

Appendix B

Massachusetts Data: Exploratory Analysis Summary Pages

Median Family Income (\$)

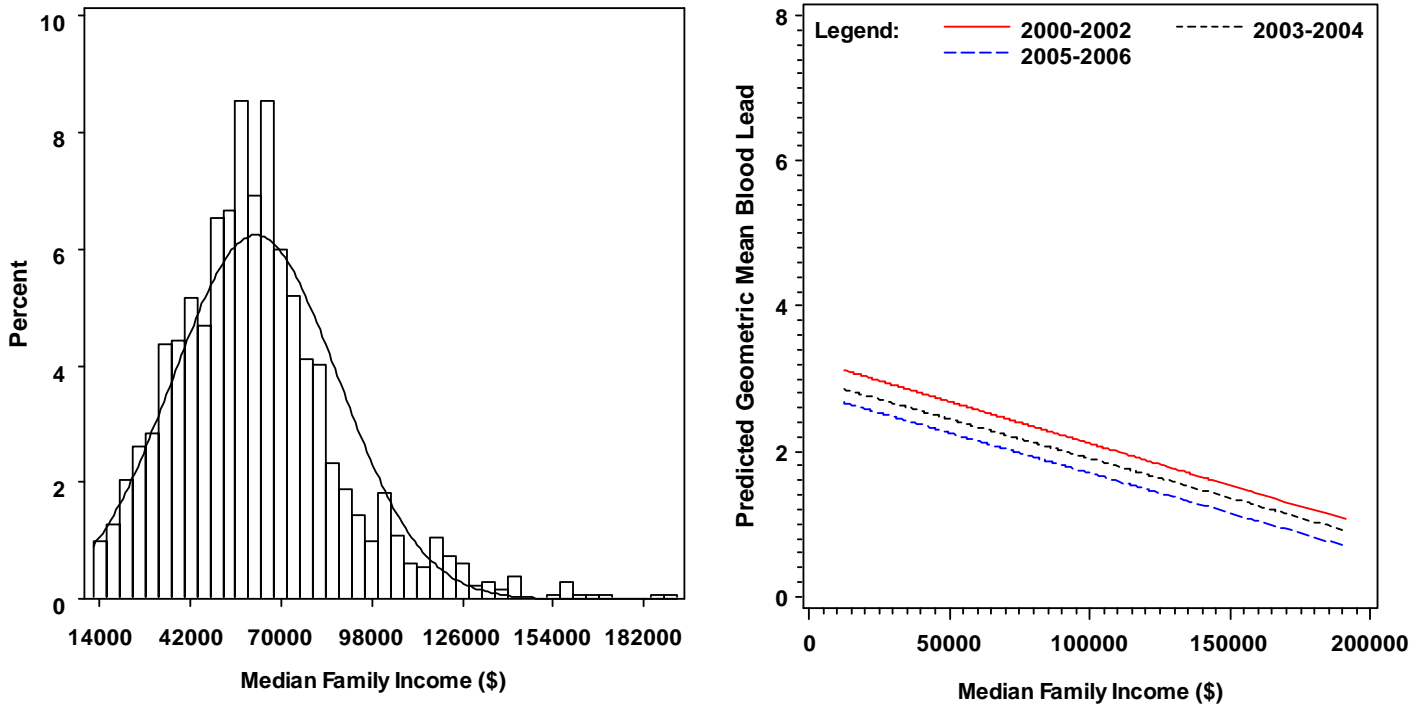


Figure B.1. Median Family Income (\$): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.1a. Summary Information for Median Family Income (\$) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	62118.2	204.5	12354	32215	45000	59717	74091	93772	191062
2003-2004	10450	0	62126.9	249.9	12354	32255	45000	59717	74135	93774.5	191062
2005-2006	10417	0	62160.6	250.7	12354	32215	45000	59821	74358	93777	191062
All Years	36484	0	62132.8	133.8	12354	32255	45000	59717	74135	93777	191062

Table B.1b. Model Information for the Relationship between Median Family Income (\$) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.647	0.016	<.001	51727	$\sigma_{11}^2 = 0.306$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Median_Family_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.634	0.016	<.001	48155	$\sigma_{11}^2 = 0.299$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Median_Family_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.739	0.015	<.001	86502	$\sigma_{11}^2 = 0.246$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.009$	
	Median_Family_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.641	0.022	<.001	139627	$\sigma_{11}^2 = 0.362$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.018$	
	Median_Family_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.939	0.030	<.001	178071	$\sigma_{11}^2 = 0.344$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Median_Family_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Median Household Income (\$)

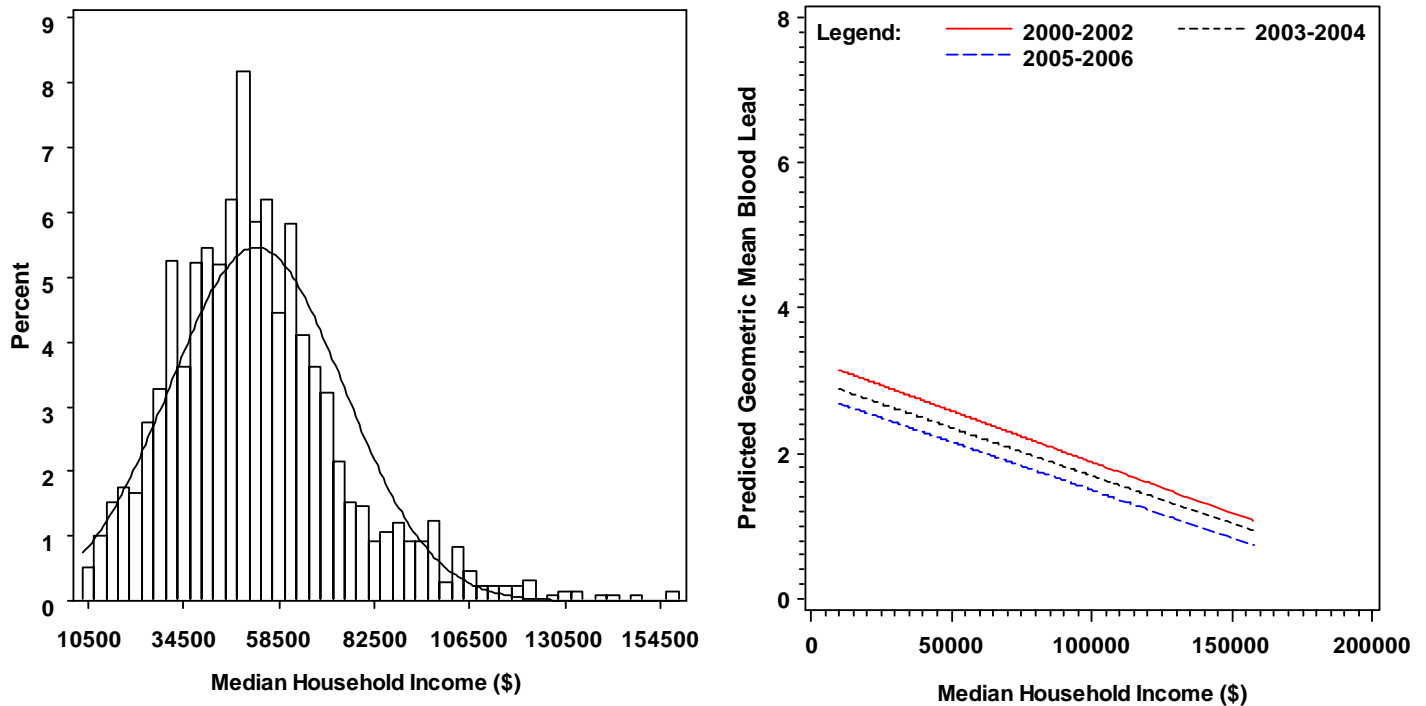


Figure B.2. Median Household Income (\$): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.2a. Summary Information for Median Household Income (\$) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	52858.9	175.5	9895	27520	37719	50505	63488	80818	157189
2003-2004	10450	0	52859.9	214.1	9895	27540	37722	50485	63488	80818	157189
2005-2006	10417	0	52873.3	214.8	9895	27540	37722	50505	63488	80818	157189
All Years	36484	0	52863.3	114.7	9895	27520	37720.5	50505	63488	80818	157189

Table B.2b. Model Information for the Relationship between Median Household Income (\$) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.645	0.016	<.001	51689	$\sigma_{11}^2 = 0.296$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Median_HH_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.633	0.015	<.001	48115	$\sigma_{11}^2 = 0.289$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Median_HH_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.739	0.015	<.001	86375	$\sigma_{11}^2 = 0.235$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.010$	
	Median_HH_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.638	0.022	<.001	139433	$\sigma_{11}^2 = 0.346$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.018$	
	Median_HH_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.936	0.030	<.001	177920	$\sigma_{11}^2 = 0.333$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Median_HH_Income	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Median Per Capita Income (\$)

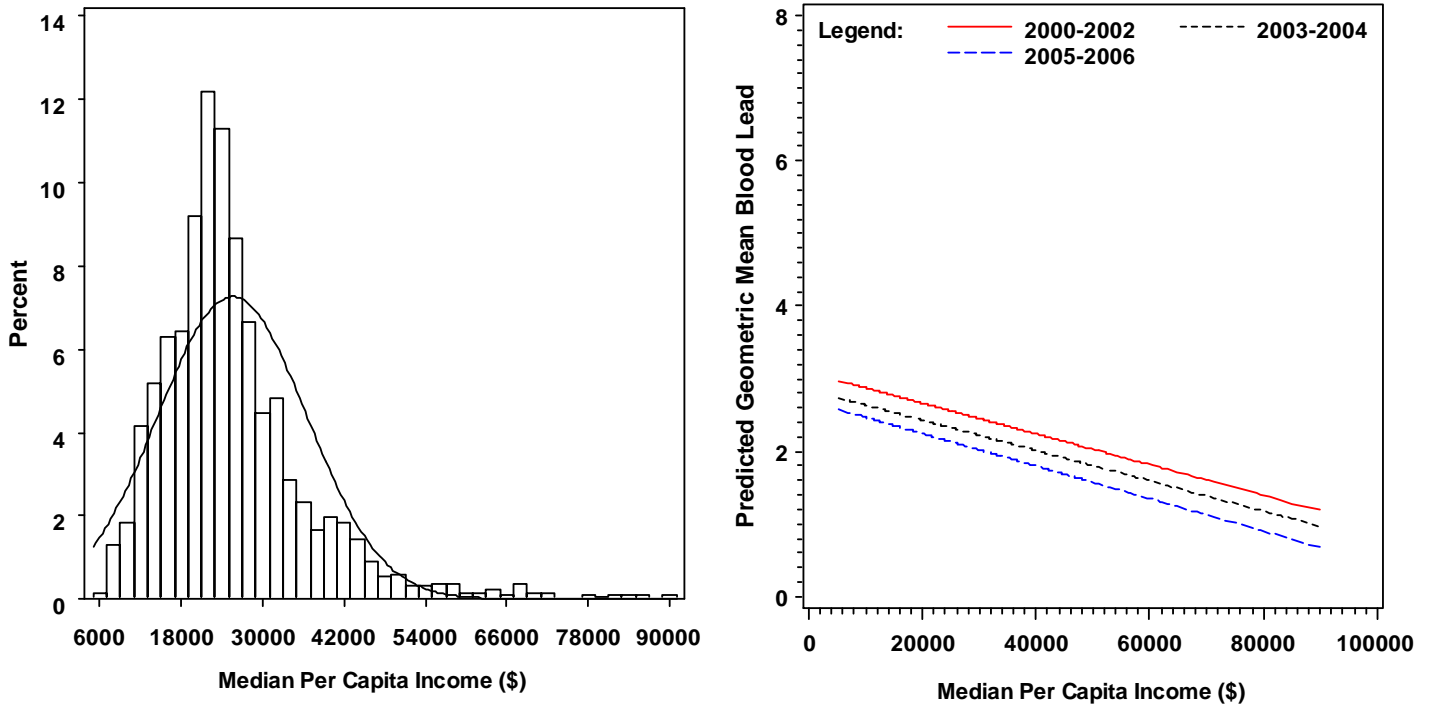


Figure B.3. Median per Capita Income (\$): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.3a. Summary Information for Median per Capita Income (\$) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	25505.5	87.8	5255	13745	18873	23502	29573	39727	89845
2003-2004	10450	0	25520.3	107.5	5255	13780	18873	23502	29558	39736	89845
2005-2006	10417	0	25533.1	107.7	5255	13780	18873	23512	29573	39736	89845
All Years	36484	0	25517.6	57.5	5255	13780	18873	23512	29573	39736	89845

Table B.3b. Model Information for the Relationship between Median per Capita Income (\$) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.650	0.017	<.001	51917	$\sigma_{11}^2 = 0.343$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.029$	
	Median_Per_Capita_In	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.016	<.001	48345	$\sigma_{11}^2 = 0.333$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Median_Per_Capita_In	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.738	0.016	<.001	86812	$\sigma_{11}^2 = 0.283$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.009$	
	Median_Per_Capita_In	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.646	0.023	<.001	140036	$\sigma_{11}^2 = 0.411$	
	time	-0.128	0.004	<.001	.	$\sigma_{21}^2 = -0.020$	
	Median_Per_Capita_In	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.948	0.031	<.001	178467	$\sigma_{11}^2 = 0.376$	
	time	-0.097	0.007	<.001	.	$\sigma_{21}^2 = -0.024$	
	Median_Per_Capita_In	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Units with No Household Earnings

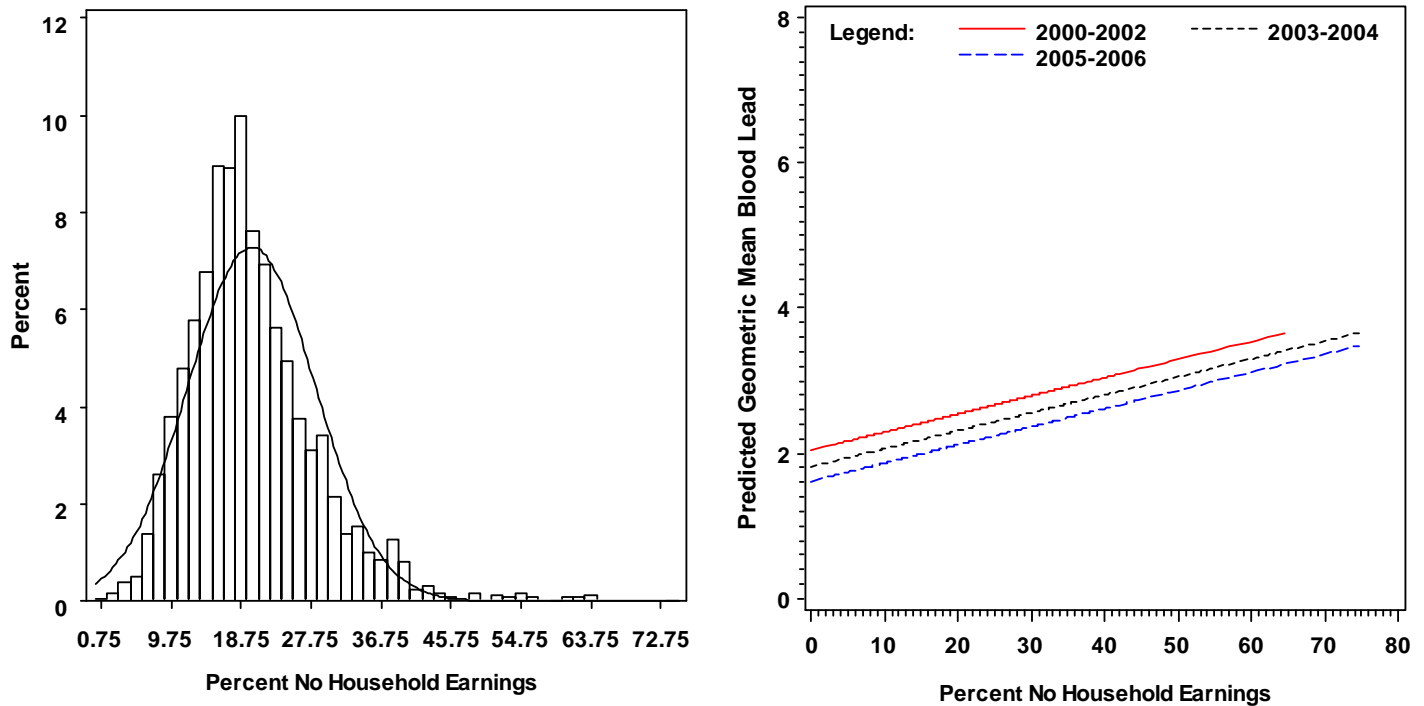


Figure B.4. Percent Units with No Household Earnings: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.4a. Summary Information for Percent Units with No Household Earnings by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	20.1	0.1	0.0	11.0	14.8	18.8	24.2	30.5	64.4
2003-2004	10450	0	20.1	0.1	0.0	11.0	14.8	18.8	24.2	30.4	74.5
2005-2006	10417	0	20.1	0.1	0.0	11.0	14.8	18.8	24.2	30.5	74.5
All Years	36484	0	20.1	0.0	0.0	11.0	14.8	18.8	24.2	30.5	74.5

Table B.4b. Model Information for the Relationship between Percent Units with No Household Earnings and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.647	0.017	<.001	52020	$\sigma_{11}^2 = 0.349$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_HH_No_Earnings	2.421	0.142	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.635	0.017	<.001	48446	$\sigma_{11}^2 = 0.340$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_HH_No_Earnings	2.505	0.144	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.738	0.017	<.001	86853	$\sigma_{11}^2 = 0.322$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.008$	
	Pct_HH_No_Earnings	3.018	0.189	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.645	0.024	<.001	139532	$\sigma_{11}^2 = 0.471$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_HH_No_Earnings	3.022	0.230	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.940	0.031	<.001	177347	$\sigma_{11}^2 = 0.429$	
	time	-0.095	0.007	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_HH_No_Earnings	2.557	0.251	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Units with No Household Wage

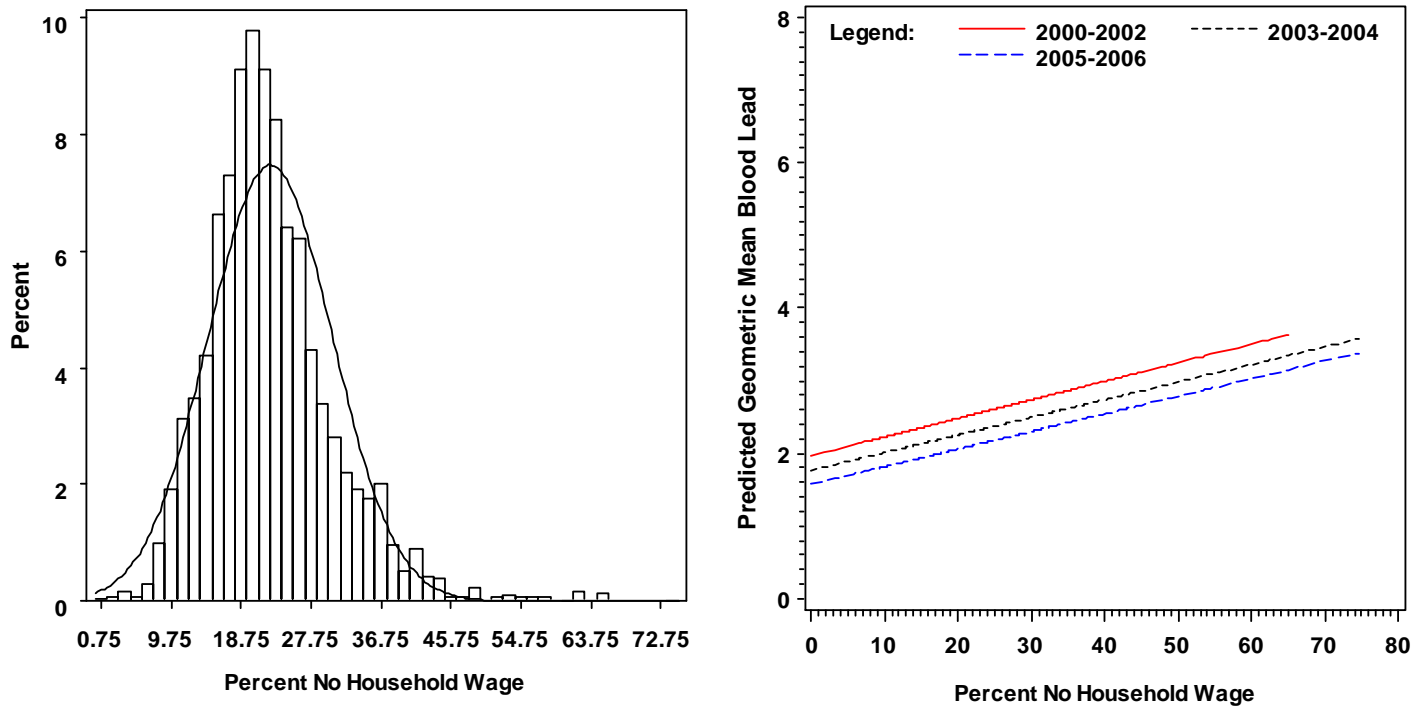


Figure B.5. Percent Units with No Household Wage: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.5a. Summary Information for Percent Units with No Household Wage by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	22.5	0.1	0.0	13.4	17.4	21.4	26.4	33.0	65.0
2003-2004	10450	0	22.5	0.1	0.0	13.4	17.4	21.4	26.4	33.0	74.5
2005-2006	10417	0	22.5	0.1	0.0	13.4	17.4	21.4	26.4	33.0	74.5
All Years	36484	0	22.5	0.0	0.0	13.4	17.4	21.4	26.4	33.0	74.5

Table B.5b. Model Information for the Relationship between Percent Units with No Household Wage and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.645	0.017	<.001	52040	$\sigma_{11}^2 = 0.346$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_HH_No_Wage	2.390	0.146	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.633	0.017	<.001	48467	$\sigma_{11}^2 = 0.338$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_HH_No_Wage	2.469	0.149	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.738	0.017	<.001	86858	$\sigma_{11}^2 = 0.326$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.008$	
	Pct_HH_No_Wage	2.957	0.195	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.645	0.024	<.001	139460	$\sigma_{11}^2 = 0.476$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_HH_No_Wage	2.969	0.238	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.939	0.031	<.001	177185	$\sigma_{11}^2 = 0.437$	
	time	-0.095	0.007	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_HH_No_Wage	2.461	0.261	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Households on Public Assistance

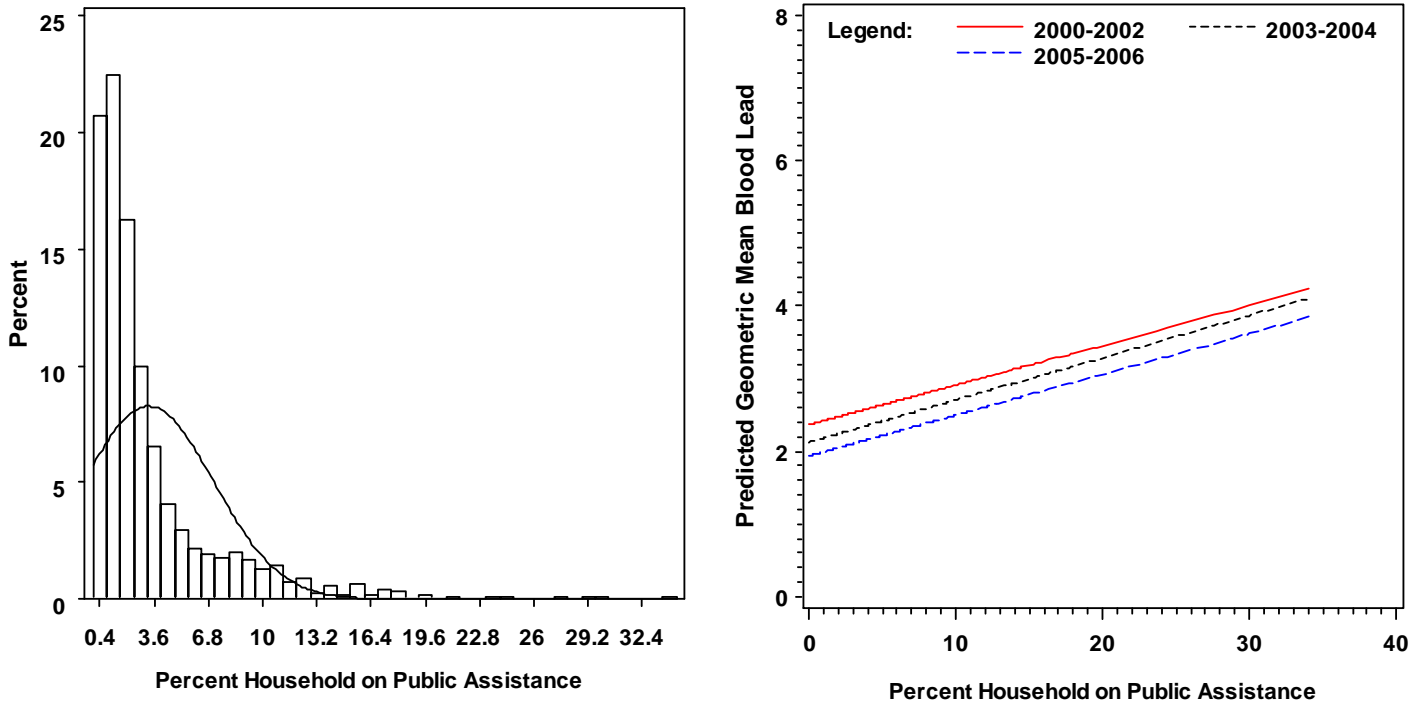


Figure B.6. Percent Households on Public Assistance: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.6a. Summary Information for Percent Households on Public Assistance by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	3.27	0.03	0.0	0.4	1.0	1.9	3.9	8.4	34.1
2003-2004	10450	0	3.26	0.04	0.0	0.4	1.0	1.9	3.9	8.3	34.1
2005-2006	10417	0	3.27	0.04	0.0	0.4	1.0	1.9	3.9	8.4	34.1
All Years	36484	0	3.27	0.02	0.0	0.4	1.0	1.9	3.9	8.4	34.1

Table B.6b. Model Information for the Relationship between Percent Households on Public Assistance and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.017	<.001	51964	$\sigma_{11}^2 = 0.349$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.029$	
	Pct_HH_Public_Assist	5.762	0.303	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.638	0.017	<.001	48386	$\sigma_{11}^2 = 0.340$	$\sigma_{error}^2 = 4.429$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_HH_Public_Assist	5.876	0.302	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.017	<.001	86854	$\sigma_{11}^2 = 0.303$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.007$	
	Pct_HH_Public_Assist	7.156	0.395	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.641	0.023	<.001	139837	$\sigma_{11}^2 = 0.427$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.019$	
	Pct_HH_Public_Assist	7.326	0.463	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.945	0.031	<.001	178218	$\sigma_{11}^2 = 0.385$	
	time	-0.097	0.007	<.001	.	$\sigma_{21}^2 = -0.024$	
	Pct_HH_Public_Assist	6.285	0.479	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Households below Poverty Line

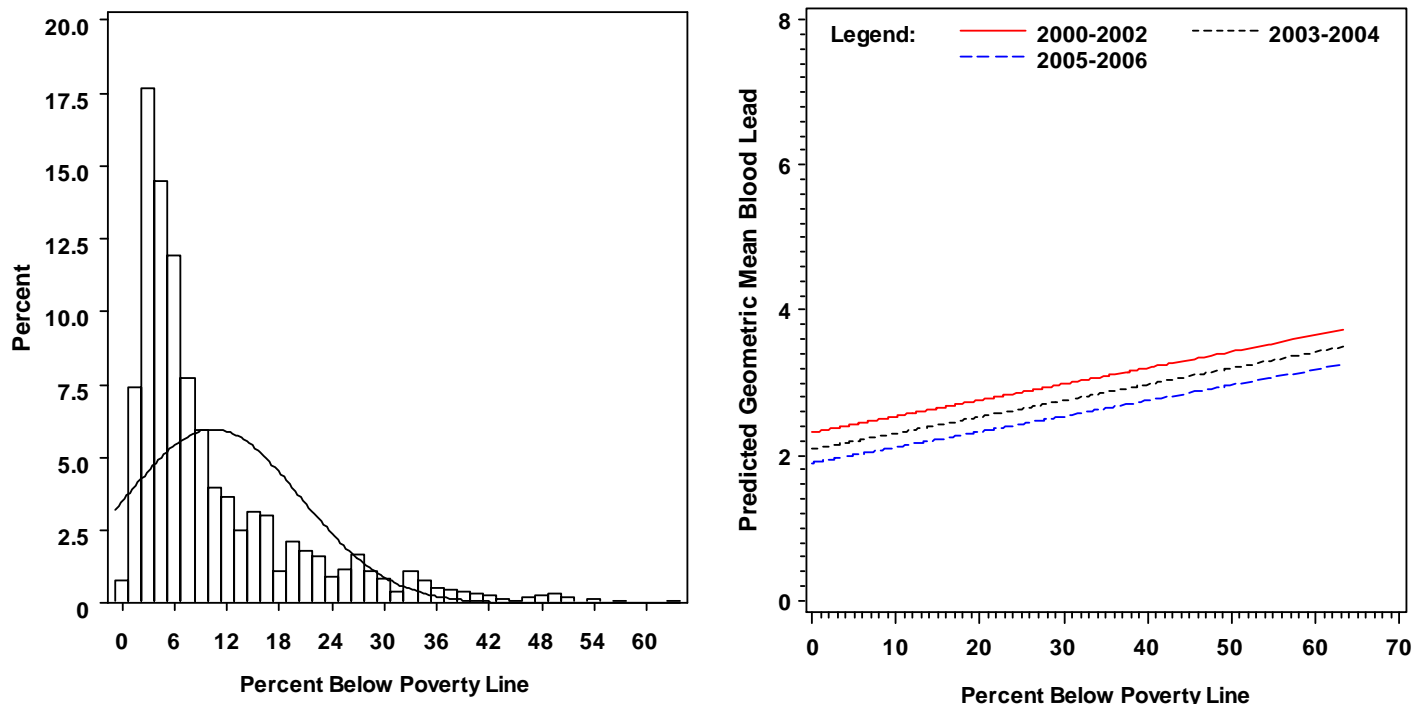


Figure B.7. Percent Households below Poverty Line: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.7a. Summary Information for Percent Households below Poverty Line by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	10.40	0.08	0.0	2.4	3.7	6.5	13.7	25.4	63.3
2003-2004	10450	0	10.40	0.10	0.0	2.4	3.7	6.5	13.7	25.4	63.3
2005-2006	10417	0	10.41	0.10	0.0	2.4	3.7	6.5	13.7	25.4	63.3
All Years	36484	0	10.40	0.05	0.0	2.4	3.7	6.5	13.7	25.4	63.3

Table B.7b. Model Information for the Relationship between Percent Households below Poverty Line and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.647	0.017	<.001	51974	$\sigma_{11}^2 = 0.343$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_LT_Poverty	2.169	0.116	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.635	0.017	<.001	48390	$\sigma_{11}^2 = 0.335$	$\sigma_{\text{error}}^2 = 4.430$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_LT_Poverty	2.248	0.116	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.016	<.001	86778	$\sigma_{11}^2 = 0.298$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.007$	
	Pct_LT_Poverty	2.777	0.151	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.639	0.023	<.001	139558	$\sigma_{11}^2 = 0.415$	
	time	-0.128	0.004	<.001	.	$\sigma_{21}^2 = -0.019$	
	Pct_LT_Poverty	2.990	0.178	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.938	0.030	<.001	177839	$\sigma_{11}^2 = 0.369$	
	time	-0.097	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_LT_Poverty	2.643	0.188	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Units with Family Income below Poverty Line

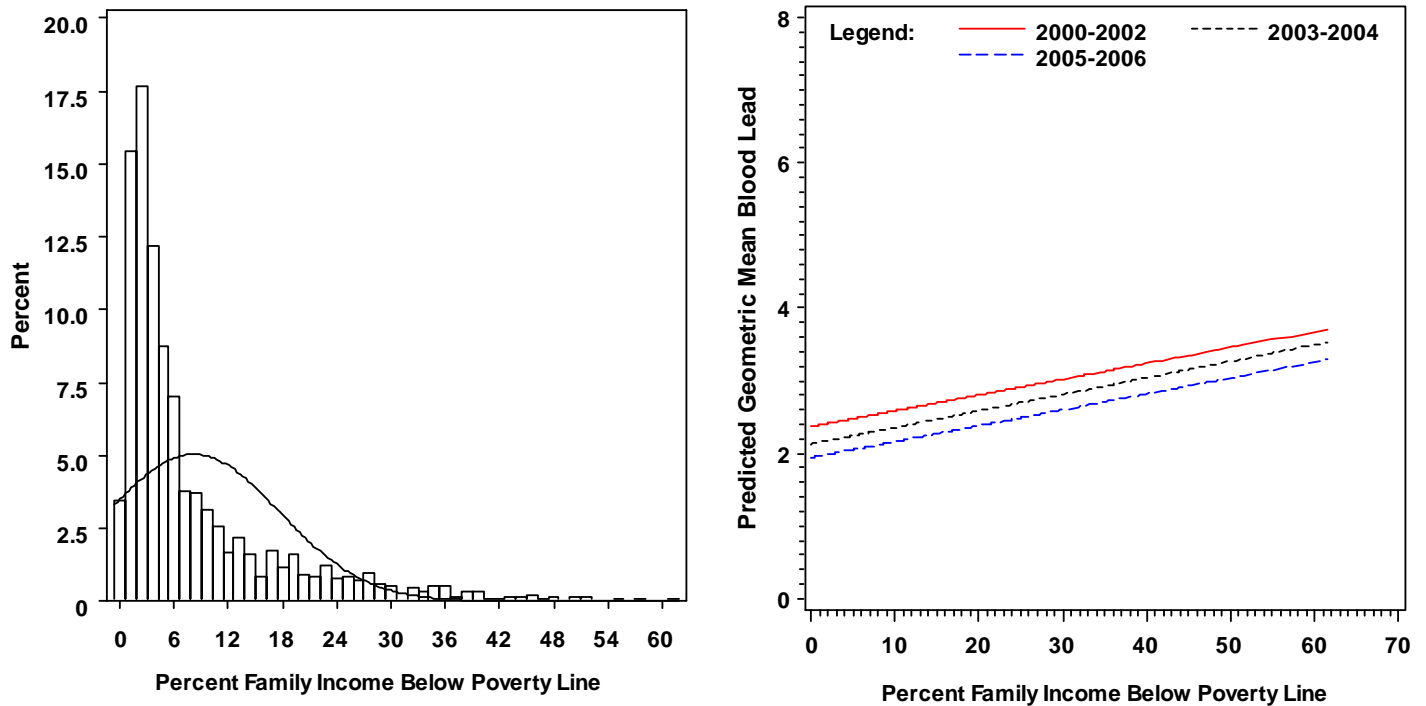


Figure B.8. Percent Units with Family Income below Poverty Line: Histogram and Linear Relationship with Percent Units with Geometric Mean Blood Lead Levels by Time

Table B.8a. Summary Information for Percent Units with Family Income below Poverty Line by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	8.16	0.08	0.0	1.2	2.1	4.4	10.2	21.6	61.6
2003-2004	10450	0	8.16	0.09	0.0	1.2	2.2	4.4	10.2	21.5	61.6
2005-2006	10417	0	8.16	0.09	0.0	1.2	2.1	4.4	10.2	21.6	61.6
All Years	36484	0	8.16	0.05	0.0	1.2	2.1	4.4	10.2	21.6	61.6

Table B.8b. Model Information for the Relationship between Percent Units with Family Income below Poverty Line and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.017	<.001	51991	$\sigma_{11}^2 = 0.351$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_Family_Income_LT	2.247	0.124	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.017	<.001	48412	$\sigma_{11}^2 = 0.342$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_Family_Income_LT	2.309	0.124	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.017	<.001	86847	$\sigma_{11}^2 = 0.307$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.007$	
	Pct_Family_Income_LT	2.781	0.162	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.641	0.023	<.001	139686	$\sigma_{11}^2 = 0.430$	
	time	-0.128	0.004	<.001	.	$\sigma_{21}^2 = -0.019$	
	Pct_Family_Income_LT	2.955	0.190	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.942	0.031	<.001	177952	$\sigma_{11}^2 = 0.383$	
	time	-0.097	0.007	<.001	.	$\sigma_{21}^2 = -0.024$	
	Pct_Family_Income_LT	2.588	0.200	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Units Spending Less than Five Years in Poverty

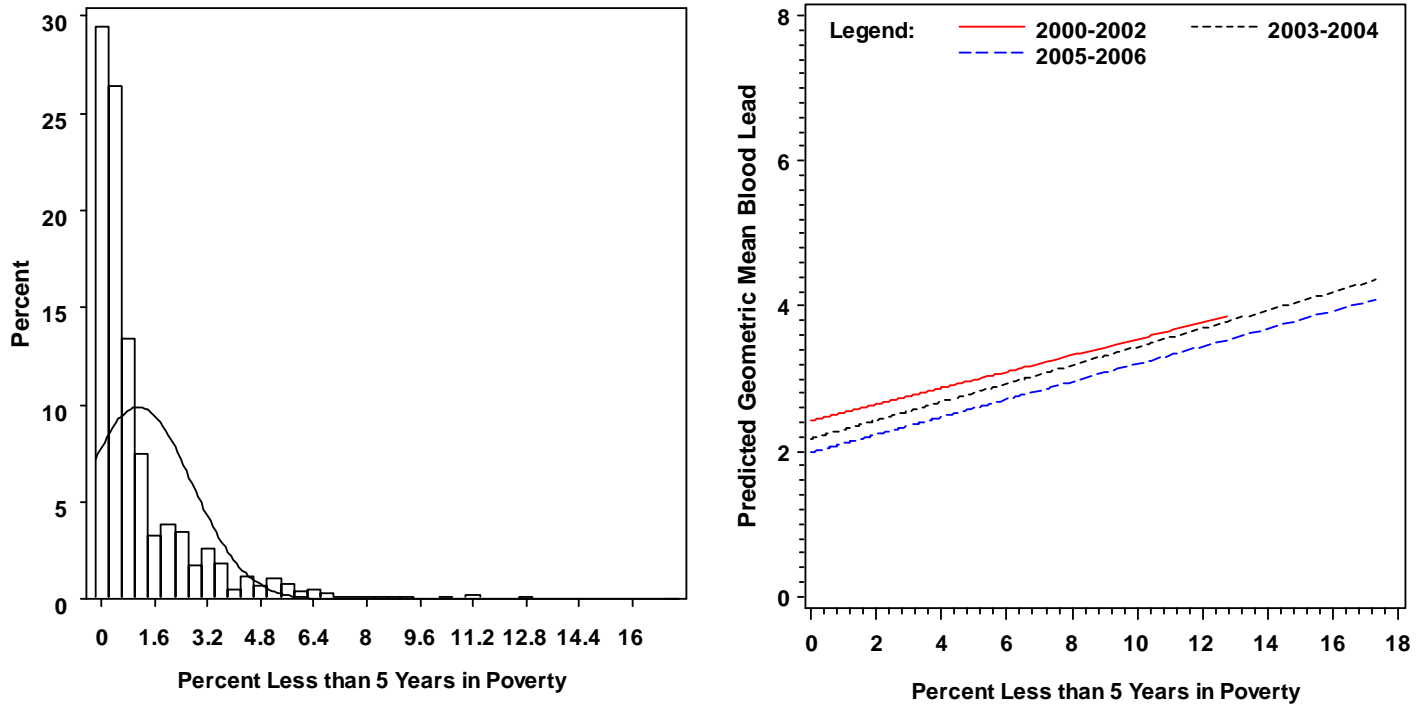


Figure B.9. Percent Units Spending Less than Five Years in Poverty: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.9a. Summary Information for Percent Units Spending Less than Five Years in Poverty by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	1.10	0.01	0.0	0.0	0.2	0.5	1.3	3.2	12.7
2003-2004	10450	0	1.10	0.02	0.0	0.0	0.2	0.5	1.3	3.2	17.3
2005-2006	10417	0	1.10	0.02	0.0	0.0	0.2	0.5	1.3	3.1	17.3
All Years	36484	0	1.10	0.01	0.0	0.0	0.2	0.5	1.3	3.2	17.3

Table B.9b. Model Information for the Relationship between Percent Units Spending Less than Five Years in Poverty and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.650	0.017	<.001	52025	$\sigma_{11}^2 = 0.361$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.029$	
	Pct_LE_5Yrs_LT_Pover	12.221	0.726	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.017	<.001	48446	$\sigma_{11}^2 = 0.353$	$\sigma_{error}^2 = 4.429$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_LE_5Yrs_LT_Pover	12.722	0.733	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.737	0.017	<.001	86925	$\sigma_{11}^2 = 0.323$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.008$	
	Pct_LE_5Yrs_LT_Pover	14.741	0.962	<.001	.	$\sigma_{22}^2 = 0.004$	
4			
			
			
5	Intercept	-4.945	0.031	<.001	178034	$\sigma_{11}^2 = 0.404$	
	time	-0.097	0.007	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_LE_5Yrs_LT_Pover	13.343	1.169	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent American Indian and Alaskan Native Alone

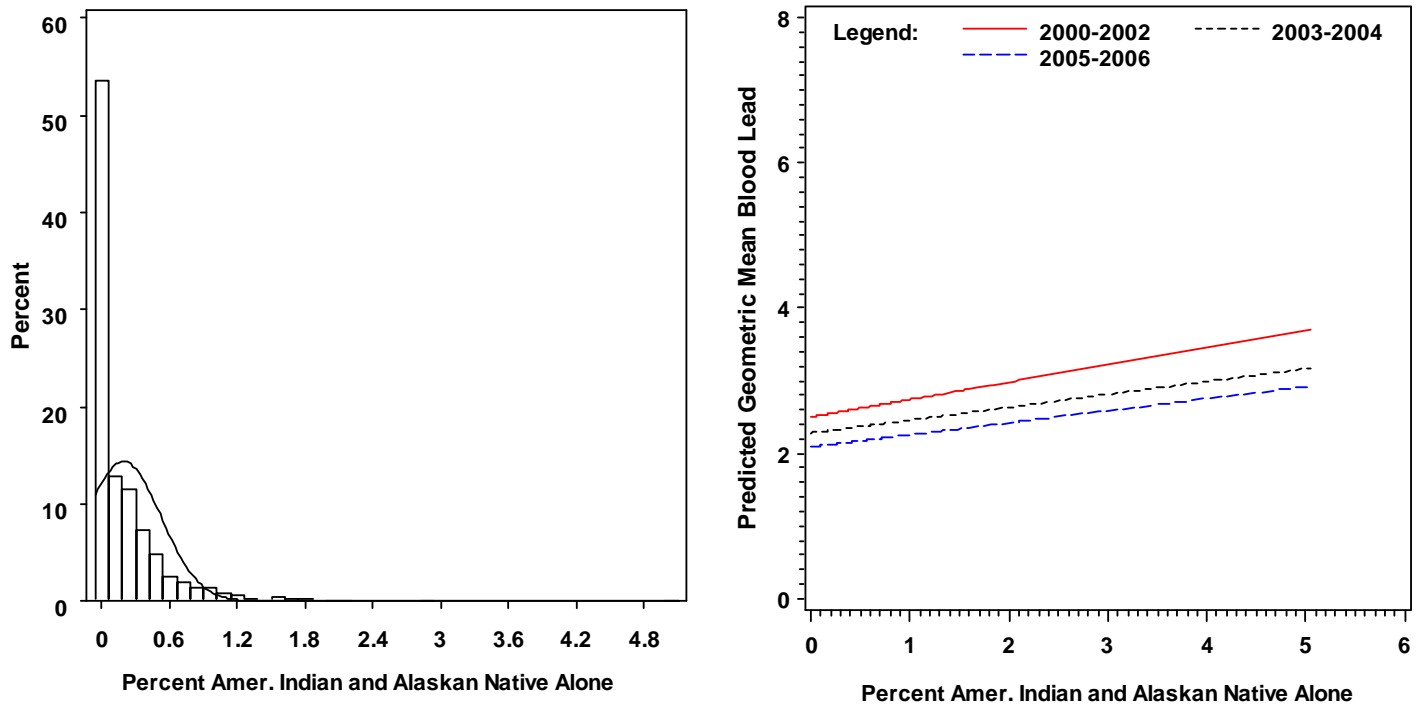


Figure B.10. Percent American Indian and Alaskan Native Alone: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.10a. Summary Information for Percent American Indian and Alaskan Native Alone by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	0.19	0.00	0.0	0.0	0.0	0.0	0.3	0.5	5.0
2003-2004	10450	0	0.19	0.00	0.0	0.0	0.0	0.0	0.3	0.5	5.0
2005-2006	10417	0	0.19	0.00	0.0	0.0	0.0	0.0	0.3	0.5	5.0
All Years	36484	0	0.19	0.00	0.0	0.0	0.0	0.0	0.3	0.5	5.0

Table B.10b. Model Information for the Relationship between Percent American Indian and Alaskan Native Alone and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.648	0.018	<.001	52259	$\sigma_{11}^2 = 0.381$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_AIANA	15.931	3.824	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.635	0.017	<.001	48692	$\sigma_{11}^2 = 0.373$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_AIANA	16.154	3.881	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87121	$\sigma_{11}^2 = 0.367$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	Pct_AIANA	22.164	5.027	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.646	0.025	<.001	139740	$\sigma_{11}^2 = 0.532$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_AIANA	21.553	5.978	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.944	0.032	<.001	177392	$\sigma_{11}^2 = 0.482$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_AIANA	15.435	6.367	0.015	.	$\sigma_{22}^2 = 0.003$	

Percent Asian Alone

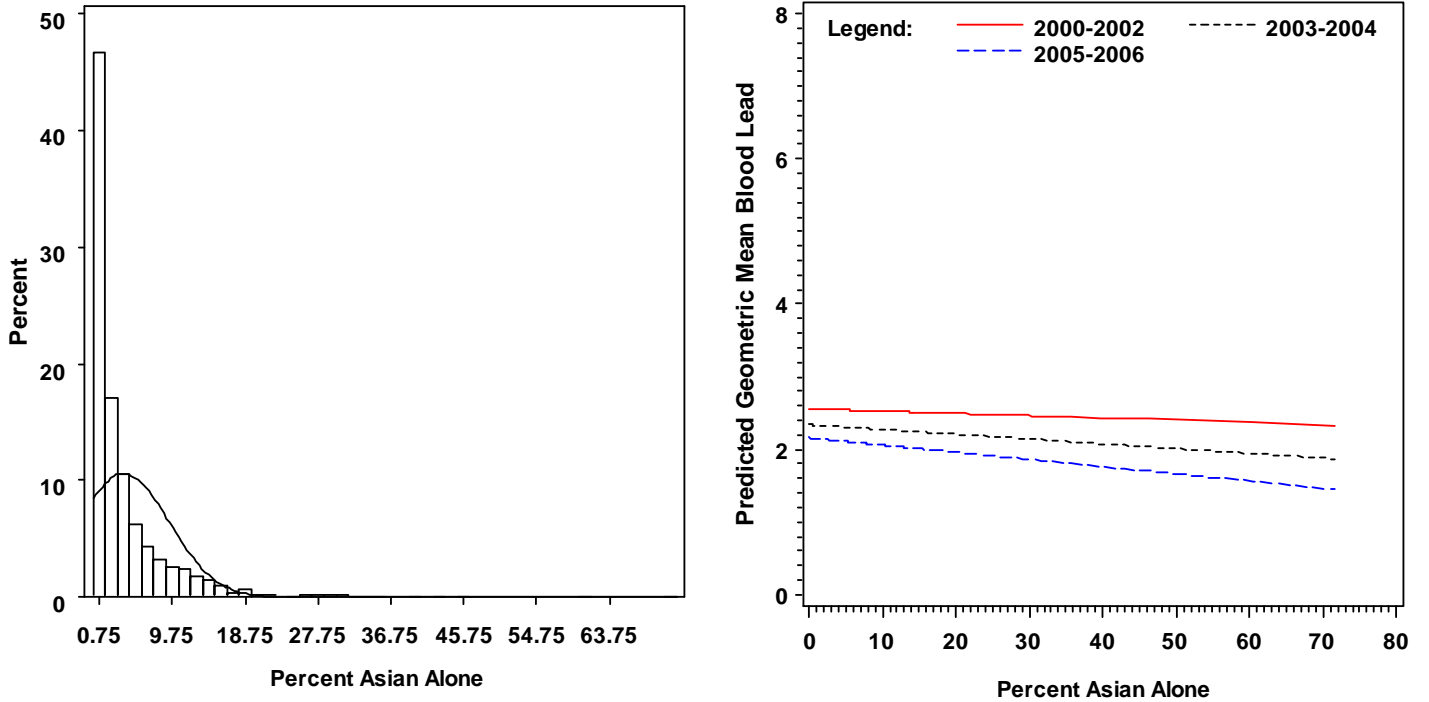


Figure B.11. Percent Asian Alone: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.11a. Summary Information for Percent Asian Alone by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	3.76	0.05	0.0	0.1	0.6	1.7	4.7	10.0	71.6
2003-2004	10450	0	3.76	0.05	0.0	0.1	0.6	1.7	4.7	10.1	71.6
2005-2006	10417	0	3.77	0.06	0.0	0.1	0.6	1.7	4.8	10.1	71.6
All Years	36484	0	3.76	0.03	0.0	0.1	0.6	1.7	4.7	10.0	71.6

