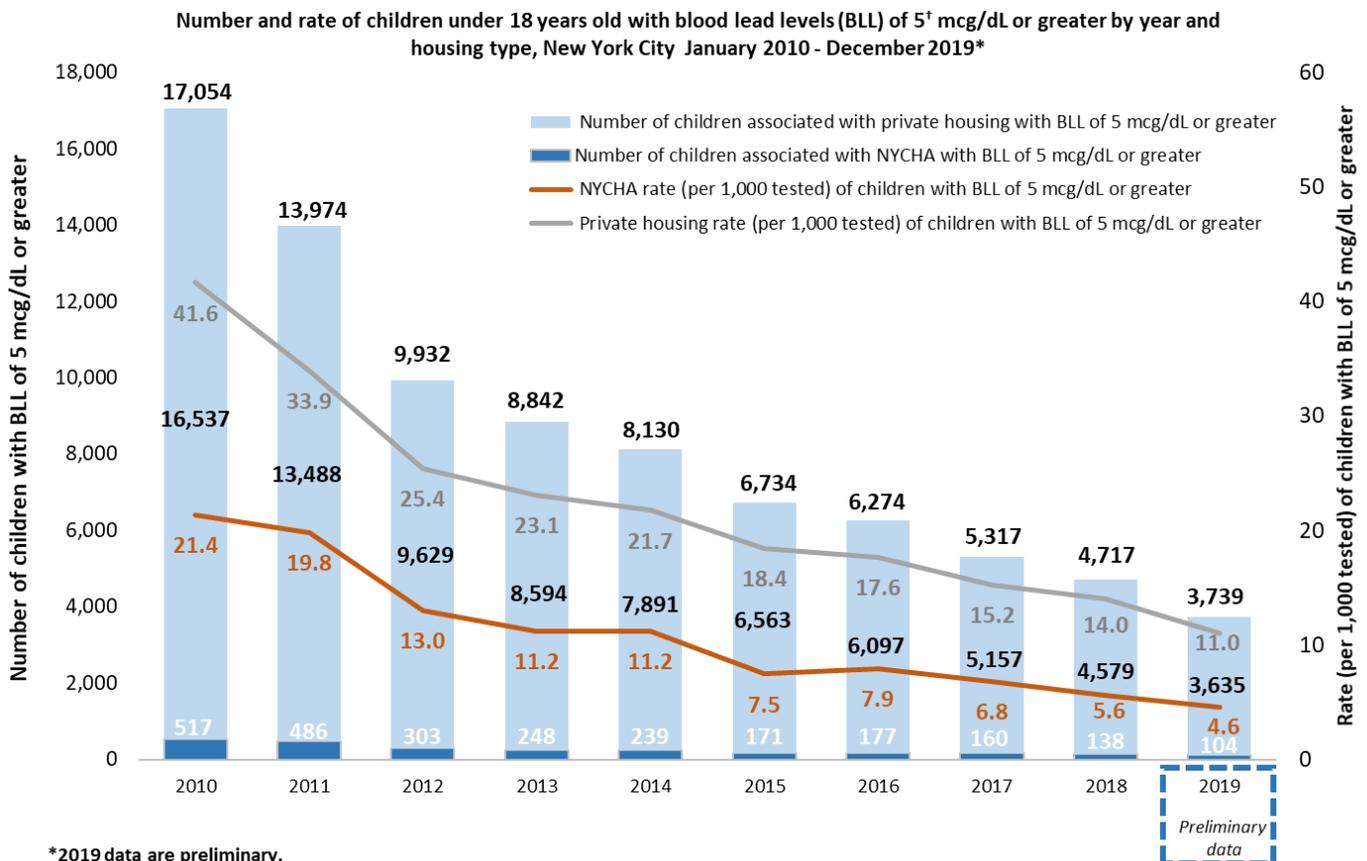


Childhood Blood Lead Level Surveillance
Quarters 1-4 2019, New York City
July 2020

This report details trends in childhood blood lead surveillance data in New York City, and has been updated to include data through the fourth quarter of 2019 (January through December). The number and rate of children with elevated blood lead levels in New York City are at a historic low and continue to decline. Since 2005 we have seen a 92% decrease in the number of children under 18 years of age with blood lead levels of 5 mcg/dL or greater and a 92% decrease in the number of children under age 6 with an elevated blood lead level.

Between January and December 2019 there were 3,739 New York City children under age 18 with blood lead levels of 5 mcg/dL or greater, a 21% decline compared to 2018. This represents 978 fewer children exposed to lead in New York City in 2019 than in 2018.

