3.49)	479
Non-Hispanic Asian	17-18	1.02 (.909-1.15)	1.01 (.910-1.14)	1.56 (1.38-1.79)	2.26 (2.02-2.62)	2.93 (2.59-3.59)	946

Limit of detection (LOD, see Data Analysis section) for Survey years 11-12, 13-14, 15-16, and 17-18 are 0.25, 0.07, 0.07, and 0.07 respectively.