Table B.11b. Model Information for the Relationship between Percent Asian Alone and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52264	$\sigma_{11}^2 = 0.388$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_Asian	-0.979	0.230	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48699	$\sigma_{11}^2 = 0.380$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_Asian	-0.943	0.233	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.018	<.001	87140	$\sigma_{11}^2 = 0.376$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	Pct_Asian	-0.820	0.304	0.007	.	$\sigma_{22}^2 = 0.004$	
4			
			
			
5	Intercept	-4.945	0.032	<.001	177385	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	Pct_Asian	0.030	0.393	0.939	.	$\sigma_{22}^2 = 0.003$	

Percent Black Alone

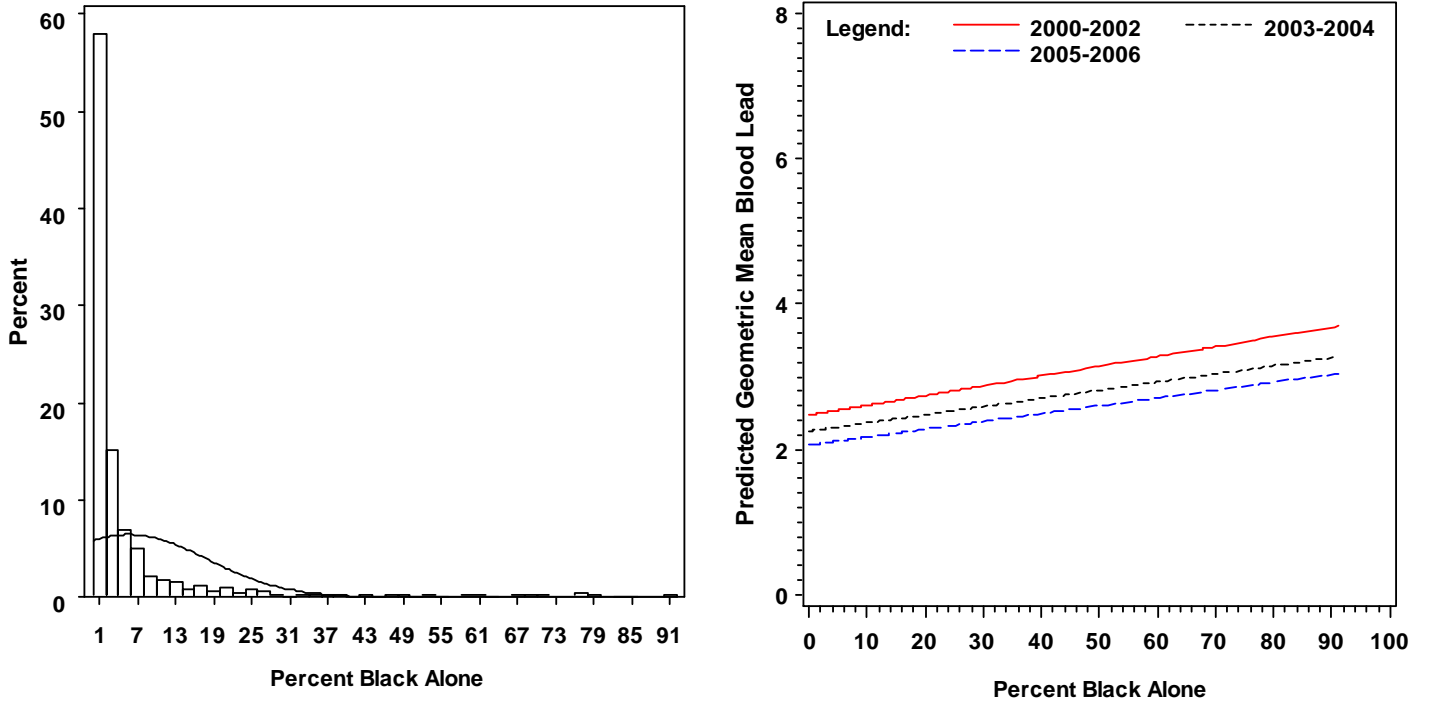


Figure B.12. Percent Black Alone: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.12a. Summary Information for Percent Black Alone by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	5.59	0.10	0.0	0.1	0.5	1.5	4.5	13.1	91.0
2003-2004	10450	0	5.58	0.12	0.0	0.1	0.5	1.5	4.5	13.1	91.0
2005-2006	10417	0	5.59	0.12	0.0	0.1	0.5	1.5	4.5	13.1	91.0
All Years	36484	0	5.59	0.06	0.0	0.1	0.5	1.5	4.5	13.1	91.0

Table B.12b. Model Information for the Relationship between Percent Black Alone and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.017	<.001	52170	$\sigma_{11}^2 = 0.362$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_Black	1.119	0.103	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.017	<.001	48599	$\sigma_{11}^2 = 0.353$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Black	1.141	0.103	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.017	<.001	87051	$\sigma_{11}^2 = 0.342$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Pct_Black	1.364	0.132	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.642	0.024	<.001	139781	$\sigma_{11}^2 = 0.489$	
	time	-0.128	0.004	<.001	.	$\sigma_{21}^2 = -0.019$	
	Pct_Black	1.365	0.152	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.943	0.031	<.001	177691	$\sigma_{11}^2 = 0.440$	
	time	-0.096	0.007	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Black	1.189	0.154	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent White Alone

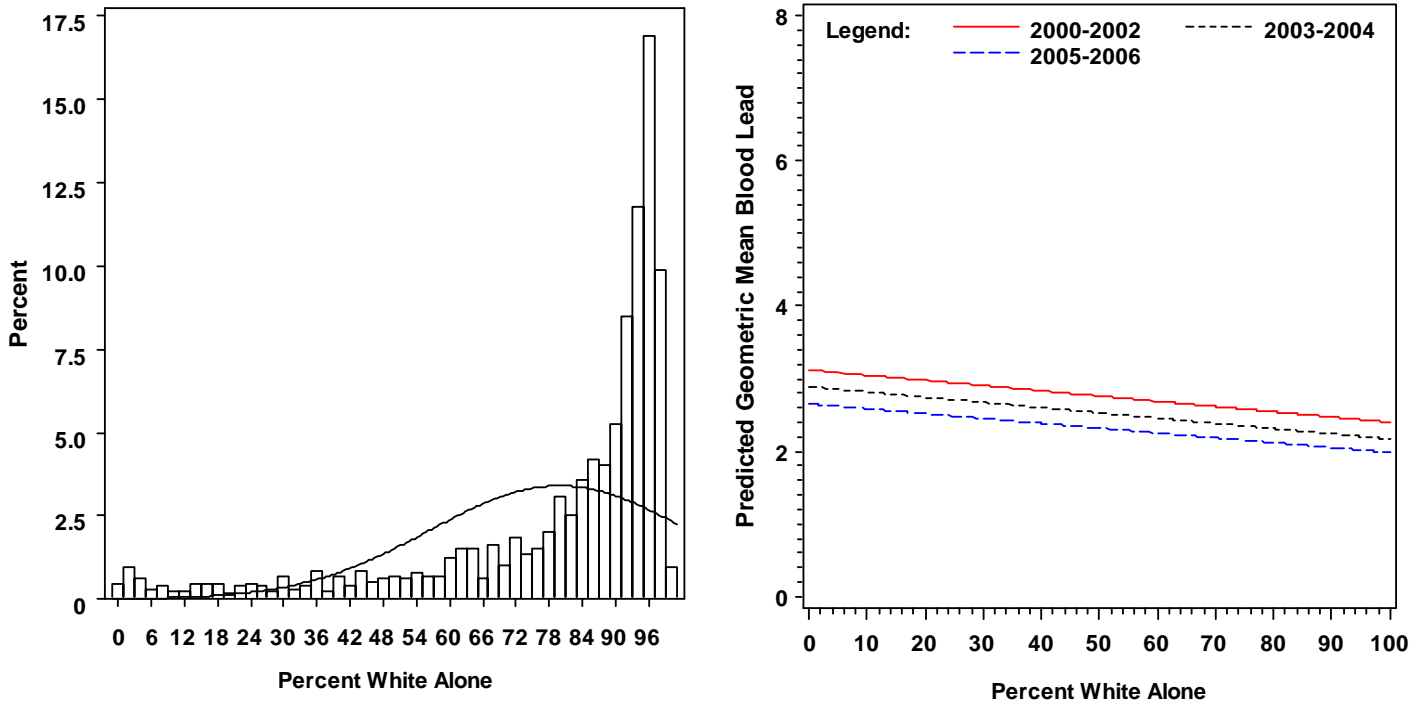


Figure B.13. Percent White Alone: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.13a. Summary Information for Percent White Alone by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	79.85	0.19	0.1	44.1	74.0	90.4	95.4	97.1	100.0
2003-2004	10450	0	79.86	0.23	0.1	44.1	74.0	90.4	95.4	97.1	100.0
2005-2006	10417	0	79.82	0.23	0.1	44.1	73.7	90.4	95.4	97.1	100.0
All Years	36484	0	79.84	0.12	0.1	44.1	74.0	90.4	95.4	97.1	100.0

Table B.13b. Model Information for the Relationship between Percent White Alone and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.650	0.017	<.001	52124	$\sigma_{11}^2 = 0.364$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_White	-0.695	0.053	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.017	<.001	48547	$\sigma_{11}^2 = 0.355$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_White	-0.716	0.053	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.017	<.001	86961	$\sigma_{11}^2 = 0.322$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	Pct_White	-0.937	0.068	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.639	0.023	<.001	139784	$\sigma_{11}^2 = 0.445$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.018$	
	Pct_White	-1.029	0.078	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.941	0.031	<.001	178067	$\sigma_{11}^2 = 0.387$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_White	-0.937	0.082	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Native Hawaiian and Other Pacific Islander Alone

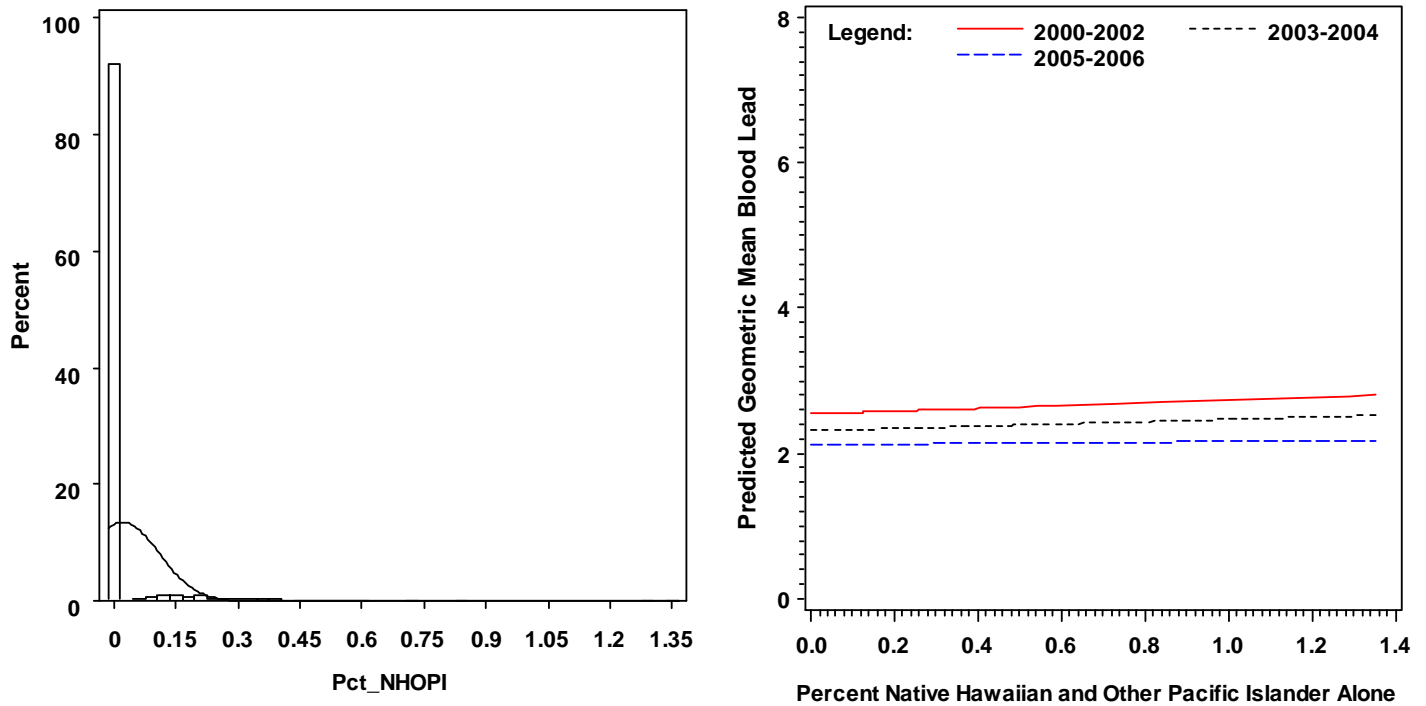


Figure B.14. Percent Native Hawaiian and Other Pacific Islander Alone: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.14a. Summary Information for Percent Native Hawaiian and Other Pacific Islander Alone by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	0.02	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.4
2003-2004	10450	0	0.02	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.4
2005-2006	10417	0	0.02	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.4
All Years	36484	0	0.02	0.00	0.0	0.0	0.0	0.0	0.0	0.0	1.4

Table B.14b. Model Information for the Relationship between Percent Native Hawaiian and Other Pacific Islander Alone and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52273	$\sigma_{11}^2 = 0.387$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_NHOPI	7.425	14.698	0.613	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48707	$\sigma_{11}^2 = 0.379$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_NHOPI	8.036	14.811	0.587	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87136	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	Pct_NHOPI	-0.786	19.257	0.967	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139740	$\sigma_{11}^2 = 0.541$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_NHOPI	3.538	22.631	0.876	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177379	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	Pct_NHOPI	-6.263	24.829	0.801	.	$\sigma_{22}^2 = 0.003$	

Percent Other Race Alone

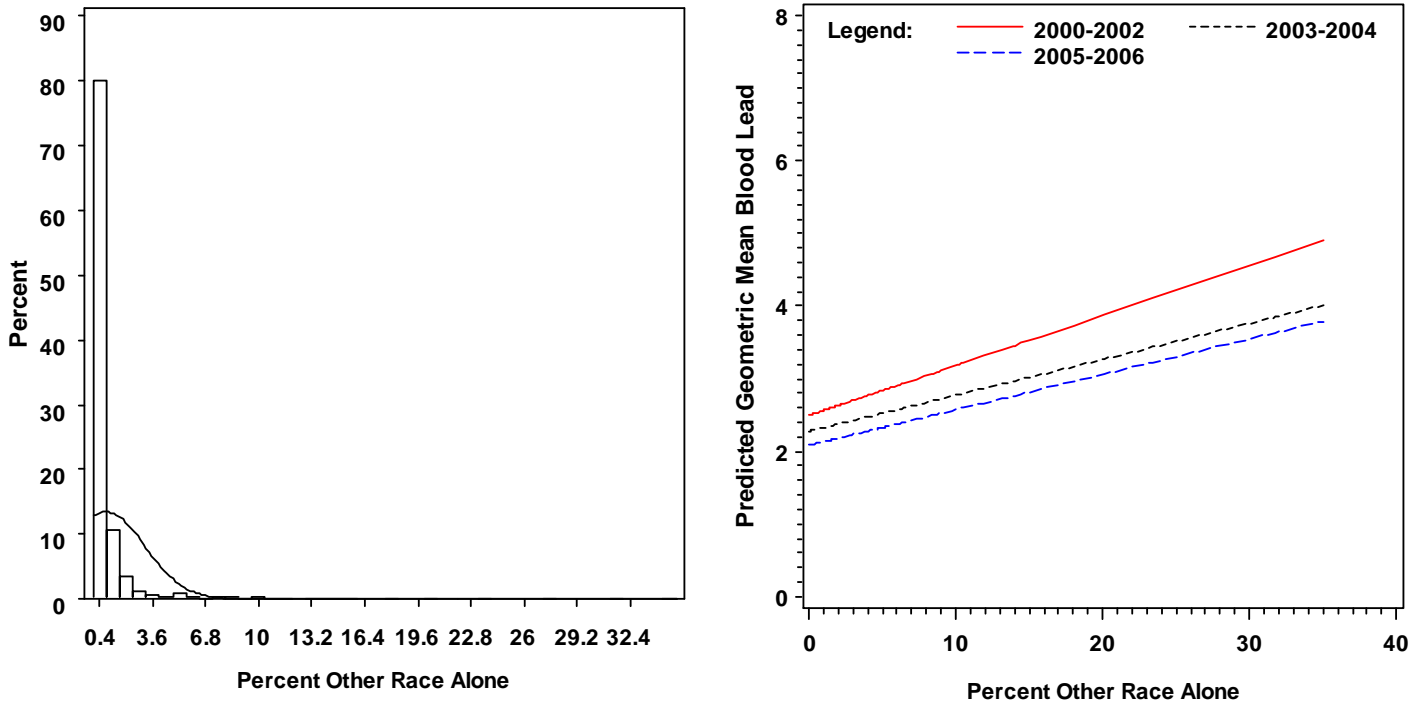


Figure B.15. Percent Other Race Alone: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.15a. Summary Information for Percent Other Race Alone by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	0.753	0.019	0.00	0.00	0.00	0.14	0.59	1.45	35.01
2003-2004	10450	0	0.750	0.023	0.00	0.00	0.00	0.14	0.59	1.45	35.01
2005-2006	10417	0	0.744	0.023	0.00	0.00	0.00	0.14	0.59	1.41	35.01
All Years	36484	0	0.749	0.012	0.00	0.00	0.00	0.14	0.59	1.45	35.01

Table B.15b. Model Information for the Relationship between Percent Other Race Alone and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.648	0.017	<.001	52203	$\sigma_{11}^2 = 0.362$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Other_Race	4.852	0.538	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.017	<.001	48633	$\sigma_{11}^2 = 0.353$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_Other_Race	4.982	0.543	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.734	0.017	<.001	87055	$\sigma_{11}^2 = 0.345$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Pct_Other_Race	6.528	0.690	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.641	0.024	<.001	139688	$\sigma_{11}^2 = 0.479$	
	time	-0.128	0.004	<.001	.	$\sigma_{21}^2 = -0.019$	
	Pct_Other_Race	7.799	0.769	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.936	0.031	<.001	177606	$\sigma_{11}^2 = 0.410$	
	time	-0.097	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Other_Race	6.985	0.747	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Multiple Races

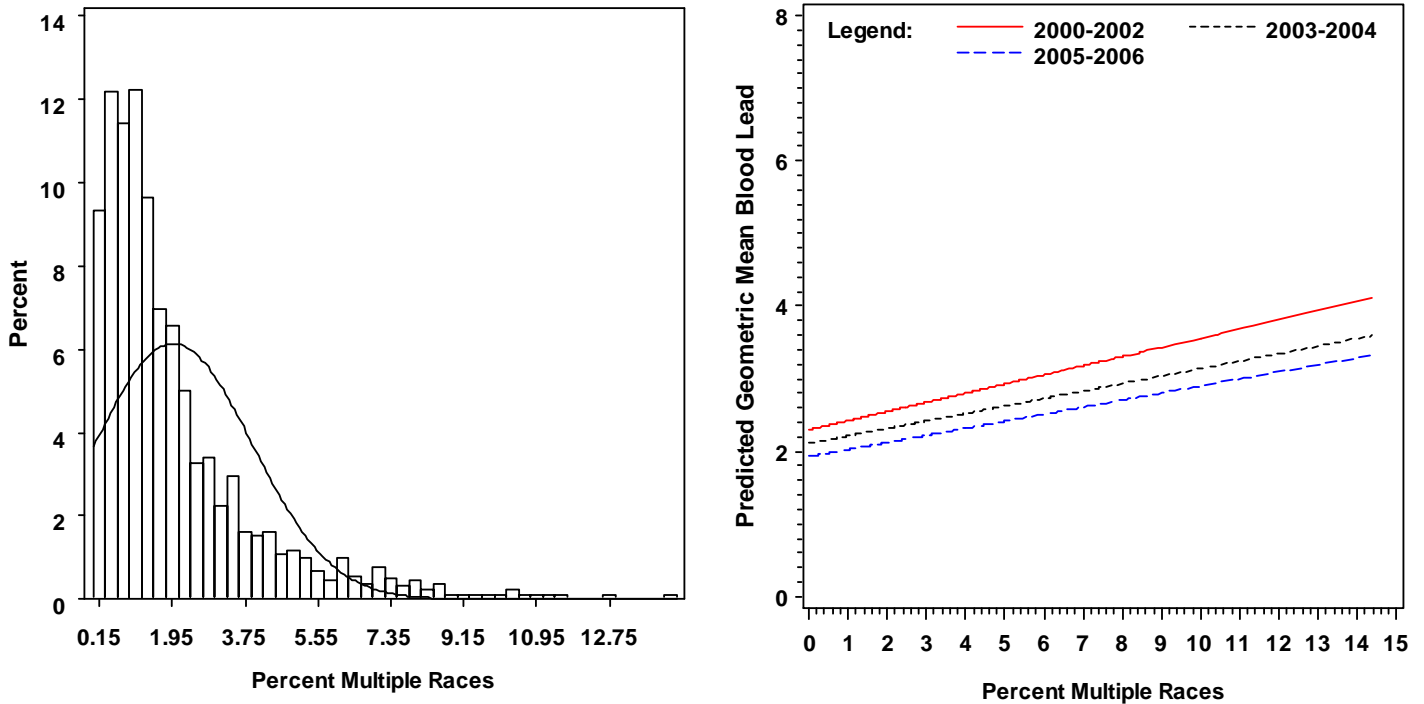


Figure B.16. Percent Multiple Races: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.16a. Summary Information for Percent Multiple Races by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	1.98	0.02	0.0	0.3	0.7	1.3	2.5	4.5	14.4
2003-2004	10450	0	1.98	0.02	0.0	0.3	0.7	1.3	2.5	4.5	14.4
2005-2006	10417	0	1.98	0.02	0.0	0.3	0.7	1.3	2.5	4.5	14.4
All Years	36484	0	1.98	0.01	0.0	0.3	0.7	1.3	2.5	4.5	14.4

Table B.16b. Model Information for the Relationship between Percent Multiple Races and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.016	<.001	52042	$\sigma_{11}^2 = 0.332$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Multi_Race	10.015	0.616	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.016	<.001	48471	$\sigma_{11}^2 = 0.321$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_Multi_Race	10.176	0.617	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.734	0.016	<.001	86889	$\sigma_{11}^2 = 0.299$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.004$	
	Pct_Multi_Race	13.057	0.790	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.638	0.023	<.001	139661	$\sigma_{11}^2 = 0.418$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.018$	
	Pct_Multi_Race	14.632	0.906	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.939	0.030	<.001	178105	$\sigma_{11}^2 = 0.358$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Multi_Race	13.632	0.923	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Hispanic

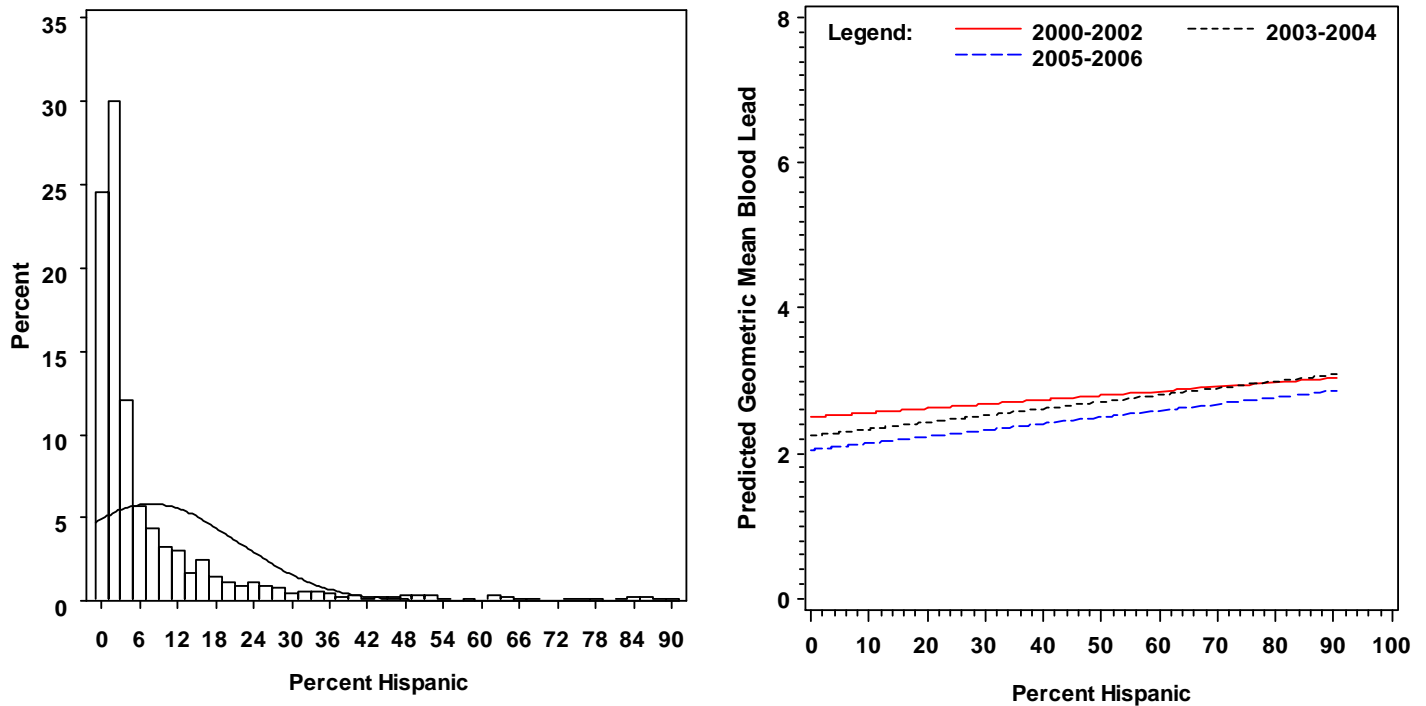


Figure B.17. Percent Hispanic: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.17a. Summary Information for Percent Hispanic by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	7.88	0.11	0.0	0.4	1.0	2.5	7.9	21.8	90.6
2003-2004	10450	0	7.87	0.13	0.0	0.4	1.0	2.5	7.9	21.7	90.6
2005-2006	10417	0	7.88	0.13	0.0	0.4	1.0	2.5	7.9	21.8	90.6
All Years	36484	0	7.88	0.07	0.0	0.4	1.0	2.5	7.9	21.8	90.6

Table B.17b. Model Information for the Relationship between Percent Hispanic and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.650	0.018	<.001	52181	$\sigma_{11}^2 = 0.389$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.029$	
	Pct_Hispanic	0.975	0.093	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.018	<.001	48609	$\sigma_{11}^2 = 0.381$	$\sigma_{error}^2 = 4.428$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_Hispanic	1.004	0.093	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.018	<.001	87020	$\sigma_{11}^2 = 0.350$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.008$	
	Pct_Hispanic	1.309	0.120	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.645	0.024	<.001	139809	$\sigma_{11}^2 = 0.491$	
	time	-0.127	0.004	<.001	.	$\sigma_{21}^2 = -0.021$	
	Pct_Hispanic	1.398	0.138	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.945	0.031	<.001	177754	$\sigma_{11}^2 = 0.441$	
	time	-0.096	0.007	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Hispanic	1.137	0.143	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Rented Units

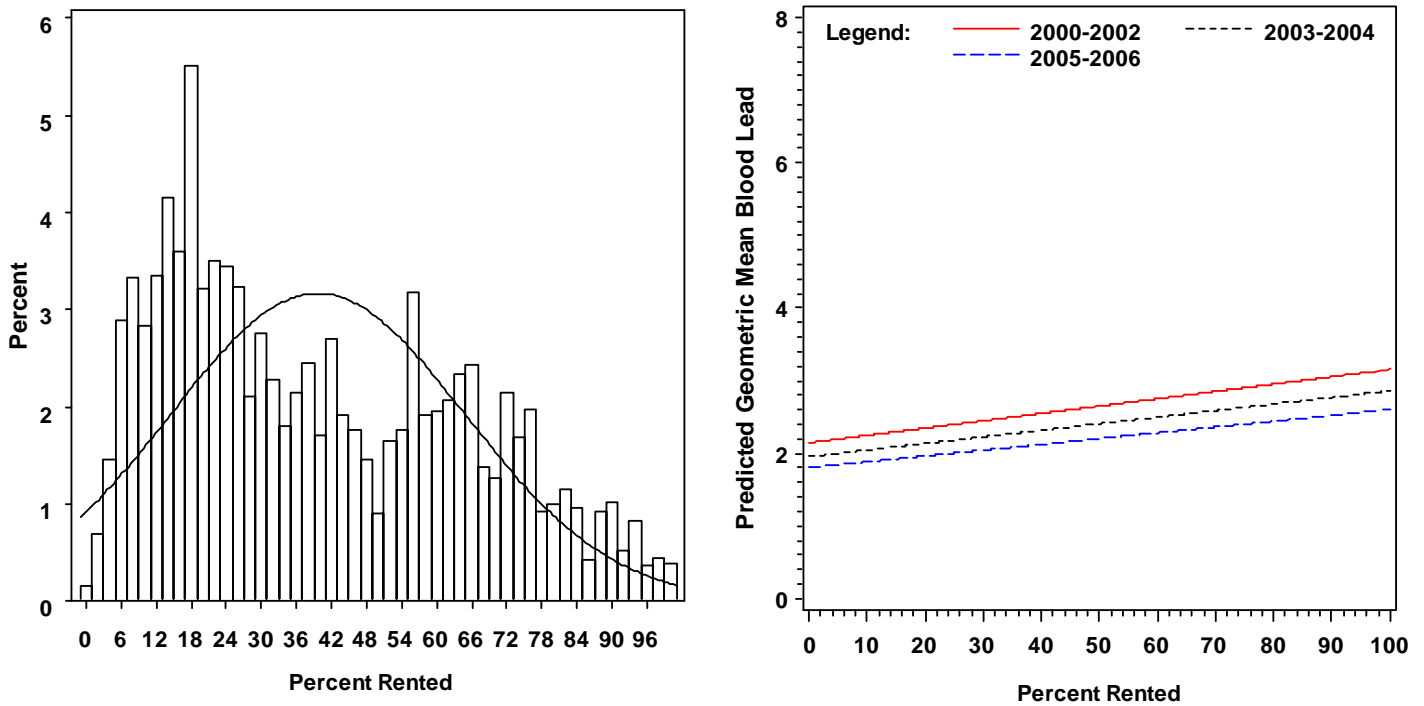


Figure B.18. Percent Rented Units: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.18a. Summary Information for Percent Rented Units by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	39.62	0.20	0.0	10.0	17.9	34.8	59.9	75.7	100.0
2003-2004	10450	0	39.66	0.25	0.0	10.0	18.0	34.9	59.9	75.7	100.0
2005-2006	10417	0	39.65	0.25	0.0	10.0	18.0	34.8	59.9	75.7	100.0
All Years	36484	0	39.64	0.13	0.0	10.0	18.0	34.8	59.9	75.7	100.0

Table B.18b. Model Information for the Relationship between Percent Rented Units and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.647	0.016	<.001	52007	$\sigma_{11}^2 = 0.327$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Rented	0.827	0.047	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.634	0.016	<.001	48421	$\sigma_{11}^2 = 0.319$	$\sigma_{error}^2 = 4.430$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Rented	0.859	0.047	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.734	0.016	<.001	86682	$\sigma_{11}^2 = 0.271$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	Pct_Rented	1.222	0.059	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.634	0.022	<.001	139427	$\sigma_{11}^2 = 0.370$	
	time	-0.130	0.004	<.001	.	$\sigma_{21}^2 = -0.017$	
	Pct_Rented	1.402	0.070	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.934	0.030	<.001	177819	$\sigma_{11}^2 = 0.337$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Rented	1.283	0.078	<.001	.	$\sigma_{22}^2 = 0.003$	

Median Rent (\$)

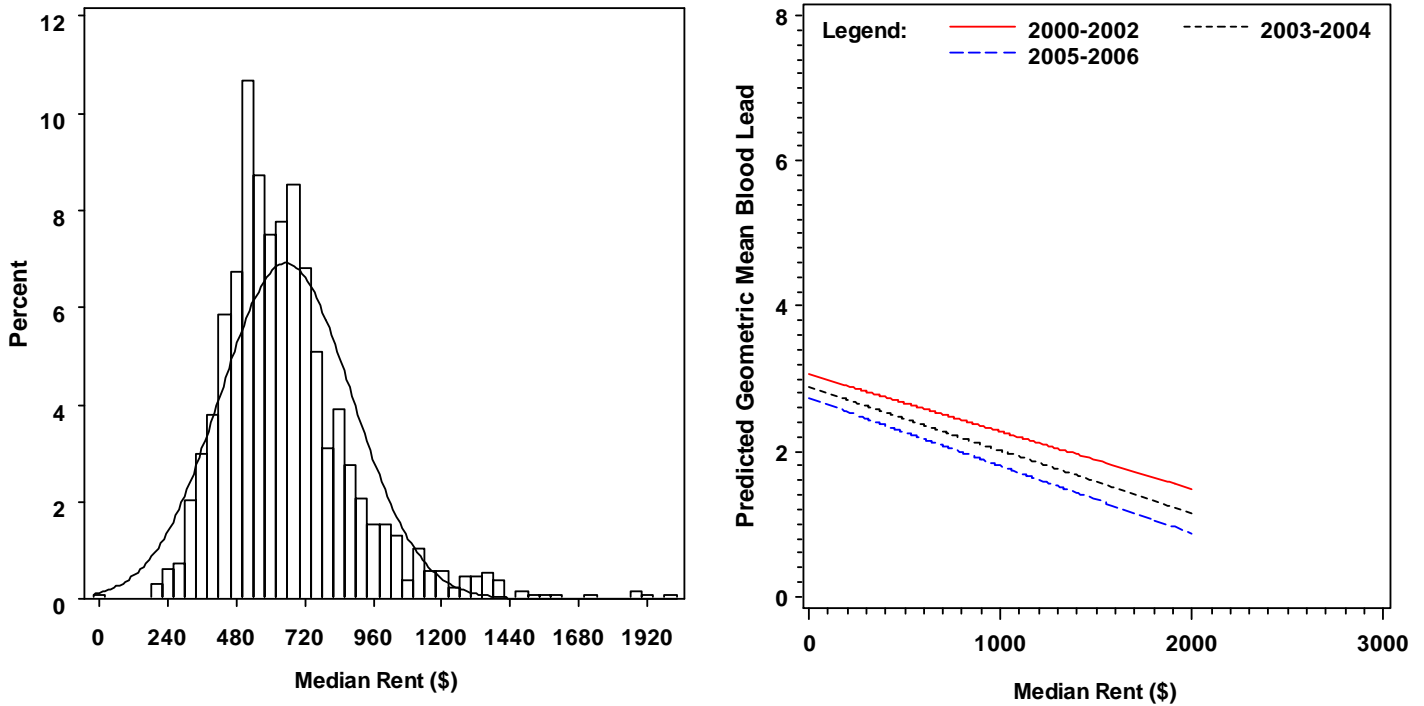


Figure B.19. Median Rent (\$): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.19a. Summary Information for Median Rent (\$) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	653.7	1.8	0	414	504	619	755	931	2001
2003-2004	10450	0	654.6	2.3	0	415	505	619	755	935.5	2001
2005-2006	10417	0	654.4	2.3	0	415	505	619	755	933	2001
All Years	36484	0	654.1	1.2	0	415	504	619	755	933	2001

Table B.19b. Model Information for the Relationship between Median Rent (\$) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.650	0.017	<.001	52004	$\sigma_{11}^2 = 0.361$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.029$	
	Median_Rent	-0.001	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.017	<.001	48440	$\sigma_{11}^2 = 0.352$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Median_Rent	-0.001	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.739	0.017	<.001	86943	$\sigma_{11}^2 = 0.324$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.010$	
	Median_Rent	-0.001	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.652	0.024	<.001	139972	$\sigma_{11}^2 = 0.476$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.023$	
	Median_Rent	-0.001	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.952	0.031	<.001	177952	$\sigma_{11}^2 = 0.445$	
	time	-0.095	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	Median_Rent	-0.001	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Housing Value (\$)

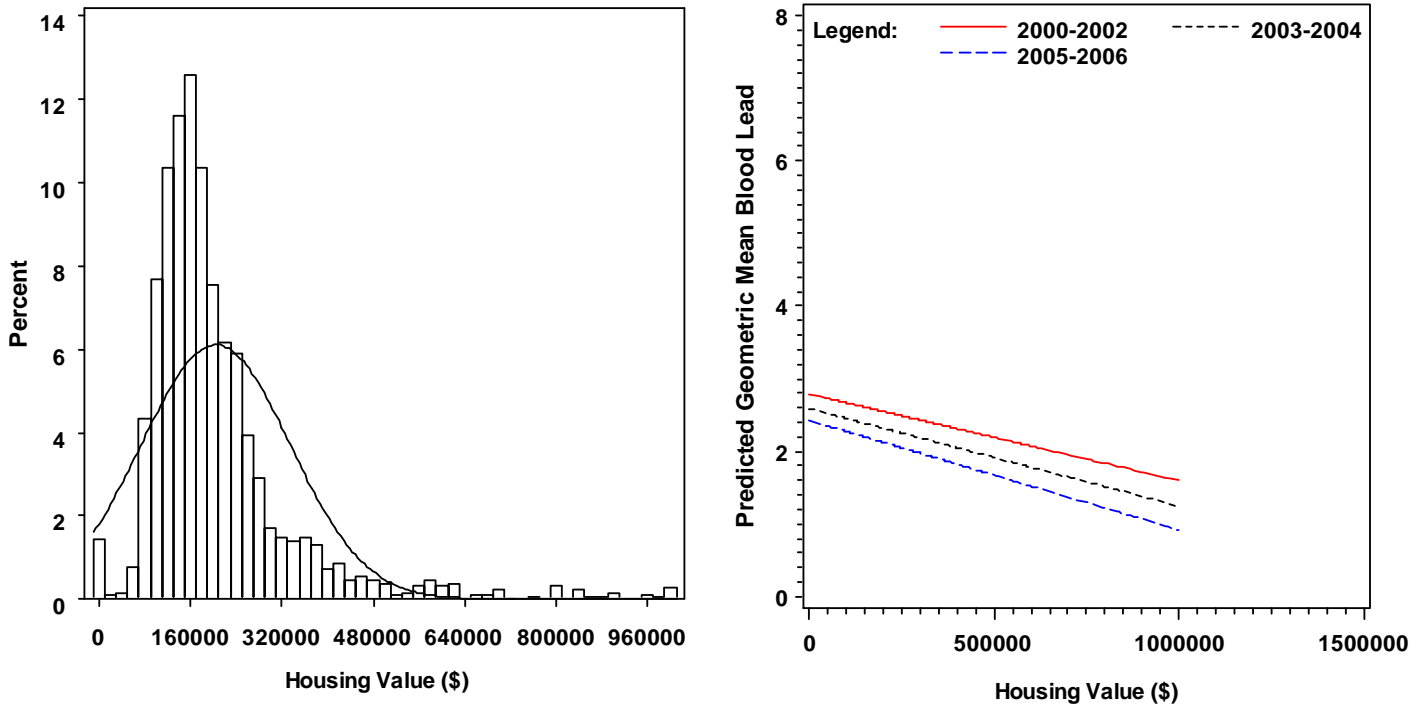


Figure B.20. Housing Value (\$): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.20a. Summary Information for Housing Value (\$) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	203914.1	1043.4	0	98200	130000	172000	233800	341300	1000001
2003-2004	10450	0	204453.3	1279.9	0	98200	130100	172100	235100	342600	1000001
2005-2006	10417	0	204436.7	1281.5	0	98500	130200	172100	235100	342200	1000001
All Years	36484	0	204217.7	683.9	0	98200	130100	172100	234600	342200	1000001

Table B.20b. Model Information for the Relationship between Housing Value (\$) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.652	0.017	<.001	52095	$\sigma_{11}^2 = 0.374$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.030$	
	Housing_Value	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.638	0.017	<.001	48521	$\sigma_{11}^2 = 0.363$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.029$	
	Housing_Value	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.738	0.017	<.001	87033	$\sigma_{11}^2 = 0.337$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.009$	
	Housing_Value	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.652	0.024	<.001	140054	$\sigma_{11}^2 = 0.489$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.024$	
	Housing_Value	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.953	0.031	<.001	178202	$\sigma_{11}^2 = 0.443$	
	time	-0.095	0.007	<.001	.	$\sigma_{21}^2 = -0.028$	
	Housing_Value	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Vacant Units

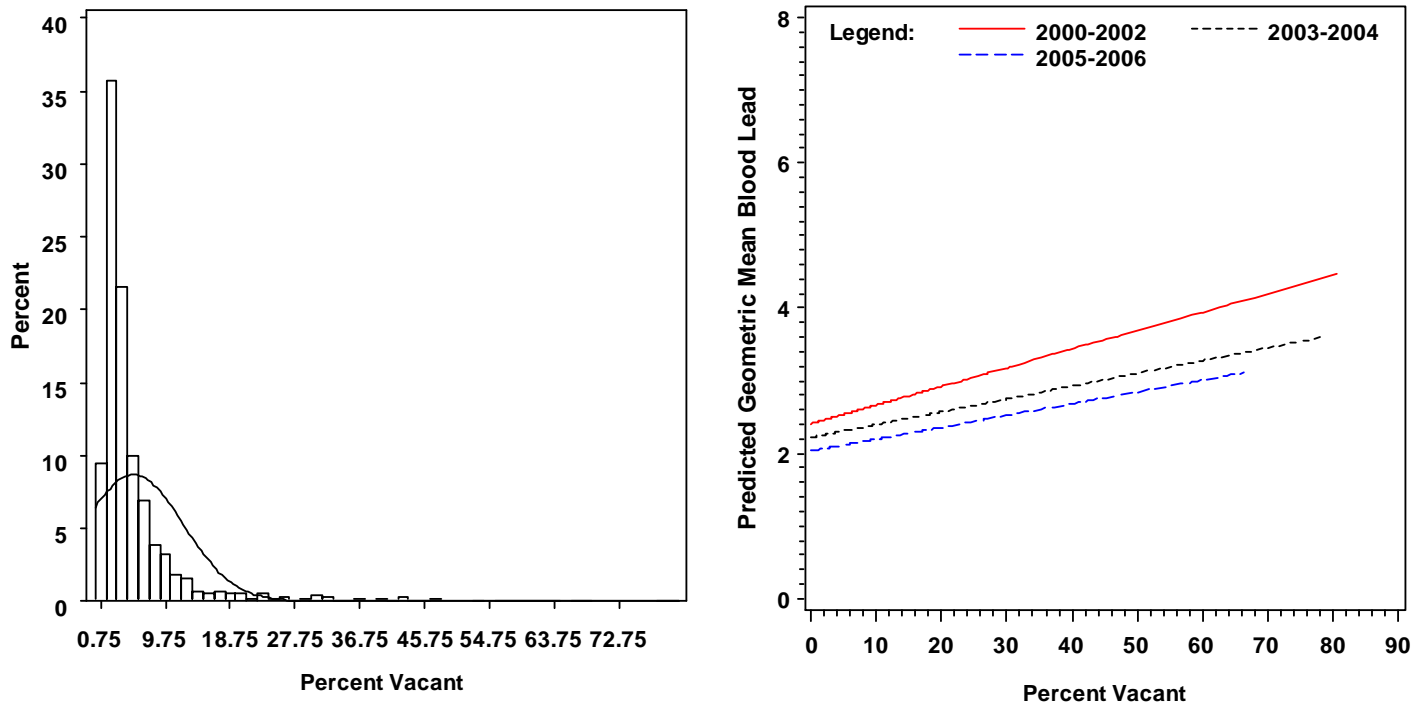


Figure B.21. Percent Vacant Units: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.21a. Summary Information for Percent Vacant Units by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	5.33	0.05	0.0	1.5	2.1	3.2	5.6	10.1	80.5
2003-2004	10450	0	5.36	0.07	0.0	1.5	2.1	3.2	5.7	10.1	78.0
2005-2006	10417	0	5.34	0.07	0.0	1.5	2.1	3.2	5.7	10.1	66.3
All Years	36484	0	5.34	0.04	0.0	1.5	2.1	3.2	5.7	10.1	80.5

Table B.21b. Model Information for the Relationship between Percent Vacant Units and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.640	0.017	<.001	52187	$\sigma_{11}^2 = 0.357$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Vacant	1.540	0.153	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.629	0.017	<.001	48618	$\sigma_{11}^2 = 0.351$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_Vacant	1.686	0.166	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.740	0.018	<.001	87004	$\sigma_{11}^2 = 0.352$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	Pct_Vacant	1.877	0.212	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.646	0.024	<.001	139452	$\sigma_{11}^2 = 0.512$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Vacant	2.027	0.272	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.940	0.032	<.001	177021	$\sigma_{11}^2 = 0.468$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	Pct_Vacant	1.812	0.323	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Single Parent Households

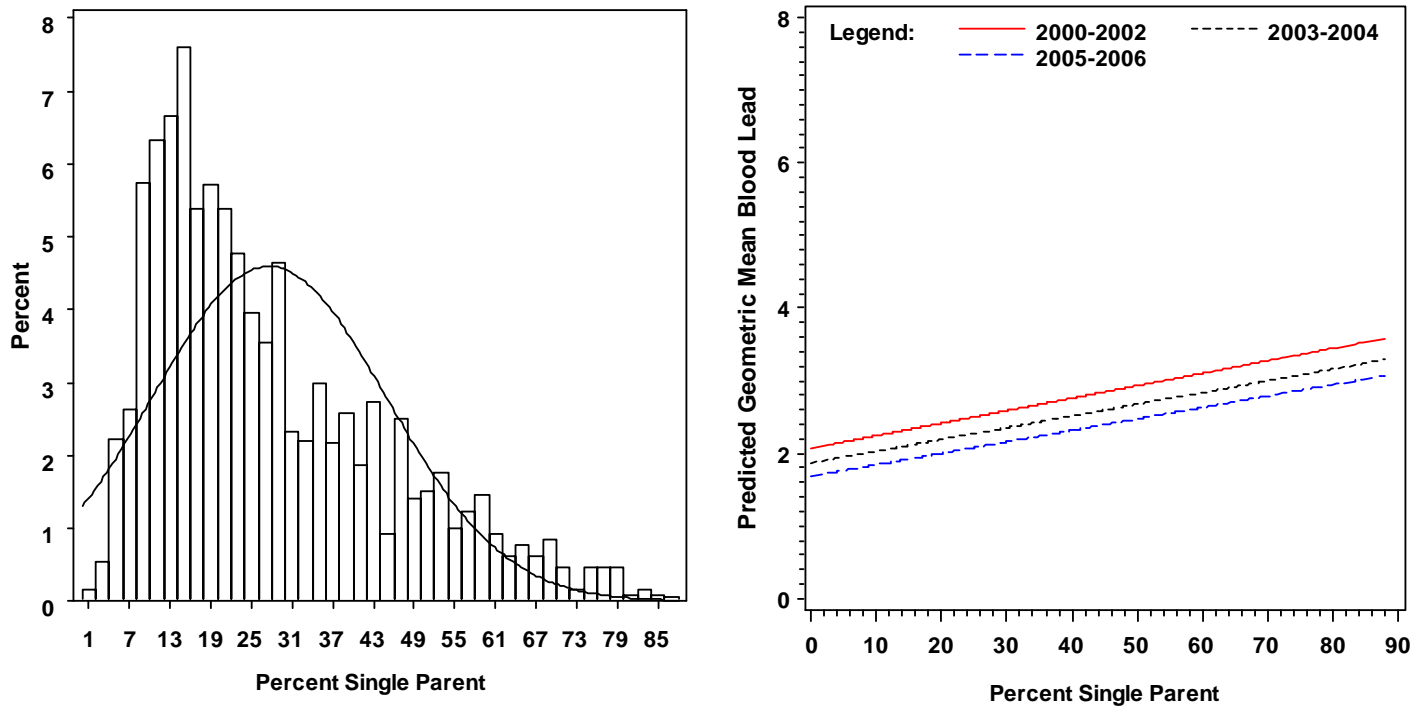


Figure B.22. Percent Single Parent Households: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.22a. Summary Information for Percent Single Parent Households by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	27.59	0.14	0.0	9.5	14.1	22.7	38.0	53.6	87.9
2003-2004	10450	0	27.61	0.17	0.0	9.5	14.1	22.8	38.1	53.6	87.9
2005-2006	10417	0	27.60	0.17	0.0	9.5	14.1	22.8	38.0	53.6	87.9
All Years	36484	0	27.60	0.09	0.0	9.5	14.1	22.7	38.0	53.6	87.9

