

The North Carolina Childhood Lead Poisoning Prevention Program

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Childhood Lead Poisoning Chronic Central Nervous System Effects:

Mental Development (IQ Loss)

Poor Academic Achievement

Delinquency & Criminal Behavior

Childhood Lead Poisoning

Entirely Preventable & Environmentally Mediated

Lead-Based Paint, Dust & Soil

Air Pollution

Drinking Water

Traditional Medicines

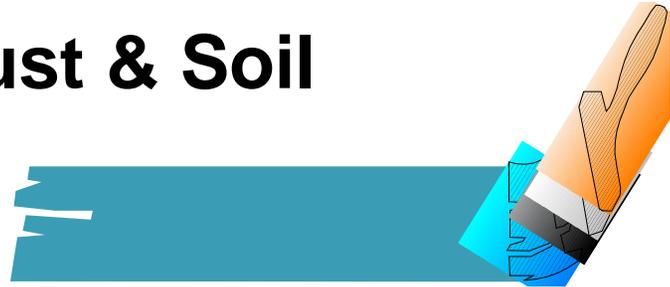
Lead-Glazed Ceramics

Parental Occupations & Hobbies

Food (Imported Candy)

Vinyl Miniblinds

Lead-Contaminated Toys



National Surveillance Data

(NHANES Data 1999-2002)

**Prevalence among 1-5 year olds:
1.6% (310,000 children) @ ≥ 10 ug/dL**

(CDC Surveillance Data 2005)

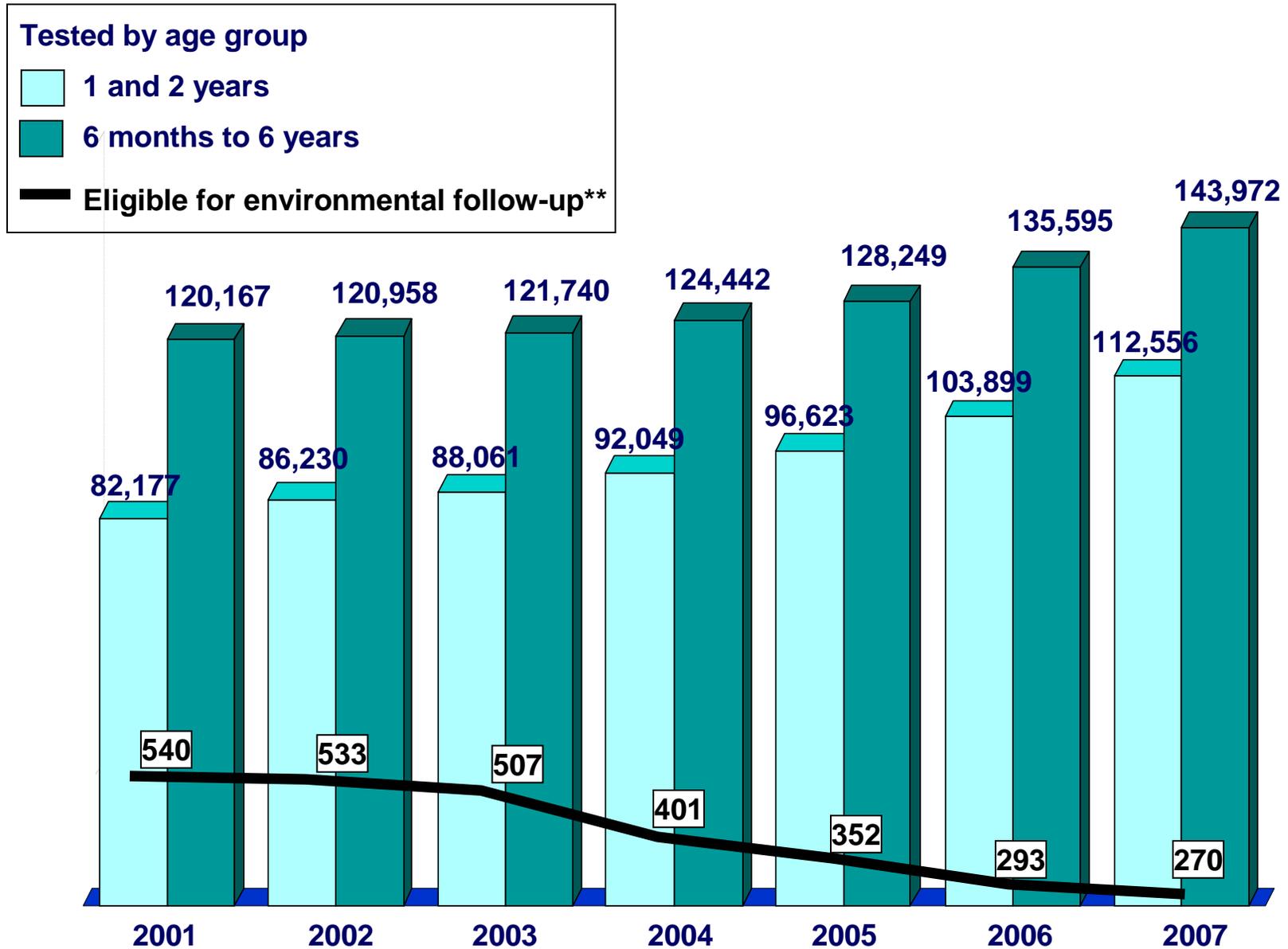
**Childhood lead poisoning cases reported:
North Carolina ranked 17th**