While the decline in lead exposure has been observed in children associated with both public and private housing, children associated with public housing typically have lower rates of elevated blood lead levels than children associated with private housing. Between January and December 2019, the rate of children associated with private housing with elevated blood lead levels was 11.0 per 1,000 children tested, and among children associated with public housing the rate was 4.6 per 1,000 children tested. Children associated with private housing are more than twice as likely to be exposed to lead in their environment as children associated with NYCHA housing. Learn more about landlord obligations in private housing and City enforcement [here](#); if you have concerns about lead hazards in your home, call 311.



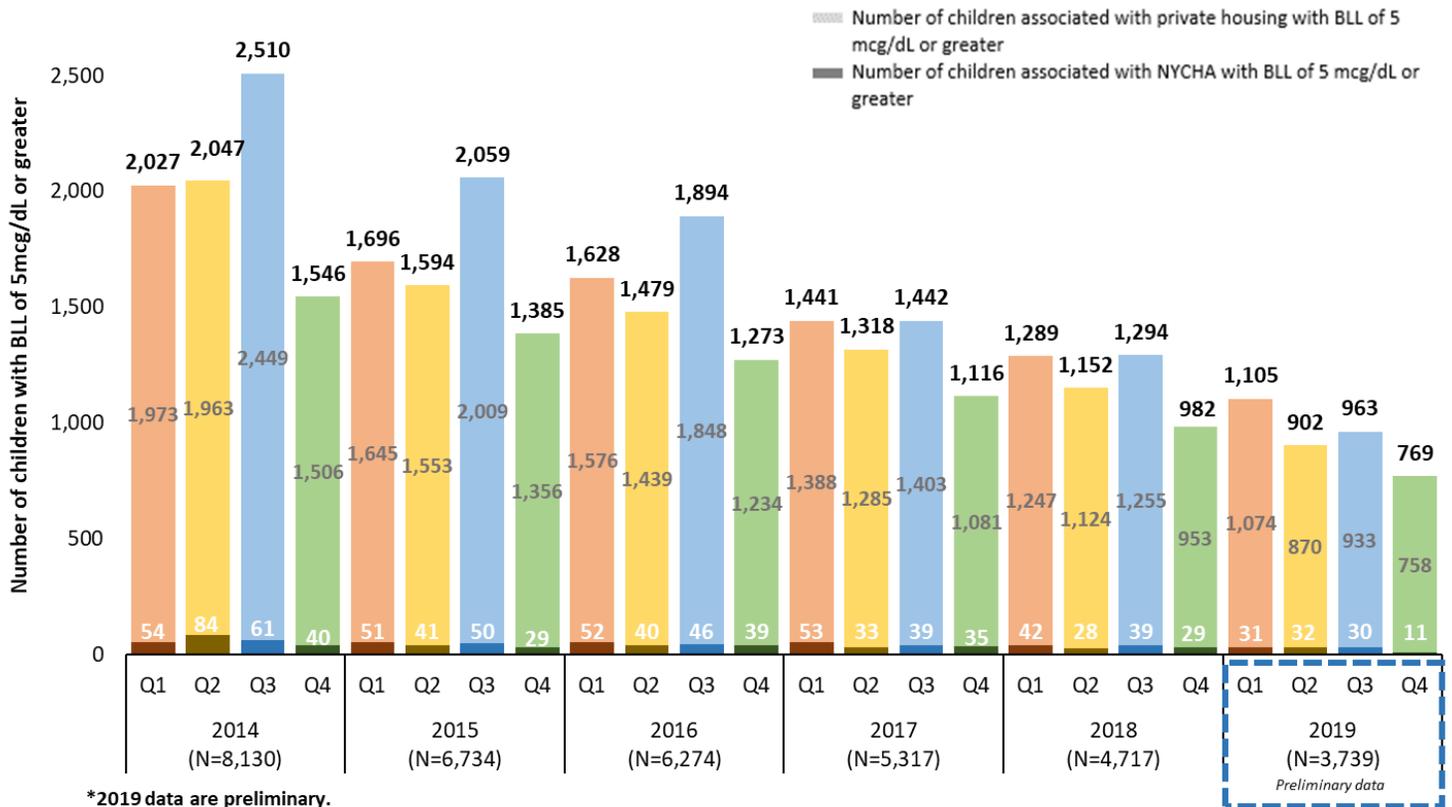
*2019 data are preliminary.