Table B.22b. Model Information for the Relationship between Percent Single Parent Households and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.650	0.016	<.001	51748	$\sigma_{11}^2 = 0.304$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_Single_Parent	1.595	0.062	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.016	<.001	48156	$\sigma_{11}^2 = 0.294$	$\sigma_{\text{error}}^2 = 4.430$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Single_Parent	1.635	0.061	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.015	<.001	86543	$\sigma_{11}^2 = 0.245$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.008$	
	Pct_Single_Parent	2.100	0.079	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.638	0.022	<.001	139654	$\sigma_{11}^2 = 0.346$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.017$	
	Pct_Single_Parent	2.208	0.096	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.940	0.030	<.001	178339	$\sigma_{11}^2 = 0.314$	
	time	-0.099	0.007	<.001	.	$\sigma_{21}^2 = -0.021$	
	Pct_Single_Parent	1.906	0.105	<.001	.	$\sigma_{22}^2 = 0.003$	

Median Year Built

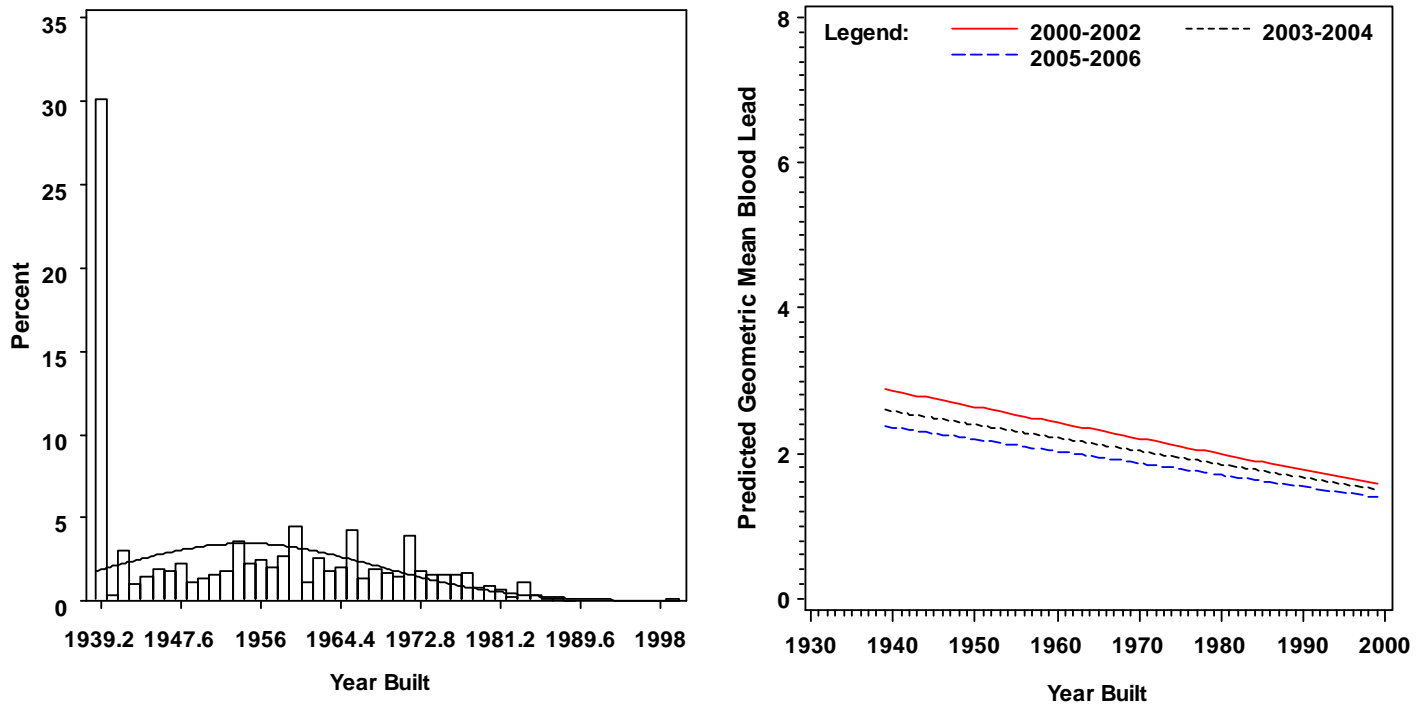


Figure B.23. Median Year Built: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.23a. Summary Information for Median Year Built by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	1954.4	0.1	1939	1939	1939	1954	1966	1974	1999
2003-2004	10450	0	1954.4	0.1	1939	1939	1939	1954	1966	1974	1999
2005-2006	10417	0	1954.4	0.1	1939	1939	1939	1954	1966	1974	1999
All Years	36484	0	1954.4	0.1	1939	1939	1939	1954	1966	1974	1999

Table B.23b. Model Information for the Relationship between Median Year Built and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.016	<.001	51950	$\sigma_{11}^2 = 0.301$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.024$	
	Median_Yr_Built	-0.017	0.001	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.015	<.001	48361	$\sigma_{11}^2 = 0.288$	$\sigma_{\text{error}}^2 = 4.431$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.023$	
	Median_Yr_Built	-0.017	0.001	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.732	0.015	<.001	86621	$\sigma_{11}^2 = 0.231$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.004$	
	Median_Yr_Built	-0.026	0.001	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.634	0.021	<.001	139739	$\sigma_{11}^2 = 0.318$	
	time	-0.130	0.004	<.001	.	$\sigma_{21}^2 = -0.015$	
	Median_Yr_Built	-0.030	0.001	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.937	0.030	<.001	178275	$\sigma_{11}^2 = 0.312$	
	time	-0.099	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	Median_Yr_Built	-0.026	0.001	<.001	.	$\sigma_{22}^2 = 0.003$	

Median Year Occupied Units were built

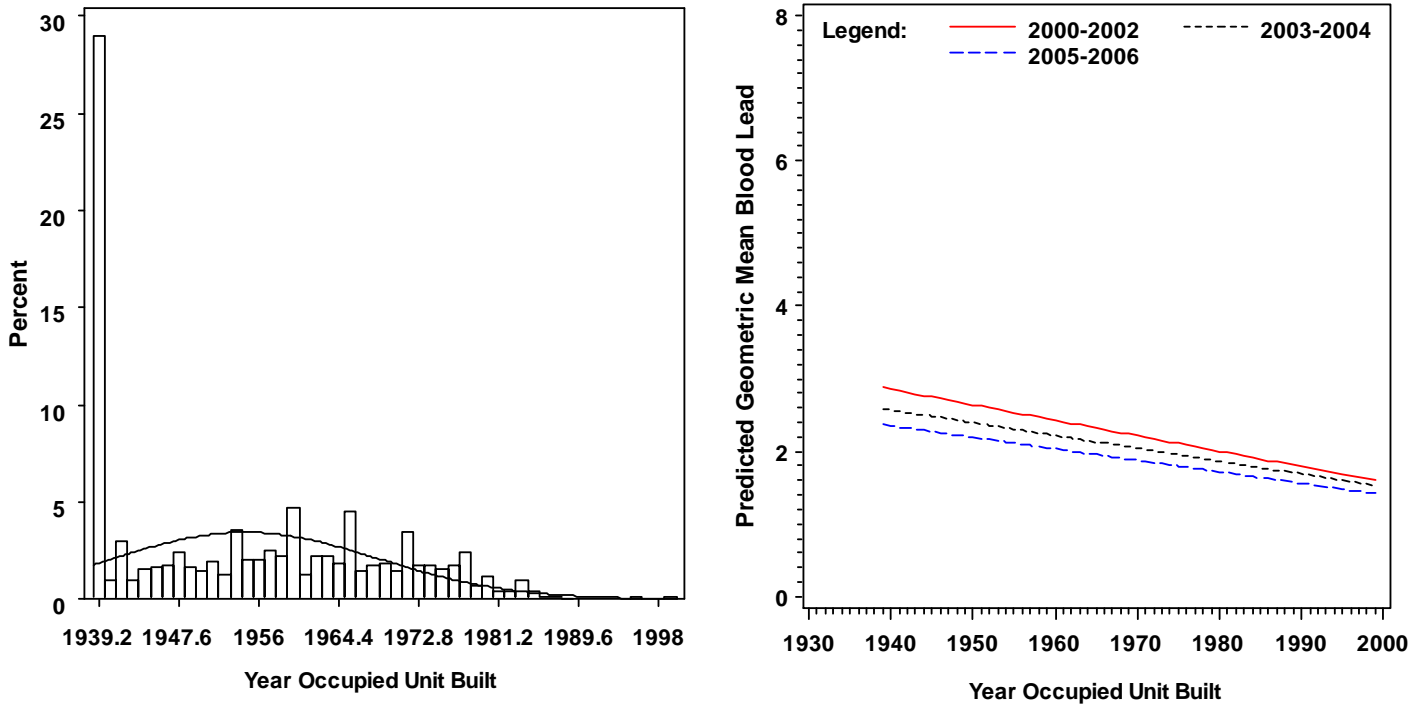


Figure B.24. Median Year Occupied Units were built: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.24a. Summary Information for Median Year Occupied Units were built by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	1954.5	0.1	1939	1939	1939	1954	1966	1974	1999
2003-2004	10450	0	1954.6	0.1	1939	1939	1939	1954	1966	1975	1999
2005-2006	10417	0	1954.6	0.1	1939	1939	1939	1954	1966	1975	1999
All Years	36484	0	1954.6	0.1	1939	1939	1939	1954	1966	1975	1999

Table B.24b. Model Information for the Relationship between Median Year Occupied Units were Built and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.016	<.001	51967	$\sigma_{11}^2 = 0.303$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.024$	
	Median_Yr_Occ_Built	-0.016	0.001	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.016	<.001	48378	$\sigma_{11}^2 = 0.291$	$\sigma_{\text{error}}^2 = 4.431$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.023$	
	Median_Yr_Occ_Built	-0.017	0.001	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.732	0.015	<.001	86641	$\sigma_{11}^2 = 0.235$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.004$	
	Median_Yr_Occ_Built	-0.026	0.001	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.635	0.021	<.001	139749	$\sigma_{11}^2 = 0.325$	
	time	-0.130	0.004	<.001	.	$\sigma_{21}^2 = -0.016$	
	Median_Yr_Occ_Built	-0.029	0.001	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.937	0.030	<.001	178259	$\sigma_{11}^2 = 0.317$	
	time	-0.099	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	Median_Yr_Occ_Built	-0.026	0.001	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Units Built Before 1940

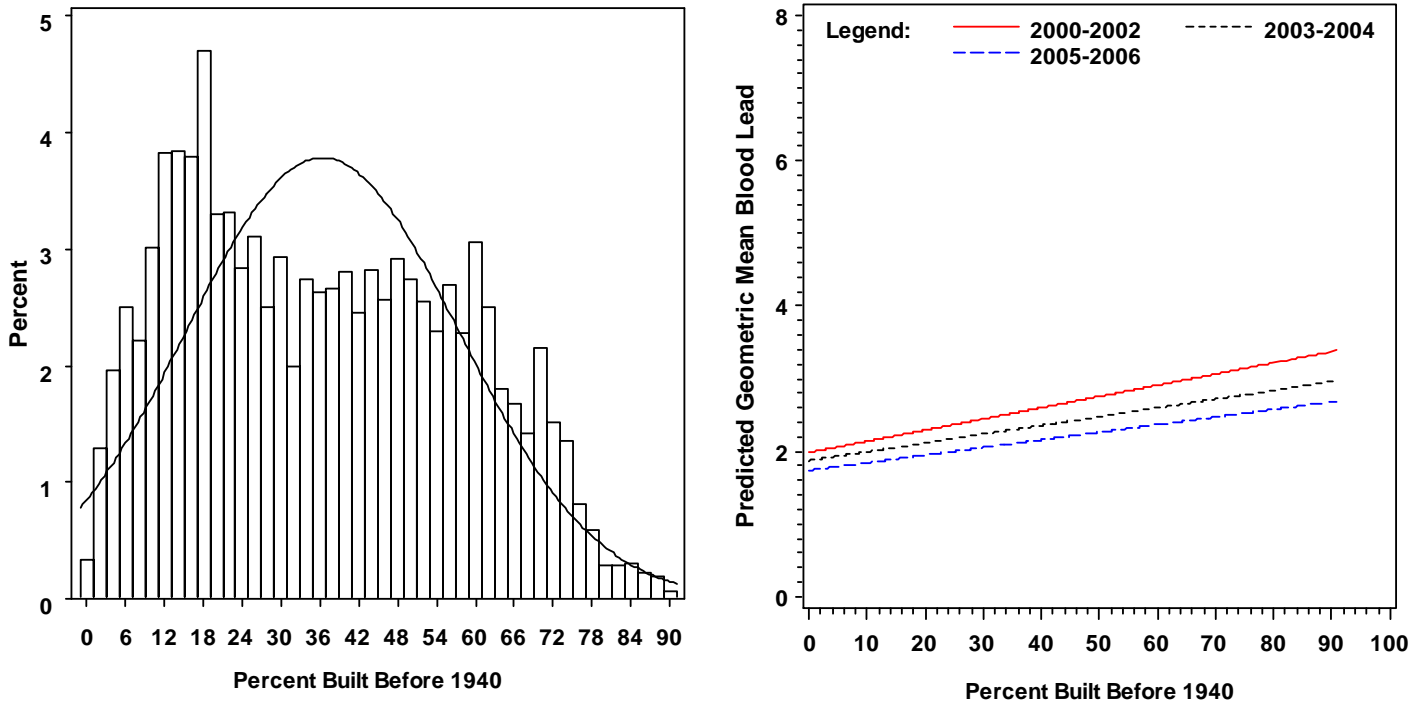


Figure B.25. Percent Units Built Before 1940: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.25a. Summary Information for Percent Units Built Before 1940 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	36.40	0.17	0.0	10.2	17.9	34.9	53.3	66.2	90.9
2003-2004	10450	0	36.38	0.21	0.0	10.2	17.9	34.9	53.3	66.1	90.9
2005-2006	10417	0	36.37	0.21	0.0	10.2	17.8	34.8	53.3	66.1	90.9
All Years	36484	0	36.39	0.11	0.0	10.2	17.9	34.9	53.3	66.1	90.9

Table B.25b. Model Information for the Relationship between Percent Units Built Before 1940 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.015	<.001	51924	$\sigma_{11}^2 = 0.283$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Built_Pre_1940	1.140	0.054	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.635	0.015	<.001	48335	$\sigma_{11}^2 = 0.273$	$\sigma_{\text{error}}^2 = 4.431$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Built_Pre_1940	1.177	0.054	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.731	0.014	<.001	86505	$\sigma_{11}^2 = 0.214$	
	time	-0.141	0.002	<.001	.	$\sigma_{21}^2 = -0.003$	
	Pct_Built_Pre_1940	1.801	0.064	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.631	0.021	<.001	139477	$\sigma_{11}^2 = 0.293$	
	time	-0.131	0.004	<.001	.	$\sigma_{21}^2 = -0.015$	
	Pct_Built_Pre_1940	2.076	0.077	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.934	0.029	<.001	178111	$\sigma_{11}^2 = 0.301$	
	time	-0.099	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Built_Pre_1940	1.771	0.091	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Units Built Before 1950

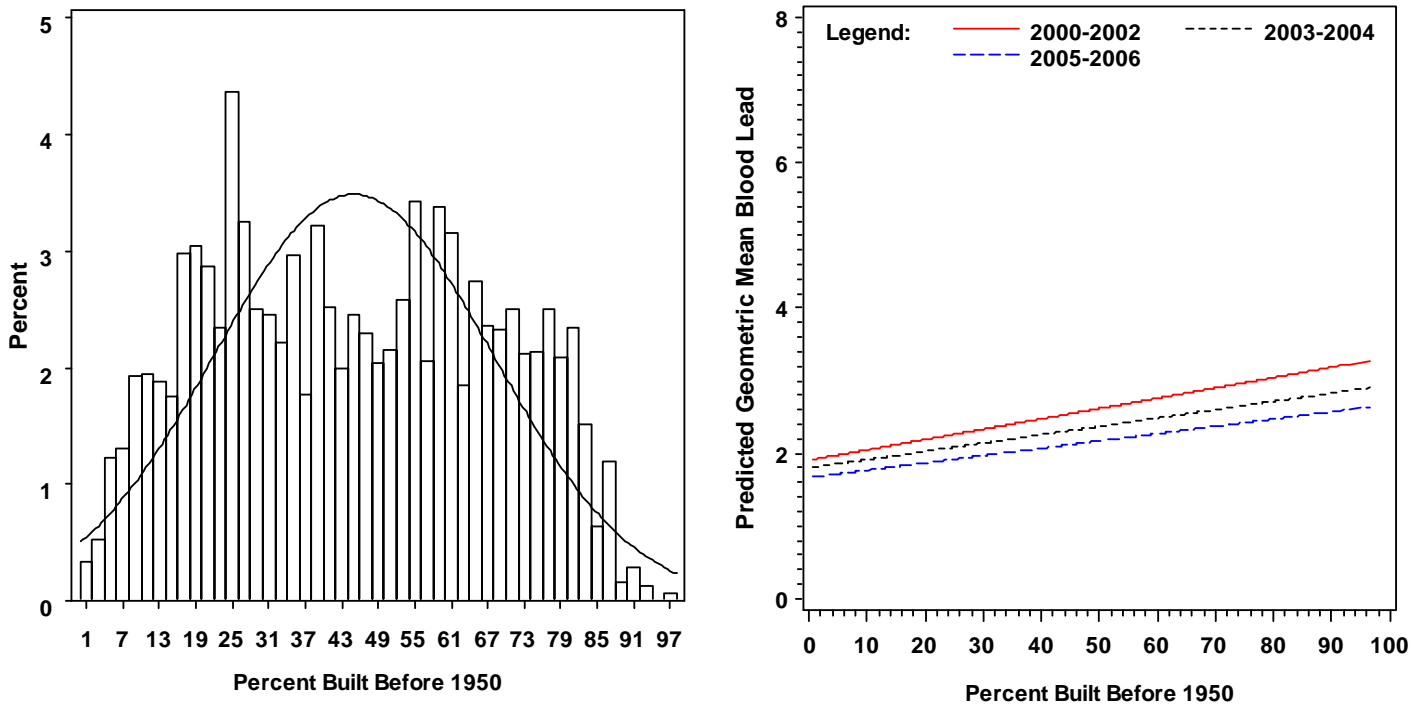


Figure B.26. Percent Units Built Before 1950: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.26a. Summary Information for Percent Units Built Before 1950 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	44.98	0.18	0.6	14.7	25.2	44.4	64.1	76.7	96.5
2003-2004	10450	0	44.96	0.22	0.6	14.6	25.2	44.5	64.1	76.7	96.5
2005-2006	10417	0	44.94	0.22	0.6	14.7	25.2	44.4	64.1	76.7	96.5
All Years	36484	0	44.96	0.12	0.6	14.7	25.2	44.4	64.1	76.7	96.5

Table B.26b. Model Information for the Relationship between Percent Units Built Before 1950 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.015	<.001	51898	$\sigma_{11}^2 = 0.284$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Built_Pre_1950	1.076	0.049	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.015	<.001	48308	$\sigma_{11}^2 = 0.272$	$\sigma_{\text{error}}^2 = 4.431$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Built_Pre_1950	1.110	0.049	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.731	0.014	<.001	86483	$\sigma_{11}^2 = 0.209$	
	time	-0.141	0.002	<.001	.	$\sigma_{21}^2 = -0.004$	
	Pct_Built_Pre_1950	1.699	0.058	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.632	0.021	<.001	139547	$\sigma_{11}^2 = 0.290$	
	time	-0.131	0.004	<.001	.	$\sigma_{21}^2 = -0.015$	
	Pct_Built_Pre_1950	1.933	0.071	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.935	0.029	<.001	178189	$\sigma_{11}^2 = 0.299$	
	time	-0.099	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Built_Pre_1950	1.641	0.084	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Units Built Before 1960

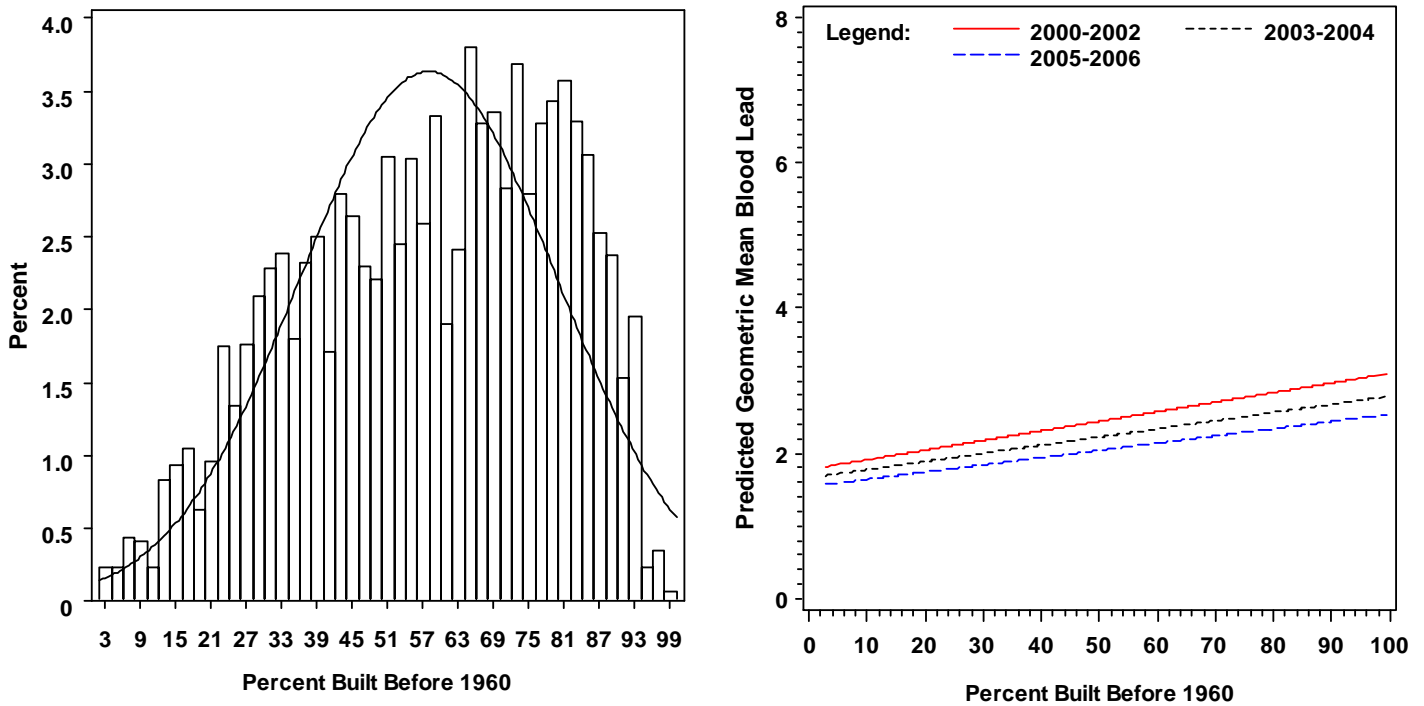


Figure B.27. Percent Units Built Before 1960: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.27a. Summary Information for Percent Units Built Before 1960 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	57.91	0.18	2.9	27.1	40.8	59.7	76.6	85.2	99.4
2003-2004	10450	0	57.88	0.21	2.9	27.0	40.7	59.7	76.6	85.2	99.4
2005-2006	10417	0	57.88	0.21	2.9	27.0	40.6	59.7	76.6	85.2	99.4
All Years	36484	0	57.89	0.11	2.9	27.0	40.7	59.7	76.6	85.2	99.4

Table B.27b. Model Information for the Relationship between Percent Units Built Before 1960 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.016	<.001	51960	$\sigma_{11}^2 = 0.306$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_Built_Pre_1960	1.025	0.053	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.016	<.001	48374	$\sigma_{11}^2 = 0.294$	$\sigma_{\text{error}}^2 = 4.430$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.024$	
	Pct_Built_Pre_1960	1.060	0.052	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.732	0.015	<.001	86653	$\sigma_{11}^2 = 0.241$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Pct_Built_Pre_1960	1.602	0.064	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.636	0.021	<.001	139698	$\sigma_{11}^2 = 0.341$	
	time	-0.130	0.004	<.001	.	$\sigma_{21}^2 = -0.017$	
	Pct_Built_Pre_1960	1.822	0.079	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.938	0.030	<.001	178062	$\sigma_{11}^2 = 0.335$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Built_Pre_1960	1.567	0.092	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Units Built Before 1970

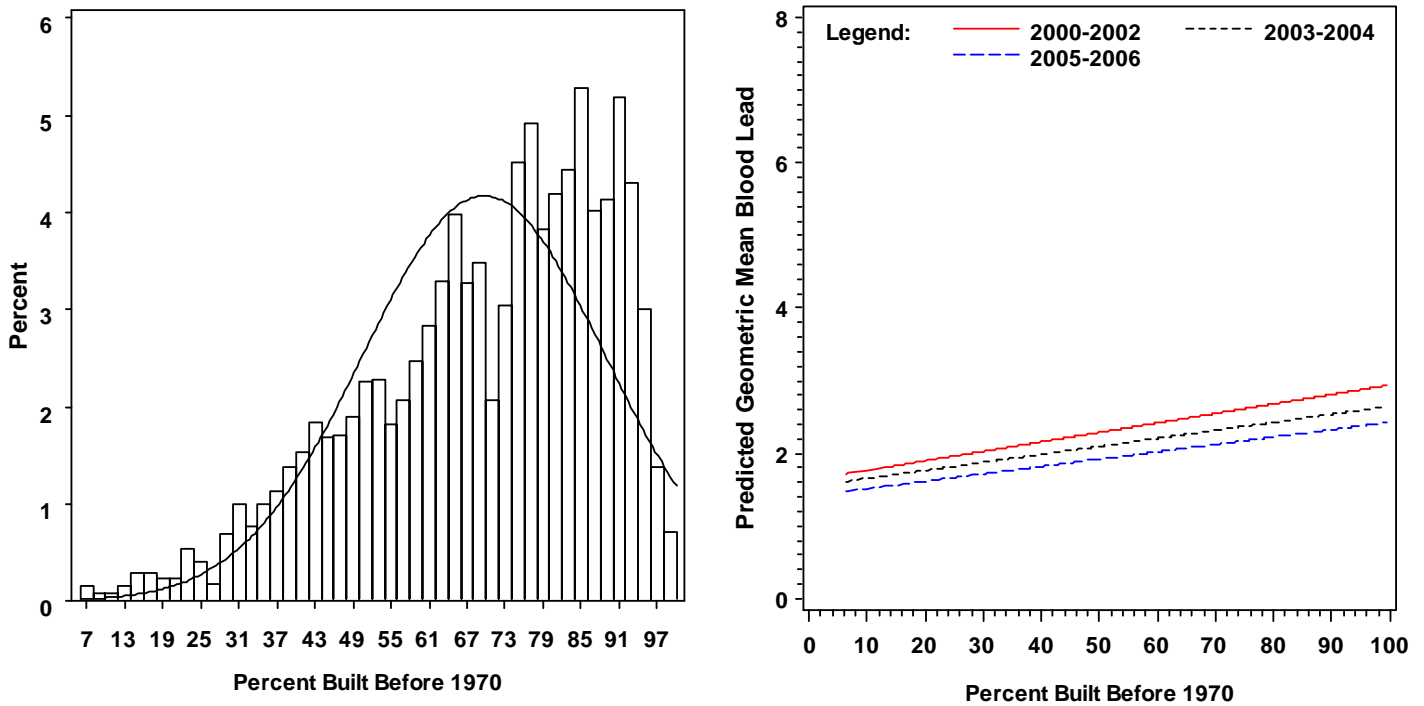


Figure B.28. Percent Units Built Before 1970: Histogram and Linear Relationship with Percent Units Geometric Mean Blood Lead Levels by Time

Table B.28a. Summary Information for Percent Units Built Before 1970 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	69.68	0.15	6.3	41.6	57.2	74.0	85.0	91.7	99.4
2003-2004	10450	0	69.66	0.19	6.3	41.5	57.2	74.0	85.0	91.7	99.4
2005-2006	10417	0	69.66	0.19	6.3	41.6	57.2	74.0	85.0	91.7	99.4
All Years	36484	0	69.67	0.10	6.3	41.6	57.2	74.0	85.0	91.7	99.4

Table B.28b. Model Information for the Relationship between Percent Units Built Before 1970 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.016	<.001	52052	$\sigma_{11}^2 = 0.329$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Built_Pre_1970	1.004	0.062	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.016	<.001	48469	$\sigma_{11}^2 = 0.317$	$\sigma_{\text{error}}^2 = 4.430$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_Built_Pre_1970	1.045	0.062	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.732	0.016	<.001	86806	$\sigma_{11}^2 = 0.274$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Pct_Built_Pre_1970	1.579	0.078	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.637	0.022	<.001	139776	$\sigma_{11}^2 = 0.383$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.017$	
	Pct_Built_Pre_1970	1.807	0.095	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.937	0.030	<.001	177977	$\sigma_{11}^2 = 0.358$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Built_Pre_1970	1.608	0.110	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Units Built Before 1980

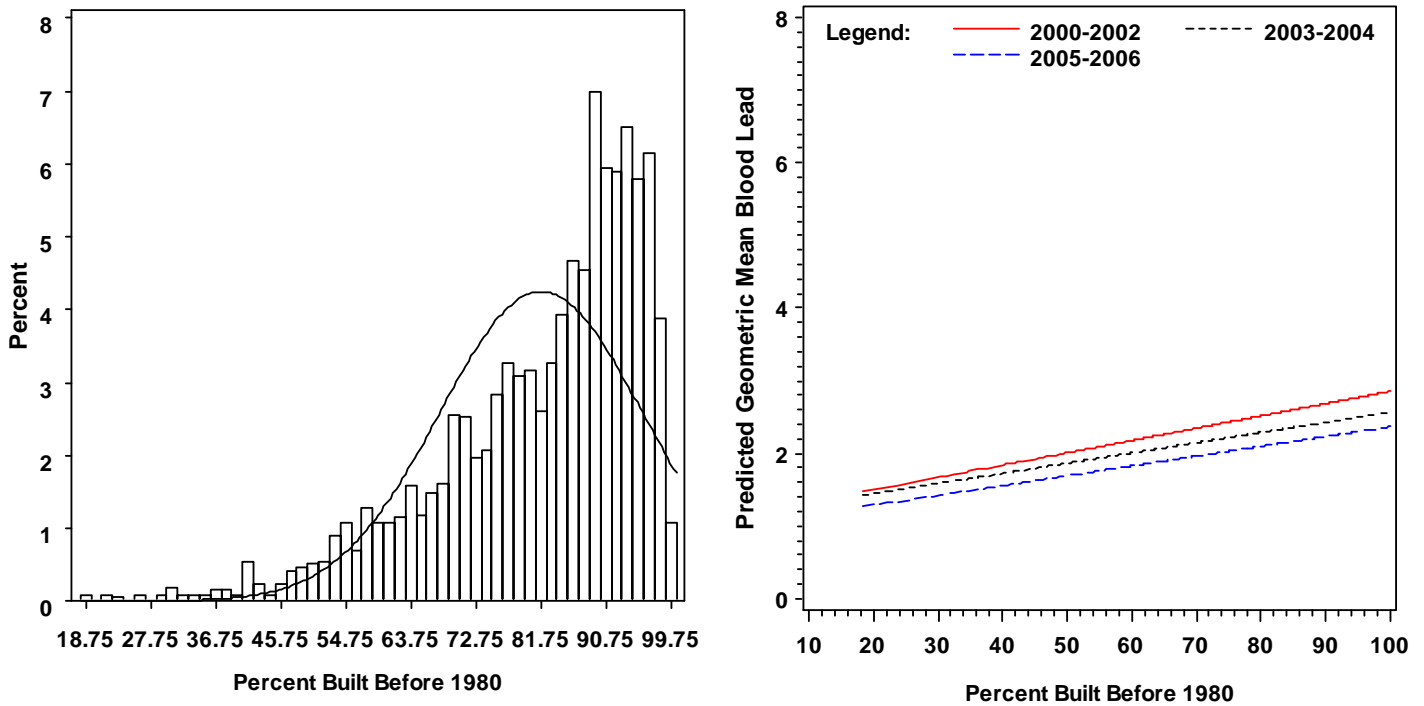


Figure B.29. Percent Units Built Before 1980: Histogram and Linear Relationship with Percent Units Geometric Mean Blood Lead Levels by Time

Table B.29a. Summary Information for Percent Units Built Before 1980 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	81.79	0.11	18.4	61.2	74.1	85.9	92.6	96.3	100.0
2003-2004	10450	0	81.78	0.14	18.4	61.2	74.1	85.9	92.6	96.3	100.0
2005-2006	10417	0	81.77	0.14	18.4	61.2	74.1	85.9	92.6	96.3	100.0
All Years	36484	0	81.78	0.07	18.4	61.2	74.1	85.9	92.6	96.3	100.0

Table B.29b. Model Information for the Relationship between Percent Units Built Before 1980 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.017	<.001	52073	$\sigma_{11}^2 = 0.336$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Built_Pre_1980	1.298	0.085	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.016	<.001	48491	$\sigma_{11}^2 = 0.324$	$\sigma_{\text{error}}^2 = 4.430$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_Built_Pre_1980	1.355	0.085	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.733	0.016	<.001	86850	$\sigma_{11}^2 = 0.287$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Pct_Built_Pre_1980	2.009	0.108	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.638	0.023	<.001	139771	$\sigma_{11}^2 = 0.403$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.018$	
	Pct_Built_Pre_1980	2.310	0.134	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.936	0.030	<.001	177896	$\sigma_{11}^2 = 0.363$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Built_Pre_1980	2.122	0.154	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Occupied Units Built Before 1940

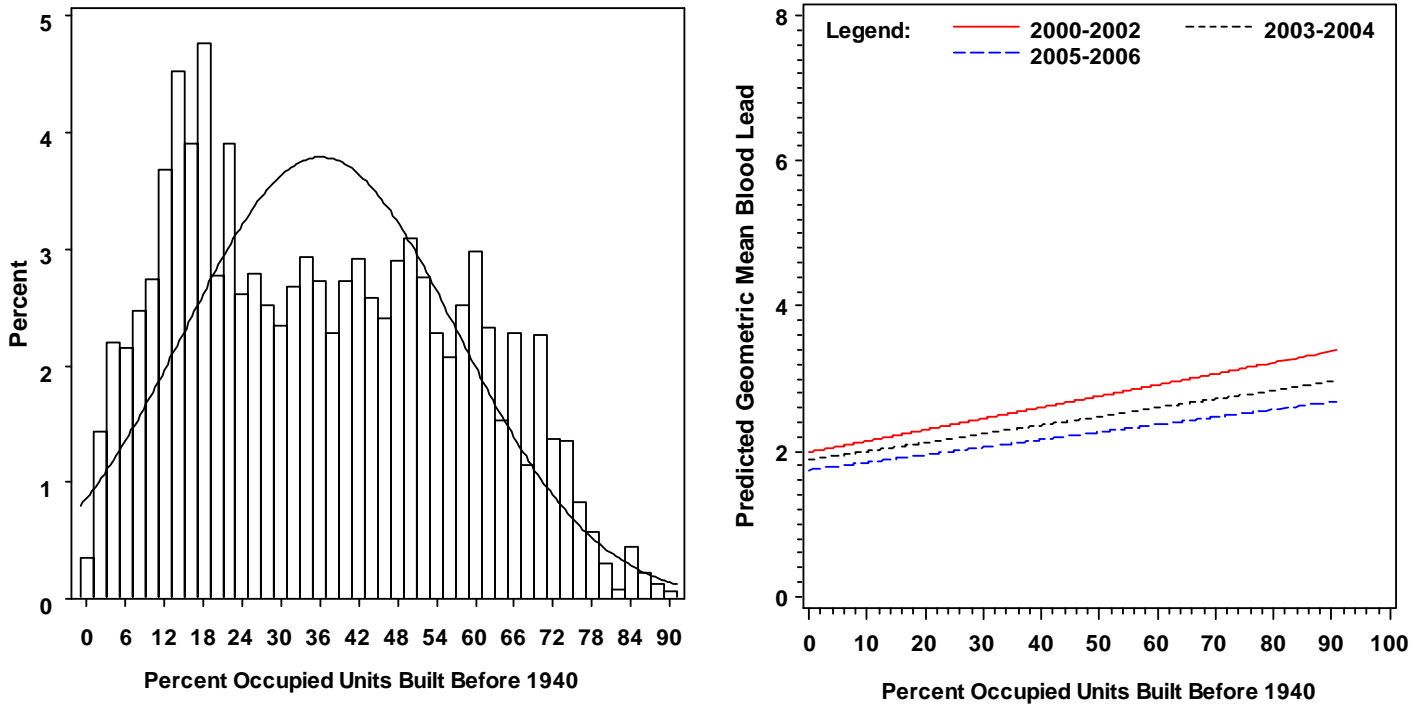


Figure B.30. Percent Occupied Units Built Before 1940: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.30a. Summary Information for Percent Occupied Units Built Before 1940 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	36.13	0.17	0.0	10.2	17.5	34.4	52.9	65.9	90.7
2003-2004	10450	0	36.12	0.21	0.0	10.2	17.5	34.4	52.8	65.8	90.7
2005-2006	10417	0	36.11	0.21	0.0	10.2	17.5	34.4	52.9	65.8	90.7
All Years	36484	0	36.12	0.11	0.0	10.2	17.5	34.4	52.9	65.8	90.7

Table B.30b. Model Information for the Relationship between Percent Occupied Units Built Before 1940 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.015	<.001	51931	$\sigma_{11}^2 = 0.283$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Occ_Built_Pre_19	1.134	0.054	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.635	0.015	<.001	48342	$\sigma_{11}^2 = 0.273$	$\sigma_{\text{error}}^2 = 4.431$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Occ_Built_Pre_19	1.171	0.054	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.731	0.014	<.001	86512	$\sigma_{11}^2 = 0.214$	
	time	-0.141	0.002	<.001	.	$\sigma_{21}^2 = -0.003$	
	Pct_Occ_Built_Pre_19	1.802	0.064	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.631	0.021	<.001	139476	$\sigma_{11}^2 = 0.295$	
	time	-0.131	0.004	<.001	.	$\sigma_{21}^2 = -0.015$	
	Pct_Occ_Built_Pre_19	2.070	0.077	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.934	0.029	<.001	178078	$\sigma_{11}^2 = 0.303$	
	time	-0.099	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Occ_Built_Pre_19	1.762	0.091	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Occupied Units Built Before 1950

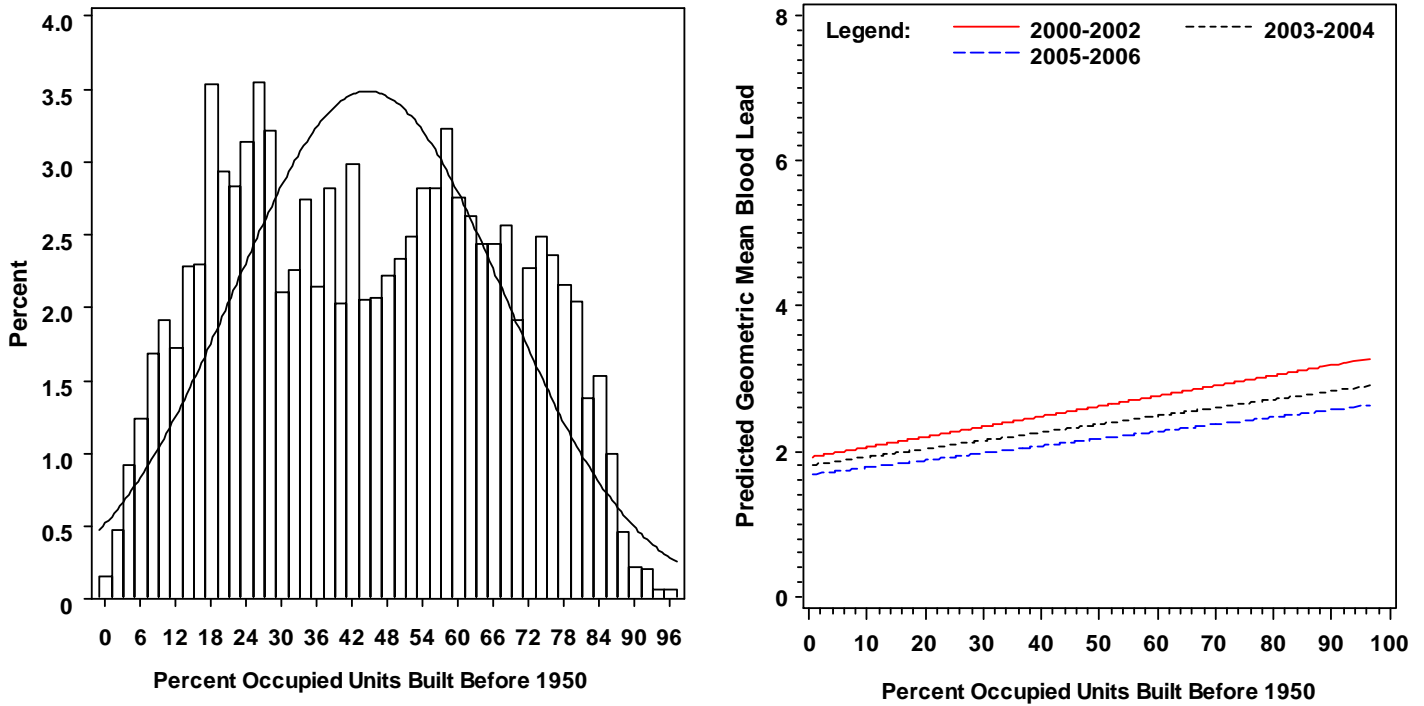


Figure B.31. Percent Occupied Units Built Before 1950: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.31a. Summary Information for Percent Occupied Units Built Before 1950 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	44.65	0.18	0.5	14.4	24.9	44.2	63.7	76.4	96.5
2003-2004	10450	0	44.63	0.22	0.5	14.4	24.9	44.2	63.7	76.4	96.5
2005-2006	10417	0	44.61	0.22	0.5	14.4	24.9	44.2	63.7	76.4	96.5
All Years	36484	0	44.63	0.12	0.5	14.4	24.9	44.2	63.7	76.4	96.5

Table B.31b. Model Information for the Relationship between Percent Occupied Units Built Before 1950 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.015	<.001	51911	$\sigma_{11}^2 = 0.285$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Occ_Built_Pre_19	1.061	0.050	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.015	<.001	48321	$\sigma_{11}^2 = 0.274$	$\sigma_{\text{error}}^2 = 4.431$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Occ_Built_Pre_19	1.095	0.049	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.731	0.014	<.001	86498	$\sigma_{11}^2 = 0.210$	
	time	-0.141	0.002	<.001	.	$\sigma_{21}^2 = -0.003$	
	Pct_Occ_Built_Pre_19	1.687	0.058	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.632	0.021	<.001	139549	$\sigma_{11}^2 = 0.293$	
	time	-0.131	0.004	<.001	.	$\sigma_{21}^2 = -0.015$	
	Pct_Occ_Built_Pre_19	1.918	0.071	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.935	0.029	<.001	178149	$\sigma_{11}^2 = 0.303$	
	time	-0.099	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	Pct_Occ_Built_Pre_19	1.627	0.084	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Occupied Units Built Before 1960

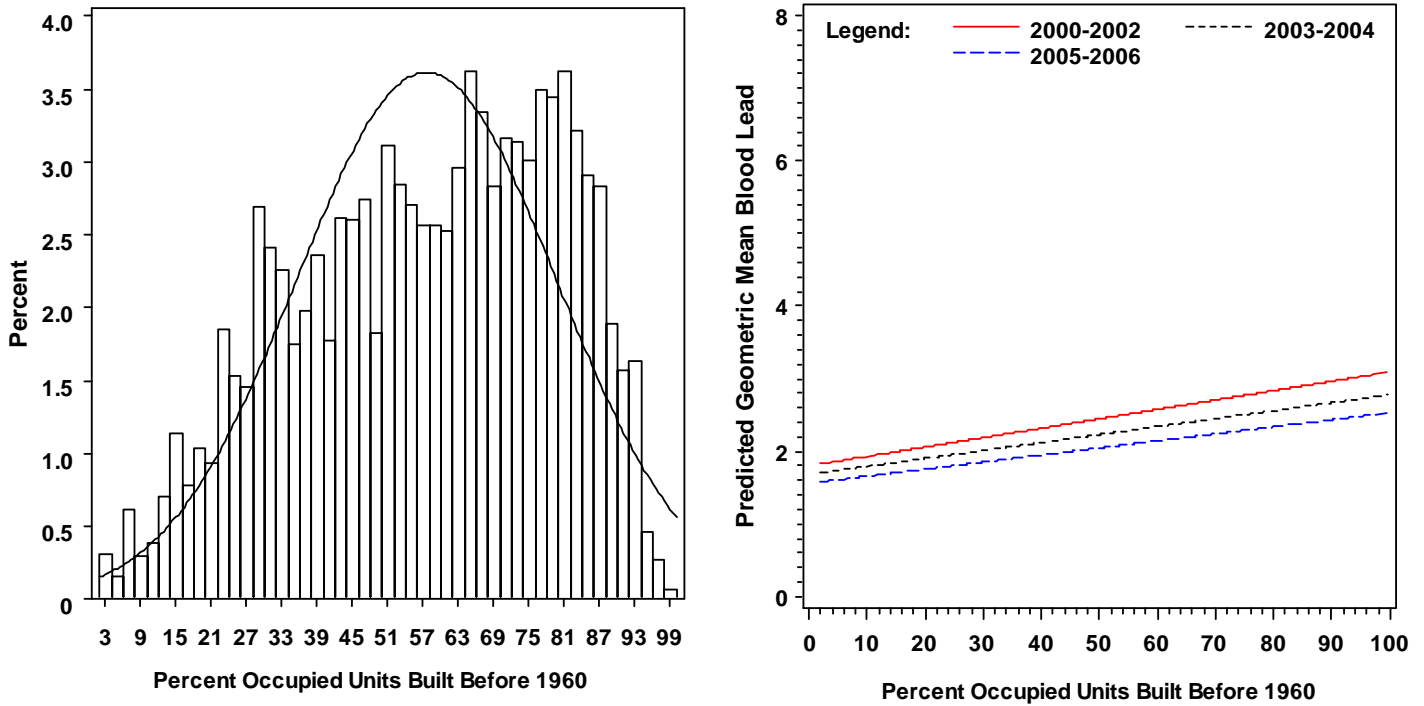


Figure B.32. Percent Occupied Units Built Before 1960: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.32a. Summary Information for Percent Occupied Units Built Before 1960 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	57.57	0.18	2.1	26.5	40.2	60.1	76.3	85.2	99.4
2003-2004	10450	0	57.54	0.22	2.1	26.4	40.1	60.1	76.3	85.2	99.4
2005-2006	10417	0	57.54	0.22	2.1	26.4	40.1	60.1	76.3	85.1	99.4
All Years	36484	0	57.55	0.12	2.1	26.4	40.1	60.1	76.3	85.2	99.4

Table B.32b. Model Information for the Relationship between Percent Occupied Units Built Before 1960 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.016	<.001	51976	$\sigma_{11}^2 = 0.309$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_Occ_Built_Pre_19	0.996	0.053	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.016	<.001	48390	$\sigma_{11}^2 = 0.297$	$\sigma_{\text{error}}^2 = 4.430$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.024$	
	Pct_Occ_Built_Pre_19	1.032	0.052	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.732	0.015	<.001	86675	$\sigma_{11}^2 = 0.245$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Pct_Occ_Built_Pre_19	1.571	0.064	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.637	0.022	<.001	139713	$\sigma_{11}^2 = 0.345$	
	time	-0.130	0.004	<.001	.	$\sigma_{21}^2 = -0.017$	
	Pct_Occ_Built_Pre_19	1.790	0.079	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.938	0.030	<.001	178044	$\sigma_{11}^2 = 0.338$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Occ_Built_Pre_19	1.545	0.092	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Occupied Units Built Before 1970