North Carolina Children Tested for Lead Poisoning, Years 1995-2007

Year	ages 6 mos to 6 yrs		ages 1 and 2 yrs		Confirmed ages 6 mos to 6 yrs	
	Number		Number	% tested	10-19 $\mu\text{g/dL}$	≥ 20 $\mu\text{g/dL}$
1995	87,894		44,308	21.9	718	178
1996	95,028		47,479	23.4	661	137
1997	95,166		49,423	24.0	547	114
1998	95,168		53,163	25.2	544	80
1999	105,552		66,401	30.4	565	80
2000	115,498		75,752	33.6	676	122
2001	120,167		82,177	35.1	467	73
2002	120,958		86,230	36.2	465	68
2003	121,740		88,061	37.4	469	38
2004	124,442		92,049	39.1	349	52
2005	128,249		96,623	40.6	299	53
2006	135,595		103,899	42.8	255	38
2007	143,972		112,556	44.9	232	38

North Carolina Childhood Blood Lead Surveillance Data

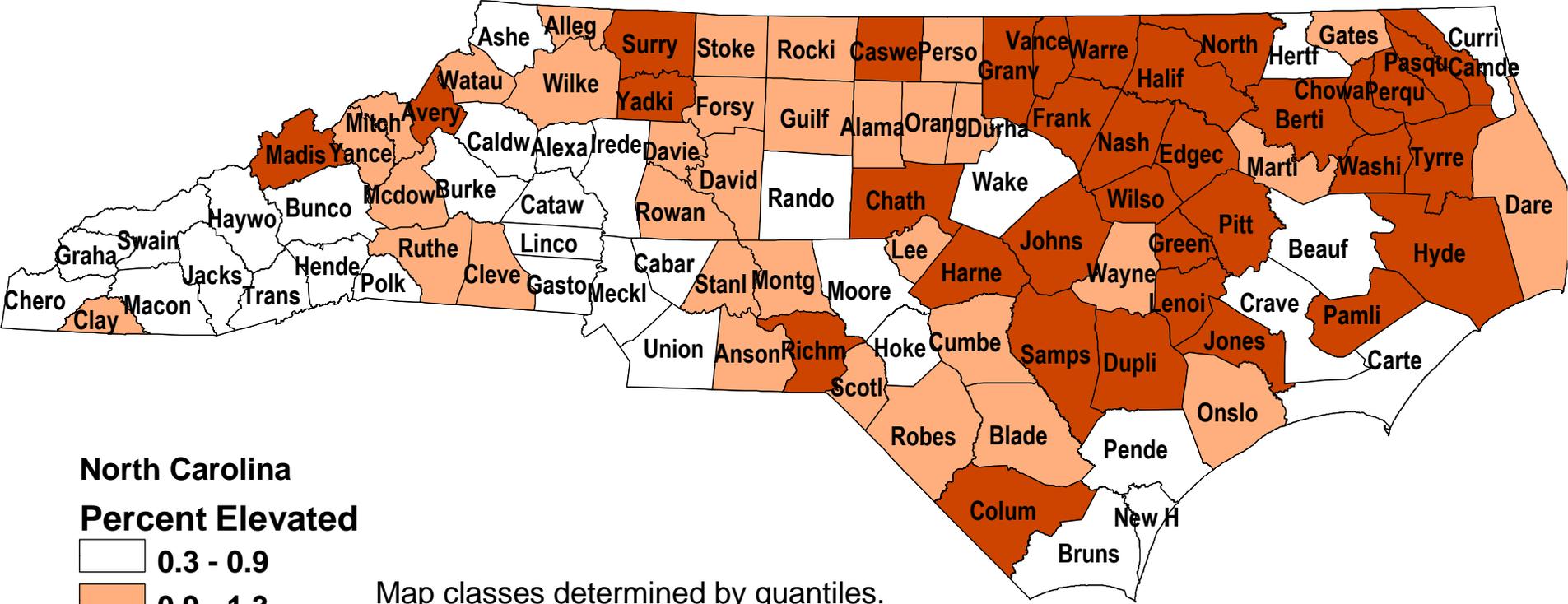
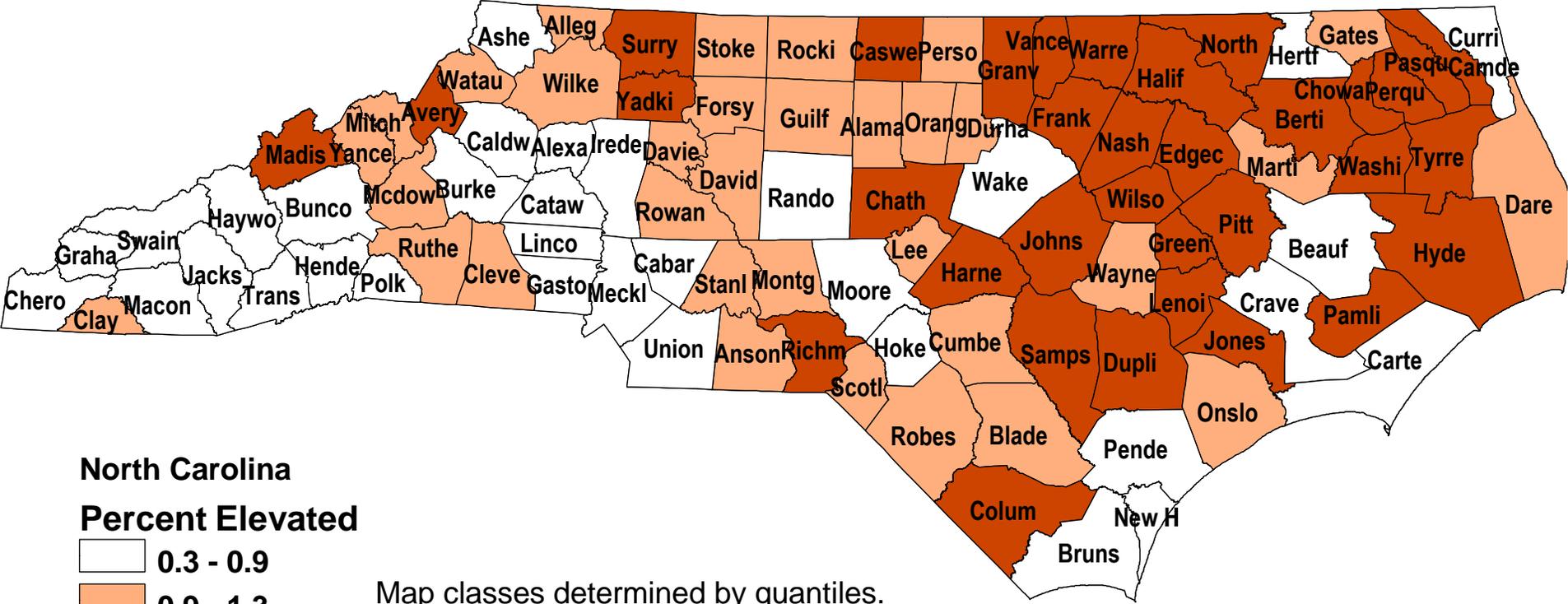
Number of Children Tested for Lead Poisoning*