Note: The data above represents unique children per year. Adding across years will result in duplicate counts of individual children over time. Between January 2010 and December 2019 there were 67,493 children under the age of 18 who had a blood lead level of 5 mcg/dL or greater; 2,143 (3%) of these children were associated with NYCHA.

[†]The US Centers for Disease Control and Prevention (CDC) now uses a reference level of 5 micrograms per deciliter (mcg/dL) to identify children ages 1-5 years who are in the highest 2.5% of children when tested for lead in their blood.



Number of children under 18 years old with blood lead levels (BLL) of 5 mcg/dL or greater by quarter and housing type, New York City January 2014 - December 2019*



*2019 data are preliminary.

Note 1: Each color represents a quarter (Q) in the respective years (Orange = Q1, Yellow = Q2, Blue = Q3, Green = Q4).

Note 2: The data above represent unique children per year. Adding across years will result in duplicate counts of individual children over time. Between January 2014 and December 2019 there were 28,038 unique children under the age 18 who had a blood lead level of 5 mcg/dL or greater; 811 (3%) of these children were associated with NYCHA.

Comparison of each quarter in a given year to the corresponding quarter in each previous year shows a declining trend in the number of children with elevated blood lead levels from 2014 to 2019.

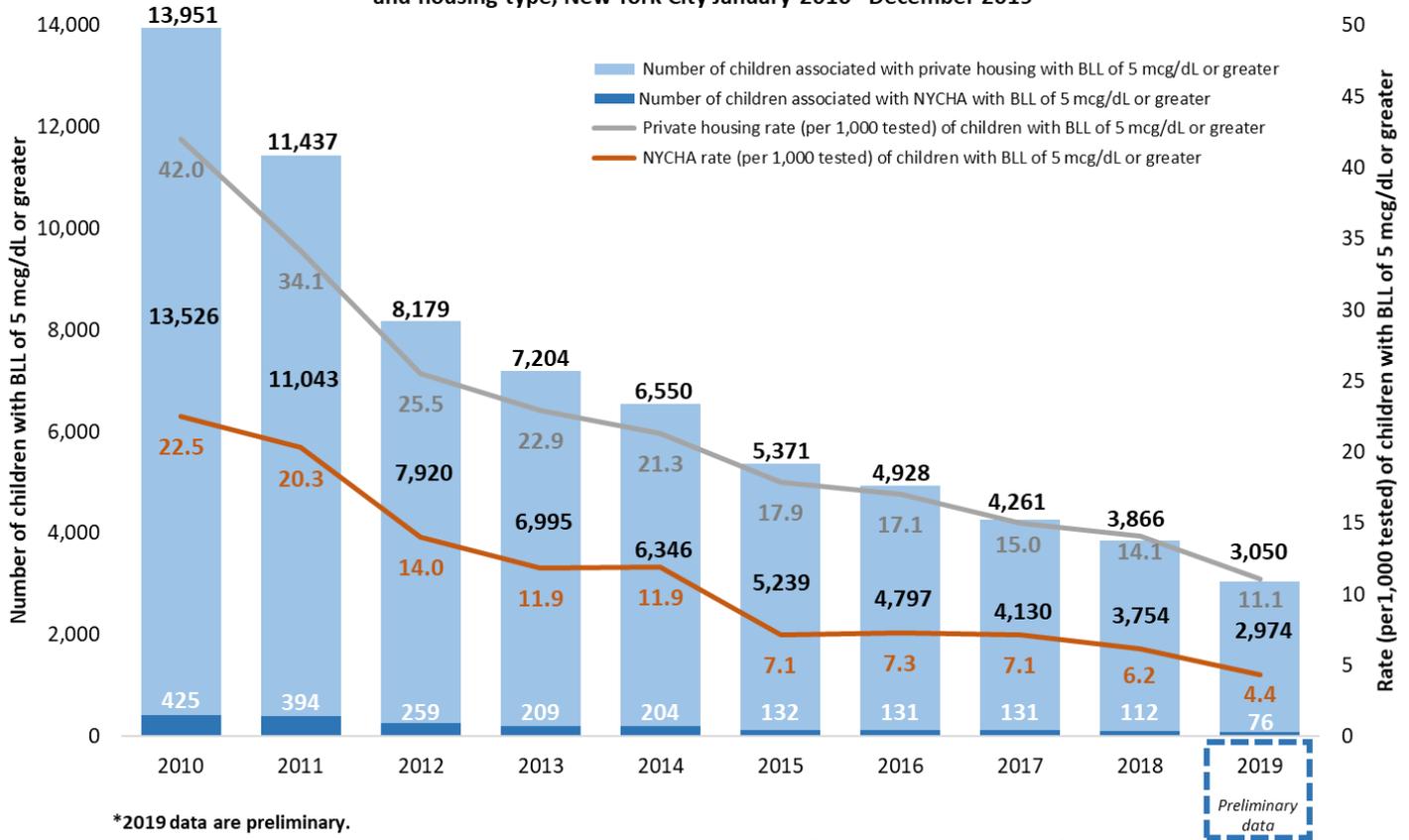
From January to March 2019, there were 1,105 children under age 18 with blood lead levels of 5 mcg/dL or greater, a 14% reduction compared to 1,289 children during the same time period in 2018.