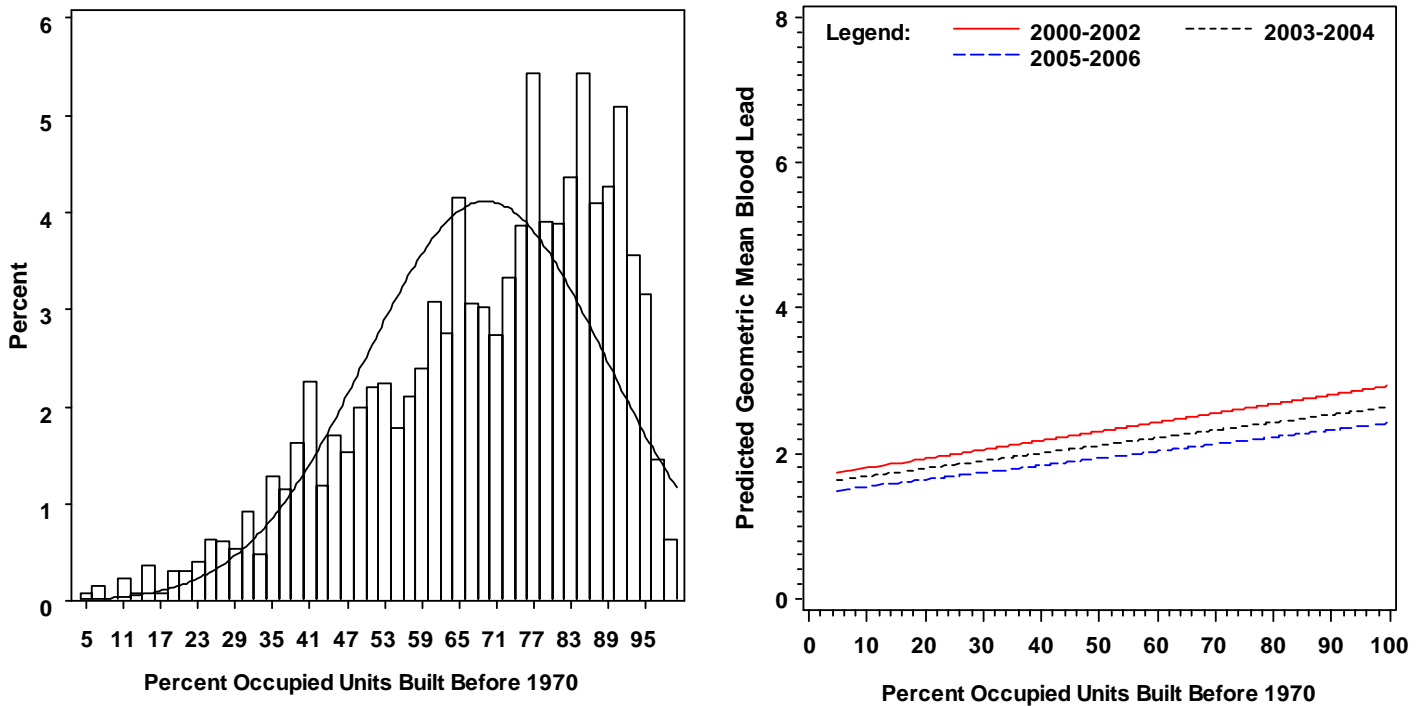


Figure B.33. Percent Occupied Units Built Before 1970: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.33a. Summary Information for Percent Occupied Units Built Before 1970 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	69.33	0.16	4.9	40.6	56.5	73.6	85.1	91.5	99.4
2003-2004	10450	0	69.31	0.19	4.9	40.6	56.5	73.6	85.1	91.5	99.4
2005-2006	10417	0	69.32	0.19	4.9	40.6	56.5	73.7	85.1	91.5	99.4
All Years	36484	0	69.32	0.10	4.9	40.6	56.5	73.6	85.1	91.5	99.4

Table B.33b. Model Information for the Relationship between Percent Occupied Units Built Before 1970 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.016	<.001	52070	$\sigma_{11}^2 = 0.333$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Occ_Built_Pre_19	0.952	0.062	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.016	<.001	48486	$\sigma_{11}^2 = 0.321$	$\sigma_{\text{error}}^2 = 4.430$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_Occ_Built_Pre_19	0.998	0.062	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.732	0.016	<.001	86830	$\sigma_{11}^2 = 0.278$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Pct_Occ_Built_Pre_19	1.523	0.078	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.637	0.022	<.001	139799	$\sigma_{11}^2 = 0.388$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.017$	
	Pct_Occ_Built_Pre_19	1.753	0.095	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.938	0.030	<.001	177979	$\sigma_{11}^2 = 0.361$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Occ_Built_Pre_19	1.568	0.109	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Occupied Units Built Before 1980

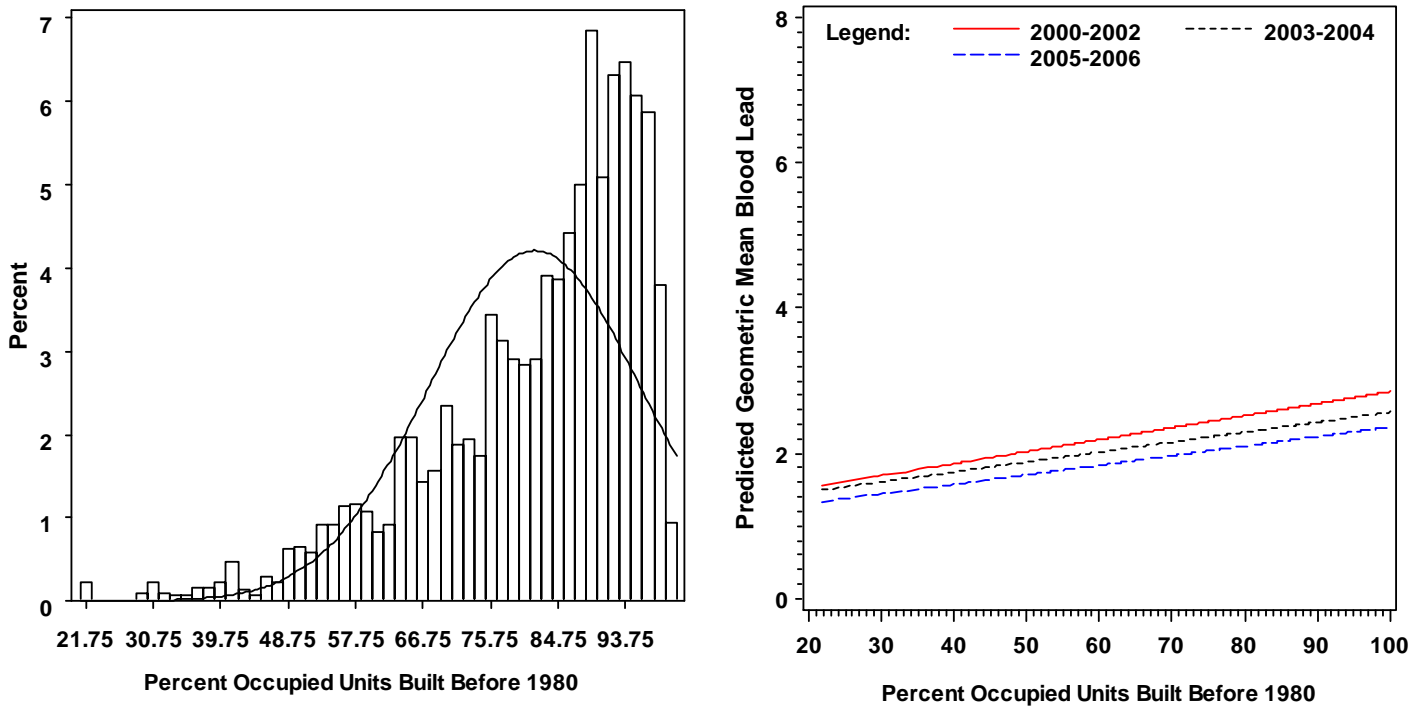


Figure B.34. Percent Occupied Units Built Before 1980: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.34a. Summary Information for Percent Occupied Units Built Before 1980 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	81.60	0.11	21.7	61.1	74.2	85.7	92.5	96.1	100.0
2003-2004	10450	0	81.58	0.14	21.7	61.0	74.1	85.7	92.5	96.2	100.0
2005-2006	10417	0	81.58	0.14	21.7	61.0	74.1	85.7	92.5	96.1	100.0
All Years	36484	0	81.59	0.07	21.7	61.0	74.1	85.7	92.5	96.1	100.0

Table B.34b. Model Information for the Relationship between Percent Occupied Units Built Before 1980 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.017	<.001	52084	$\sigma_{11}^2 = 0.338$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Pct_Occ_Built_Pre_19	1.256	0.085	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.016	<.001	48501	$\sigma_{11}^2 = 0.326$	$\sigma_{\text{error}}^2 = 4.430$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Pct_Occ_Built_Pre_19	1.314	0.085	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.732	0.016	<.001	86860	$\sigma_{11}^2 = 0.289$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Pct_Occ_Built_Pre_19	1.967	0.108	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.638	0.023	<.001	139777	$\sigma_{11}^2 = 0.405$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.018$	
	Pct_Occ_Built_Pre_19	2.263	0.133	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.937	0.030	<.001	177867	$\sigma_{11}^2 = 0.366$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_Occ_Built_Pre_19	2.075	0.153	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Residents Less than Six Years of Age

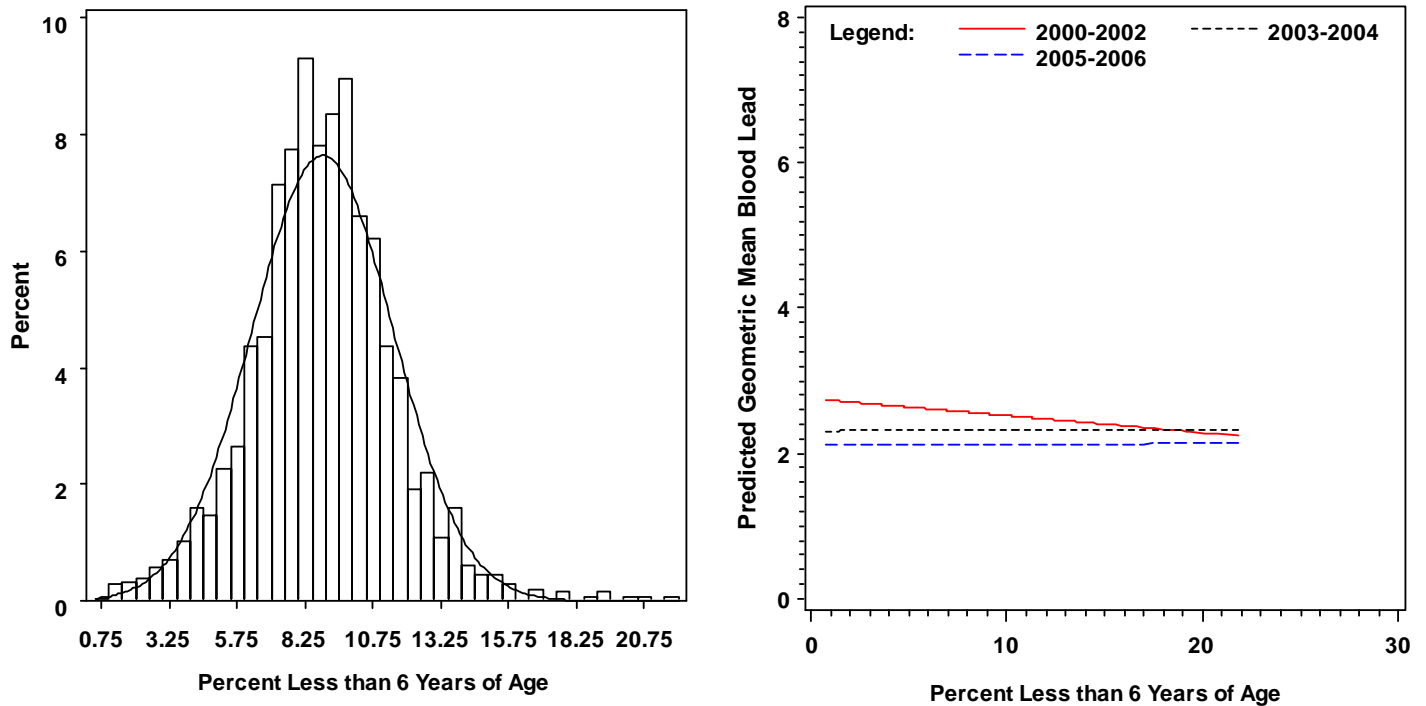


Figure B.35. Percent Residents Less than Six Years of Age: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.35a. Summary Information for Percent Residents Less than Six Years of Age by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	8.89	0.02	0.8	5.8	7.3	8.9	10.4	11.9	21.8
2003-2004	10450	0	8.89	0.03	0.8	5.8	7.3	8.9	10.4	11.9	21.8
2005-2006	10417	0	8.88	0.03	0.8	5.8	7.3	8.9	10.4	11.9	21.8
All Years	36484	0	8.89	0.01	0.8	5.8	7.3	8.9	10.4	11.9	21.8

Table B.35b. Model Information for the Relationship between Percent Residents Less than Six Years of Age and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52280	$\sigma_{11}^2 = 0.388$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_LE_Six	0.161	0.494	0.745	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48714	$\sigma_{11}^2 = 0.379$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_LE_Six	0.096	0.502	0.848	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87127	$\sigma_{11}^2 = 0.373$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	Pct_LE_Six	-0.851	0.651	0.191	.	$\sigma_{22}^2 = 0.004$	
4			
			
			
5	Intercept	-4.949	0.032	<.001	177615	$\sigma_{11}^2 = 0.489$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	Pct_LE_Six	1.287	0.865	0.137	.	$\sigma_{22}^2 = 0.003$	

Number Residents Less than Six Years of Age

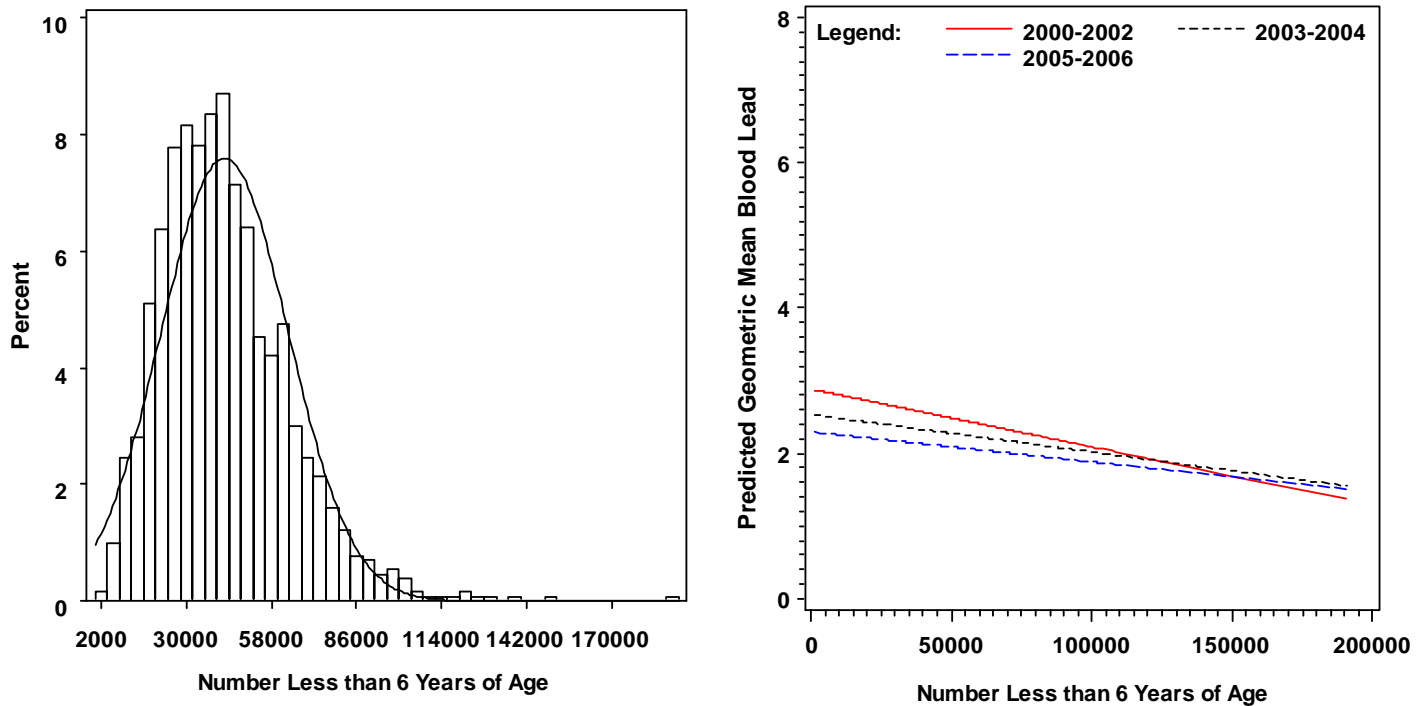


Figure B.36. Number Residents Less than Six Years of Age: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.36a. Summary Information for Number Residents Less than Six Years of Age by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	42635	168	1600	18800	27600	40000	54400	69600	190800
2003-2004	10450	0	42582	205	1400	18800	27500	39900	54200	69600	190800
2005-2006	10417	0	42621	206	1400	18800	27600	39900	54400	69600	190800
All Years	36484	0	42616	110	1400	18800	27500	39900	54400	69600	190800

Table B.36b. Model Information for the Relationship between Number Residents Less than Six Years of Age and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.645	0.017	<.001	52243	$\sigma_{11}^2 = 0.360$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Num_LE_Six	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.633	0.017	<.001	48678	$\sigma_{11}^2 = 0.353$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Num_LE_Six	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.732	0.017	<.001	86913	$\sigma_{11}^2 = 0.344$	
	time	-0.141	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Num_LE_Six	-0.001	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.636	0.024	<.001	138996	$\sigma_{11}^2 = 0.497$	
	time	-0.127	0.004	<.001	.	$\sigma_{21}^2 = -0.020$	
	Num_LE_Six	-0.001	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5			
			
			

Percent Residents with Less than Ninth Grade Education

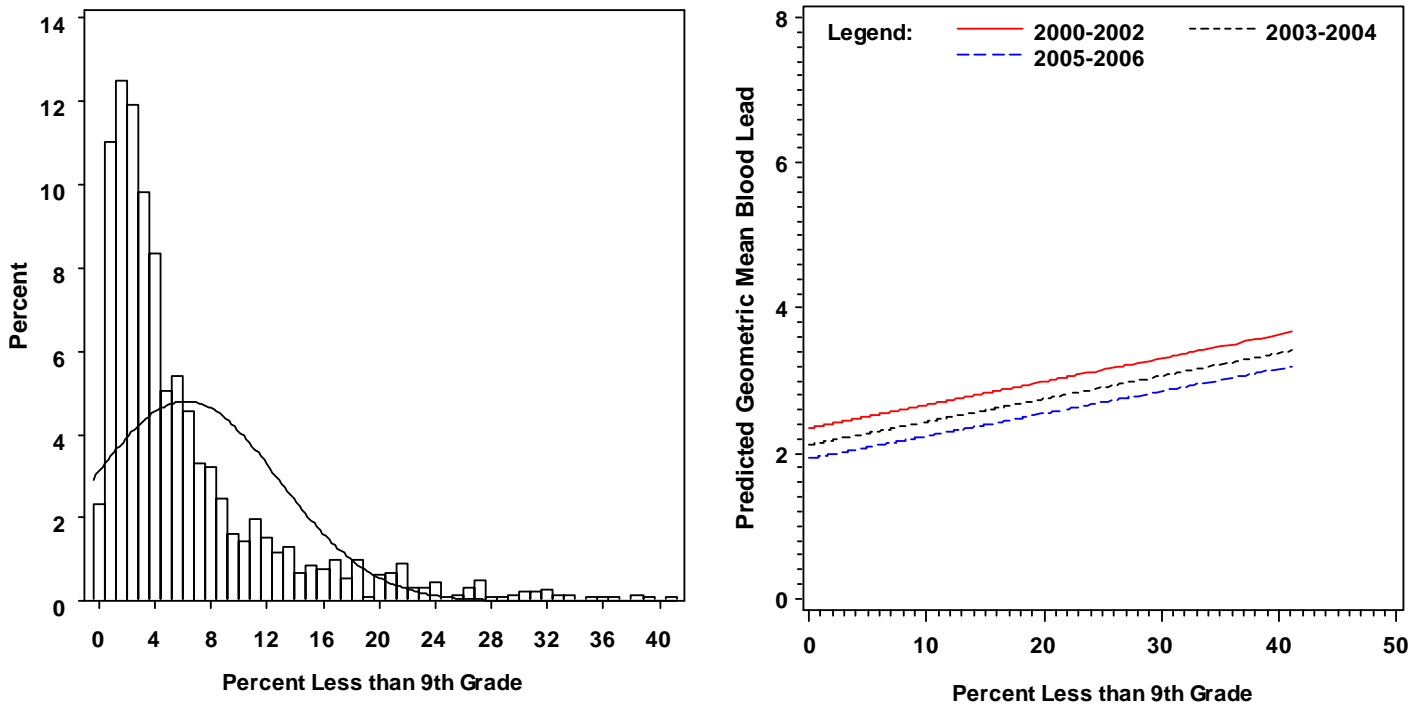


Figure B.37. Percent Residents with Less than Ninth Grade Education: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.37a. Summary Information for Percent Residents with Less than Ninth Grade Education by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	6.22	0.05	0.0	1.0	2.0	3.8	7.7	15.2	41.2
2003-2004	10450	0	6.20	0.06	0.0	0.9	1.9	3.8	7.7	15.1	41.2
2005-2006	10417	0	6.21	0.07	0.0	0.9	1.9	3.8	7.7	15.2	41.2
All Years	36484	0	6.21	0.03	0.0	1.0	1.9	3.8	7.7	15.1	41.2

Table B.37b. Model Information for the Relationship between Percent Residents with Less than Ninth Grade Education and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.017	<.001	52007	$\sigma_{11}^2 = 0.347$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_LT_9th_Grade	3.135	0.179	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.017	<.001	48436	$\sigma_{11}^2 = 0.336$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_LT_9th_Grade	3.173	0.179	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.016	<.001	86829	$\sigma_{11}^2 = 0.301$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.008$	
	Pct_LT_9th_Grade	4.259	0.228	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.643	0.023	<.001	139727	$\sigma_{11}^2 = 0.437$	
	time	-0.128	0.004	<.001	.	$\sigma_{21}^2 = -0.020$	
	Pct_LT_9th_Grade	4.305	0.270	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.944	0.031	<.001	177859	$\sigma_{11}^2 = 0.405$	
	time	-0.097	0.007	<.001	.	$\sigma_{21}^2 = -0.024$	
	Pct_LT_9th_Grade	3.405	0.291	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Residents without a High School Degree

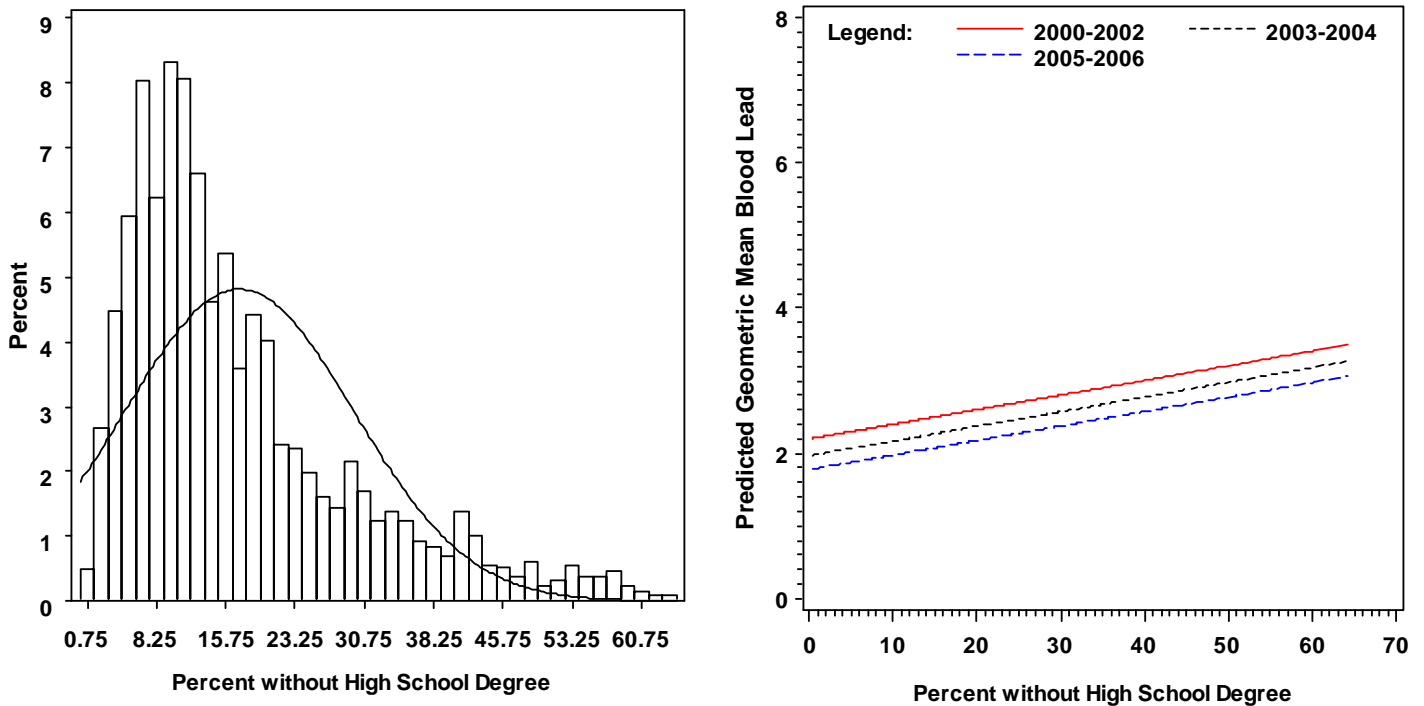


Figure B.38. Percent Residents without a High School Degree: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.38a. Summary Information for Percent Residents without a High School Degree by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	17.23	0.10	0.4	5.2	8.5	13.3	22.4	35.8	64.3
2003-2004	10450	0	17.19	0.12	0.4	5.1	8.3	13.3	22.3	35.7	64.3
2005-2006	10417	0	17.21	0.12	0.4	5.1	8.3	13.3	22.3	35.8	64.3
All Years	36484	0	17.21	0.07	0.4	5.2	8.3	13.3	22.3	35.8	64.3

Table B.38b. Model Information for the Relationship between Percent Residents without a High School Degree and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.016	<.001	51853	$\sigma_{11}^2 = 0.331$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_No_HS_Degree	2.038	0.090	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.638	0.016	<.001	48280	$\sigma_{11}^2 = 0.320$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Pct_No_HS_Degree	2.061	0.090	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.737	0.016	<.001	86710	$\sigma_{11}^2 = 0.271$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.009$	
	Pct_No_HS_Degree	2.713	0.115	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.643	0.022	<.001	139858	$\sigma_{11}^2 = 0.394$	
	time	-0.128	0.004	<.001	.	$\sigma_{21}^2 = -0.019$	
	Pct_No_HS_Degree	2.731	0.139	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.947	0.030	<.001	178347	$\sigma_{11}^2 = 0.366$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_No_HS_Degree	2.249	0.153	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Residents without College Education

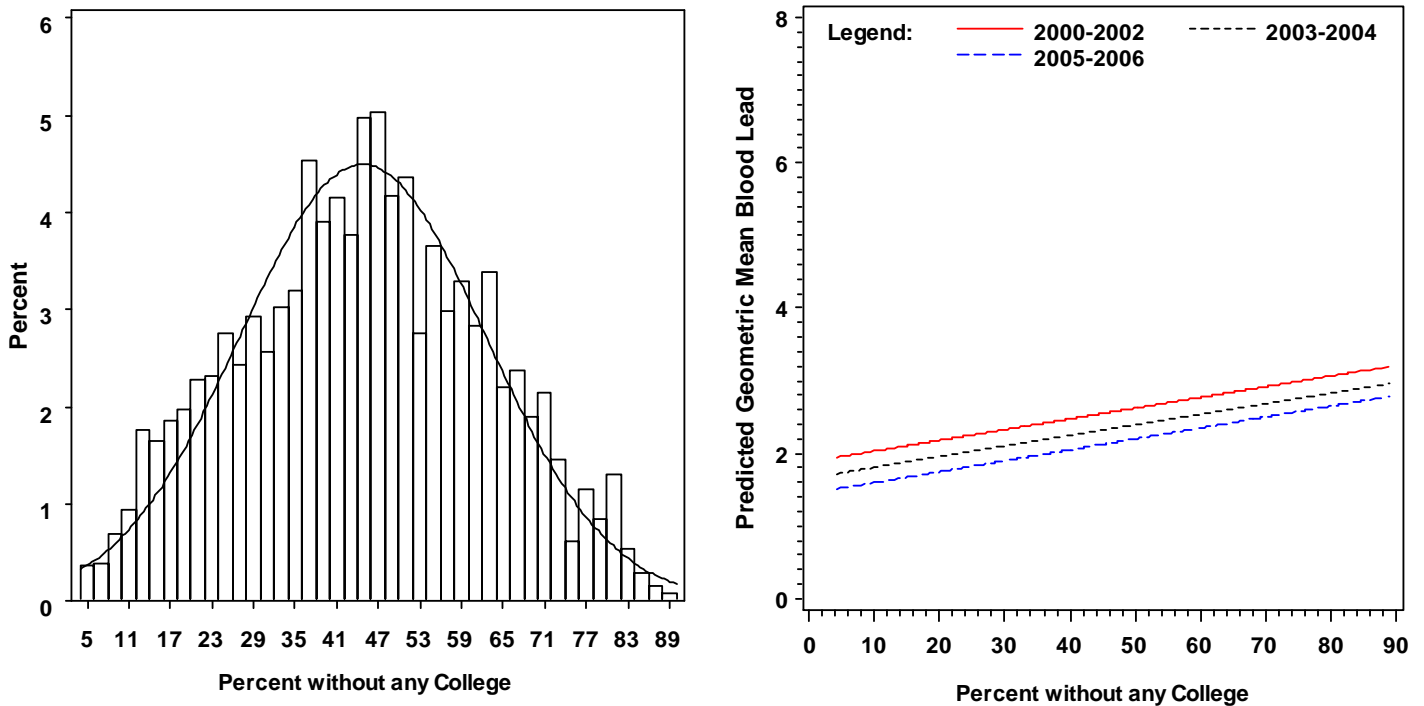


Figure B.39. Percent Residents without College Education: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.39a. Summary Information for Percent Residents without College Education by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	44.81	0.14	4.2	20.5	32.1	45.1	57.6	68.5	88.8
2003-2004	10450	0	44.74	0.17	4.2	20.5	32.0	45.1	57.6	68.4	88.8
2005-2006	10417	0	44.75	0.17	4.2	20.5	32.0	45.0	57.6	68.5	88.8
All Years	36484	0	44.77	0.09	4.2	20.5	32.1	45.1	57.6	68.5	88.8

Table B.39b. Model Information for the Relationship between Percent Residents without College Education and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.652	0.016	<.001	51787	$\sigma_{11}^2 = 0.326$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.029$	
	Pct_No_College	1.510	0.061	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.639	0.016	<.001	48218	$\sigma_{11}^2 = 0.315$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_No_College	1.524	0.062	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.739	0.016	<.001	86729	$\sigma_{11}^2 = 0.261$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.009$	
	Pct_No_College	2.011	0.079	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.022	<.001	140104	$\sigma_{11}^2 = 0.389$	
	time	-0.128	0.004	<.001	.	$\sigma_{21}^2 = -0.019$	
	Pct_No_College	2.020	0.100	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.951	0.030	<.001	178689	$\sigma_{11}^2 = 0.363$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.023$	
	Pct_No_College	1.692	0.115	<.001	.	$\sigma_{22}^2 = 0.003$	

Percent Residents without College Degree

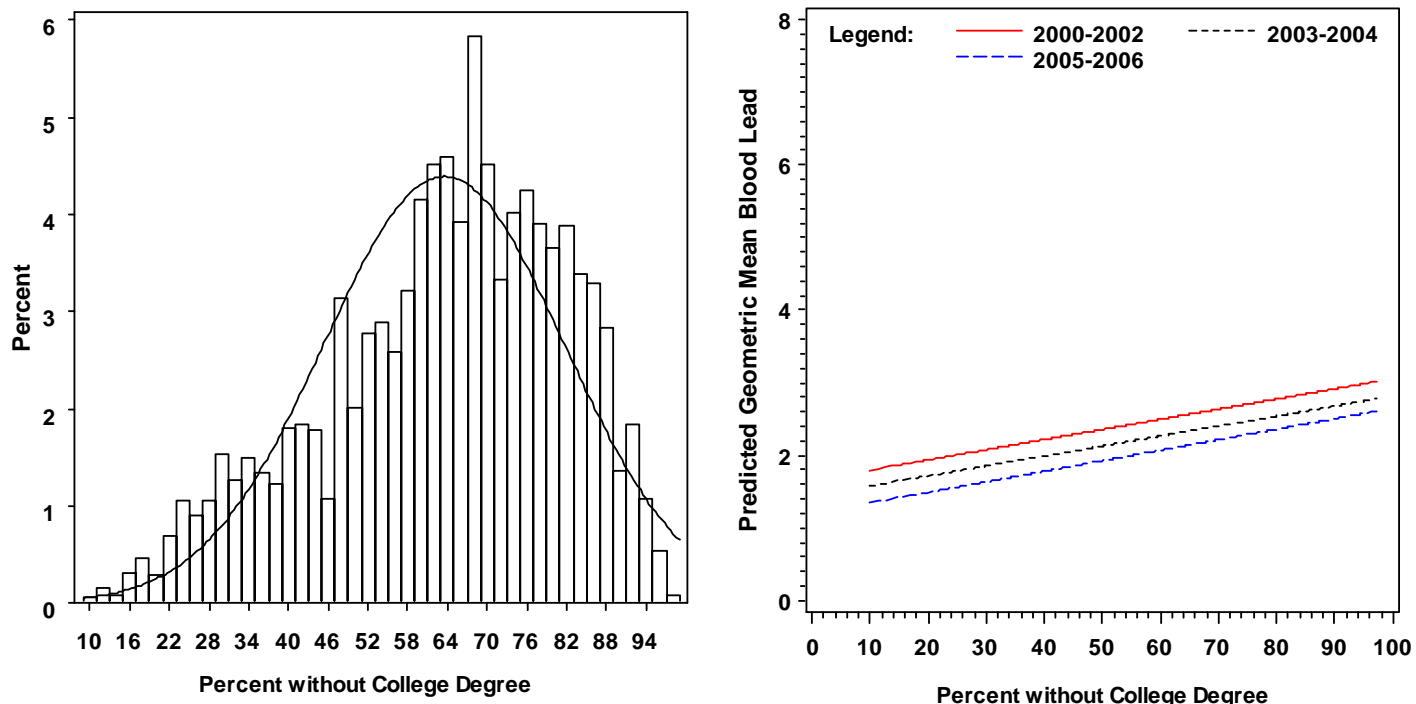


Figure B.40. Percent Residents without College Degree: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.40a. Summary Information for Percent Residents without College Degree by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	63.51	0.15	9.9	35.9	52.3	66.0	77.5	85.5	97.2
2003-2004	10450	0	63.46	0.18	9.9	36.0	52.1	65.9	77.4	85.4	97.2
2005-2006	10417	0	63.45	0.18	9.9	36.0	52.2	65.9	77.4	85.4	97.2
All Years	36484	0	63.48	0.10	9.9	36.0	52.2	66.0	77.4	85.5	97.2

Table B.40b. Model Information for the Relationship between Percent Residents without College Degree and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.651	0.016	<.001	51822	$\sigma_{11}^2 = 0.331$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.029$	
	Pct_No_College_Degree	1.433	0.061	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.638	0.016	<.001	48251	$\sigma_{11}^2 = 0.320$	$\sigma_{error}^2 = 4.428$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	Pct_No_College_Degree	1.450	0.061	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.739	0.016	<.001	86760	$\sigma_{11}^2 = 0.268$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.009$	
	Pct_No_College_Degree	1.910	0.079	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.648	0.023	<.001	140085	$\sigma_{11}^2 = 0.402$	
	time	-0.128	0.004	<.001	.	$\sigma_{21}^2 = -0.020$	
	Pct_No_College_Degree	1.926	0.100	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.951	0.031	<.001	178626	$\sigma_{11}^2 = 0.370$	
	time	-0.097	0.007	<.001	.	$\sigma_{21}^2 = -0.024$	
	Pct_No_College_Degree	1.622	0.116	<.001	.	$\sigma_{22}^2 = 0.003$	

Total Housing Units

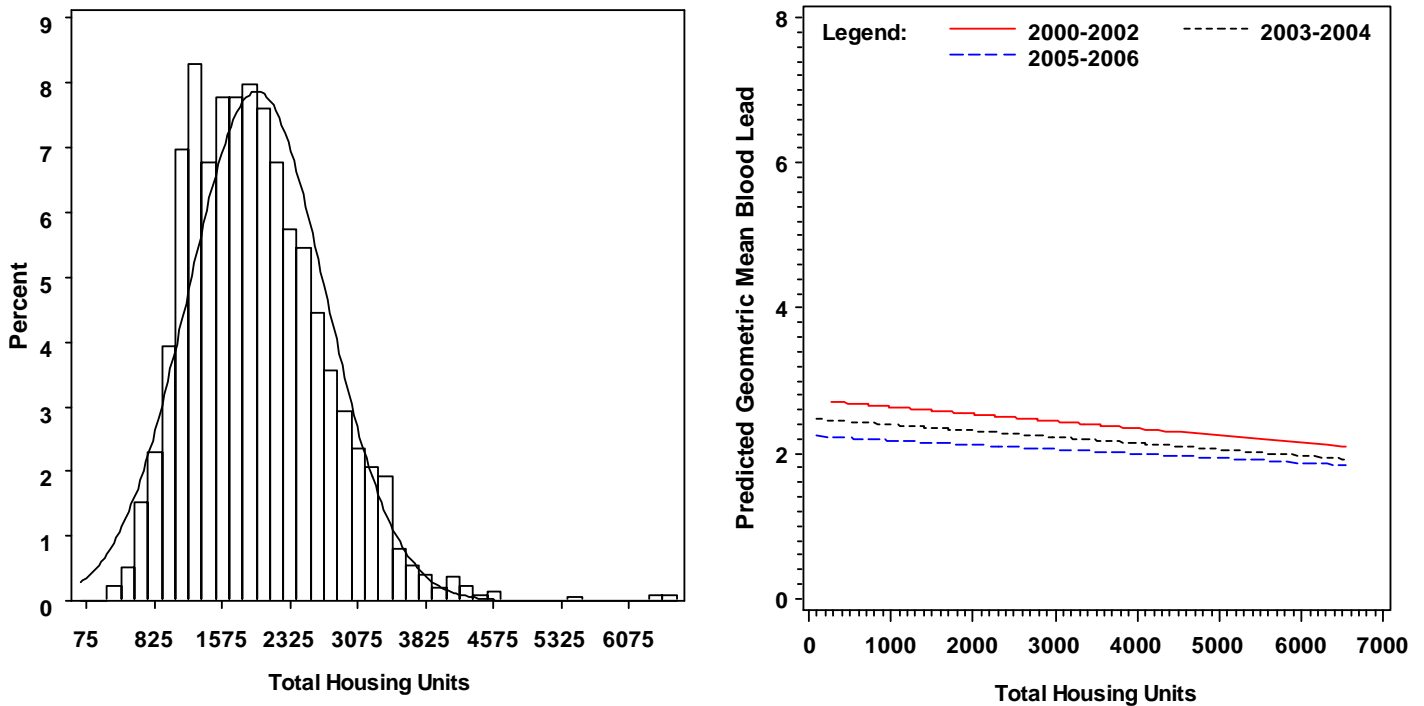


Figure B.41. Total Housing Units: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.41a. Summary Information for Total Housing Units by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	1954	6	262.0	1084.0	1375.0	1869.0	2414.0	2971.0	6549.0
2003-2004	10450	0	1955	7	85.0	1084.0	1375.0	1868.0	2414.0	2971.0	6549.0
2005-2006	10417	0	1956	7	85.0	1084.0	1376.0	1869.0	2415.0	2971.0	6549.0
All Years	36484	0	1955	4	85.0	1084.0	1375.0	1869.0	2414.0	2971.0	6549.0

Table B.41b. Model Information for the Relationship between Total Housing Units and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.648	0.018	<.001	52287	$\sigma_{11}^2 = 0.382$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Total_Housing_Units	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.017	<.001	48721	$\sigma_{11}^2 = 0.374$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Total_Housing_Units	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.733	0.018	<.001	87091	$\sigma_{11}^2 = 0.364$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Total_Housing_Units	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.642	0.024	<.001	139462	$\sigma_{11}^2 = 0.519$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	Total_Housing_Units	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.933	0.031	<.001	176701	$\sigma_{11}^2 = 0.456$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.027$	
	Total_Housing_Units	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Total Population

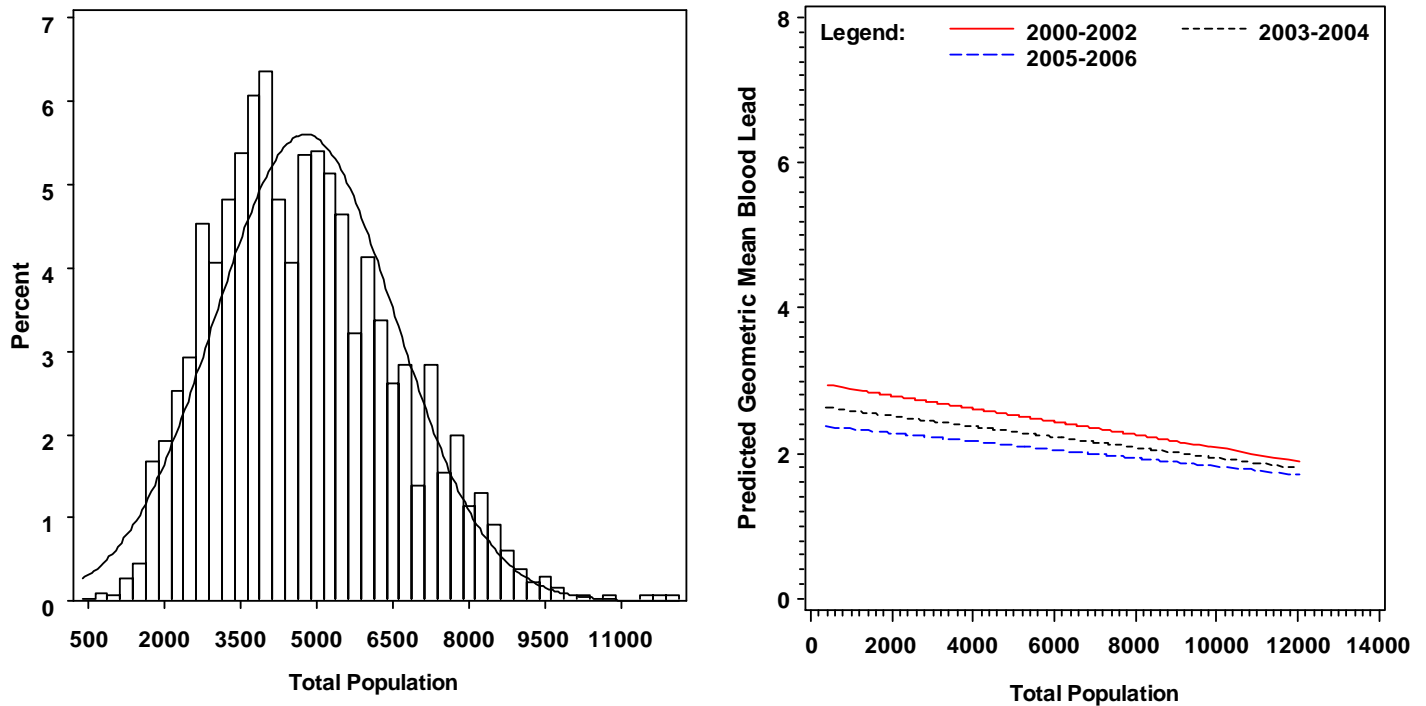


Figure B.42. Total Population: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.42a. Summary Information for Total Population by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	4773	14	405.0	2622.0	3451.0	4611.0	5945.0	7277.0	12051.0
2003-2004	10450	0	4770	17	388.0	2630.0	3448.0	4610.0	5942.0	7277.0	12051.0
2005-2006	10417	0	4773	17	388.0	2635.0	3451.0	4616.0	5945.0	7277.0	12051.0
All Years	36484	0	4772	9	388.0	2630.0	3448.0	4611.0	5945.0	7277.0	12051.0

Table B.42b. Model Information for the Relationship between Total Population and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.645	0.017	<.001	52223	$\sigma_{11}^2 = 0.359$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Total_Pop	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.632	0.017	<.001	48661	$\sigma_{11}^2 = 0.353$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	Total_Pop	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.733	0.017	<.001	86910	$\sigma_{11}^2 = 0.341$	
	time	-0.141	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Total_Pop	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.636	0.024	<.001	138948	$\sigma_{11}^2 = 0.487$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.021$	
	Total_Pop	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5			
			
			

Housing Density

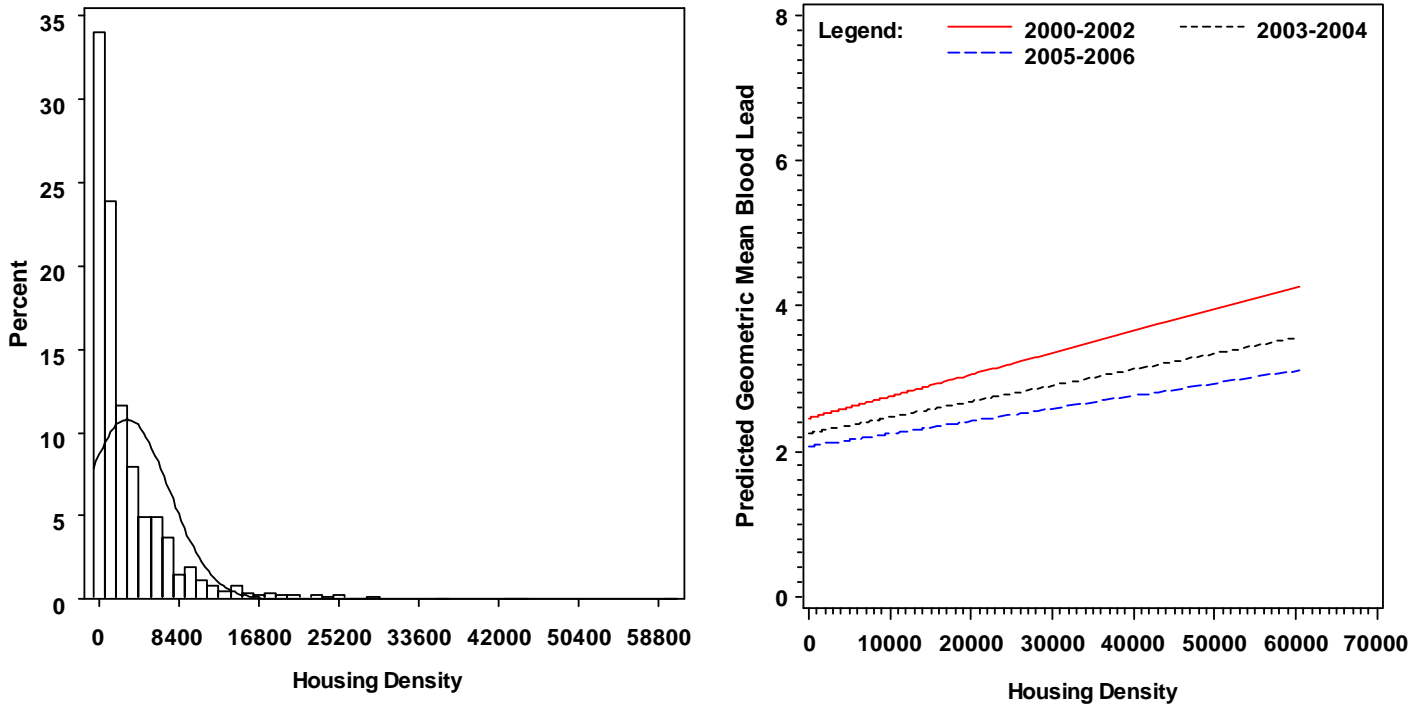


Figure B.43. Housing Density: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.43a. Summary Information for Housing Density by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	2935.7	35.7	10.3	144.8	370.6	1293.4	3766.4	7387.5	60388.6
2003-2004	10450	0	2933.1	43.6	10.3	144.8	362.2	1293.4	3766.4	7387.5	60388.6
2005-2006	10417	0	2921.4	43.0	10.3	145.3	370.6	1293.4	3766.4	7387.5	60388.6
All Years	36484	0	2930.9	23.2	10.3	144.8	364.7	1293.4	3766.4	7387.5	60388.6

Table B.43b. Model Information for the Relationship between Housing Density and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.648	0.017	<.001	52273	$\sigma_{11}^2 = 0.374$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	Housing_Density	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.635	0.017	<.001	48697	$\sigma_{11}^2 = 0.365$	$\sigma_{error}^2 = 4.429$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	Housing_Density	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.734	0.018	<.001	87068	$\sigma_{11}^2 = 0.353$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.005$	
	Housing_Density	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.643	0.024	<.001	139580	$\sigma_{11}^2 = 0.500$	
	time	-0.127	0.004	<.001	.	$\sigma_{21}^2 = -0.021$	
	Housing_Density	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.939	0.031	<.001	177260	$\sigma_{11}^2 = 0.450$	
	time	-0.095	0.007	<.001	.	$\sigma_{21}^2 = -0.027$	
	Housing_Density	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Air Dispersion (ASPEN) Model