**Characteristics and Estimated Prevalences of North Carolina Children
Tested for Lead Poisoning During 2003-2007, Ages 6 months to 6 years**

Variable	Testing Population N (Percent of Total)	Blood lead level ($\mu\text{g/dL}$) N (Percent)	
		≥ 10	≥ 20
Age	6-12 months	37,167 (5.7)	285 (0.8) 47 (0.1)
	1 year	312,544 (47.8)	3,074 (1.0) 404 (0.1)
	2 years	180,550 (27.6)	2,246 (1.2) 259 (0.1)
	3 years	42,370 (6.5)	515 (1.2) 65 (0.2)
	4 years	46,209 (7.1)	416 (0.9) 62 (0.1)
	5 years	34,910 (5.3)	295 (0.8) 40 (0.1)
Race/ Ethnicity	Black	170,311 (26.1)	2,479 (1.5) 262 (0.2)
	White	288,205 (44.1)	2,358 (0.8) 320 (0.1)
	Hispanic	113,484 (17.4)	1,254 (1.1) 184 (0.2)
	Native American	8,884 (1.4)	110 (1.2) 18 (0.2)
	Other	19,620 (3.0)	297 (1.5) 52 (0.3)
	Unknown	53,246 (8.1)	333 (0.6) 41 (0.1)
Sex	Male	321,651 (49.2)	3,634 (1.1) 487 (0.2)
	Female	325,610 (49.8)	3,167 (1.0) 386 (0.1)
	Unknown	6,489 (1.0)	30 (0.5) 4 (0.1)
Residence	Rural County	431,487 (66.0)	4,867 (1.1) 621 (0.1)
	Urban County	222,263 (34.0)	1,964 (0.9) 256 (0.1)
Income	Medicaid	436,880 (66.8)	5,303 (1.2) 661 (0.2)
	Non-Medicaid	216,870 (33.2)	1,528 (0.7) 216 (0.1)
Overall	653,750 children tested		6,831 (1.0) 877 (0.1)

Percent of 1- and 2-Year Old Children with Blood Lead Level $\geq 10 \mu\text{g}/\text{dL}$ 2003-2007



Childhood Lead Poisoning Costs To The State:

Direct Medical & Public Health Costs

Special Education

Juvenile Justice

Lost Future Earnings

Innovative Provision In State Law

Voluntary Lead-Safe Housing/Preventive Maintenance Program Targeting Older Rental Property



Liability Relief Offered To Participants

Recommendations

- **Increase Medicaid Testing Rate To National Goal of 85%**

In 2007, 73.3% Of Medicaid 1- & 2-year-old Tested Medicaid Report Card Project

- **Provide Lead-Safe Work Practices Training To Renovation & Remodeling Contractors**

An Estimated 54,000 N.C. Contractors Are Subject To New EPA Training Requirements

Other Strategies

- **Adopt Tax Credit Legislation**
- **Leverage Federal Disclosure Rule**
- **Offer EBL Environmental Investigations**