From April to June 2019, there were 902 children under age 18 with blood lead levels of 5 mcg/dL or greater, a 22% reduction compared to 1,152 children during the same time period in 2018.

From July to September 2019, there were 963 children under age 18 with blood lead levels of 5 mcg/dL or greater, a 26% reduction compared to 1,294 children during the same time period in 2018.

From October to December 2019, there were 769 children under age 18 with blood lead levels of 5 mcg/dL or greater, a 22% reduction compared to 982 children during the same time period in 2018.

Number and rate of children under 6 years old with blood lead levels (BLL) of 5 mcg/dL or greater by year and housing type, New York City January 2010 - December 2019*



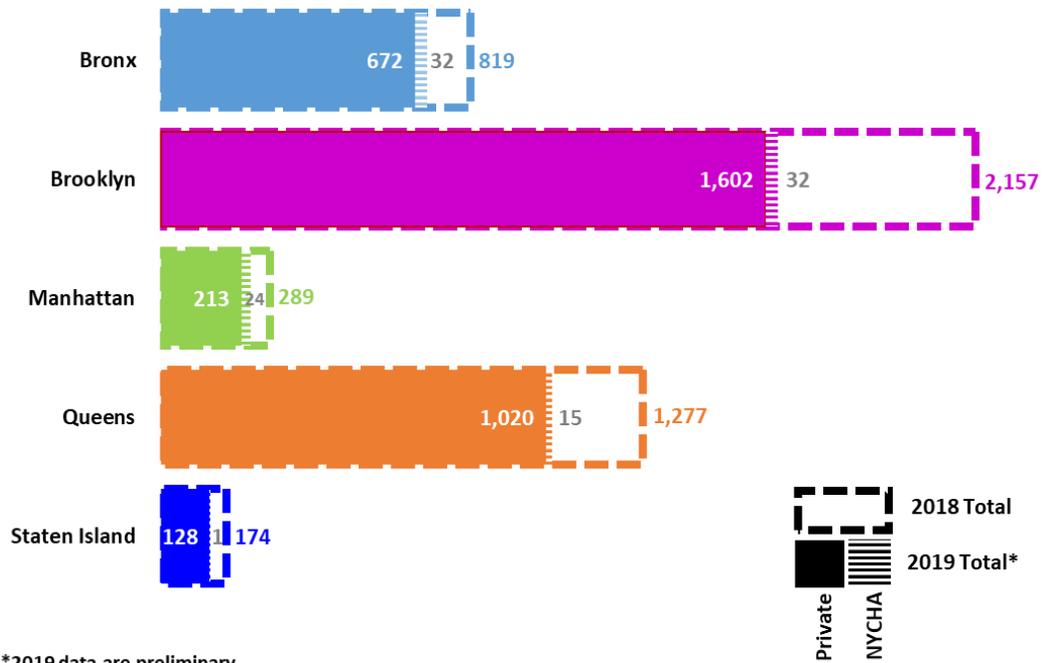
Note: The data above represents unique children per year. Adding across years will result in duplicate counts of individual children over time. Between January 2010 and December 2019 there were 55,994 children under the age of 6 who had a blood lead level of 5 mcg/dL or greater; 1,784 (3%) of these children were associated with NYCHA.

Exposure to lead presents the greatest risk to children under 6 years of age because they are growing rapidly and because they explore the world with hand-to-mouth activity.

The decline in lead exposure among children under age 6 continues in 2019, both among children associated with NYCHA housing and children associated with private housing. In 2019, 3,050 children younger than 6 years old had a blood lead level of 5 mcg/dL or greater; 76 were associated with public housing. This represent a decline of 21% citywide and 32% among children associated with NYCHA compared to 2018 when there were 3,866 children with blood lead levels of 5 mcg/dL or greater citywide and 112 children associated with NYCHA.