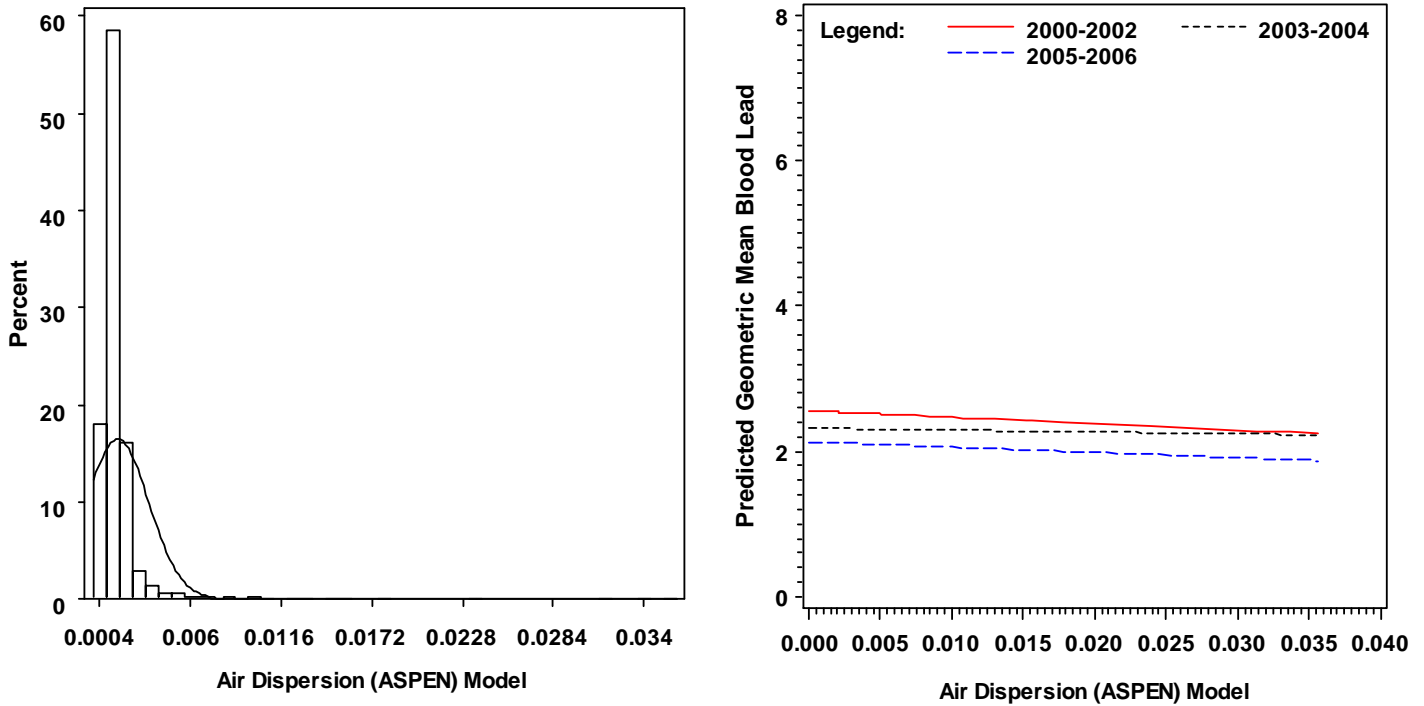


Figure B.44. Air Dispersion (ASPEN) Model: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.44a. Summary Information for Air Dispersion (ASPEN) Model by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	0.0015	0.0000	0.0001	0.0006	0.0009	0.0012	0.0016	0.0022	0.0356
2003-2004	10450	0	0.0015	0.0000	0.0001	0.0006	0.0009	0.0012	0.0016	0.0021	0.0356
2005-2006	10417	0	0.0015	0.0000	0.0001	0.0006	0.0009	0.0012	0.0016	0.0022	0.0356
All Years Combined	36484	0	0.0015	0.0000	0.0001	0.0006	0.0009	0.0012	0.0016	0.0022	0.0356

Table B.44b. Model Information for the Relationship between Air Dispersion (ASPEN) Model and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52275	$\sigma_{11}^2 = 0.387$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	aspen	-3.315	6.448	0.607	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48708	$\sigma_{11}^2 = 0.379$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	aspen	-3.473	6.588	0.598	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87137	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	aspen	-1.779	8.535	0.835	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139740	$\sigma_{11}^2 = 0.541$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	aspen	-2.885	10.296	0.779	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177377	$\sigma_{11}^2 = 0.489$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	aspen	-2.154	10.895	0.843	.	$\sigma_{22}^2 = 0.003$	

Air Exposure (HAPEM5) Model

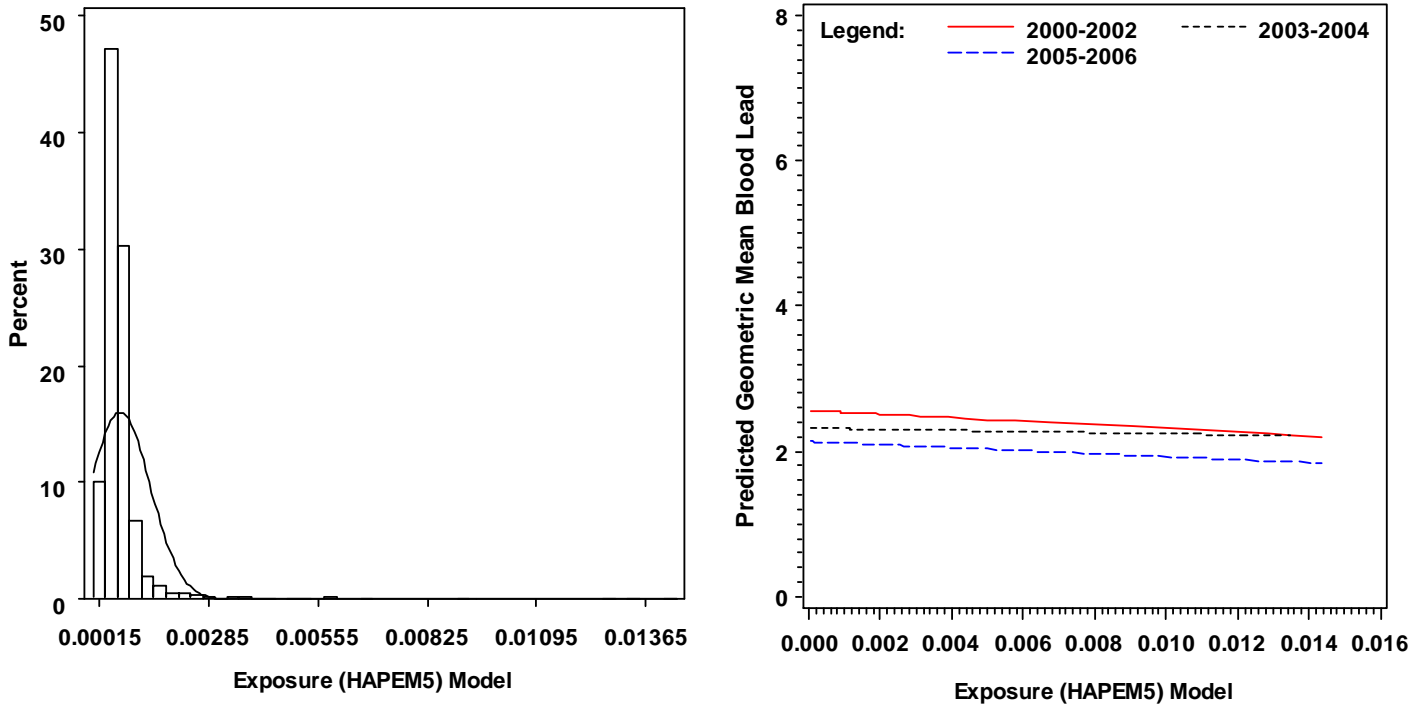


Figure B.45. Air Exposure (HAPEM5) Model: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.45a. Summary Information for Air Exposure (HAPEM5) Model by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	0.0007	0.0000	0.0000	0.0003	0.0004	0.0005	0.0007	0.0010	0.0144
2003-2004	10450	0	0.0007	0.0000	0.0000	0.0003	0.0004	0.0005	0.0007	0.0010	0.0135
2005-2006	10417	0	0.0007	0.0000	0.0000	0.0003	0.0004	0.0005	0.0007	0.0010	0.0144
All Years Combined	36484	0	0.0007	0.0000	0.0000	0.0003	0.0004	0.0005	0.0007	0.0010	0.0144

Table B.45b. Model Information for the Relationship between Air Exposure (HAPEM5) Model and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52273	$\sigma_{11}^2 = 0.387$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	hapem	-9.643	16.424	0.557	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48706	$\sigma_{11}^2 = 0.379$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	hapem	-10.194	16.931	0.547	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87135	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	hapem	-5.991	21.925	0.785	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139738	$\sigma_{11}^2 = 0.541$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	hapem	-8.459	26.690	0.751	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177375	$\sigma_{11}^2 = 0.489$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	hapem	-5.788	28.371	0.838	.	$\sigma_{22}^2 = 0.003$	

Air Hazard Quotient (HQ)

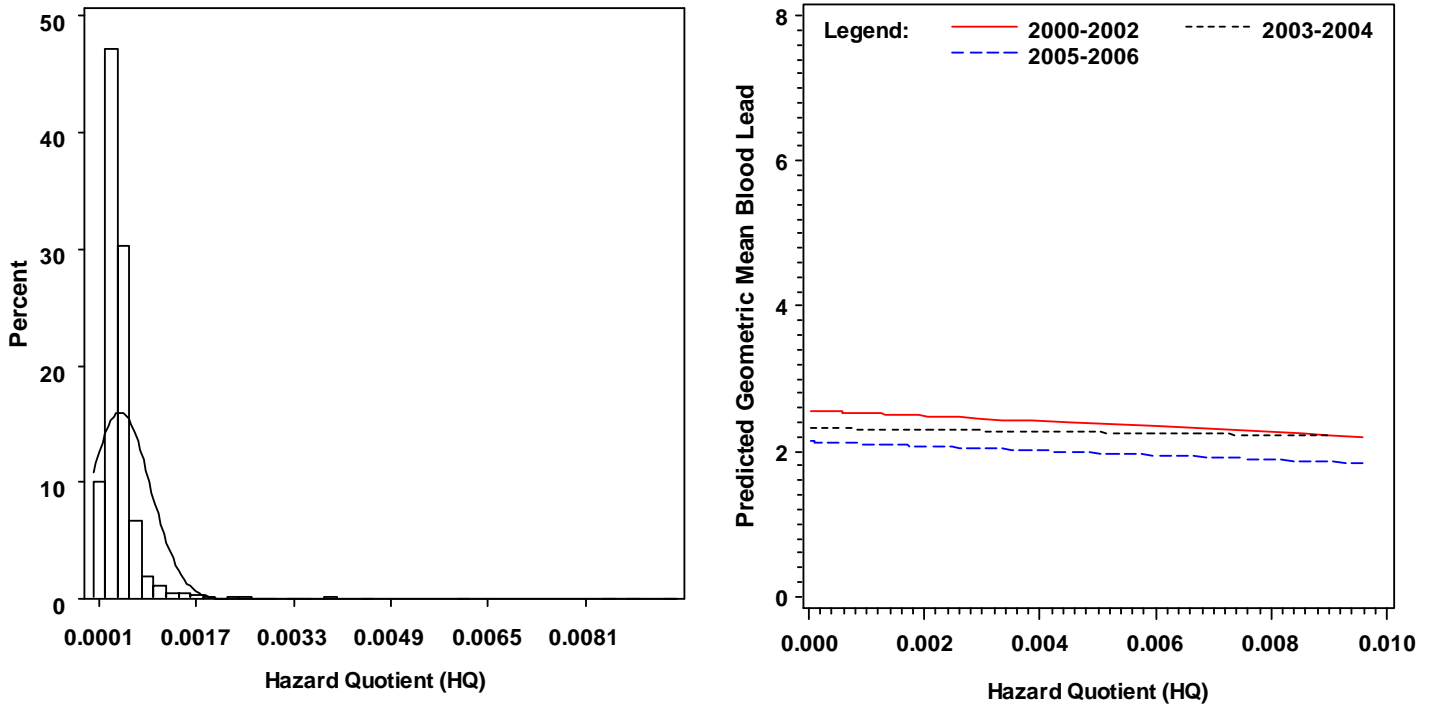


Figure B.46. Air Hazard Quotient (HQ): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.46a. Summary Information for Air Hazard Quotient (HQ) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	0.0004	0.0000	0.0000	0.0002	0.0003	0.0004	0.0005	0.0006	0.0096
2003-2004	10450	0	0.0004	0.0000	0.0000	0.0002	0.0003	0.0004	0.0005	0.0006	0.0090
2005-2006	10417	0	0.0004	0.0000	0.0000	0.0002	0.0003	0.0004	0.0005	0.0006	0.0096
All Years Combined	36484	0	0.0004	0.0000	0.0000	0.0002	0.0003	0.0004	0.0005	0.0006	0.0096

Table B.46b. Model Information for the Relationship between Air Hazard Quotient (HQ) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52272	$\sigma_{11}^2 = 0.387$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	hq	-14.465	24.636	0.557	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48705	$\sigma_{11}^2 = 0.379$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	hq	-15.291	25.396	0.547	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87134	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	hq	-8.987	32.887	0.785	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139737	$\sigma_{11}^2 = 0.541$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	hq	-12.689	40.036	0.751	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177374	$\sigma_{11}^2 = 0.489$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	hq	-8.682	42.557	0.838	.	$\sigma_{22}^2 = 0.003$	

Current HUD Funding (\$ per Child)

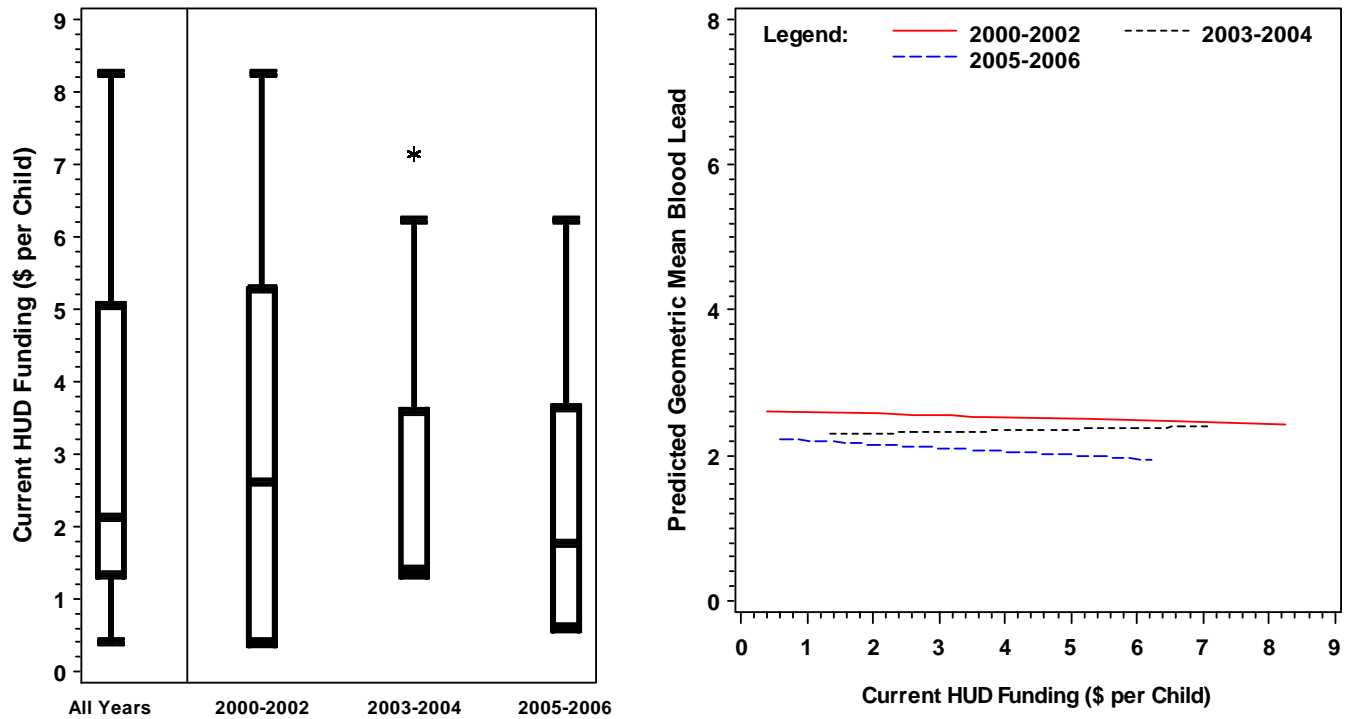


Figure B.47. Current HUD Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.47a. Summary Information for Current HUD Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	3.15	0.02	0.39	0.40	0.40	2.62	5.26	6.35	8.23
2003-2004	10450	0	2.60	0.02	1.34	1.34	1.34	1.40	3.58	6.21	7.15
2005-2006	10417	0	2.66	0.02	0.60	0.60	0.60	1.76	3.64	6.21	6.21
All Years	36484	0	2.85	0.01	0.39	0.40	1.34	2.12	5.04	6.32	8.23

Table B.47b. Model Information for the Relationship between Current HUD Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.648	0.018	<.001	52291	$\sigma_{11}^2 = 0.388$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	hf_cur	0.001	0.002	0.553	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.635	0.018	<.001	48722	$\sigma_{11}^2 = 0.380$	$\sigma_{error}^2 = 4.427$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	hf_cur	0.003	0.002	0.128	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.737	0.018	<.001	87140	$\sigma_{11}^2 = 0.379$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	hf_cur	0.009	0.003	0.002	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139756	$\sigma_{11}^2 = 0.541$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	hf_cur	0.000	0.006	0.994	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.944	0.032	<.001	177427	$\sigma_{11}^2 = 0.487$	
	time	-0.095	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	hf_cur	-0.009	0.008	0.271	.	$\sigma_{22}^2 = 0.003$	

Cumulative HUD Funding (\$ per Child)

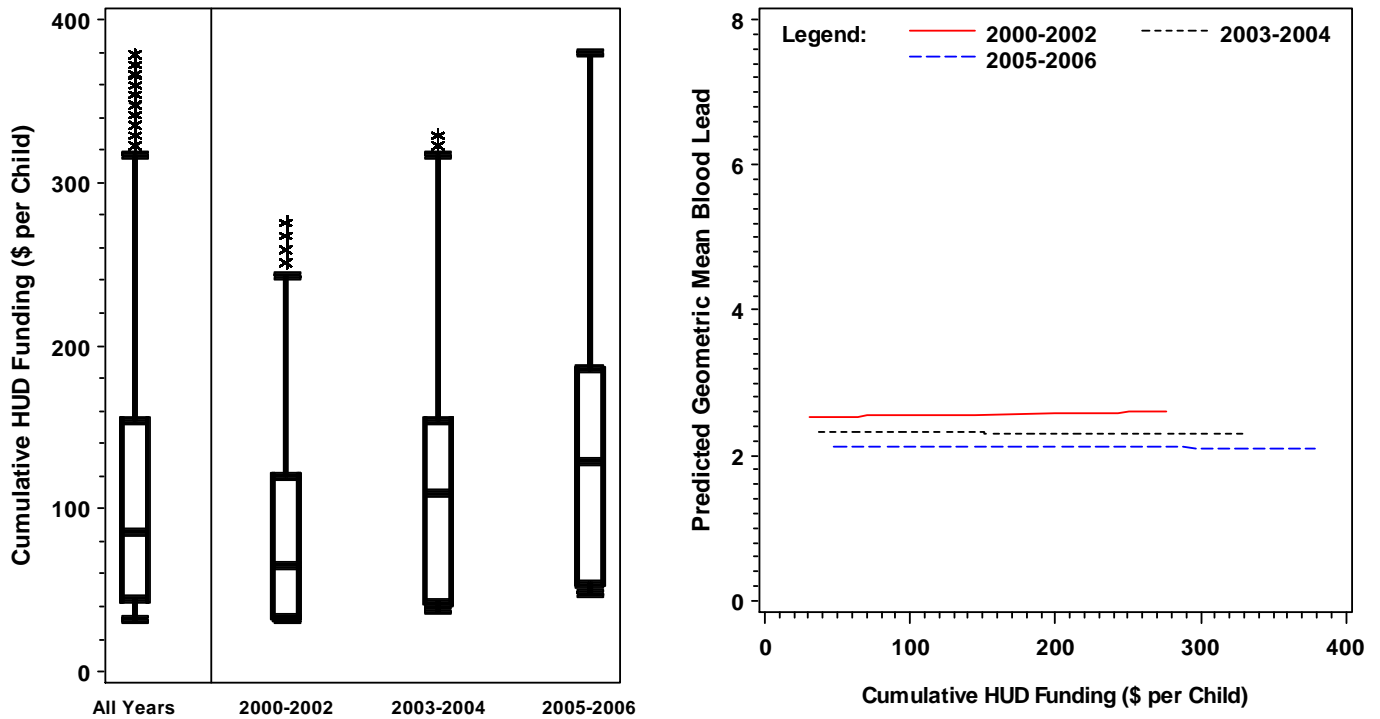


Figure B.48. Cumulative HUD Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.48a. Summary Information for Cumulative HUD Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	89.45	0.53	30.90	32.10	34.09	64.37	119.49	206.34	275.77
2003-2004	10450	0	119.05	0.84	36.61	39.31	43.34	109.39	153.89	290.03	329.21
2005-2006	10417	0	141.25	0.96	47.76	51.29	54.26	128.54	184.80	341.59	378.88
All Years	36484	0	112.72	0.44	30.90	33.70	44.68	84.54	153.89	226.35	378.88

Table B.48b. Model Information for the Relationship between Cumulative HUD Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.634	0.018	<.001	52287	$\sigma_{11}^2 = 0.388$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.080	0.003	<.001	.	$\sigma_{21}^2 = -0.027$	
	hf_cum	0.000	0.000	0.002	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.623	0.018	<.001	48723	$\sigma_{11}^2 = 0.379$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.079	0.003	<.001	.	$\sigma_{21}^2 = -0.026$	
	hf_cum	0.000	0.000	0.008	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.765	0.019	<.001	87163	$\sigma_{11}^2 = 0.375$	
	time	-0.131	0.003	<.001	.	$\sigma_{21}^2 = -0.006$	
	hf_cum	-0.001	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.673	0.026	<.001	139805	$\sigma_{11}^2 = 0.545$	
	time	-0.119	0.005	<.001	.	$\sigma_{21}^2 = -0.023$	
	hf_cum	-0.001	0.000	0.007	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.960	0.034	<.001	177444	$\sigma_{11}^2 = 0.492$	
	time	-0.090	0.008	<.001	.	$\sigma_{21}^2 = -0.029$	
	hf_cum	0.000	0.000	0.203	.	$\sigma_{22}^2 = 0.003$	

Current State Funding (\$ per Child)

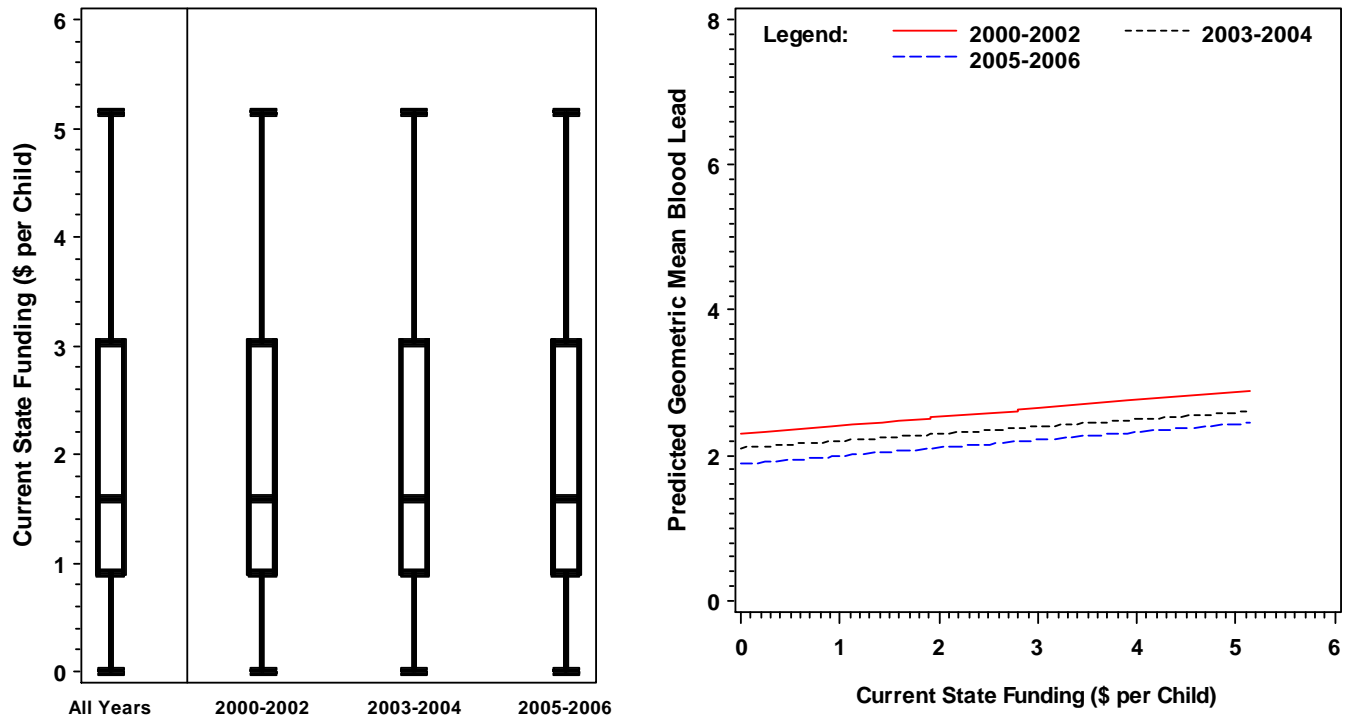


Figure B.49. Current State Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.49a. Summary Information for Current State Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	2.18	0.01	0.00	0.92	0.92	1.59	3.02	5.14	5.14
2003-2004	10450	0	2.18	0.01	0.00	0.92	0.92	1.59	3.02	5.14	5.14
2005-2006	10417	0	2.18	0.01	0.00	0.92	0.92	1.59	3.02	5.14	5.14
All Years	36484	0	2.18	0.01	0.00	0.92	0.92	1.59	3.02	5.14	5.14

Table B.49b. Model Information for the Relationship between Current State Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.017	<.001	52162	$\sigma_{11}^2 = 0.363$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	sf_cur	0.098	0.009	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.017	<.001	48583	$\sigma_{11}^2 = 0.354$	$\sigma_{error}^2 = 4.430$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	sf_cur	0.104	0.009	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.018	<.001	87014	$\sigma_{11}^2 = 0.352$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.008$	
	sf_cur	0.117	0.011	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.646	0.024	<.001	139707	$\sigma_{11}^2 = 0.503$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	sf_cur	0.127	0.013	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.944	0.032	<.001	177504	$\sigma_{11}^2 = 0.455$	
	time	-0.095	0.007	<.001	.	$\sigma_{21}^2 = -0.027$	
	sf_cur	0.099	0.015	<.001	.	$\sigma_{22}^2 = 0.003$	

Cumulative State Funding (\$ per Child)

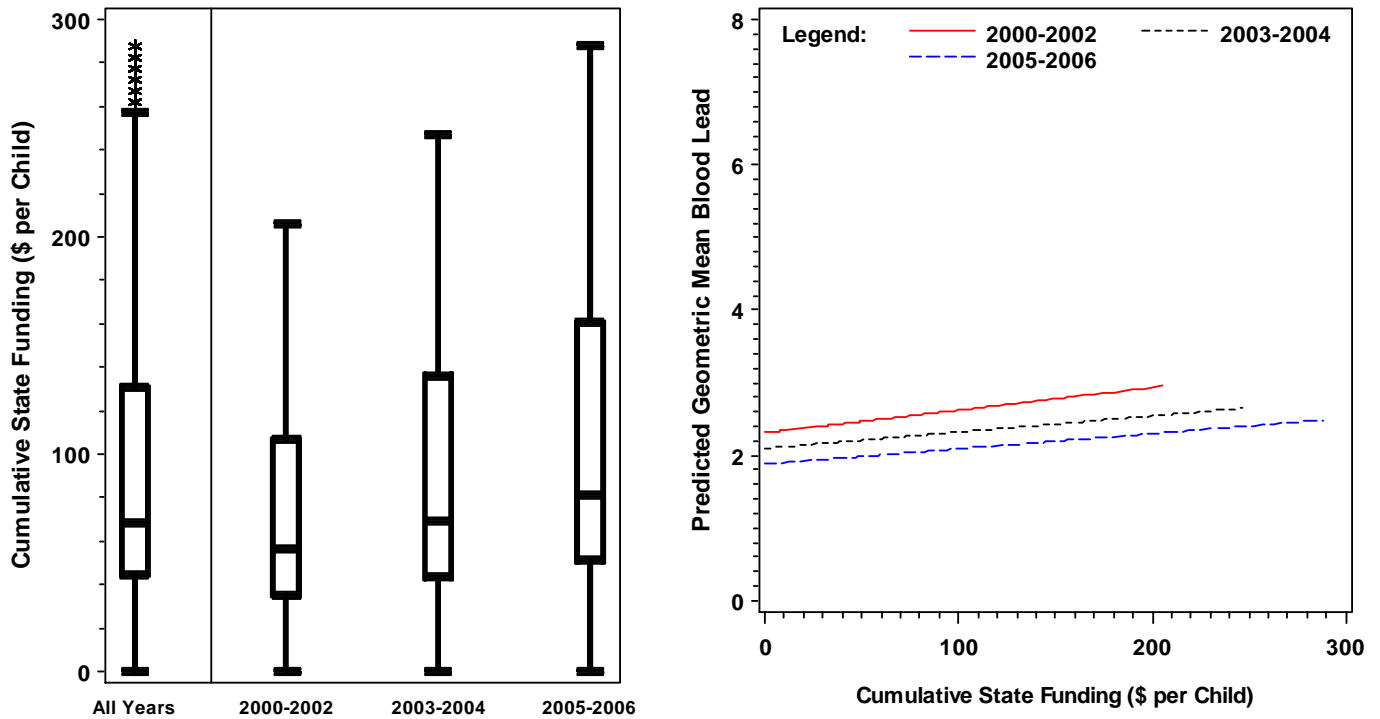


Figure B.50. Cumulative State Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.50a. Summary Information for Cumulative State Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	75.33	0.41	0.00	29.38	35.81	55.68	106.12	159.41	205.79
2003-2004	10450	0	97.10	0.64	0.00	39.48	44.08	68.66	135.85	215.98	246.90
2005-2006	10417	0	114.55	0.75	0.00	46.82	51.42	81.13	160.00	257.12	288.05
All Years	36484	0	92.76	0.34	0.00	33.06	44.99	68.40	130.31	195.42	288.05

Table B.50b. Model Information for the Relationship between Cumulative State Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.695	0.018	<.001	52201	$\sigma_{11}^2 = 0.371$	$\sigma_{error}^2 = 0.207$
	time	-0.098	0.003	<.001	.	$\sigma_{21}^2 = -0.028$	
	sf_cum	0.002	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.686	0.018	<.001	48618	$\sigma_{11}^2 = 0.363$	$\sigma_{error}^2 = 4.430$
	time	-0.097	0.003	<.001	.	$\sigma_{21}^2 = -0.028$	
	sf_cum	0.002	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.658	0.019	<.001	87044	$\sigma_{11}^2 = 0.354$	
	time	-0.163	0.003	<.001	.	$\sigma_{21}^2 = -0.008$	
	sf_cum	0.003	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.567	0.026	<.001	139740	$\sigma_{11}^2 = 0.510$	
	time	-0.150	0.005	<.001	.	$\sigma_{21}^2 = -0.023$	
	sf_cum	0.002	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.881	0.033	<.001	177460	$\sigma_{11}^2 = 0.463$	
	time	-0.113	0.008	<.001	.	$\sigma_{21}^2 = -0.029$	
	sf_cum	0.002	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	

Current CDC Funding (\$ per Child)

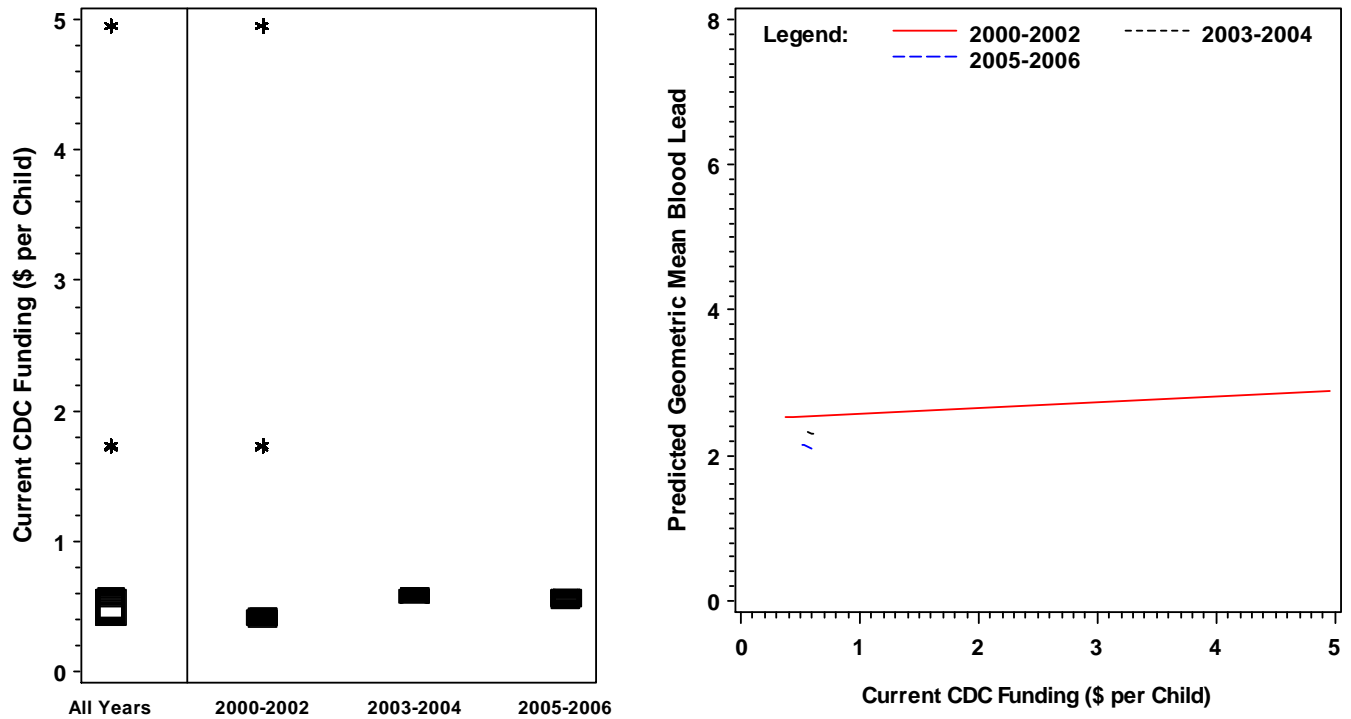


Figure B.51. Current CDC Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.51a. Summary Information for Current CDC Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	0.65	0.01	0.38	0.38	0.38	0.39	0.44	0.44	4.96
2003-2004	10450	0	0.58	0.00	0.56	0.56	0.56	0.60	0.60	0.60	0.61
2005-2006	10417	0	0.56	0.00	0.52	0.53	0.53	0.59	0.59	0.59	0.60
All Years	36484	0	0.61	0.00	0.38	0.38	0.39	0.53	0.59	0.60	4.96

Table B.51b. Model Information for the Relationship between Current CDC Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52288	$\sigma_{11}^2 = 0.388$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	cf_cur	-0.006	0.005	0.251	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.018	<.001	48721	$\sigma_{11}^2 = 0.380$	$\sigma_{error}^2 = 4.427$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	cf_cur	-0.007	0.005	0.132	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.018	<.001	87152	$\sigma_{11}^2 = 0.373$	
	time	-0.140	0.003	<.001	.	$\sigma_{21}^2 = -0.006$	
	cf_cur	0.004	0.006	0.462	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.649	0.025	<.001	139760	$\sigma_{11}^2 = 0.537$	
	time	-0.125	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	cf_cur	0.016	0.011	0.160	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.953	0.032	<.001	177456	$\sigma_{11}^2 = 0.478$	
	time	-0.092	0.007	<.001	.	$\sigma_{21}^2 = -0.027$	
	cf_cur	0.048	0.019	0.013	.	$\sigma_{22}^2 = 0.003$	

Cumulative CDC Funding (\$ per Child)

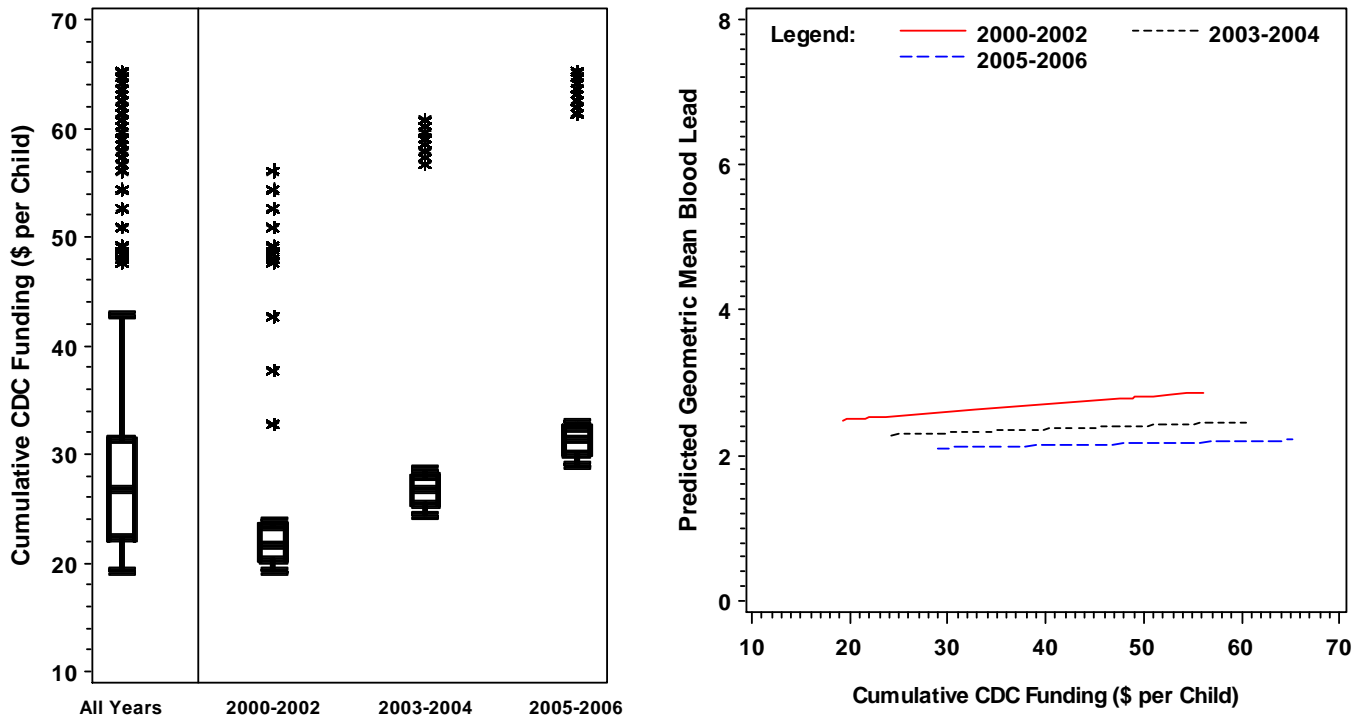


Figure B.52. Cumulative CDC Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.52a. Summary Information for Cumulative CDC Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	24.72	0.07	19.23	19.63	20.42	21.57	23.28	42.68	56.16
2003-2004	10450	0	30.51	0.11	24.31	24.33	25.53	26.70	27.83	57.31	60.82
2005-2006	10417	0	35.09	0.11	28.97	28.99	30.17	31.29	32.34	61.96	65.27
All Years	36484	0	29.34	0.06	19.23	20.41	22.39	26.70	31.28	48.42	65.27

Table B.52b. Model Information for the Relationship between Cumulative CDC Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.653	0.019	<.001	52293	$\sigma_{11}^2 = 0.386$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.085	0.003	<.001	.	$\sigma_{21}^2 = -0.027$	
	cf_cum	0.001	0.001	0.590	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.644	0.019	<.001	48725	$\sigma_{11}^2 = 0.377$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.085	0.003	<.001	.	$\sigma_{21}^2 = -0.026$	
	cf_cum	0.001	0.001	0.284	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.701	0.021	<.001	87136	$\sigma_{11}^2 = 0.370$	
	time	-0.150	0.004	<.001	.	$\sigma_{21}^2 = -0.006$	
	cf_cum	0.004	0.001	0.002	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.605	0.029	<.001	139706	$\sigma_{11}^2 = 0.533$	
	time	-0.138	0.006	<.001	.	$\sigma_{21}^2 = -0.022$	
	cf_cum	0.005	0.002	0.005	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.908	0.036	<.001	177331	$\sigma_{11}^2 = 0.481$	
	time	-0.105	0.009	<.001	.	$\sigma_{21}^2 = -0.028$	
	cf_cum	0.004	0.002	0.037	.	$\sigma_{22}^2 = 0.003$	

Current Total Funding (\$ per Child)

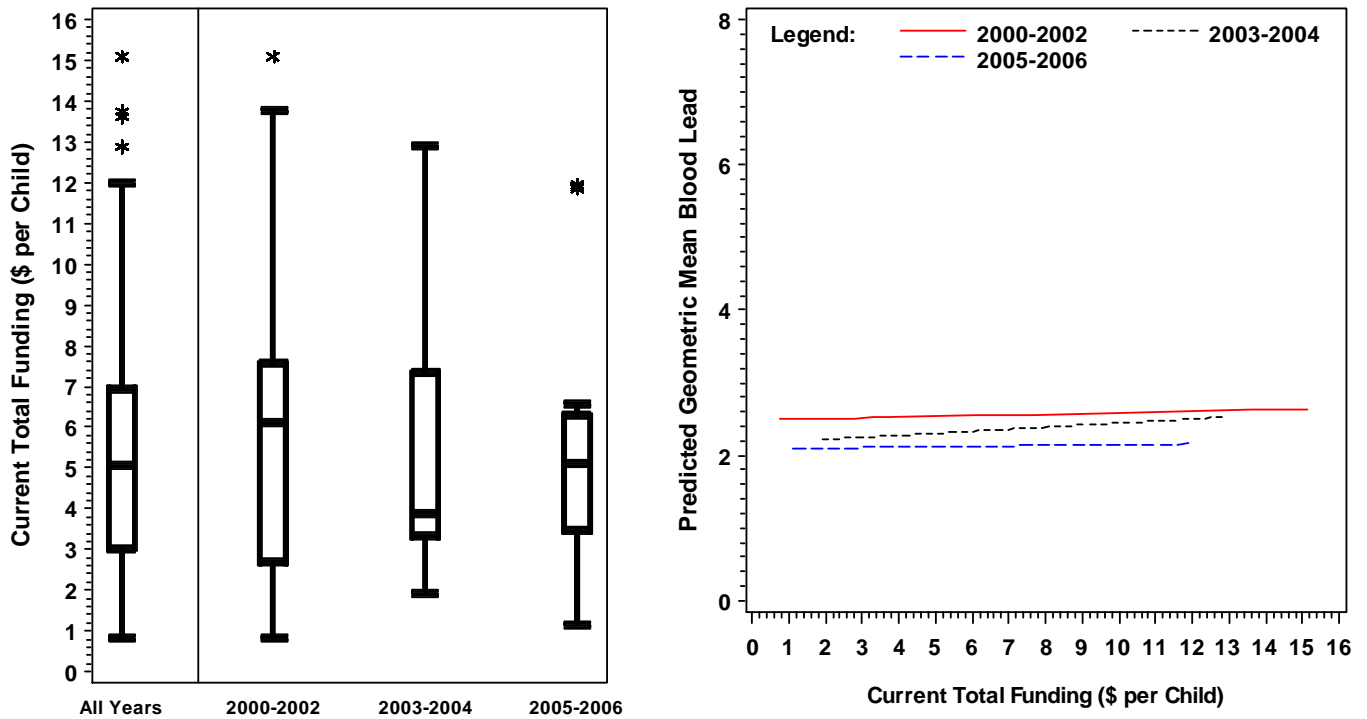


Figure B.53. Current Total Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.53a. Summary Information for Current Total Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	5.99	0.03	0.78	2.22	2.70	6.08	7.54	13.62	15.11
2003-2004	10450	0	5.36	0.03	1.90	2.92	3.33	3.86	7.30	11.91	12.90
2005-2006	10417	0	5.40	0.03	1.13	2.56	3.47	5.08	6.26	11.88	11.95
All Years	36484	0	5.64	0.02	0.78	2.37	3.04	5.06	6.92	11.91	15.11

Table B.53b. Model Information for the Relationship between Current Total Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.646	0.018	<.001	52283	$\sigma_{11}^2 = 0.386$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	tot_cur	0.007	0.002	0.004	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.633	0.017	<.001	48712	$\sigma_{11}^2 = 0.377$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.081	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	tot_cur	0.007	0.002	<.001	.	$\sigma_{22}^2 = 0.004$	
3		
		
		
4		
		
		
5	Intercept	-4.950	0.032	<.001	177377	$\sigma_{11}^2 = 0.482$	
	time	-0.092	0.007	<.001	.	$\sigma_{21}^2 = -0.028$	
	tot_cur	0.015	0.006	0.011	.	$\sigma_{22}^2 = 0.003$	

Cumulative Total Funding (\$ per Child)

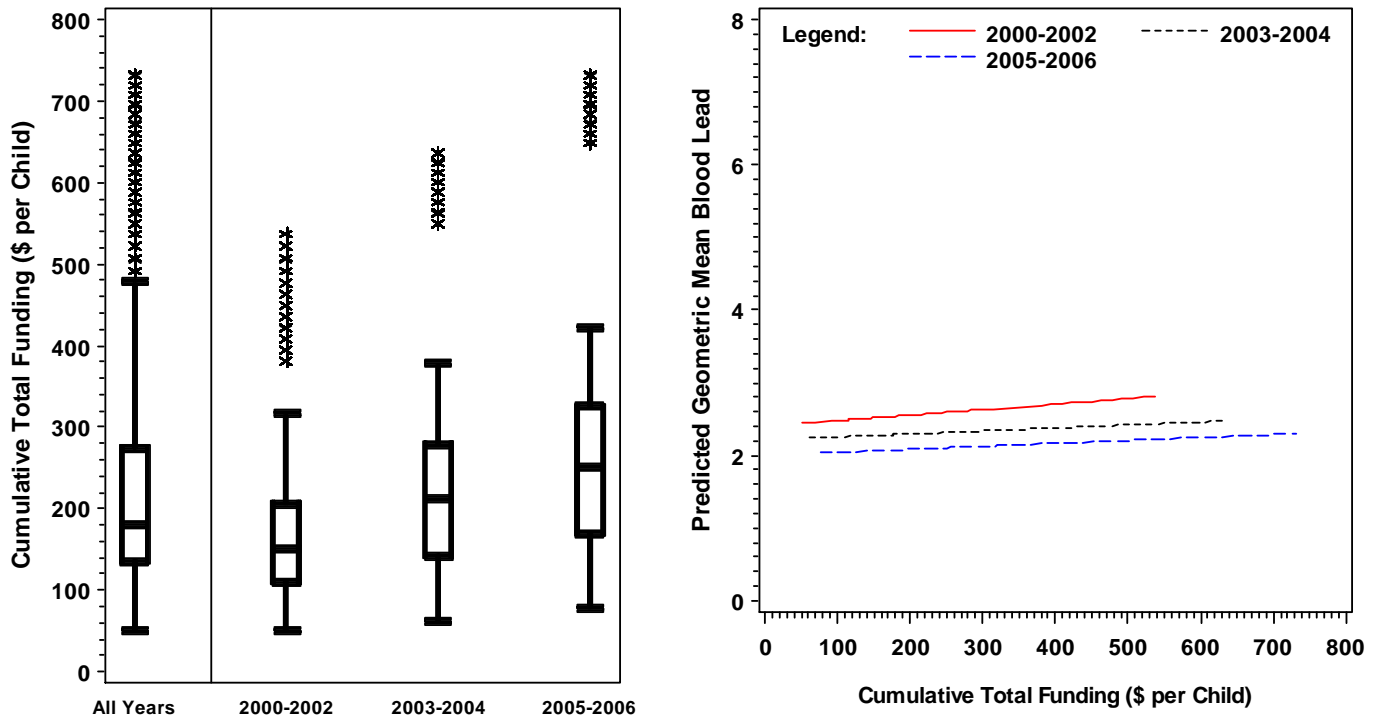


Figure B.54 Cumulative Total Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.54a. Summary Information for Cumulative Total Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	189.50	0.93	50.16	98.67	111.69	149.00	205.16	408.44	537.61
2003-2004	10450	0	246.65	1.45	60.96	129.72	143.08	211.00	277.83	563.32	636.83
2005-2006	10417	0	290.89	1.67	76.76	158.20	170.95	250.20	324.24	660.66	732.14
All Years	36484	0	234.82	0.78	50.16	107.16	136.41	178.67	273.48	449.63	732.14

Table B.54b. Model Information for the Relationship between Cumulative Total Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.662	0.018	<.001	52292	$\sigma_{11}^2 = 0.384$	$\sigma_{error}^2 = 0.207$
	time	-0.088	0.003	<.001	.	$\sigma_{21}^2 = -0.028$	
	tot_cum	0.000	0.000	0.014	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.653	0.018	<.001	48722	$\sigma_{11}^2 = 0.376$	$\sigma_{error}^2 = 4.429$
	time	-0.087	0.003	<.001	.	$\sigma_{21}^2 = -0.027$	
	tot_cum	0.000	0.000	0.002	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.715	0.020	<.001	87146	$\sigma_{11}^2 = 0.372$	
	time	-0.146	0.004	<.001	.	$\sigma_{21}^2 = -0.006$	
	tot_cum	0.000	0.000	0.018	.	$\sigma_{22}^2 = 0.004$	
4		
		
		
5		
		
		

Current HUD Funding (\$ per Census Tract)

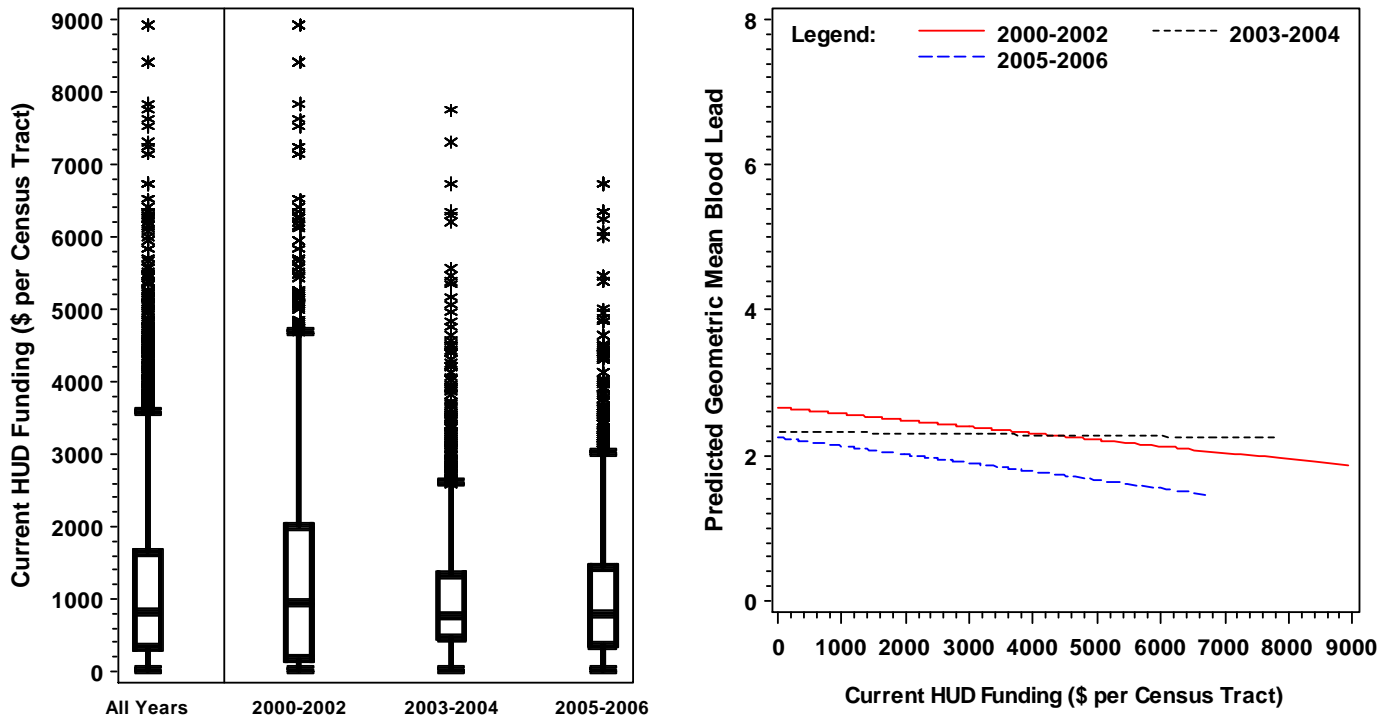


Figure B.55. Current HUD Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.55a. Summary Information for Current HUD Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	1291	10	6	112	190	942	1990	3110	8932
2003-2004	10450	0	1043	8	19	329	484	766	1329	2133	7758
2005-2006	10417	0	1070	9	9	205	379	783	1434	2369	6737
All Years	36484	0	1157	6	6	159	339	817	1636	2639	8932

Table B.55b. Model Information for the Relationship between Current HUD Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52303	$\sigma_{11}^2 = 0.386$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	hf_cur	0.000	0.000	0.450	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48737	$\sigma_{11}^2 = 0.379$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	hf_cur	0.000	0.000	0.666	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.736	0.018	<.001	87168	$\sigma_{11}^2 = 0.377$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	hf_cur	0.000	0.000	0.133	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.645	0.025	<.001	139723	$\sigma_{11}^2 = 0.535$	
	time	-0.127	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	hf_cur	0.000	0.000	0.116	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.937	0.032	<.001	177172	$\sigma_{11}^2 = 0.478$	
	time	-0.095	0.007	<.001	.	$\sigma_{21}^2 = -0.028$	
	hf_cur	0.000	0.000	0.007	.	$\sigma_{22}^2 = 0.003$	

Cumulative HUD Funding (\$ per Census Tract)

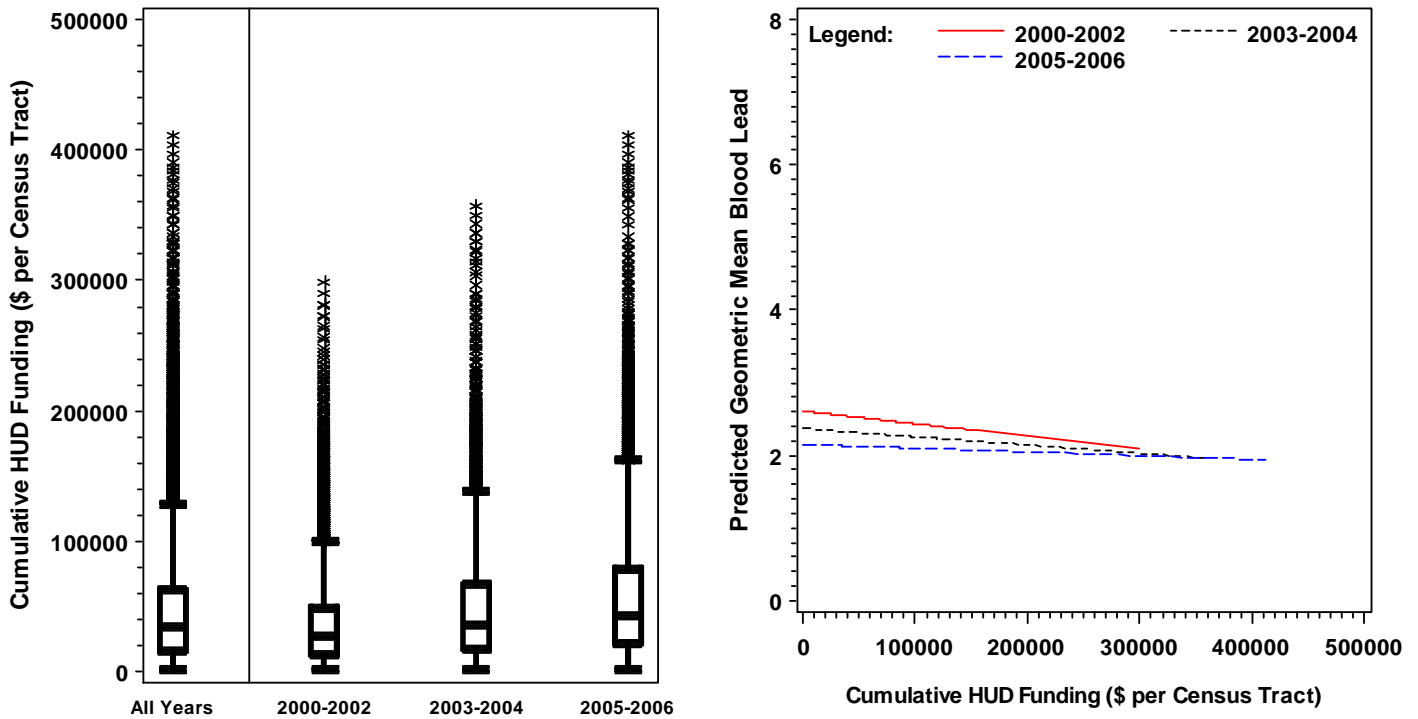


Figure B.56. Cumulative HUD Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.56a. Summary Information for Cumulative HUD Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	36034	249	506	9068	14238	25860	48422	75560	299162
2003-2004	10450	0	47907	395	643	11430	18231	35641	66264	97864	357143
2005-2006	10417	0	56925	461	767	14467	22734	42697	78390	115487	411041
All Years	36484	0	45399	209	506	10723	17129	32913	61557	95537	411041

Table B.56b. Model Information for the Relationship between Cumulative HUD Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.642	0.018	<.001	52307	$\sigma_{11}^2 = 0.386$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	hf_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.629	0.018	<.001	48740	$\sigma_{11}^2 = 0.378$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.080	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	hf_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.766	0.019	<.001	87098	$\sigma_{11}^2 = 0.369$	
	time	-0.131	0.003	<.001	.	$\sigma_{21}^2 = -0.006$	
	hf_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4		
		
		
5	Intercept	-4.962	0.033	<.001	177128	$\sigma_{11}^2 = 0.488$	
	time	-0.088	0.008	<.001	.	$\sigma_{21}^2 = -0.029$	
	hf_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Current State Funding (\$ per Census Tract)

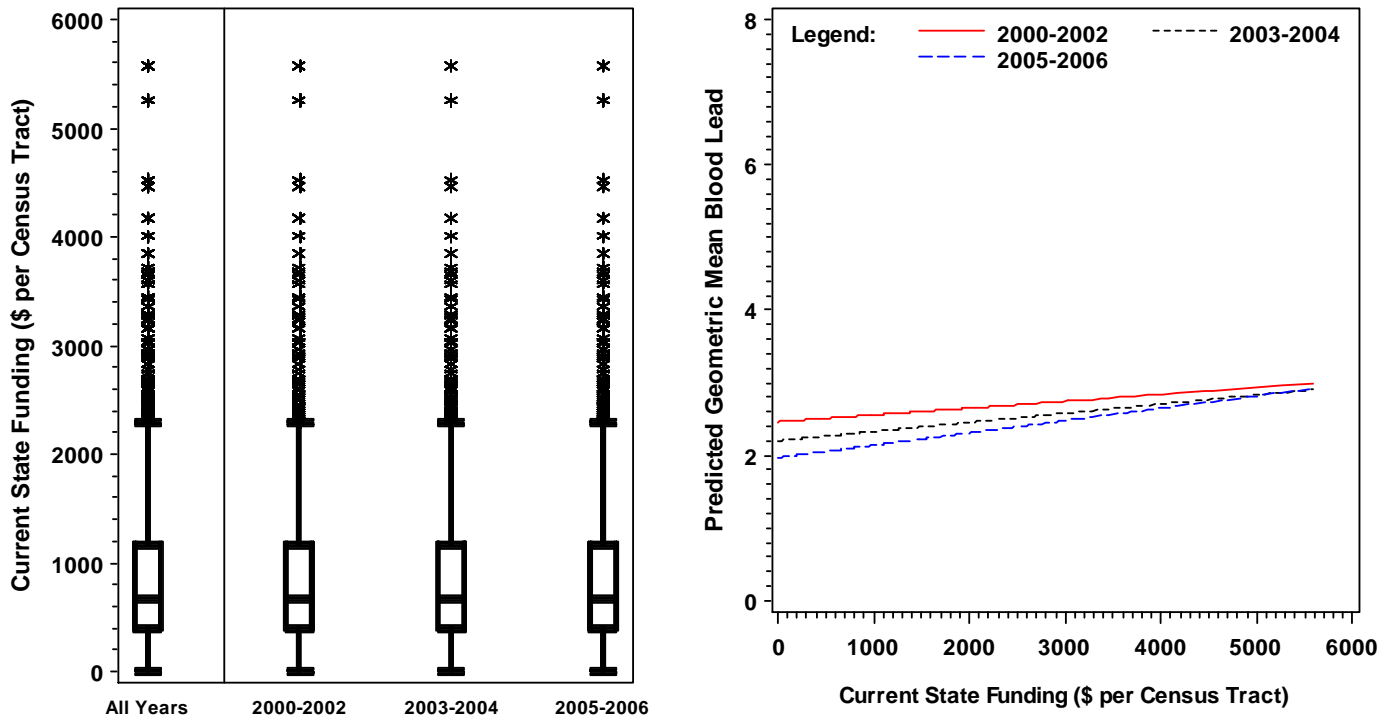


Figure B.57. Current State Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.57a. Summary Information for Current State Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	887	6	0	244	406	665	1162	1863	5579
2003-2004	10450	0	886	7	0	244	404	663	1162	1863	5579
2005-2006	10417	0	887	7	0	244	405	665	1162	1863	5579
All Years	36484	0	887	4	0	244	405	664	1162	1863	5579

Table B.57b. Model Information for the Relationship between Current State Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.652	0.018	<.001	52232	$\sigma_{11}^2 = 0.390$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.029$	
	sf_cur	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.639	0.018	<.001	48659	$\sigma_{11}^2 = 0.381$	$\sigma_{error}^2 = 4.429$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	sf_cur	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.737	0.018	<.001	87178	$\sigma_{11}^2 = 0.373$	
	time	-0.139	0.002	<.001	.	$\sigma_{21}^2 = -0.008$	
	sf_cur	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.651	0.025	<.001	140076	$\sigma_{11}^2 = 0.536$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.023$	
	sf_cur	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.953	0.032	<.001	178005	$\sigma_{11}^2 = 0.487$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	sf_cur	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Cumulative State Funding (\$ per Census Tract)

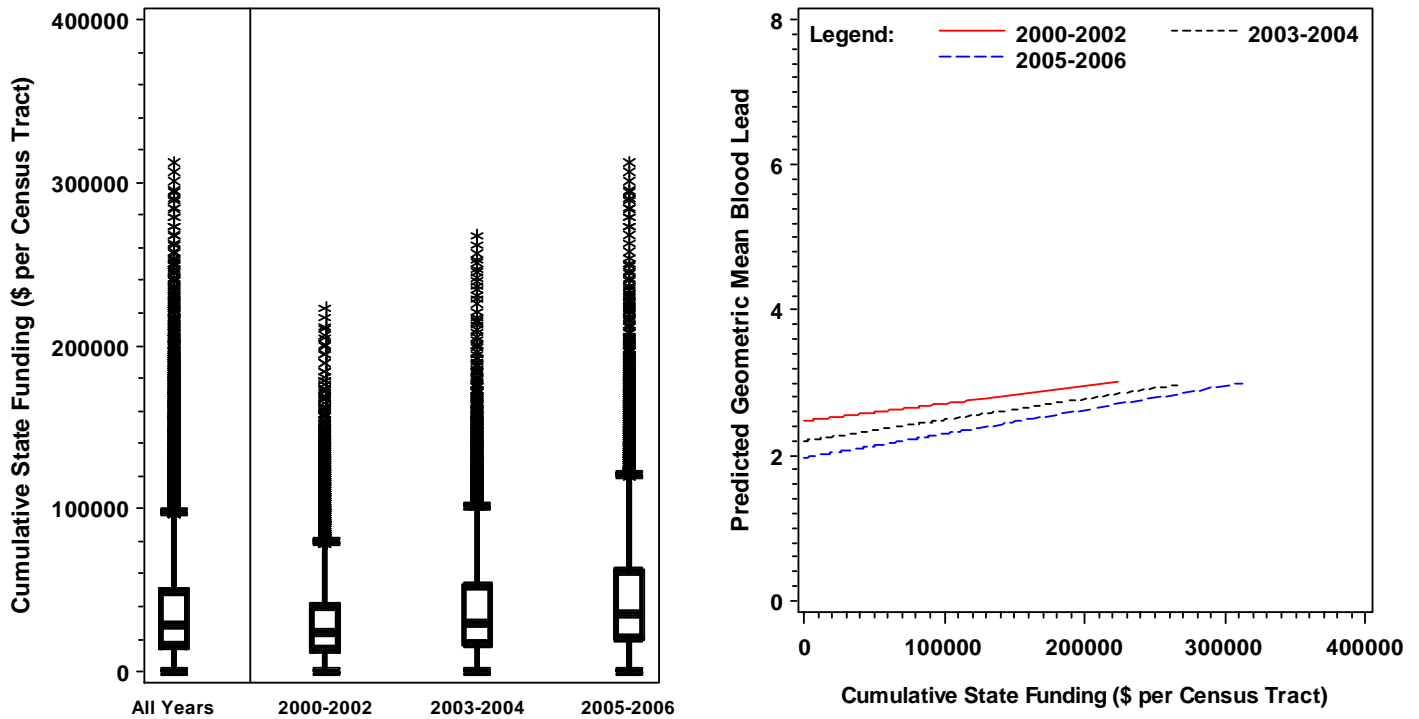


Figure B.58. Cumulative State Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.58a. Summary Information for Cumulative State Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	30603	200	0	8328	13888	23041	39888	63538	223170
2003-2004	10450	0	39407	312	0	10885	18024	29732	51403	82026	267804
2005-2006	10417	0	46543	369	0	12792	21278	35126	60844	97123	312438
All Years	36484	0	37676	166	0	9779	16575	28002	48882	78225	312438

Table B.58b. Model Information for the Relationship between Cumulative State Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.689	0.018	<.001	52211	$\sigma_{11}^2 = 0.387$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.096	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	sf_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.679	0.018	<.001	48638	$\sigma_{11}^2 = 0.378$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.095	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	sf_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.684	0.019	<.001	87223	$\sigma_{11}^2 = 0.371$	
	time	-0.155	0.003	<.001	.	$\sigma_{21}^2 = -0.007$	
	sf_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.606	0.026	<.001	140117	$\sigma_{11}^2 = 0.533$	
	time	-0.140	0.005	<.001	.	$\sigma_{21}^2 = -0.023$	
	sf_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.919	0.033	<.001	178019	$\sigma_{11}^2 = 0.485$	
	time	-0.105	0.008	<.001	.	$\sigma_{21}^2 = -0.029$	
	sf_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

Current CDC Funding (\$ per Census Tract)

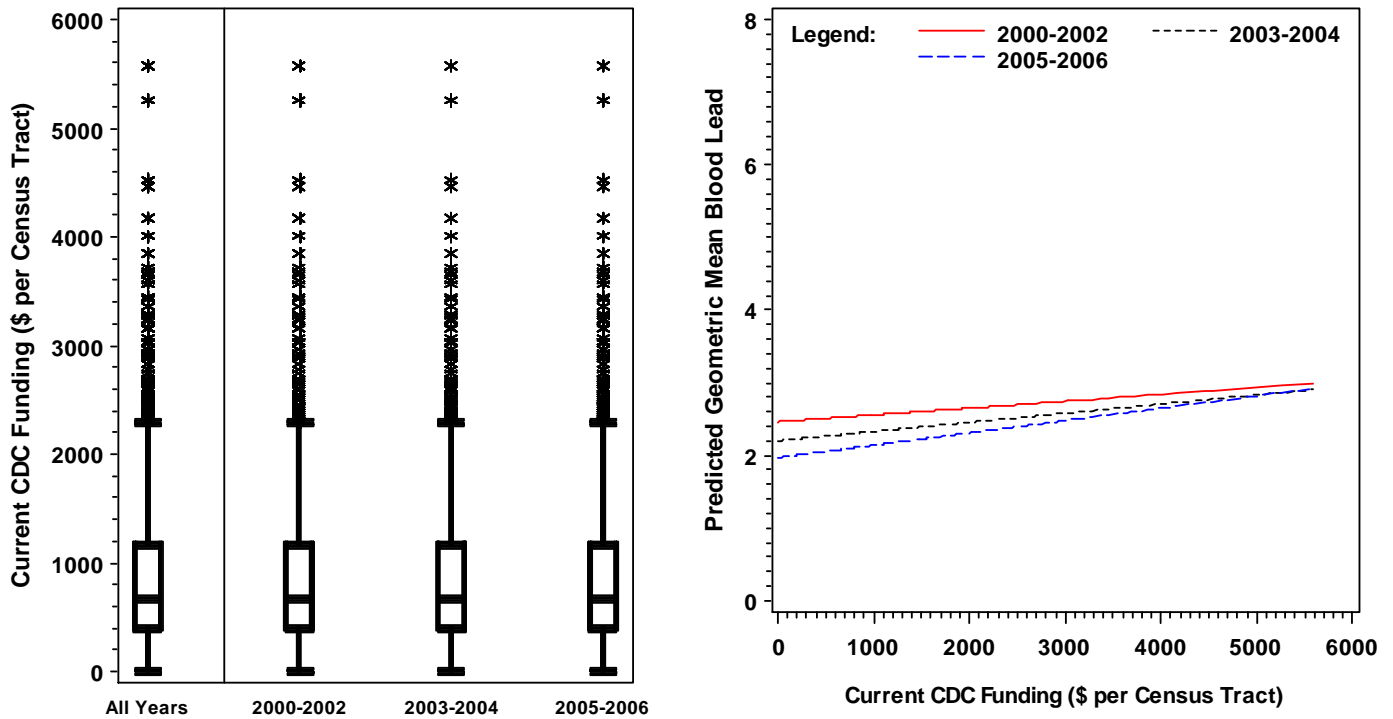


Figure B.59. Current CDC Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.59a. Summary Information for Current CDC Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	887	6	0	244	406	665	1162	1863	5579
2003-2004	10450	0	886	7	0	244	404	663	1162	1863	5579
2005-2006	10417	0	887	7	0	244	405	665	1162	1863	5579
All Years	36484	0	887	4	0	244	405	664	1162	1863	5579

Table B.59b. Model Information for the Relationship between Current CDC Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52297	$\sigma_{11}^2 = 0.388$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	cf_cur	0.000	0.000	0.043	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.018	<.001	48730	$\sigma_{11}^2 = 0.380$	$\sigma_{error}^2 = 4.427$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	cf_cur	0.000	0.000	0.015	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87163	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	cf_cur	0.000	0.000	0.764	.	$\sigma_{22}^2 = 0.004$	
4		
		
		
5	Intercept	-4.948	0.032	<.001	177463	$\sigma_{11}^2 = 0.487$	
	time	-0.093	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	cf_cur	0.000	0.000	0.390	.	$\sigma_{22}^2 = 0.003$	

Cumulative CDC Funding (\$ per Census Tract)

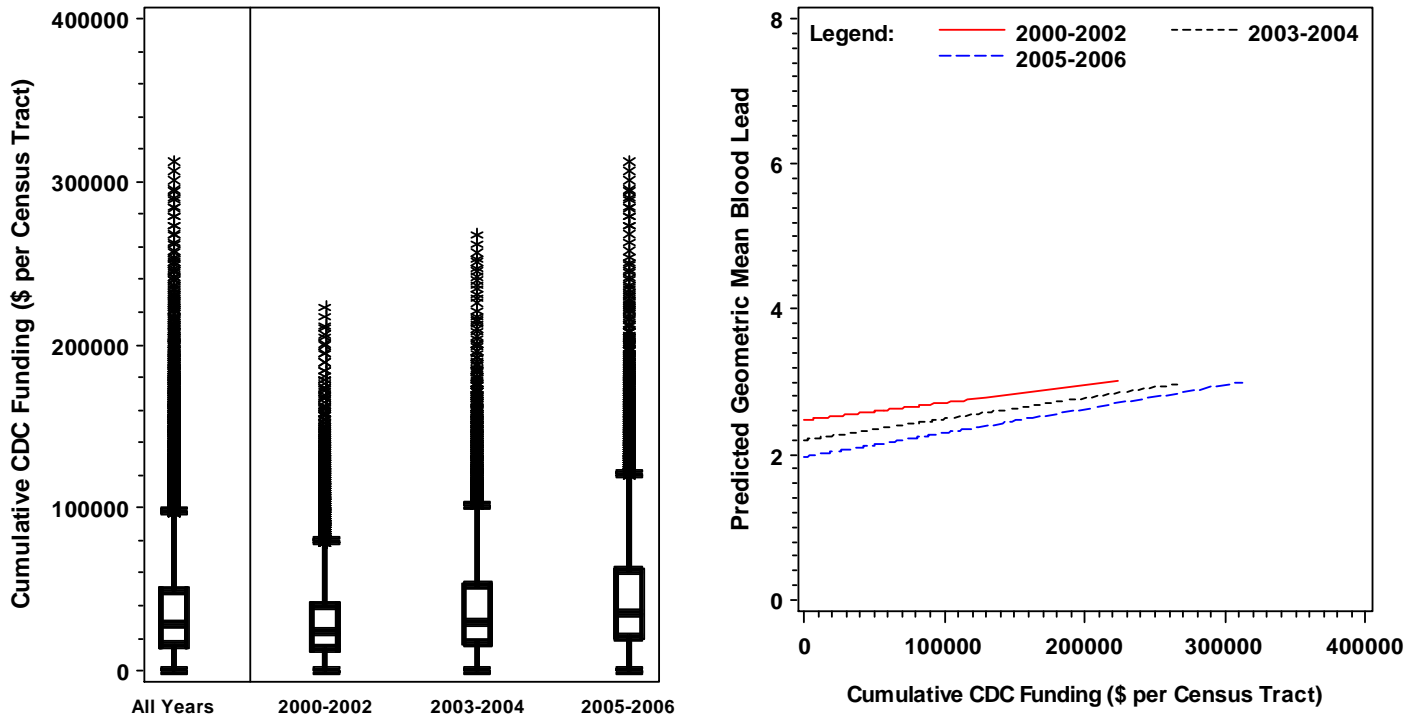


Figure B.60. Cumulative CDC Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.60a. Summary Information for Cumulative CDC Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	30603	200	0	8328	13888	23041	39888	63538	223170
2003-2004	10450	0	39407	312	0	10885	18024	29732	51403	82026	267804
2005-2006	10417	0	46543	369	0	12792	21278	35126	60844	97123	312438
All Years	36484	0	37676	166	0	9779	16575	28002	48882	78225	312438

Table B.60b. Model Information for the Relationship between Cumulative CDC Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.641	0.018	<.001	52304	$\sigma_{11}^2 = 0.385$	$\sigma_{error}^2 = 0.207$
	time	-0.082	0.003	<.001	.	$\sigma_{21}^2 = -0.028$	
	cf_cum	0.000	0.000	0.142	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.628	0.018	<.001	48737	$\sigma_{11}^2 = 0.377$	$\sigma_{error}^2 = 4.428$
	time	-0.080	0.003	<.001	.	$\sigma_{21}^2 = -0.026$	
	cf_cum	0.000	0.000	0.153	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.752	0.020	<.001	87122	$\sigma_{11}^2 = 0.371$	
	time	-0.135	0.003	<.001	.	$\sigma_{21}^2 = -0.006$	
	cf_cum	0.000	0.000	0.024	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.667	0.026	<.001	139571	$\sigma_{11}^2 = 0.536$	
	time	-0.119	0.005	<.001	.	$\sigma_{21}^2 = -0.022$	
	cf_cum	0.000	0.000	0.022	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.961	0.033	<.001	176972	$\sigma_{11}^2 = 0.482$	
	time	-0.087	0.008	<.001	.	$\sigma_{21}^2 = -0.029$	
	cf_cum	0.000	0.000	0.046	.	$\sigma_{22}^2 = 0.004$	

Current Total Funding (\$ per Census Tract)

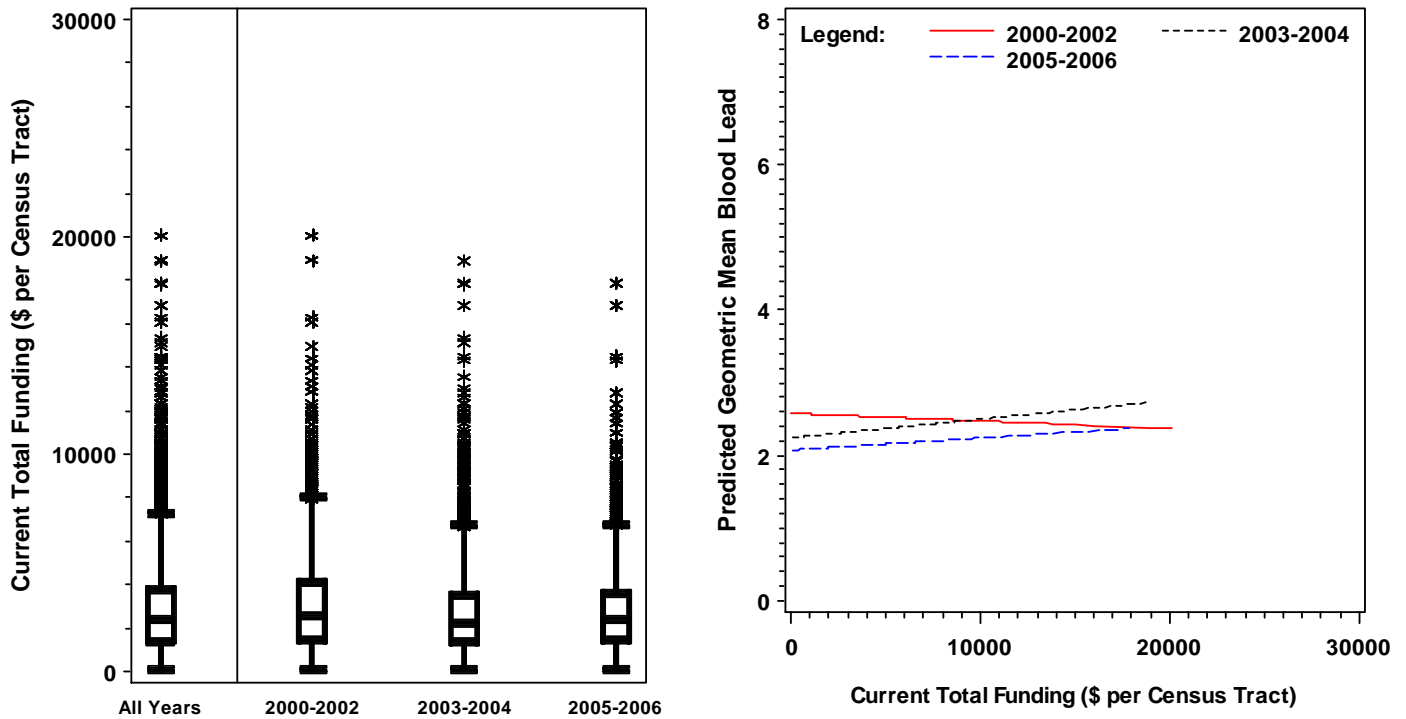


Figure B.61. Current Total Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.61a. Summary Information for Current Total Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	3065	18	13	884	1467	2491	4071	6055	20091
2003-2004	10450	0	2814	21	59	900	1390	2183	3510	5632	18917
2005-2006	10417	0	2843	20	49	925	1484	2389	3594	5237	17896
All Years	36484	0	2930	11	13	902	1446	2359	3769	5751	20091

Table B.61b. Model Information for the Relationship between Current Total Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.648	0.018	<.001	52303	$\sigma_{11}^2 = 0.388$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	tot_cur	0.000	0.000	0.495	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.635	0.018	<.001	48736	$\sigma_{11}^2 = 0.380$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	tot_cur	0.000	0.000	0.199	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.738	0.018	<.001	87174	$\sigma_{11}^2 = 0.379$	
	time	-0.139	0.003	<.001	.	$\sigma_{21}^2 = -0.006$	
	tot_cur	0.000	0.000	0.007	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.648	0.025	<.001	139791	$\sigma_{11}^2 = 0.542$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	tot_cur	0.000	0.000	0.659	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.945	0.032	<.001	177371	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	tot_cur	0.000	0.000	0.810	.	$\sigma_{22}^2 = 0.003$	

Cumulative Total Funding (\$ per Census Tract)

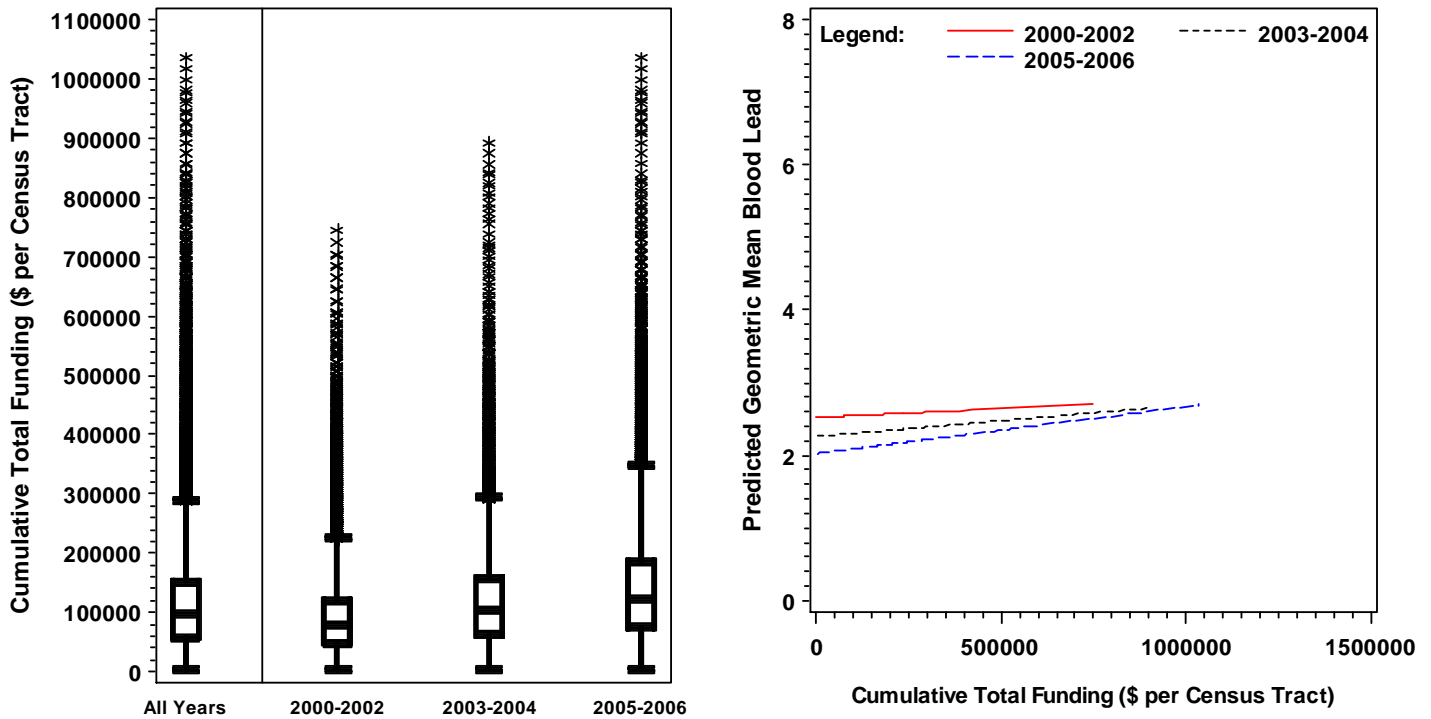


Figure B.62. Cumulative Total Funding: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.62a. Summary Information for Cumulative Total Funding by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15617	0	97240	601	1115	31087	48955	77293	119183	190075	745502
2003-2004	10450	0	126721	944	2563	40888	64246	101723	155541	247844	892751
2005-2006	10417	0	150011	1104	2967	49211	76790	121431	184701	291289	1035917
All Years	36484	0	120752	502	1115	36712	58823	94927	150549	236432	1035917

Table B.62b. Model Information for the Relationship between Cumulative Total Funding and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.664	0.018	<.001	52300	$\sigma_{11}^2 = 0.389$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.089	0.003	<.001	.	$\sigma_{21}^2 = -0.028$	
	tot_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.653	0.018	<.001	48732	$\sigma_{11}^2 = 0.380$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.087	0.003	<.001	.	$\sigma_{21}^2 = -0.027$	
	tot_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.731	0.019	<.001	87180	$\sigma_{11}^2 = 0.374$	
	time	-0.141	0.003	<.001	.	$\sigma_{21}^2 = -0.006$	
	tot_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.646	0.026	<.001	139780	$\sigma_{11}^2 = 0.541$	
	time	-0.126	0.005	<.001	.	$\sigma_{21}^2 = -0.022$	
	tot_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.944	0.033	<.001	177448	$\sigma_{11}^2 = 0.488$	
	time	-0.095	0.008	<.001	.	$\sigma_{21}^2 = -0.029$	
	tot_cum	0.000	0.000	<.001	.	$\sigma_{22}^2 = 0.003$	

TRI Compounds (Total Air)

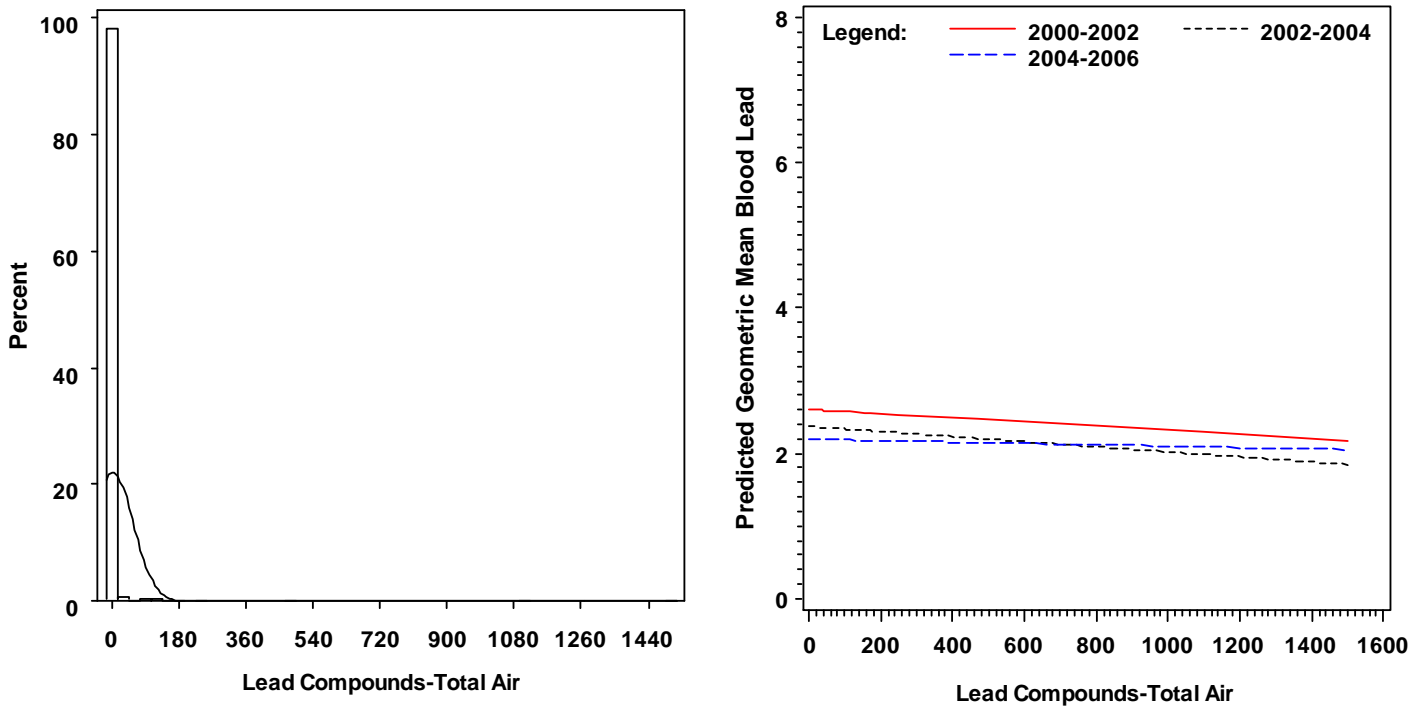


Figure B.63. TRI Compounds (Total Air): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.63a. Summary Information for TRI Compounds (Total Air) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	3.68	0.53	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
2002-2004	10432	0	3.68	0.53	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
2004-2006	11749	0	3.67	0.50	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
All Years	32598	0	3.68	0.30	0.00	0.00	0.00	0.00	0.00	0.00	1500.15

Table B.63b. Model Information for the Relationship between TRI Compounds (Total Air) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52295	$\sigma_{11}^2 = 0.387$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	air_tot	0.000	0.000	0.644	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48729	$\sigma_{11}^2 = 0.379$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	air_tot	0.000	0.000	0.655	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87154	$\sigma_{11}^2 = 0.373$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	air_tot	-0.001	0.000	0.069	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139761	$\sigma_{11}^2 = 0.538$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	air_tot	-0.001	0.000	0.022	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.945	0.032	<.001	177396	$\sigma_{11}^2 = 0.487$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	air_tot	-0.001	0.000	0.151	.	$\sigma_{22}^2 = 0.003$	

TRI Compounds (Fugitive Air)

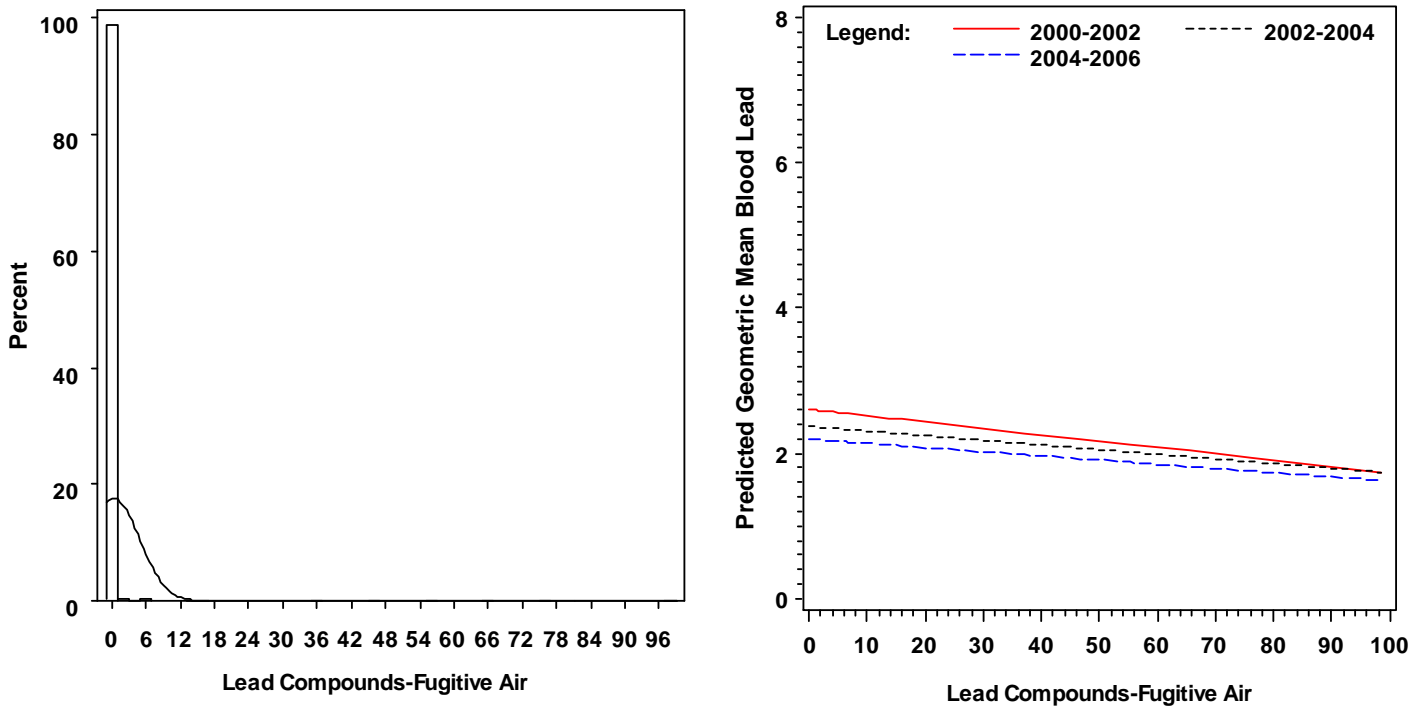


Figure B.64. TRI Compounds (Fugitive Air): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.64a. Summary Information for TRI Compounds (Fugitive Air) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	0.33	0.04	0.00	0.00	0.00	0.00	0.00	0.00	98.50
2002-2004	10432	0	0.34	0.04	0.00	0.00	0.00	0.00	0.00	0.00	98.50
2004-2006	11749	0	0.34	0.04	0.00	0.00	0.00	0.00	0.00	0.00	98.50
All Years	32598	0	0.34	0.03	0.00	0.00	0.00	0.00	0.00	0.00	98.50

Table B.64b. Model Information for the Relationship between TRI Compounds (Fugitive Air) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52288	$\sigma_{11}^2 = 0.386$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	air_fug	-0.005	0.003	0.079	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.017	<.001	48721	$\sigma_{11}^2 = 0.377$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	air_fug	-0.005	0.003	0.069	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87146	$\sigma_{11}^2 = 0.373$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	air_fug	-0.009	0.004	0.024	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.648	0.025	<.001	139750	$\sigma_{11}^2 = 0.541$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.023$	
	air_fug	-0.012	0.005	0.014	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177400	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	air_fug	-0.009	0.005	0.110	.	$\sigma_{22}^2 = 0.003$	

TRI Compounds-Air Lead from Stacks

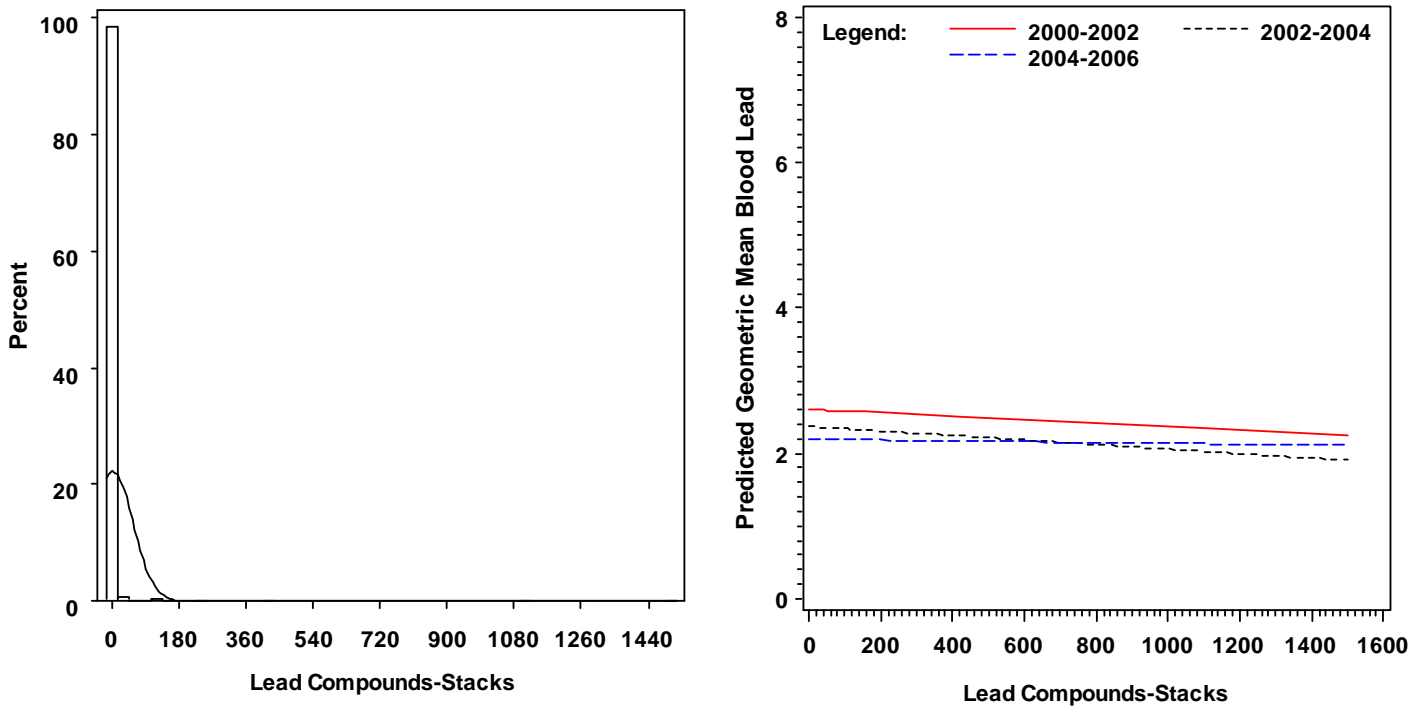


Figure B.65. TRI Compounds (Air Lead from Stacks): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.65a. Summary Information for TRI Compounds (Air Lead from Stacks) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	3.34	0.53	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
2002-2004	10432	0	3.34	0.53	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
2004-2006	11749	0	3.33	0.50	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
All Years	32598	0	3.34	0.30	0.00	0.00	0.00	0.00	0.00	0.00	1500.15

Table B.65b. Model Information for the Relationship between TRI Compounds (Air Lead from Stacks) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52296	$\sigma_{11}^2 = 0.387$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	air_stk	0.000	0.000	0.750	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48729	$\sigma_{11}^2 = 0.379$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	air_stk	0.000	0.000	0.765	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87154	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	air_stk	-0.001	0.000	0.099	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139762	0.538	
	time	-0.126	0.004	<.001	.	-0.022	
	air_stk	-0.001	0.000	0.035	.	0.004	
5	Intercept	-4.945	0.032	<.001	177396	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	air_stk	-0.001	0.000	0.186	.	$\sigma_{22}^2 = 0.003$	