The rate of elevated blood lead levels continues to decline, but it is more than twice as high for children associated with private housing as for children associated with NYCHA housing. In 2019, the rate of children with elevated blood lead levels associated with private housing was 11.1 per 1,000 tested, down from 14.1 per 1,000 tested in 2018; and for children associated with public housing the rate was 4.4 per 1,000 tested, down from 6.2 per 1,000 tested in 2018.

Number of children under 18 years old with blood lead levels of 5 mcg/dL or greater by borough of residence and type of housing, New York City 2019* data compared to 2018 total



*2019 data are preliminary.

Number of children tested for lead poisoning by age, blood lead level (BLL), and residence type, New York City, January 2014 - December 2019*

	BLL (mcg/dL)	2014		2015		2016		2017		2018		2019*	
		0-5 years	6-17 years										
Private housing	5-9	5,410	1,316	4,351	1,134	3,992	1,099	3,354	871	3,057	713	2,352	549
	10-14	599	162	580	126	515	128	483	99	423	69	367	72
	15-44	327	65	302	60	278	68	281	56	259	43	242	37
	45+	10	2	6	4	12	5	12	1	15	0	13	3
	Total children tested	297,418	65,565	292,810	64,063	281,074	64,407	274,928	63,669	266,051	60,924	268,320	61,638
NYCHA housing	5-9	181	31	112	34	114	39	108	22	89	18	68	17
	10-14	19	3	10	5	7	5	19	3	13	5	4	3
	15-44	4	1	10	0	9	1	4	3	10	3	4	7
	45+	0	0	0	0	1	1	0	1	0	0	0	1
	Total children tested	17,087	4,242	18,489	4,456	17,906	4,534	18,402	5,120	18,153	6,358	17,433	5,176
Citywide Total	5-9	5,591	1,347	4,463	1,168	4,106	1,138	3,462	893	3,146	731	2,420	566
	10-14	618	165	590	131	522	133	502	102	436	74	371	75
	15-44	331	66	312	60	287	69	285	59	269	46	246	44
	45+	10	2	6	4	13	6	12	2	15	0	13	4
	Total children tested	314,505	69,807	311,299	68,519	298,980	68,941	293,330	68,789	284,204	67,282	285,753	66,814

*Preliminary data.

Note: The data above represents unique children per year. Adding across years will result in duplicate counts of individual children over time.

The number of children exposed to lead declined in all 5 boroughs. In 2019 compared to 2018, there were 523 fewer children exposed to lead in Brooklyn, 242 fewer exposed in Queens, 115 fewer exposed in the Bronx, 52 fewer in Manhattan and 45 fewer exposed to lead in Staten Island. The greatest rate of decline was seen in Staten Island (26%) followed by Brooklyn (24%).

Concerned about lead poisoning?

Here's what you can do:

Lead poisoning is preventable. Avoid exposure.

- Report peeling or damaged paint to your building owner. Building owners are required to safely fix peeling paint. If they do not fix peeling paint, or if work is being done in an unsafe manner (for example, creating dust that is not being contained), you should [report them online](#) or by calling 311.
 - NYCHA residents concerned about their home or their children can call 718-707-7771.
- Keep children away from peeling paint and home renovations.
- Wash floors and windowsills often. Wash children's hands and toys, too.
- Remove shoes before entering your home.
- Wash work clothes separately from the family laundry if someone in your household works in construction.
- Learn more about avoiding products that may contain lead, such as imported pottery, food and cosmetics, and traditional medicines. Visit nyc.gov/health.

Get tested.

- A blood test is the only way to find out if you or your child have an elevated blood lead level.
- In New York State, children must be tested for lead poisoning at ages 1 and 2, and screened for risk up to age 6.
- Ask your doctor about testing older children if you think they may have been exposed to lead.
- Pregnant women should be assessed for lead exposure at their first prenatal visit.
- Call 311 for help finding a doctor or clinic.

Data Notes and Definitions

- Data in this report were collected during routine childhood lead surveillance by the New York City Department of Health and Mental Hygiene between January 2010 and December 2019.
- Data for 2019 are preliminary. Numbers and categorization of children by blood lead level, borough and type of housing can change for a variety of reasons, including address change, misreported addresses and invalid blood tests.
- Each child is counted only once per year, but the data do not represent unique children if added over multiple years. NYCHA housing is categorized based on the address listed on the laboratory report of the child's highest blood lead level in a given period. The child's highest venous test is used first, and if not available, the finger-stick test or unknown test type is used.