TRI Compounds-Water Surface

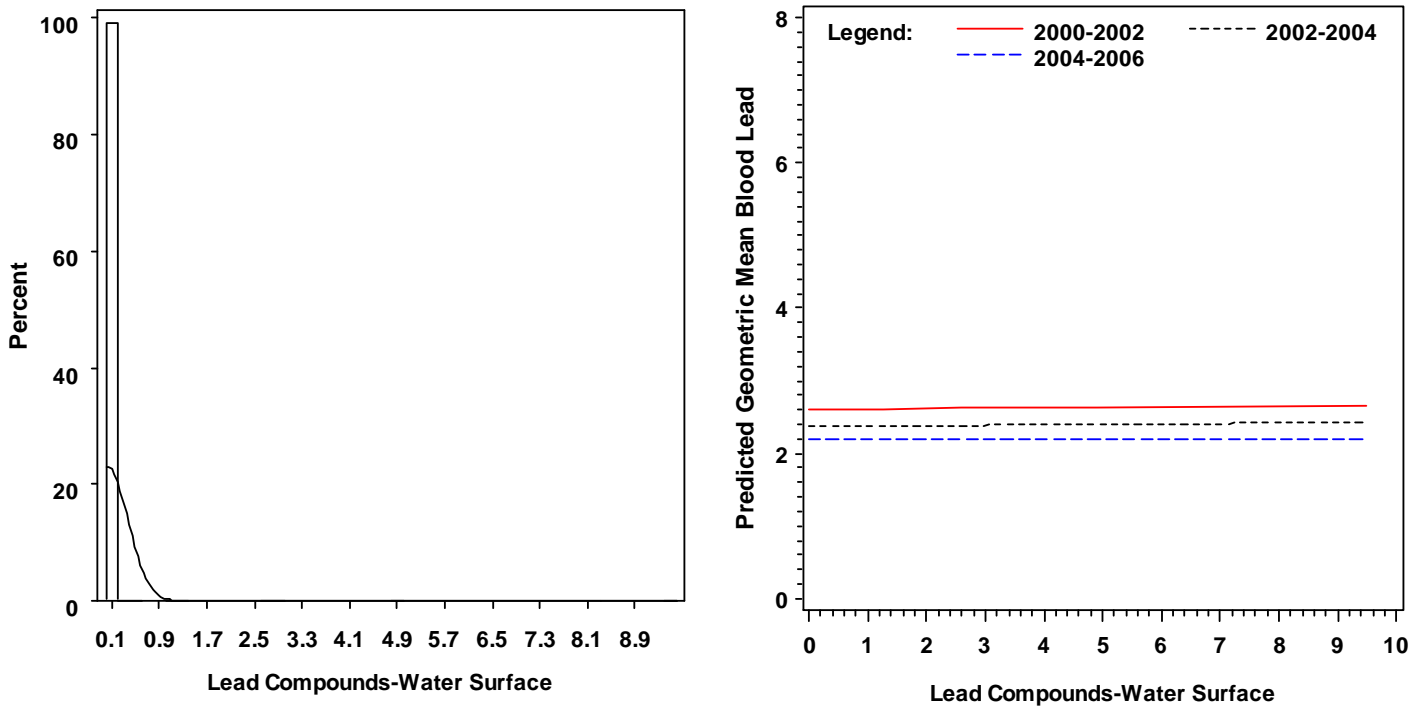


Figure B.66. TRI Compounds (Water Surface): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.66a. Summary Information for TRI Compounds (Water Surface) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50
2002-2004	10432	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50
2004-2006	11749	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50
All Years	32598	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50

Table B.66b. Model Information for the Relationship between TRI Compounds (Water Surface) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52286	$\sigma_{11}^2 = 0.387$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	water_surf	0.007	0.039	0.848	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48719	$\sigma_{11}^2 = 0.379$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	water_surf	0.011	0.038	0.781	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87147	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	water_surf	-0.030	0.050	0.557	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139753	$\sigma_{11}^2 = 0.541$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	water_surf	0.008	0.058	0.896	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177392	$\sigma_{11}^2 = 0.489$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	water_surf	0.034	0.059	0.560	.	$\sigma_{22}^2 = 0.003$	

TRI Lead Only (Total Air)

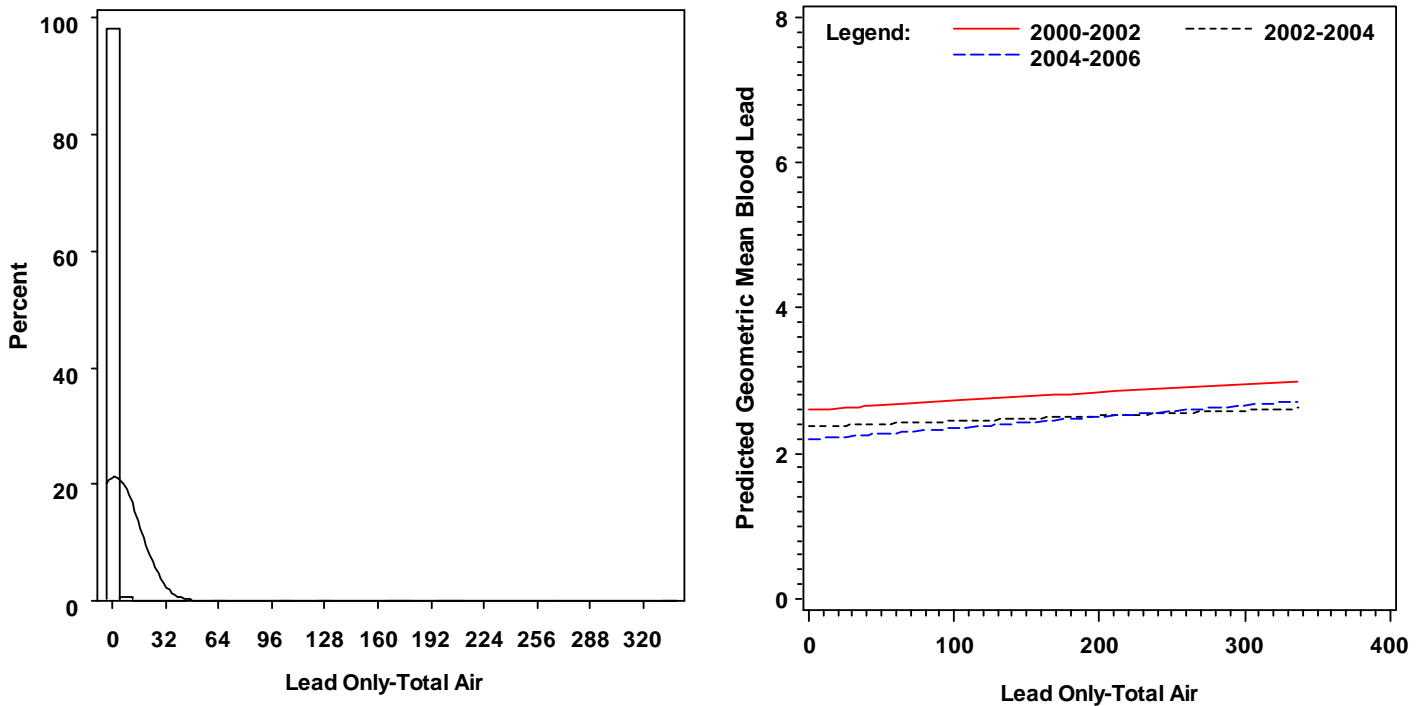


Figure B.67. TRI Lead Only (Total Air): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.67a. Summary Information for TRI Lead Only (Total Air) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	1.27	0.15	0.00	0.00	0.00	0.00	0.00	0.00	336.50
2002-2004	10432	0	1.27	0.15	0.00	0.00	0.00	0.00	0.00	0.00	336.50
2004-2006	11749	0	1.27	0.14	0.00	0.00	0.00	0.00	0.00	0.00	336.50
All Years Combined	32598	0	1.27	0.08	0.00	0.00	0.00	0.00	0.00	0.00	336.50

Table B.67b. Model Information for the Relationship between TRI Lead Only (Total Air) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52291	$\sigma_{11}^2 = 0.387$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	air_tot	0.001	0.001	0.149	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48724	$\sigma_{11}^2 = 0.379$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	air_tot	0.001	0.001	0.127	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87153	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	air_tot	0.002	0.001	0.090	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139763	$\sigma_{11}^2 = 0.540$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	air_tot	0.002	0.001	0.166	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177405	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	air_tot	0.001	0.001	0.426	.	$\sigma_{22}^2 = 0.003$	

TRI Lead Only (Fugitive Air)

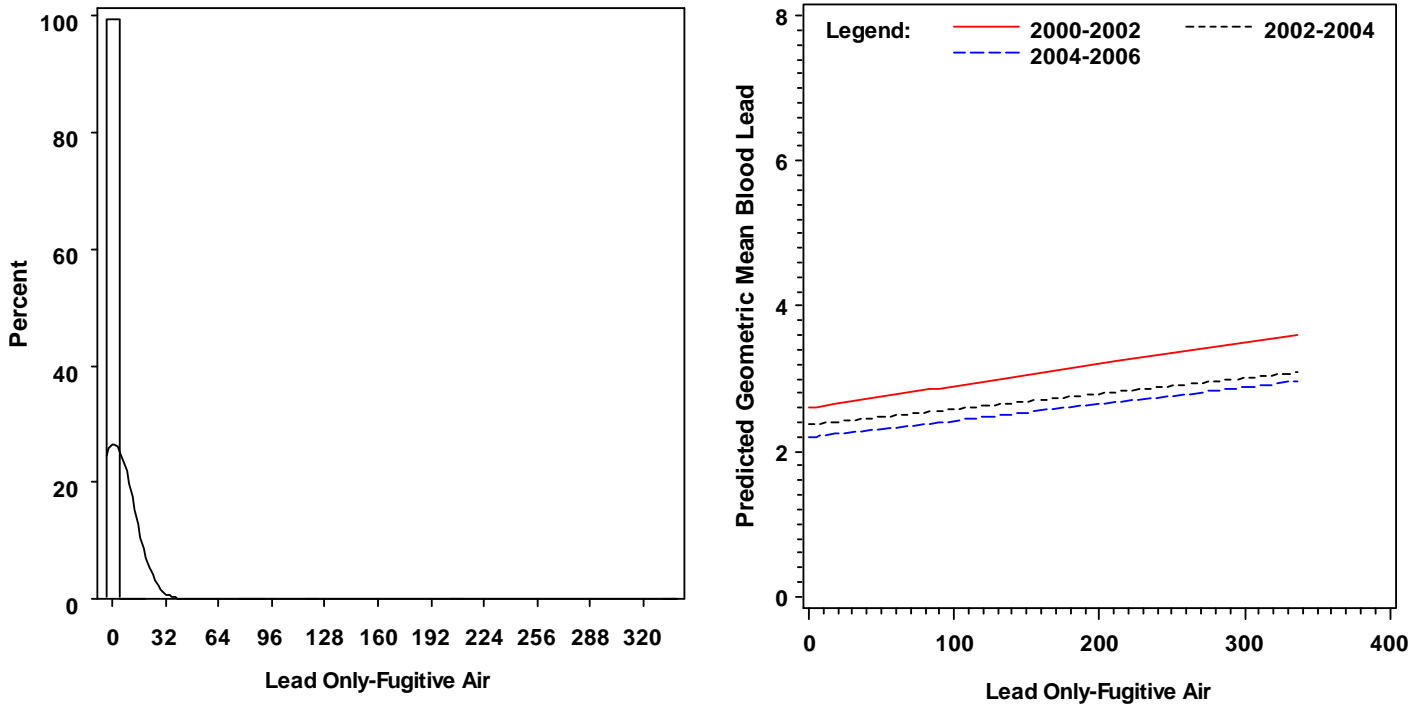


Figure B.68. TRI Lead Only (Fugitive Air): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.68a. Summary Information for TRI Lead Only (Fugitive Air) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	0.68	0.12	0.00	0.00	0.00	0.00	0.00	0.00	336.00
2002-2004	10432	0	0.68	0.12	0.00	0.00	0.00	0.00	0.00	0.00	336.00
2004-2006	11749	0	0.68	0.11	0.00	0.00	0.00	0.00	0.00	0.00	336.00
All Years Combined	32598	0	0.68	0.07	0.00	0.00	0.00	0.00	0.00	0.00	336.00

Table B.68b. Model Information for the Relationship between TRI Lead Only (Fugitive Air) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52290	$\sigma_{11}^2 = 0.386$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	air_fug	0.002	0.001	0.081	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.017	<.001	48723	$\sigma_{11}^2 = 0.378$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	air_fug	0.002	0.001	0.066	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87151	$\sigma_{11}^2 = 0.373$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	air_fug	0.003	0.001	0.056	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139759	$\sigma_{11}^2 = 0.539$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	air_fug	0.003	0.002	0.048	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177404	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	air_fug	0.002	0.002	0.199	.	$\sigma_{22}^2 = 0.003$	

TRI Lead Only-Air Lead from Stacks

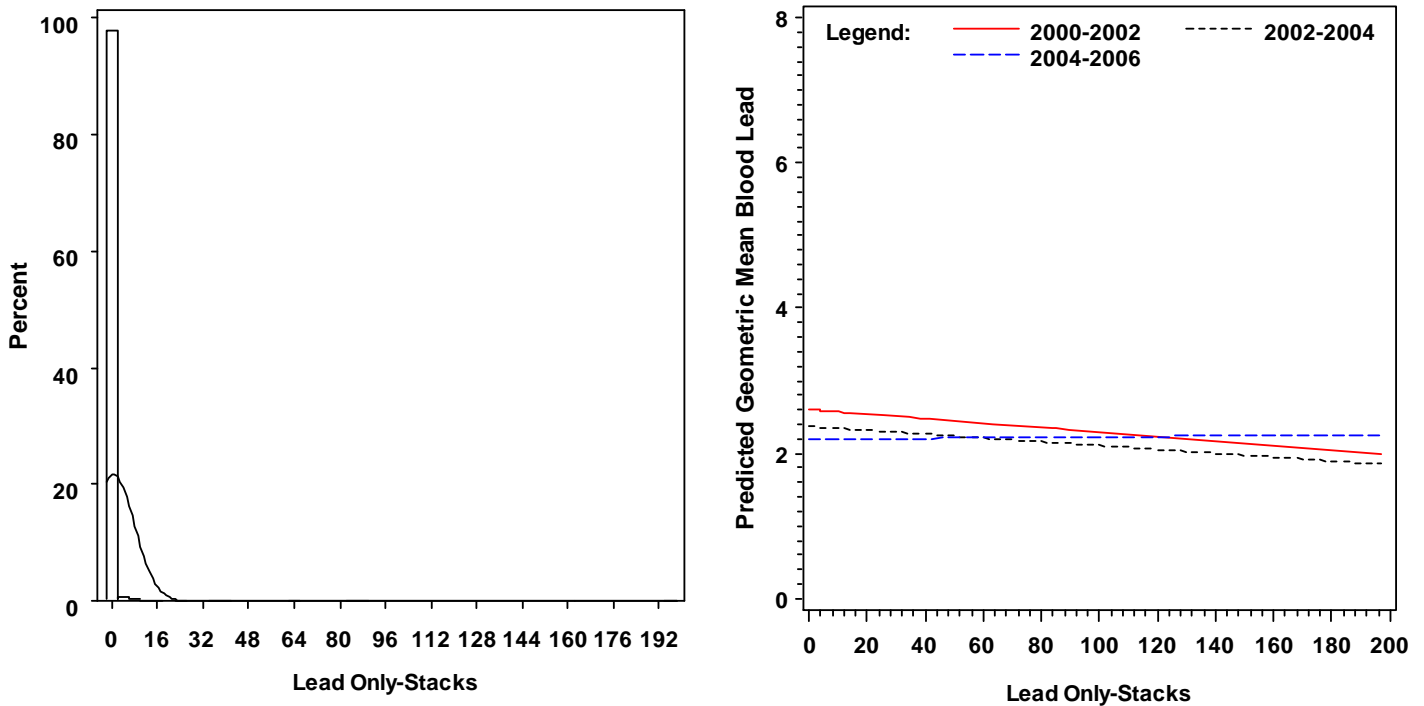


Figure B.69. TRI Lead Only (Air Lead from Stacks): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.69a. Summary Information for TRI Lead Only (Air Lead from Stacks) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	0.59	0.07	0.00	0.00	0.00	0.00	0.00	0.00	197.00
2002-2004	10432	0	0.59	0.07	0.00	0.00	0.00	0.00	0.00	0.00	197.00
2004-2006	11749	0	0.59	0.07	0.00	0.00	0.00	0.00	0.00	0.00	197.00
All Years Combined	32598	0	0.59	0.04	0.00	0.00	0.00	0.00	0.00	0.00	197.00

Table B.69b. Model Information for the Relationship between TRI Lead Only (Air Lead from Stacks) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52292	$\sigma_{11}^2 = 0.387$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	air_stk	0.000	0.002	0.931	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48725	$\sigma_{11}^2 = 0.379$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	air_stk	0.000	0.002	0.906	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87154	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	air_stk	0.001	0.002	0.739	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139757	$\sigma_{11}^2 = 0.540$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	air_stk	-0.001	0.003	0.650	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.945	0.032	<.001	177391	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	air_stk	-0.001	0.003	0.627	.	$\sigma_{22}^2 = 0.003$	

TRI Lead Only-Water Surface

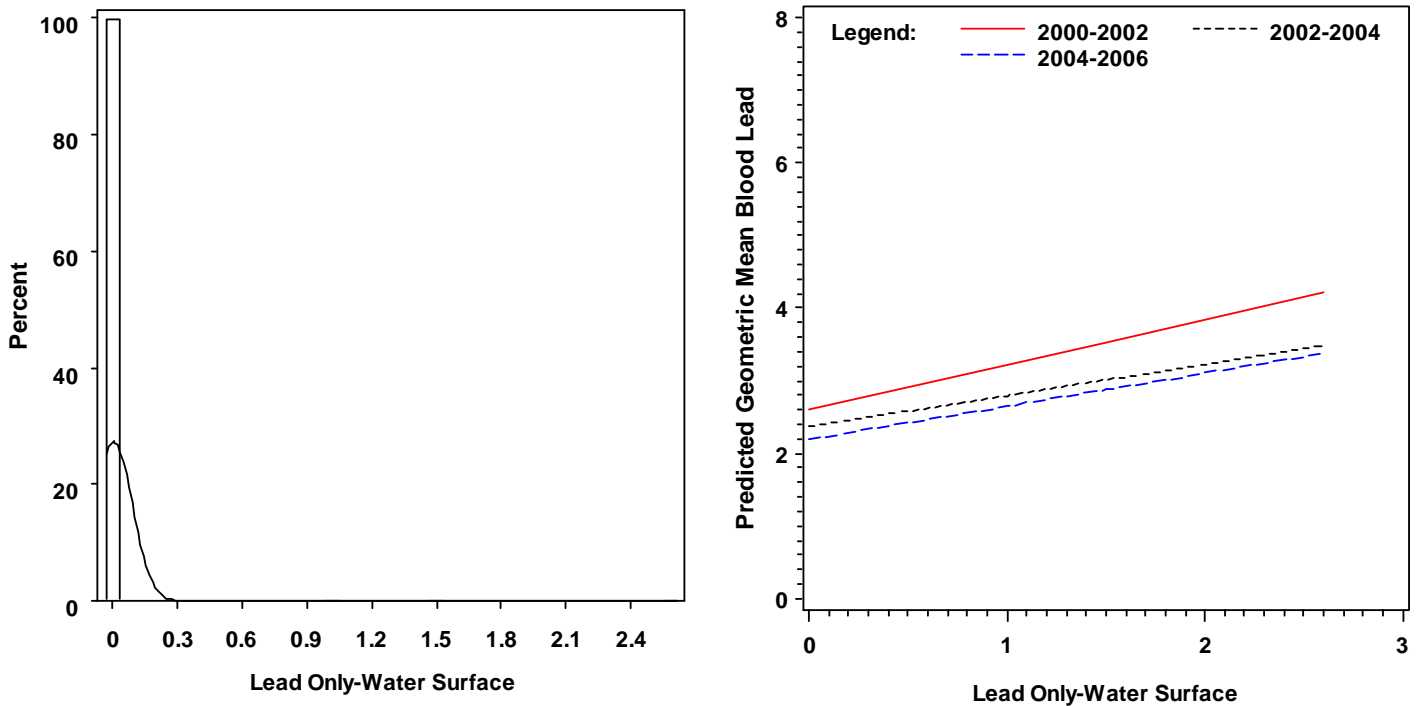


Figure B.70. TRI Lead Only (Water Surface): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.70a. Summary Information for TRI Lead Only (Water Surface) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60
2002-2004	10432	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60
2004-2006	11749	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60
All Years Combined	32598	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60

Table B.70b. Model Information for the Relationship between TRI Lead Only (Water Surface) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52274	$\sigma_{11}^2 = 0.385$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	water_surf	0.441	0.151	0.004	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.017	<.001	48708	$\sigma_{11}^2 = 0.377$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	water_surf	0.421	0.153	0.006	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87138	$\sigma_{11}^2 = 0.373$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	water_surf	0.449	0.195	0.021	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139746	$\sigma_{11}^2 = 0.540$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.023$	
	water_surf	0.497	0.219	0.023	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177386	$\sigma_{11}^2 = 0.489$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	water_surf	0.314	0.234	0.179	.	$\sigma_{22}^2 = 0.003$	

TRI Total Lead (Total Air)

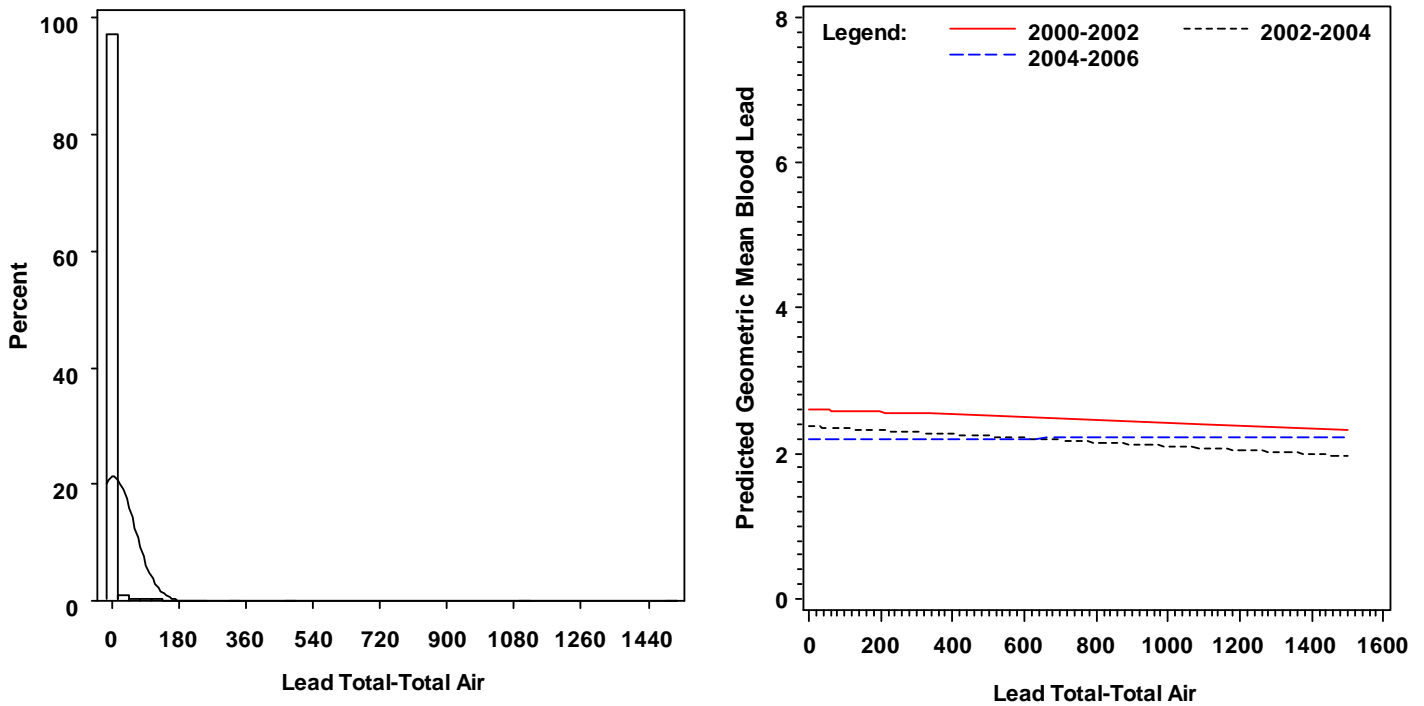


Figure B.71. TRI Total Lead (Total Air): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.71a. Summary Information for TRI Total Lead (Total Air) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	4.80	0.55	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
2002-2004	10432	0	4.80	0.55	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
2004-2006	11749	0	4.80	0.52	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
All Years	32598	0	4.80	0.31	0.00	0.00	0.00	0.00	0.00	0.00	1500.15

Table B.71b. Model Information for the Relationship between TRI Total Lead (Total Air) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52296	$\sigma_{11}^2 = 0.387$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	air_tot	0.000	0.000	0.956	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48729	$\sigma_{11}^2 = 0.379$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	air_tot	0.000	0.000	0.986	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87155	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	air_tot	0.000	0.000	0.194	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139760	$\sigma_{11}^2 = 0.539$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	air_tot	-0.001	0.000	0.071	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.945	0.032	<.001	177392	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	air_tot	0.000	0.000	0.254	.	$\sigma_{22}^2 = 0.003$	

TRI Total Lead (Fugitive Air)

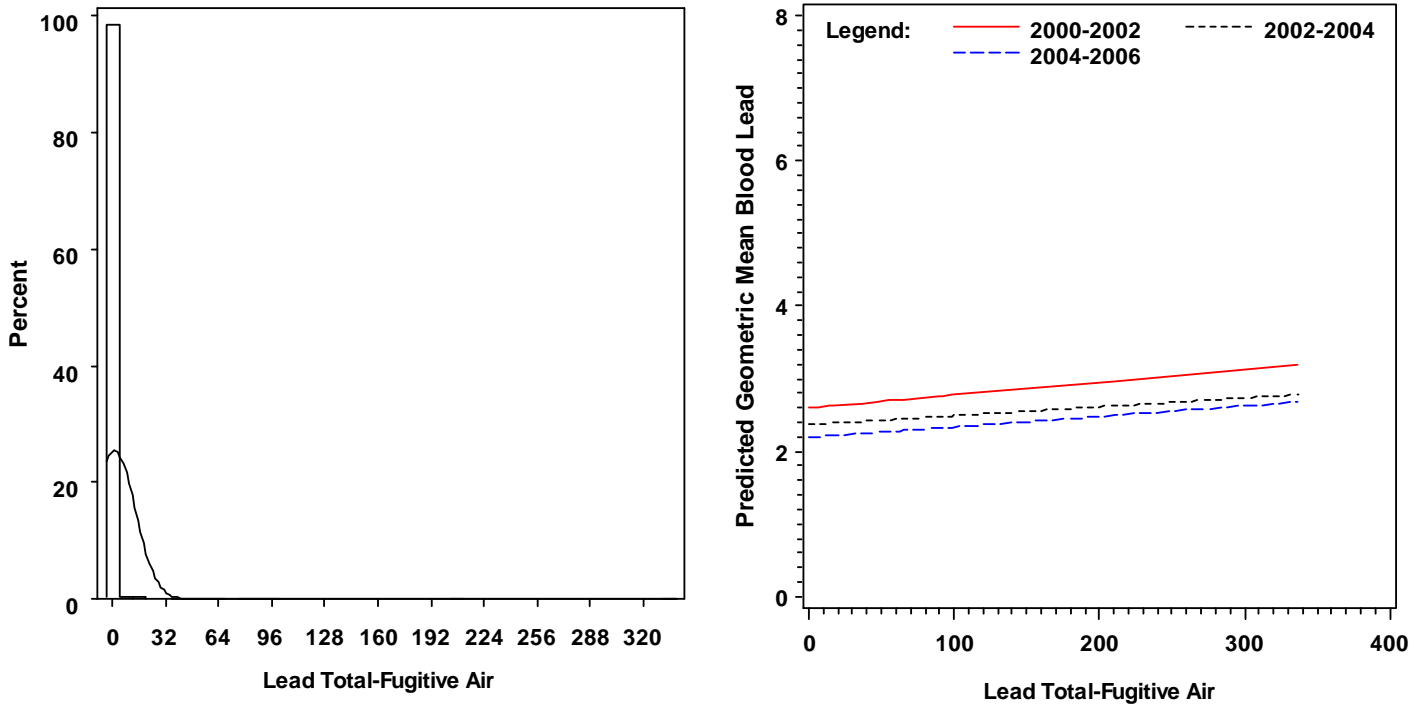


Figure B.72. TRI Total Lead (Fugitive Air): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.72a. Summary Information for TRI Total Lead (Fugitive Air) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	0.97	0.12	0.00	0.00	0.00	0.00	0.00	0.00	336.00
2002-2004	10432	0	0.98	0.12	0.00	0.00	0.00	0.00	0.00	0.00	336.00
2004-2006	11749	0	0.97	0.12	0.00	0.00	0.00	0.00	0.00	0.00	336.00
All Years	32598	0	0.97	0.07	0.00	0.00	0.00	0.00	0.00	0.00	336.00

Table B.72b. Model Information for the Relationship between TRI Total Lead (Fugitive Air) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52292	$\sigma_{11}^2 = 0.387$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	air_fug	0.001	0.001	0.265	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.017	<.001	48725	$\sigma_{11}^2 = 0.378$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	air_fug	0.001	0.001	0.237	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87154	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	air_fug	0.002	0.001	0.268	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139762	$\sigma_{11}^2 = 0.540$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	air_fug	0.002	0.002	0.240	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.945	0.032	<.001	177402	$\sigma_{11}^2 = 0.488$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	air_fug	0.001	0.002	0.411	.	$\sigma_{22}^2 = 0.003$	

TRI Total Lead-Air Lead from Stacks

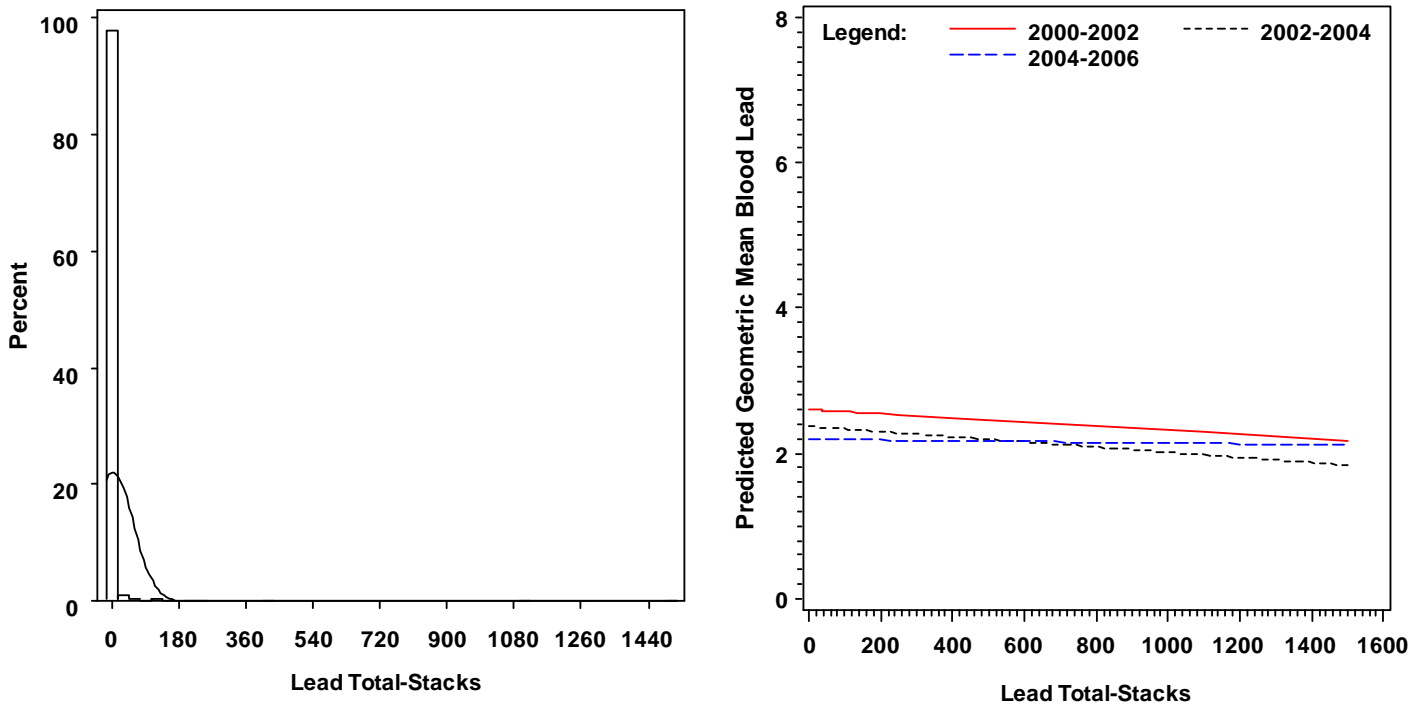


Figure B.73. TRI Total Lead (Air Lead from Stacks): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.73a. Summary Information for TRI Total Lead (Air Lead from Stacks) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	3.83	0.53	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
2002-2004	10432	0	3.83	0.53	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
2004-2006	11749	0	3.82	0.50	0.00	0.00	0.00	0.00	0.00	0.00	1500.15
All Years	32598	0	3.83	0.30	0.00	0.00	0.00	0.00	0.00	0.00	1500.15

Table B.73b. Model Information for the Relationship between TRI Total Lead (Air Lead from Stacks) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52296	$\sigma_{11}^2 = 0.387$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	air_stk	0.000	0.000	0.753	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48729	$\sigma_{11}^2 = 0.379$	$\sigma_{\text{error}}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	air_stk	0.000	0.000	0.773	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87154	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	air_stk	-0.001	0.000	0.108	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139761	$\sigma_{11}^2 = 0.538$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	air_stk	-0.001	0.000	0.029	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.945	0.032	<.001	177393	$\sigma_{11}^2 = 0.487$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	air_stk	-0.001	0.000	0.167	.	$\sigma_{22}^2 = 0.003$	

TRI Total Lead-Water Surface

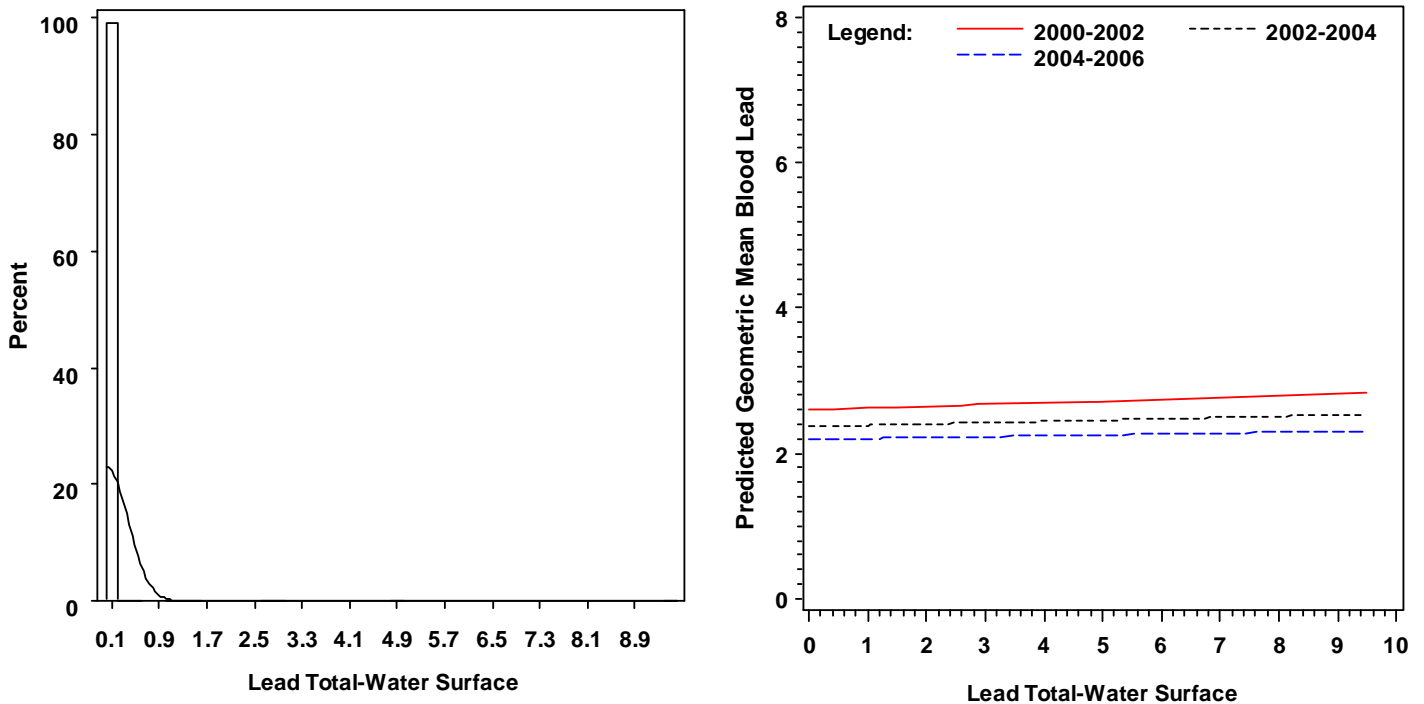


Figure B.74. TRI Total Lead (Water Surface): Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.74a. Summary Information for TRI Total Lead (Water Surface) by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	10417	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50
2002-2004	10432	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50
2004-2006	11749	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50
All Years	32598	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50

Table B.74b. Model Information for the Relationship between TRI Total Lead (Water Surface) and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.649	0.018	<.001	52285	$\sigma_{11}^2 = 0.387$	$\sigma_{error}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	water_surf	0.019	0.038	0.626	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.636	0.018	<.001	48719	$\sigma_{11}^2 = 0.379$	$\sigma_{error}^2 = 4.428$
	time	-0.082	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	water_surf	0.021	0.038	0.582	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.735	0.018	<.001	87147	$\sigma_{11}^2 = 0.374$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.006$	
	water_surf	-0.014	0.050	0.777	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.647	0.025	<.001	139753	$\sigma_{11}^2 = 0.541$	
	time	-0.126	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	water_surf	0.019	0.058	0.737	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.946	0.032	<.001	177393	$\sigma_{11}^2 = 0.489$	
	time	-0.094	0.007	<.001	.	$\sigma_{21}^2 = -0.029$	
	water_surf	0.046	0.058	0.427	.	$\sigma_{22}^2 = 0.003$	

P1: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 1

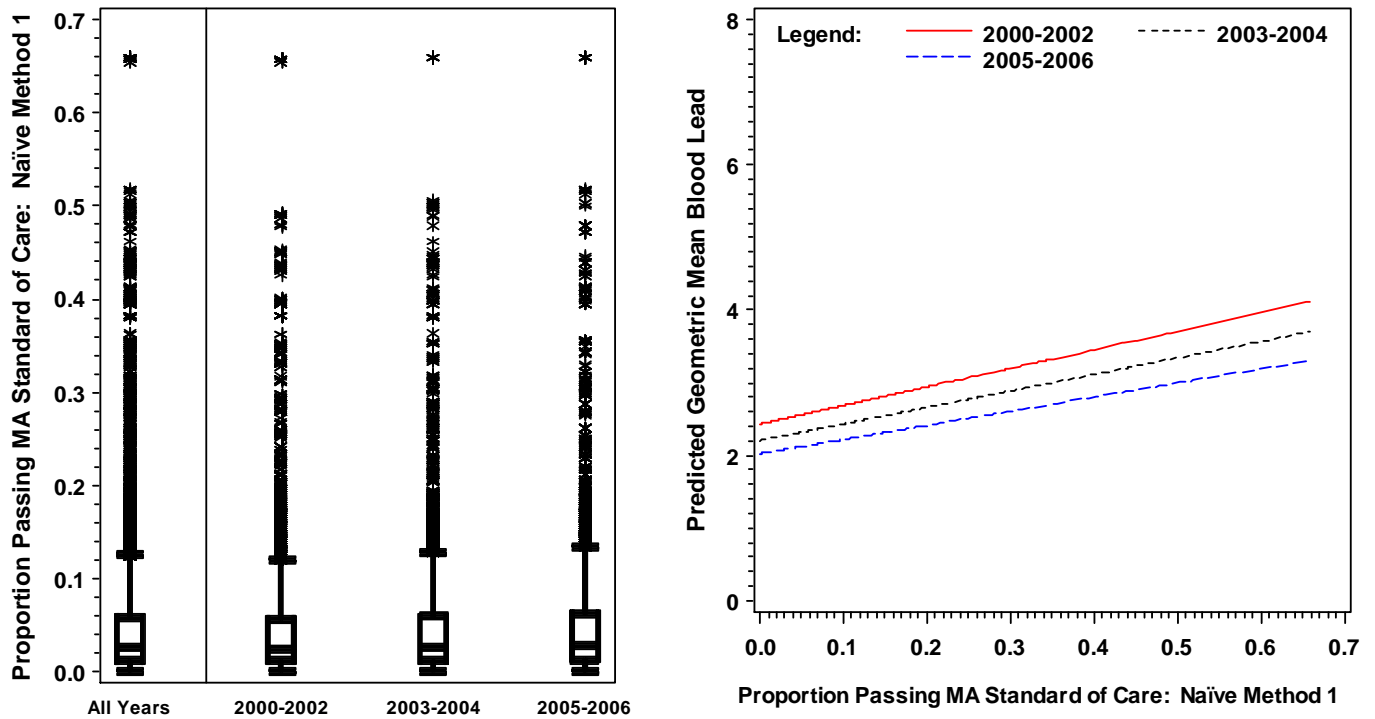


Figure B.75. P1: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 1: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.75a. Summary Information for P1: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 1 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.04	0.00	0.00	0.01	0.01	0.02	0.06	0.11	0.66
2003-2004	10446	4	0.05	0.00	0.00	0.01	0.01	0.03	0.06	0.12	0.66
2005-2006	10413	4	0.05	0.00	0.00	0.01	0.01	0.03	0.06	0.12	0.66
All Years	36473	11	0.05	0.00	0.00	0.01	0.01	0.02	0.06	0.11	0.66

Table B.75b. Model Information for the Relationship between P1: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 1 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.655	0.017	<.001	52214	$\sigma_{11}^2 = 0.371$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.086	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	p1	1.626	0.192	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.643	0.017	<.001	48643	$\sigma_{11}^2 = 0.363$	$\sigma_{\text{error}}^2 = 4.430$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	p1	1.667	0.190	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.724	0.017	<.001	87070	$\sigma_{11}^2 = 0.344$	
	time	-0.143	0.003	<.001	.	$\sigma_{21}^2 = -0.006$	
	p1	2.425	0.260	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.630	0.024	<.001	139775	$\sigma_{11}^2 = 0.492$	
	time	-0.131	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	p1	2.795	0.311	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.930	0.031	<.001	177816	$\sigma_{11}^2 = 0.434$	
	time	-0.100	0.007	<.001	.	$\sigma_{21}^2 = -0.027$	
	p1	2.931	0.325	<.001	.	$\sigma_{22}^2 = 0.003$	

F1: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 1

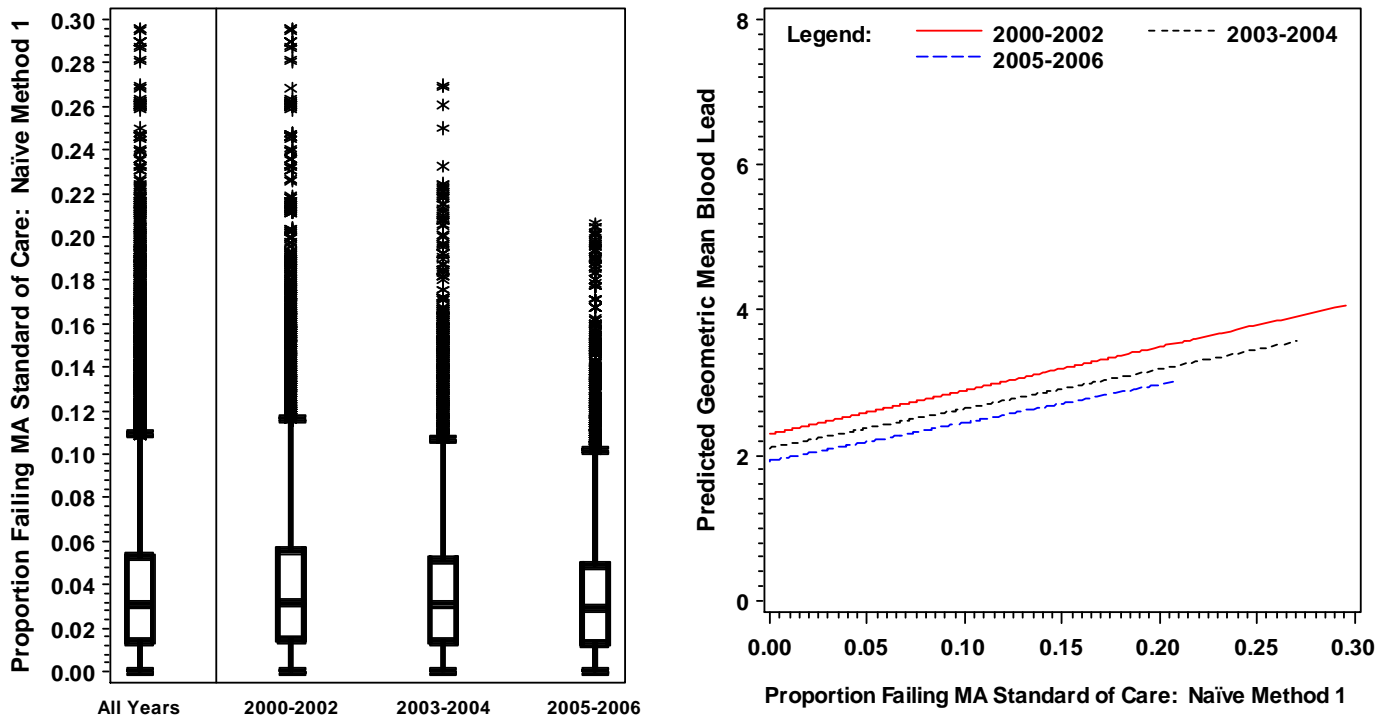


Figure B.76. F1: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 1: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.76a. Summary Information for F1: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 1 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.04	0.00	0.00	0.01	0.02	0.03	0.06	0.09	0.30
2003-2004	10446	4	0.04	0.00	0.00	0.01	0.01	0.03	0.05	0.08	0.27
2005-2006	10413	4	0.04	0.00	0.00	0.01	0.01	0.03	0.05	0.08	0.21
All Years	36473	11	0.04	0.00	0.00	0.01	0.01	0.03	0.05	0.09	0.30

Table B.76b. Model Information for the Relationship between F1: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 1 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.634	0.017	<.001	52109	$\sigma_{11}^2 = 0.338$	$\sigma_{error}^2 = 0.207$
	time	-0.079	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	f1	4.312	0.313	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.621	0.016	<.001	48548	$\sigma_{11}^2 = 0.328$	$\sigma_{error}^2 = 4.432$
	time	-0.078	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	f1	4.113	0.302	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.756	0.016	<.001	86917	$\sigma_{11}^2 = 0.290$	
	time	-0.133	0.003	<.001	.	$\sigma_{21}^2 = -0.004$	
	f1	5.572	0.346	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.678	0.023	<.001	139803	$\sigma_{11}^2 = 0.391$	
	time	-0.118	0.004	<.001	.	$\sigma_{21}^2 = -0.016$	
	f1	8.092	0.451	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.985	0.030	<.001	178521	$\sigma_{11}^2 = 0.339$	
	time	-0.087	0.007	<.001	.	$\sigma_{21}^2 = -0.021$	
	f1	7.679	0.488	<.001	.	$\sigma_{22}^2 = 0.003$	

N1: Proportion of Housing Units Assessed: Naïve Method 1

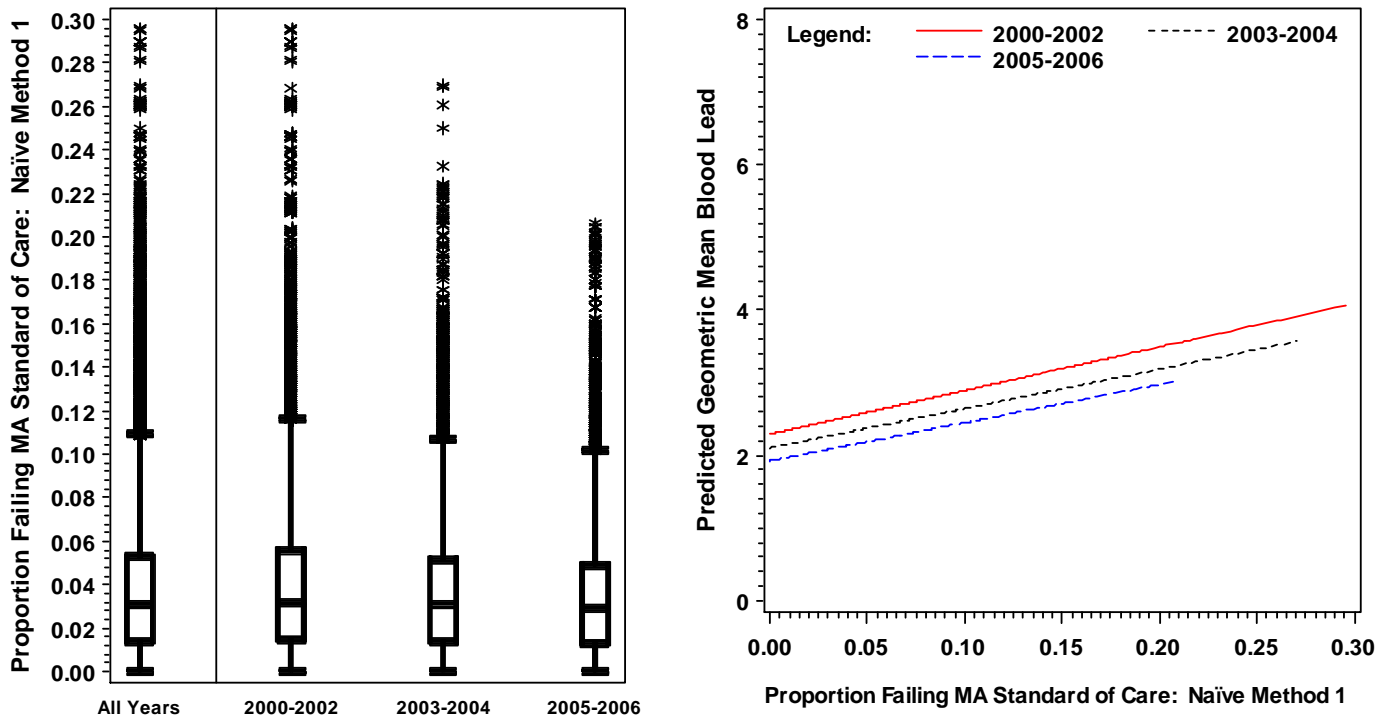


Figure B.77. N1: Proportion of Housing Units Assessed: Naïve Method 1: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.77a. Summary Information for N1: Proportion of Housing Units Assessed: Naïve Method 1 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.0870	0.0007	0.0007	0.0167	0.0311	0.0584	0.1113	0.1926	0.7122
2003-2004	10446	4	0.0869	0.0008	0.0007	0.0167	0.0311	0.0584	0.1114	0.1926	0.7122
2005-2006	10413	4	0.0871	0.0009	0.0007	0.0167	0.0312	0.0584	0.1114	0.1926	0.7122
All Years	36473	11	0.0870	0.0005	0.0007	0.0167	0.0312	0.0584	0.1114	0.1926	0.7122

Table B.77b. Model Information for the Relationship between N1: Proportion of Housing Units Assessed: Naïve Method 1 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.650	0.017	<.001	52132	$\sigma_{11}^2 = 0.351$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.084	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	n1	1.814	0.143	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.637	0.017	<.001	48555	$\sigma_{11}^2 = 0.342$	$\sigma_{\text{error}}^2 = 4.429$
	time	-0.083	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	n1	1.880	0.143	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.733	0.017	<.001	86963	$\sigma_{11}^2 = 0.308$	
	time	-0.140	0.002	<.001	.	$\sigma_{21}^2 = -0.004$	
	n1	2.708	0.181	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.639	0.023	<.001	139849	$\sigma_{11}^2 = 0.433$	
	time	-0.129	0.004	<.001	.	$\sigma_{21}^2 = -0.018$	
	n1	2.999	0.210	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.943	0.031	<.001	178225	$\sigma_{11}^2 = 0.378$	
	time	-0.098	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	n1	2.782	0.216	<.001	.	$\sigma_{22}^2 = 0.003$	

P2: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 2

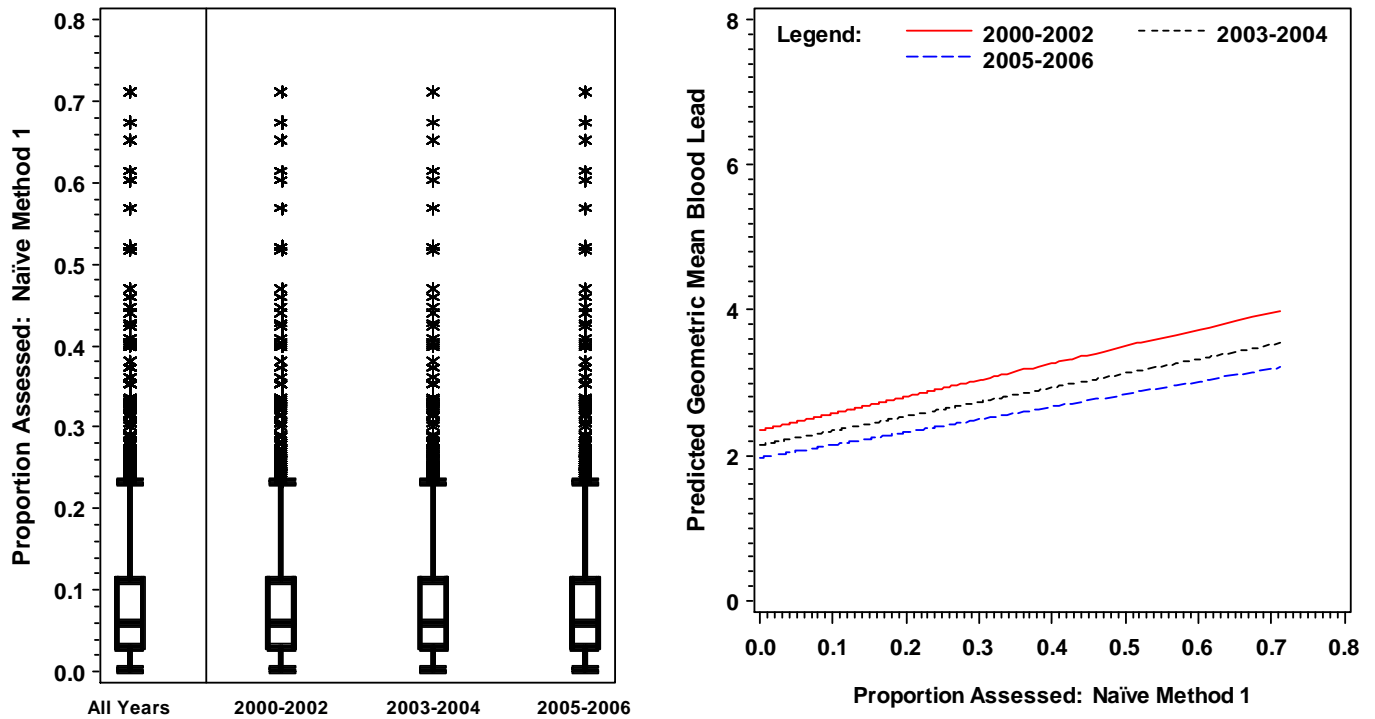


Figure B.78. P2: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 2: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.78a. Summary Information for P2: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 2 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.04	0.00	0.00	0.01	0.01	0.02	0.05	0.09	0.66
2003-2004	10446	4	0.04	0.00	0.00	0.01	0.01	0.02	0.06	0.11	0.66
2005-2006	10413	4	0.05	0.00	0.00	0.01	0.01	0.03	0.06	0.12	0.66
All Years	36473	11	0.04	0.00	0.00	0.01	0.01	0.02	0.05	0.10	0.66

Table B.78b. Model Information for the Relationship between P2: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 2 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.659	0.017	<.001	52241	$\sigma_{11}^2 = 0.375$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.087	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	p2	1.146	0.172	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.647	0.017	<.001	48671	$\sigma_{11}^2 = 0.367$	$\sigma_{\text{error}}^2 = 4.431$
	time	-0.086	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	p2	1.167	0.170	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.717	0.018	<.001	87101	$\sigma_{11}^2 = 0.350$	
	time	-0.145	0.003	<.001	.	$\sigma_{21}^2 = -0.007$	
	p2	1.834	0.242	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.618	0.024	<.001	139768	$\sigma_{11}^2 = 0.498$	
	time	-0.135	0.004	<.001	.	$\sigma_{21}^2 = -0.023$	
	p2	2.534	0.309	<.001	.	$\sigma_{22}^2 = 0.005$	
5	Intercept	-4.912	0.031	<.001	177801	$\sigma_{11}^2 = 0.434$	
	time	-0.106	0.007	<.001	.	$\sigma_{21}^2 = -0.028$	
	p2	2.995	0.335	<.001	.	$\sigma_{22}^2 = 0.004$	

F2: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 2

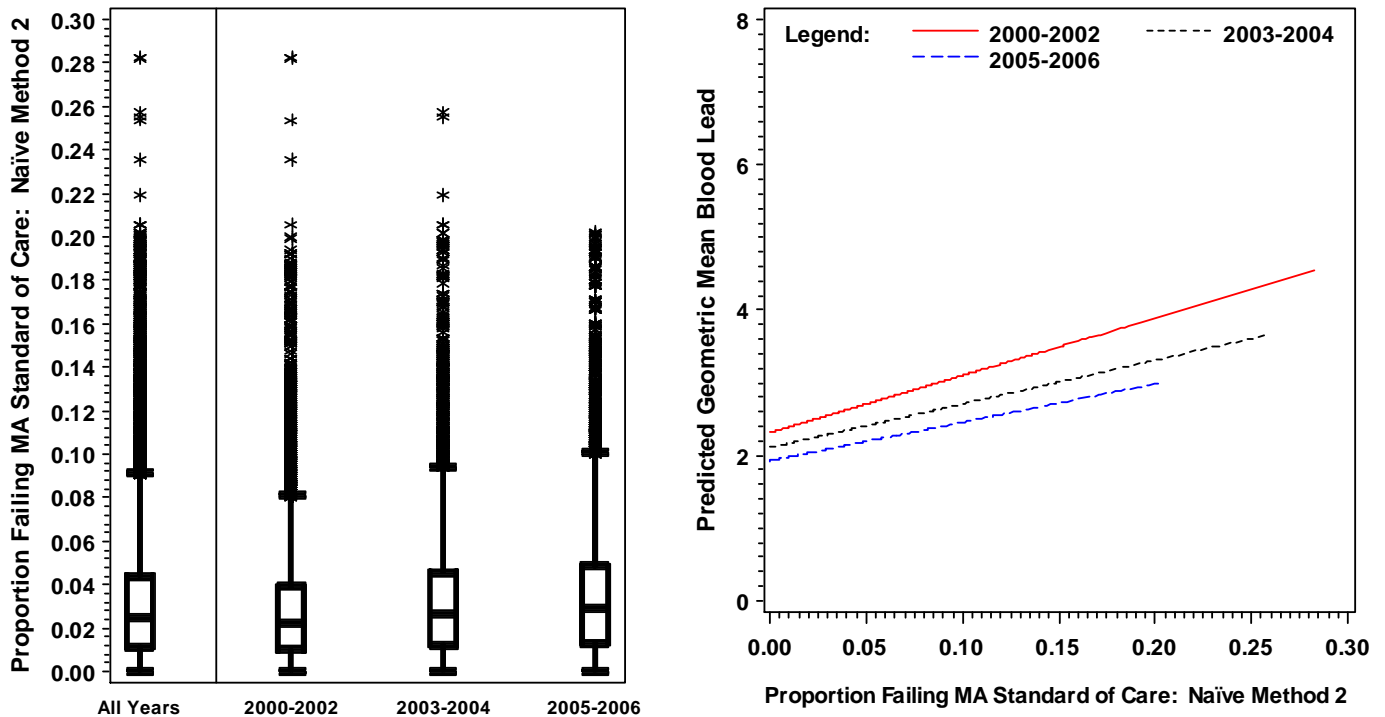


Figure B.79. F2: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 2: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.79a. Summary Information for F2: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 2 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.03	0.00	0.00	0.01	0.01	0.02	0.04	0.06	0.28
2003-2004	10446	4	0.03	0.00	0.00	0.01	0.01	0.03	0.05	0.07	0.26
2005-2006	10413	4	0.04	0.00	0.00	0.01	0.01	0.03	0.05	0.08	0.20
All Years	36473	11	0.03	0.00	0.00	0.01	0.01	0.02	0.04	0.07	0.28

Table B.79b. Model Information for the Relationship between F2: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 2 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.667	0.017	<.001	52200	$\sigma_{11}^2 = 0.358$	$\sigma_{\text{error}}^2 = 0.208$
	time	-0.089	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	f2	3.155	0.329	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.652	0.017	<.001	48645	$\sigma_{11}^2 = 0.352$	$\sigma_{\text{error}}^2 = 4.434$
	time	-0.087	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	f2	2.835	0.319	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.702	0.017	<.001	87046	$\sigma_{11}^2 = 0.316$	
	time	-0.149	0.003	<.001	.	$\sigma_{21}^2 = -0.006$	
	f2	5.190	0.426	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.585	0.023	<.001	139861	$\sigma_{11}^2 = 0.425$	
	time	-0.145	0.004	<.001	.	$\sigma_{21}^2 = -0.021$	
	f2	8.138	0.537	<.001	.	$\sigma_{22}^2 = 0.005$	
5	Intercept	-4.884	0.030	<.001	178375	$\sigma_{11}^2 = 0.364$	
	time	-0.116	0.007	<.001	.	$\sigma_{21}^2 = -0.026$	
	f2	8.450	0.588	<.001	.	$\sigma_{22}^2 = 0.005$	

N2: Proportion of Housing Units Assessed: Naïve Method 2

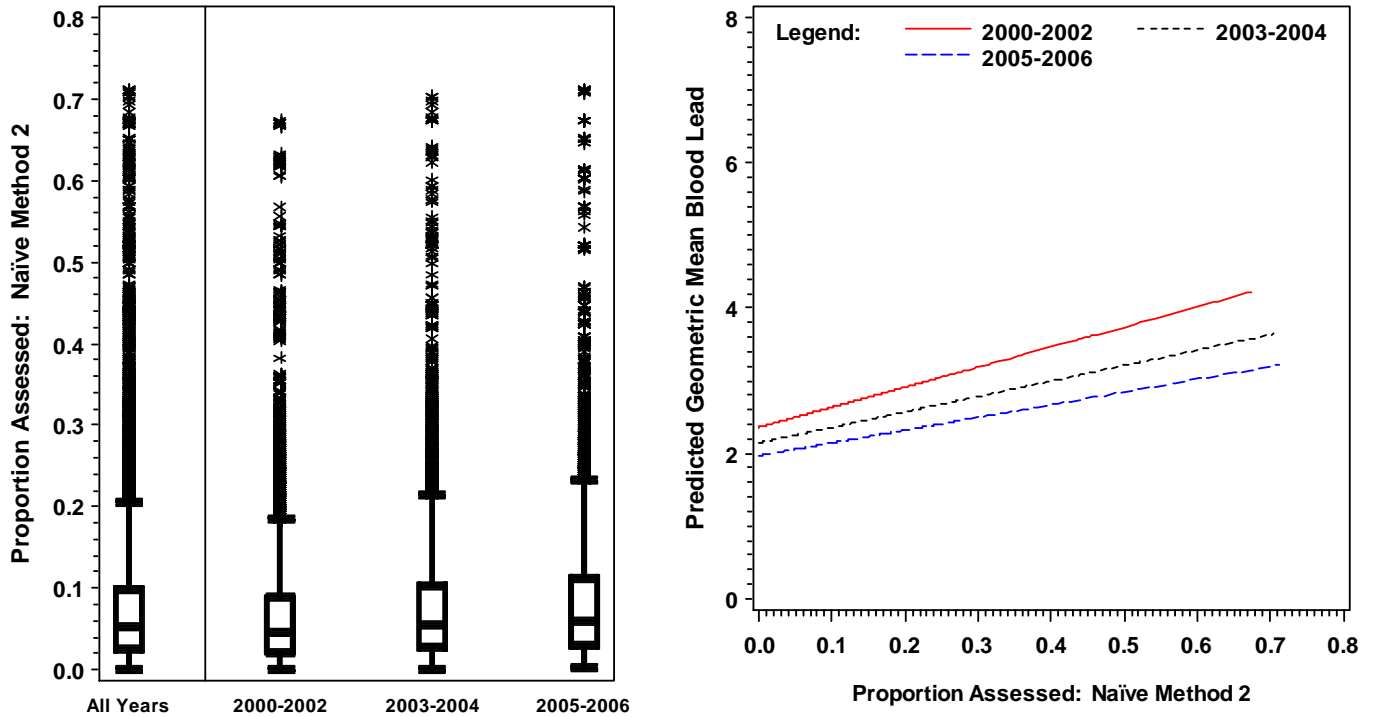


Figure B.80. N2: Proportion of Housing Units Assessed: Naïve Method 2: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.80a. Summary Information for N2: Proportion of Housing Units Assessed: Naïve Method 2 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.0675	0.0006	0.0000	0.0121	0.0227	0.0449	0.0873	0.1491	0.6741
2003-2004	10446	4	0.0795	0.0008	0.0000	0.0149	0.0279	0.0538	0.1022	0.1762	0.7045
2005-2006	10413	4	0.0864	0.0008	0.0007	0.0164	0.0308	0.0581	0.1113	0.1922	0.7122
All Years	36473	11	0.0763	0.0004	0.0000	0.0138	0.0261	0.0513	0.0978	0.1720	0.7122

Table B.80b. Model Information for the Relationship between N2: Proportion of Housing Units Assessed: Naïve Method 2 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.666	0.017	<.001	52208	$\sigma_{11}^2 = 0.364$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.089	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	n2	1.188	0.131	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.654	0.017	<.001	48642	$\sigma_{11}^2 = 0.356$	$\sigma_{\text{error}}^2 = 4.433$
	time	-0.088	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	n2	1.184	0.130	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.702	0.017	<.001	87066	$\sigma_{11}^2 = 0.327$	
	time	-0.150	0.003	<.001	.	$\sigma_{21}^2 = -0.007$	
	n2	2.066	0.184	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.595	0.024	<.001	139826	$\sigma_{11}^2 = 0.457$	
	time	-0.142	0.004	<.001	.	$\sigma_{21}^2 = -0.022$	
	n2	2.676	0.221	<.001	.	$\sigma_{22}^2 = 0.005$	
5	Intercept	-4.892	0.031	<.001	178111	$\sigma_{11}^2 = 0.394$	
	time	-0.113	0.007	<.001	.	$\sigma_{21}^2 = -0.026$	
	n2	2.826	0.235	<.001	.	$\sigma_{22}^2 = 0.004$	

P3: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 3

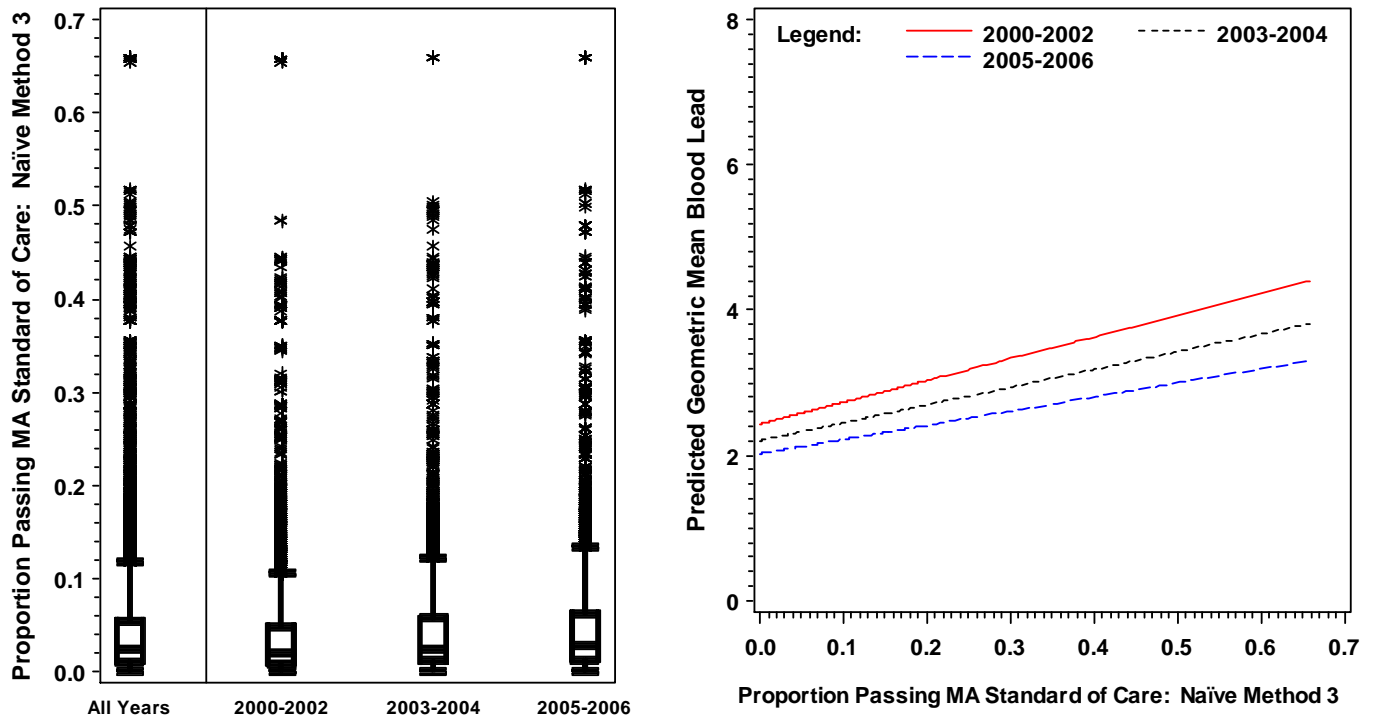


Figure B.81. P3: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 3: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.81a. Summary Information for P3: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 3 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.04	0.00	0.00	0.01	0.01	0.02	0.05	0.09	0.66
2003-2004	10446	4	0.04	0.00	0.00	0.01	0.01	0.02	0.06	0.11	0.66
2005-2006	10413	4	0.05	0.00	0.00	0.01	0.01	0.03	0.06	0.12	0.66
All Years	36473	11	0.04	0.00	0.00	0.01	0.01	0.02	0.05	0.10	0.66

Table B.81b. Model Information for the Relationship between P3: Proportion of Housing Units Passing MA Standard of Care: Naïve Method 3 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.659	0.017	<.001	52241	$\sigma_{11}^2 = 0.375$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.087	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	p3	1.146	0.172	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.647	0.017	<.001	48671	$\sigma_{11}^2 = 0.367$	$\sigma_{\text{error}}^2 = 4.431$
	time	-0.086	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	p3	1.167	0.170	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.717	0.018	<.001	87101	$\sigma_{11}^2 = 0.350$	
	time	-0.145	0.003	<.001	.	$\sigma_{21}^2 = -0.007$	
	p3	1.834	0.242	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.618	0.024	<.001	139768	$\sigma_{11}^2 = 0.498$	
	time	-0.135	0.004	<.001	.	$\sigma_{21}^2 = -0.023$	
	p3	2.534	0.309	<.001	.	$\sigma_{22}^2 = 0.005$	
5	Intercept	-4.912	0.031	<.001	177801	$\sigma_{11}^2 = 0.434$	
	time	-0.106	0.007	<.001	.	$\sigma_{21}^2 = -0.028$	
	p3	2.995	0.335	<.001	.	$\sigma_{22}^2 = 0.004$	

F3: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 3

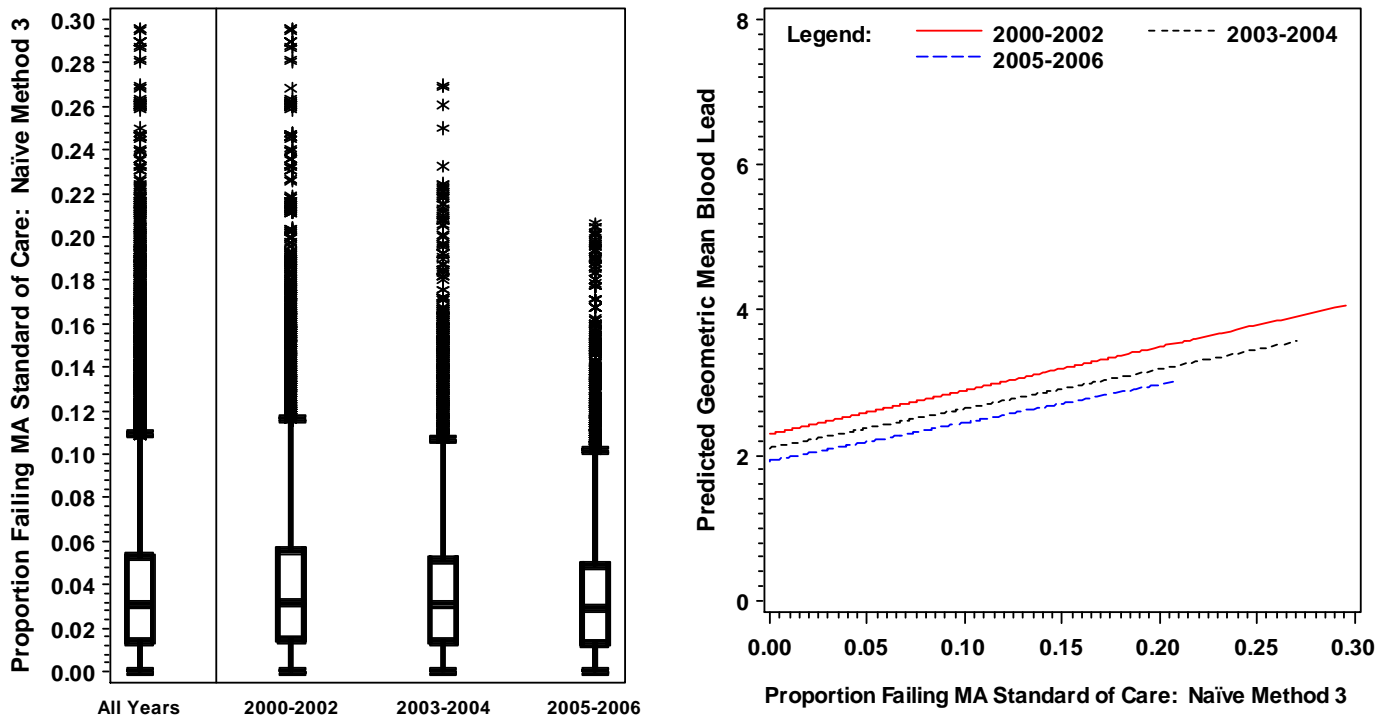


Figure B.82. F3: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 3: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.82a. Summary Information for F3: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 3 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.04	0.00	0.00	0.01	0.02	0.03	0.06	0.09	0.30
2003-2004	10446	4	0.04	0.00	0.00	0.01	0.01	0.03	0.05	0.08	0.27
2005-2006	10413	4	0.04	0.00	0.00	0.01	0.01	0.03	0.05	0.08	0.21
All Years	36473	11	0.04	0.00	0.00	0.01	0.01	0.03	0.05	0.09	0.30

Table B.82b. Model Information for the Relationship between F3: Proportion of Housing Units Failing MA Standard of Care: Naïve Method 3 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.634	0.017	<.001	52109	$\sigma_{11}^2 = 0.338$	$\sigma_{error}^2 = 0.207$
	time	-0.079	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	f3	4.312	0.313	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.621	0.016	<.001	48548	$\sigma_{11}^2 = 0.328$	$\sigma_{error}^2 = 4.432$
	time	-0.078	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	f3	4.113	0.302	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.756	0.016	<.001	86917	$\sigma_{11}^2 = 0.290$	
	time	-0.133	0.003	<.001	.	$\sigma_{21}^2 = -0.004$	
	f3	5.572	0.346	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.678	0.023	<.001	139803	$\sigma_{11}^2 = 0.391$	
	time	-0.118	0.004	<.001	.	$\sigma_{21}^2 = -0.016$	
	f3	8.092	0.451	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.985	0.030	<.001	178521	$\sigma_{11}^2 = 0.339$	
	time	-0.087	0.007	<.001	.	$\sigma_{21}^2 = -0.021$	
	f3	7.679	0.488	<.001	.	$\sigma_{22}^2 = 0.003$	

N3: Proportion of Housing Units Assessed: Naïve Method 3

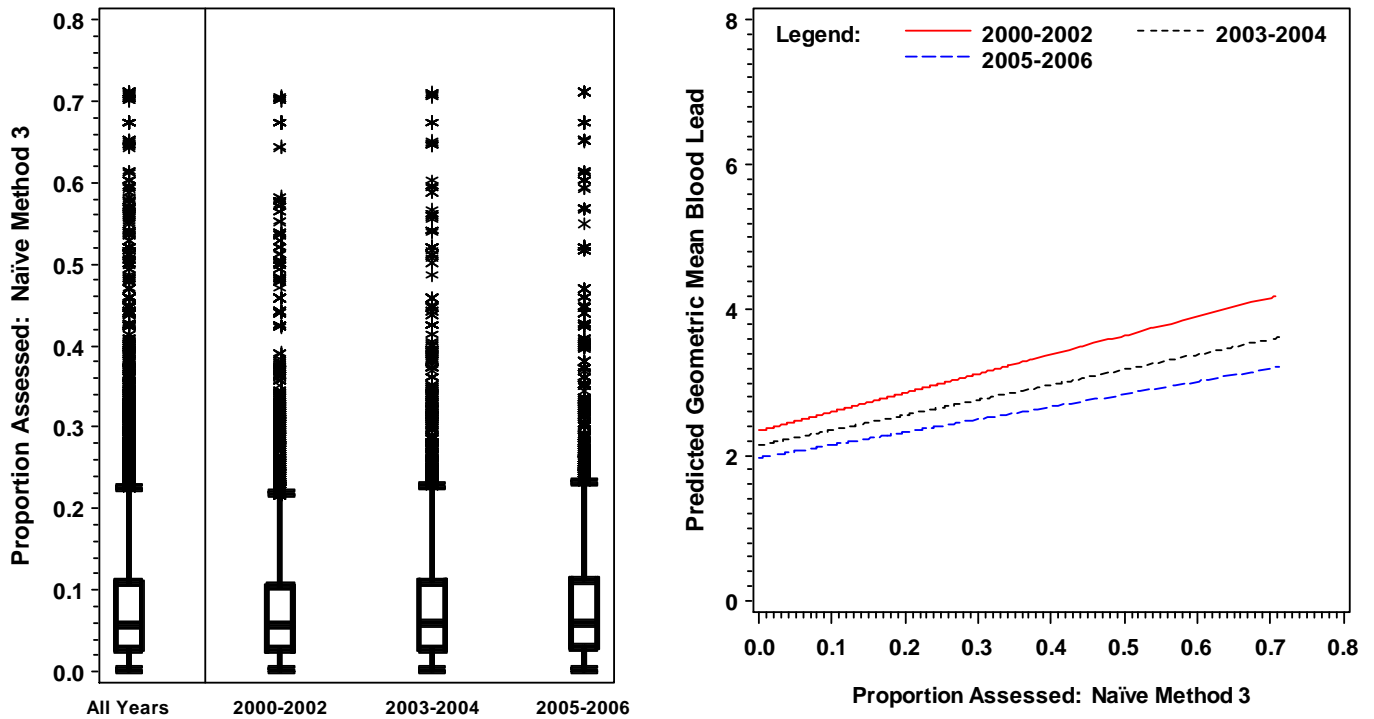


Figure B.83. N3: Proportion of Housing Units Assessed: Naïve Method 3: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.83a. Summary Information for N3: Proportion of Housing Units Assessed: Naïve Method 3 by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.0801	0.0006	0.0007	0.0148	0.0280	0.0549	0.1037	0.1792	0.7064
2003-2004	10446	4	0.0841	0.0008	0.0007	0.0161	0.0297	0.0572	0.1086	0.1856	0.7113
2005-2006	10413	4	0.0869	0.0009	0.0007	0.0167	0.0311	0.0583	0.1114	0.1926	0.7122
All Years	36473	11	0.0832	0.0004	0.0007	0.0159	0.0292	0.0565	0.1074	0.1838	0.7122

Table B.83b. Model Information for the Relationship between N3: Proportion of Housing Units Assessed: Naïve Method 3 and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.658	0.017	<.001	52161	$\sigma_{11}^2 = 0.352$	$\sigma_{\text{error}}^2 = 0.207$
	time	-0.087	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	n3	1.581	0.137	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.645	0.017	<.001	48586	$\sigma_{11}^2 = 0.343$	$\sigma_{\text{error}}^2 = 4.431$
	time	-0.085	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	n3	1.632	0.137	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.719	0.017	<.001	86996	$\sigma_{11}^2 = 0.305$	
	time	-0.145	0.003	<.001	.	$\sigma_{21}^2 = -0.004$	
	n3	2.648	0.183	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.620	0.023	<.001	139865	$\sigma_{11}^2 = 0.426$	
	time	-0.135	0.004	<.001	.	$\sigma_{21}^2 = -0.018$	
	n3	3.071	0.215	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.924	0.030	<.001	178257	$\sigma_{11}^2 = 0.368$	
	time	-0.104	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	n3	2.943	0.224	<.001	.	$\sigma_{22}^2 = 0.003$	

P4: Proportion of Housing Units Passing MA Standard of Care: MDPH Method

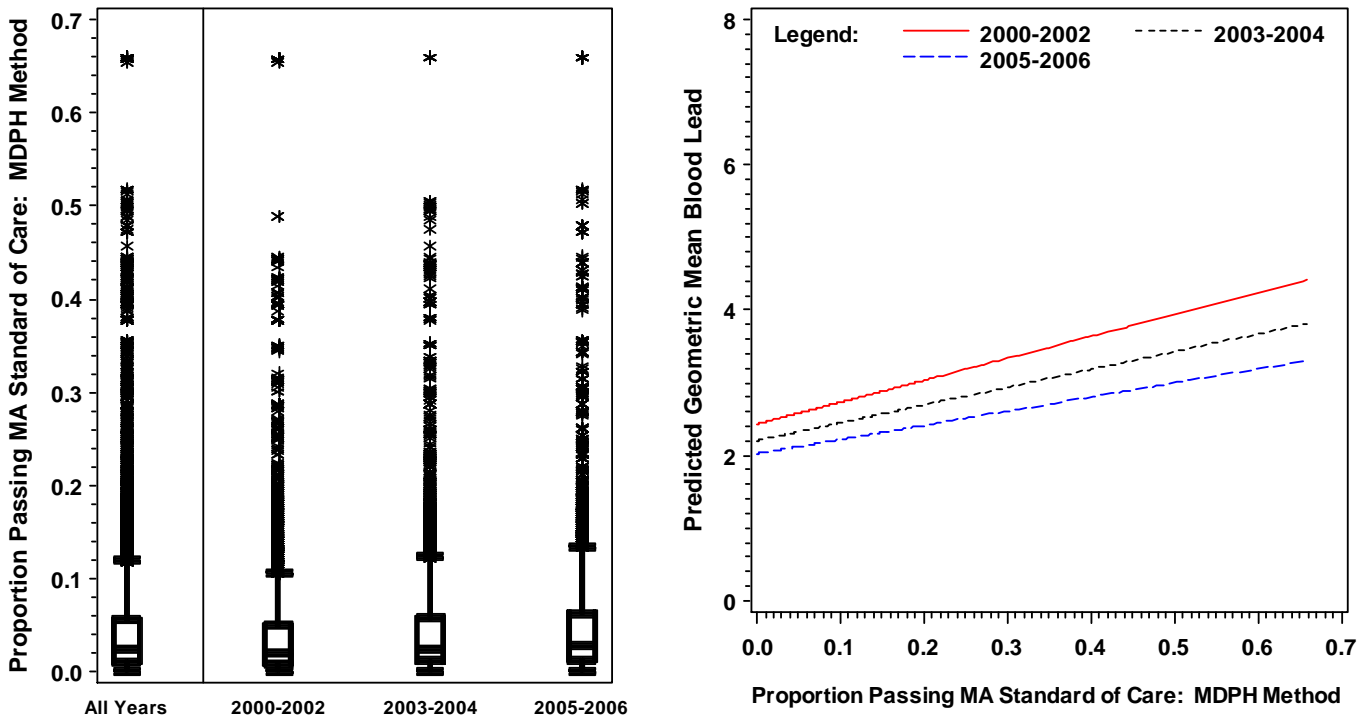


Figure B.84. P4: Proportion of Housing Units Passing MA Standard of Care: MDPH Method: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.84a. Summary Information for P4: Proportion of Housing Units Passing MA Standard of Care: MDPH Method by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.0381	0.0004	0.0000	0.0053	0.0101	0.0195	0.0483	0.0906	0.6582
2003-2004	10446	4	0.0451	0.0006	0.0000	0.0065	0.0122	0.0239	0.0562	0.1098	0.6598
2005-2006	10413	4	0.0497	0.0006	0.0000	0.0074	0.0134	0.0267	0.0613	0.1229	0.6598
All Years	36473	11	0.0434	0.0003	0.0000	0.0061	0.0116	0.0228	0.0541	0.1052	0.6598

Table B.84b. Model Information for the Relationship between P4: Proportion of Housing Units Passing MA Standard of Care: MDPH Method and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.659	0.017	<.001	52240	$\sigma_{11}^2 = 0.375$	$\sigma_{error}^2 = 0.207$
	time	-0.087	0.002	<.001	.	$\sigma_{21}^2 = -0.028$	
	p4	1.153	0.173	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.647	0.017	<.001	48671	$\sigma_{11}^2 = 0.367$	$\sigma_{error}^2 = 4.431$
	time	-0.086	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	p4	1.174	0.170	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.717	0.018	<.001	87099	$\sigma_{11}^2 = 0.349$	
	time	-0.145	0.003	<.001	.	$\sigma_{21}^2 = -0.007$	
	p4	1.884	0.242	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.618	0.024	<.001	139769	$\sigma_{11}^2 = 0.496$	
	time	-0.135	0.004	<.001	.	$\sigma_{21}^2 = -0.023$	
	p4	2.570	0.309	<.001	.	$\sigma_{22}^2 = 0.005$	
5	Intercept	-4.912	0.031	<.001	177809	$\sigma_{11}^2 = 0.433$	
	time	-0.106	0.007	<.001	.	$\sigma_{21}^2 = -0.028$	
	p4	3.019	0.334	<.001	.	$\sigma_{22}^2 = 0.004$	

F4: Proportion of Housing Units Failing MA Standard of Care: MDPH Method

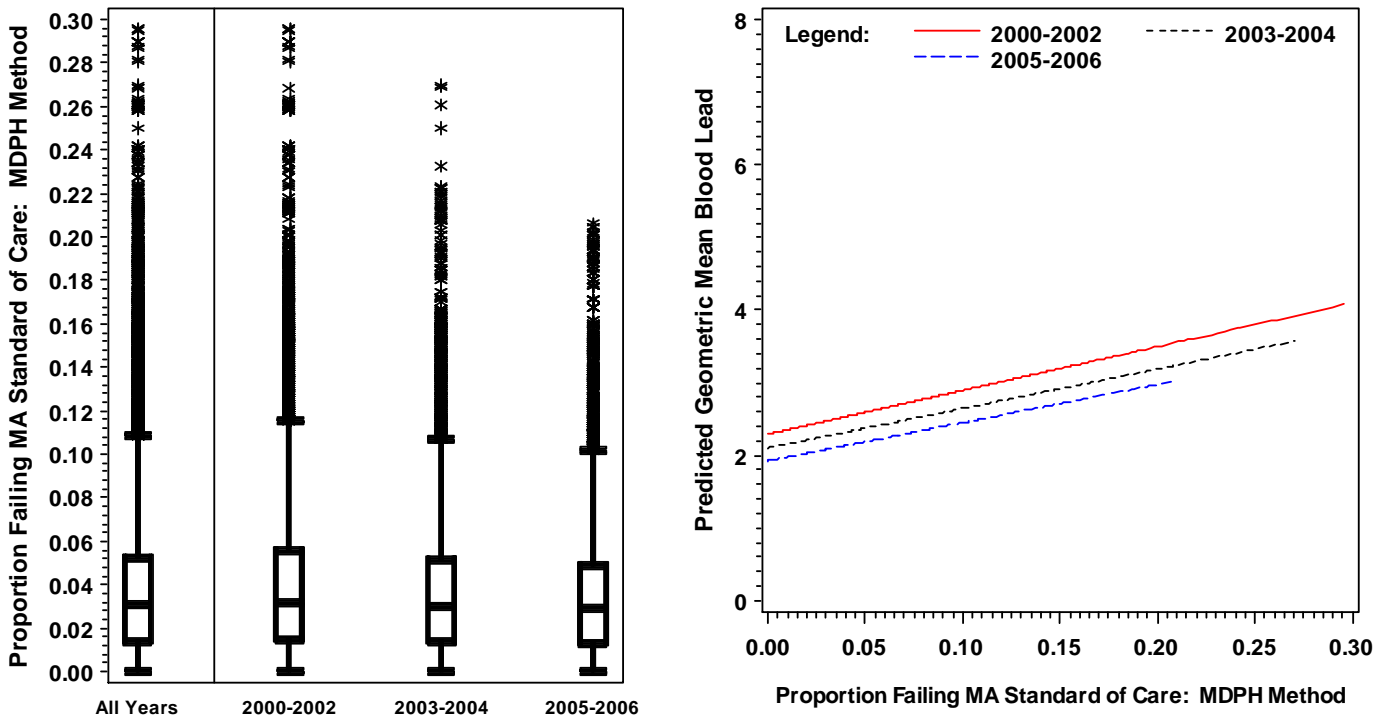


Figure B.85. F4: Proportion of Housing Units Failing MA Standard of Care: MDPH Method: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.85a. Summary Information for F4: Proportion of Housing Units Failing MA Standard of Care: MDPH Method by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.0422	0.0003	0.0000	0.0078	0.0151	0.0315	0.0553	0.0906	0.2960
2003-2004	10446	4	0.0391	0.0003	0.0000	0.0075	0.0144	0.0300	0.0512	0.0827	0.2698
2005-2006	10413	4	0.0372	0.0003	0.0000	0.0073	0.0137	0.0287	0.0487	0.0786	0.2066
All Years	36473	11	0.0399	0.0002	0.0000	0.0076	0.0145	0.0302	0.0521	0.0854	0.2960

Table B.85b. Model Information for the Relationship between F4: Proportion of Housing Units Failing MA Standard of Care: MDPH Method and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.635	0.017	<.001	52107	$\sigma_{11}^2 = 0.338$	$\sigma_{error}^2 = 0.207$
	time	-0.080	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	f4	4.351	0.314	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.622	0.016	<.001	48546	$\sigma_{11}^2 = 0.329$	$\sigma_{error}^2 = 4.432$
	time	-0.078	0.002	<.001	.	$\sigma_{21}^2 = -0.025$	
	f4	4.155	0.303	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.756	0.016	<.001	86920	$\sigma_{11}^2 = 0.290$	
	time	-0.133	0.003	<.001	.	$\sigma_{21}^2 = -0.004$	
	f4	5.597	0.348	<.001	.	$\sigma_{22}^2 = 0.004$	
4	Intercept	-3.677	0.023	<.001	139809	$\sigma_{11}^2 = 0.391$	
	time	-0.118	0.004	<.001	.	$\sigma_{21}^2 = -0.016$	
	f4	8.141	0.454	<.001	.	$\sigma_{22}^2 = 0.004$	
5	Intercept	-4.984	0.030	<.001	178518	$\sigma_{11}^2 = 0.340$	
	time	-0.087	0.007	<.001	.	$\sigma_{21}^2 = -0.021$	
	f4	7.698	0.491	<.001	.	$\sigma_{22}^2 = 0.003$	

N4: Proportion of Housing Units Assessed: MDPH Method

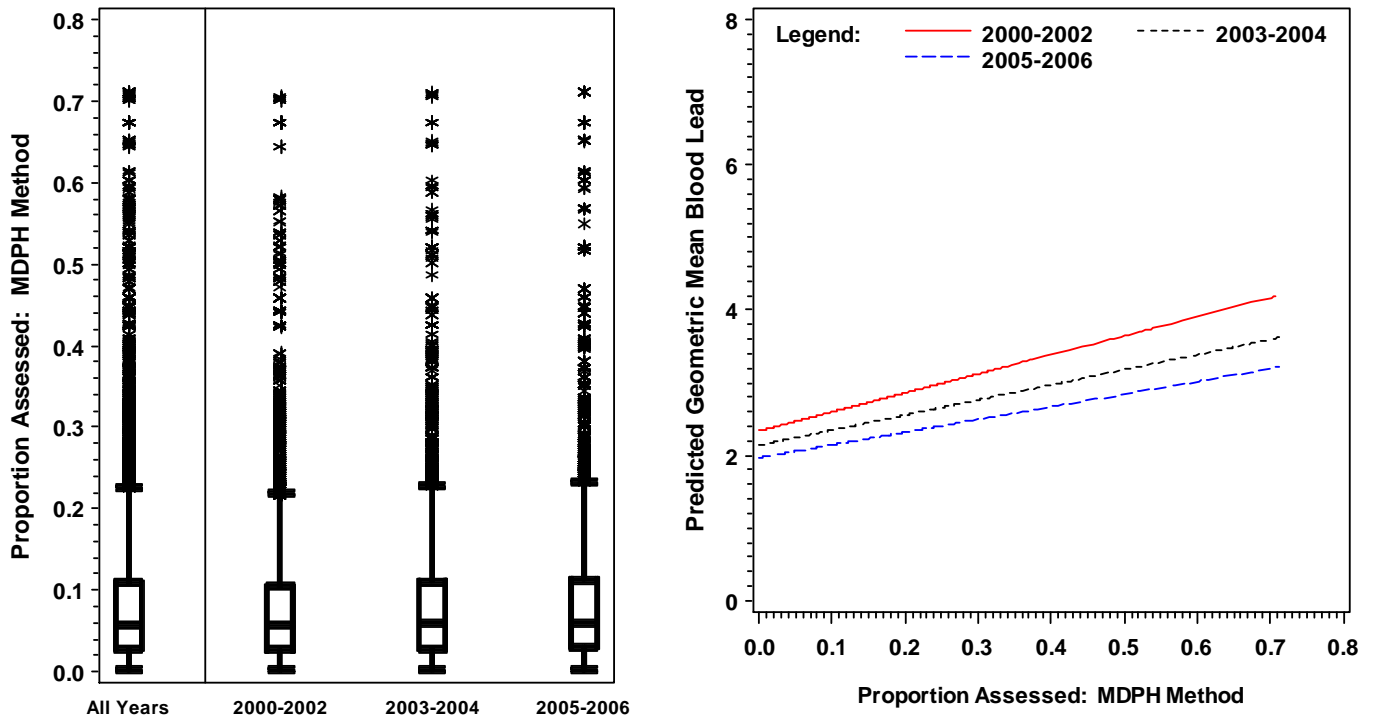


Figure B.86. N4: Proportion of Housing Units Assessed: MDPH Method: Histogram and Linear Relationship with Geometric Mean Blood Lead Levels by Time

Table B.86a. Summary Information for N4: Proportion of Housing Units Assessed: MDPH Method by Time

Time Period	Sample Size	Number Missing	Mean	Standard Error	Minimum	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile	Maximum
2000-2002	15614	3	0.0802	0.0006	0.0007	0.0148	0.0280	0.0550	0.1037	0.1805	0.7064
2003-2004	10446	4	0.0842	0.0008	0.0007	0.0161	0.0297	0.0572	0.1086	0.1860	0.7113
2005-2006	10413	4	0.0869	0.0009	0.0007	0.0167	0.0311	0.0583	0.1114	0.1926	0.7122
All Years	36473	11	0.0833	0.0004	0.0007	0.0159	0.0292	0.0565	0.1075	0.1848	0.7122

Table B.86b. Model Information for the Relationship between N4: Proportion of Housing Units Assessed: MDPH Method and Geometric Mean Blood Lead Levels

Model Number	Factor	Estimate	Standard Error	p-value	-2 Log Likelihood	Variance Components	
						Random Effects	Error
1	Intercept	2.658	0.017	<.001	52160	$\sigma_{11}^2 = 0.352$	$\sigma_{error}^2 = 0.207$
	time	-0.087	0.002	<.001	.	$\sigma_{21}^2 = -0.027$	
	n4	1.584	0.137	<.001	.	$\sigma_{22}^2 = 0.004$	
2	Intercept	2.645	0.017	<.001	48585	$\sigma_{11}^2 = 0.343$	$\sigma_{error}^2 = 4.431$
	time	-0.085	0.002	<.001	.	$\sigma_{21}^2 = -0.026$	
	n4	1.636	0.137	<.001	.	$\sigma_{22}^2 = 0.004$	
3	Intercept	-1.719	0.017	<.001	86995	$\sigma_{11}^2 = 0.305$	
	time	-0.145	0.003	<.001	.	$\sigma_{21}^2 = -0.004$	
	n4	2.656	0.183	<.001	.	$\sigma_{22}^2 = 0.004$	
4			
			
			
5	Intercept	-4.924	0.030	<.001	178260	$\sigma_{11}^2 = 0.368$	
	time	-0.104	0.007	<.001	.	$\sigma_{21}^2 = -0.022$	
	n4	2.943	0.223	<.001	.	$\sigma_{22}^2 = 0.003$	