



Lead Program Summary

Regulation No. 19
The Control of Lead Hazards

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Childhood Lead Poisoning

- Lead poisoning is the #1 preventable environmental health threat to children today
- It can cause permanent health, learning and behavioral problems
- Lead based paint and contaminated soil and lead dust / toys, candy and home remedies
- Eating and breathing lead dust are the most common ways for children to get lead poisoning
- The removal of lead-based paint during renovation and remodeling activities can result in exposure to lead

Regulation No. 19, Part A

Lead-Based Paint Abatement

- Training Provider Approval

- Audit lead-based paint training providers

- Certification Requirements

- Individuals / evaluation and abatement firms

- Abatement Requirements

- Conduct enforcement actions as needed

- Target Housing (built prior to 1978)

- Child-occupied Facilities







Regulation No. 19, Part B

Pre-Renovation Education in Target Housing

Requires a contractor to provide a pamphlet to the owner and occupant, prior to renovating, for projects that disturbs more than two square feet of paint in target housing.



Recent Developments

CDC

Reduced Action Level for Children
10 ug / dl to 5 ug / dl

Clearance Standards / Levels

Floors - 40 ug / ft²

Soil - 400 ug/g - 1,200 ug/g

2010 Strategic Plan

**Eliminating Childhood Lead
Poisoning in Colorado**



Outreach and Education

Goals / Mission



- Eliminate Childhood Lead Poisoning -
 - ◆ Get Your Children Tested
 - ◆ Get Your Home Inspected & Tested
 - ◆ Use a Lead Safe Contractor for all renovation and remodeling projects

The Building Mural Project



Lead Safe House



EPA

Defines Environmental Justice as -

The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies.

Plan EJ 2014

Executive Summary



A message from...

EPA Administrator Lisa P. Jackson

Dear Colleagues:

Expanding the conversation on environmentalism and working for environmental justice are among my top priorities for our work at the U.S. Environmental Protection Agency. All too often, low-income, minority and tribal Americans live in the shadows of the worst pollution, facing disproportionate health impacts and greater obstacles to economic growth in communities that cannot attract businesses and new jobs.

In 1994, President Bill Clinton issued an executive order directing all federal agencies to participate in a governmentwide effort to address environmental justice issues. To strengthen our efforts in anticipation of the 20th anniversary of that directive and to ensure that the EPA is setting a standard for all other agencies, I am pleased to share our comprehensive environmental justice strategy Plan EJ 2014.

Plan EJ 2014 builds on the solid foundation we have established at the EPA to expand the conversation on environmentalism. Since my first days as Administrator, I have traveled the country to meet with diverse communities and listen to their concerns. And I am committed to making environmental justice an essential part of our decision making.

Plan EJ 2014 offers a road map that will enable us to better integrate environmental justice and civil rights into our programs, policies and daily work. The plan focuses on agencywide areas critical to advancing environmental justice, including rulemaking, permitting, compliance and enforcement, community-based programs and our work with other federal agencies. It also establishes specific milestones to help us meet the needs of overburdened neighborhoods through our decision making, scientific analysis and rulemaking.

Every American deserves clean air, water and land in the places where they live, work, play and learn. Through our implementation of Plan EJ 2014, the EPA will be leading by example in expanding the conversation on environmentalism and working for environmental justice – now and into the future.

I am proud to be a part of this effort and ask you to join me as we strengthen our mission to protect the health of all Americans.

Sincerely,
Lisa P. Jackson



Lisa P. Jackson
Administrator
U.S. Environmental Protection Agency

Healthy People 2020 Defines Health Equity as -

Achieving the highest level of health for all people. Health equity entails focused societal efforts to address avoidable inequalities by equalizing the conditions for health for all groups, especially for those who have experienced socioeconomic disadvantage or historical injustices.



National Stakeholder Strategy for Achieving Health Equity



The National Stakeholder Strategy for Achieving Health Equity provides a common set of goals and objectives for public and private sector initiatives and partnerships to help racial and ethnic minorities -- and other underserved groups -- reach their full health potential.



Determinants of Health

- Life enhancing resources, such as food supply, housing, economic and social relationships, transportation, education and health care, whose distribution across populations effectively determines length and quality of life.
- Categorized under four broadly accepted categories

Determinants of Health

Social Determinants of Health

Behavioral Determinants of Health

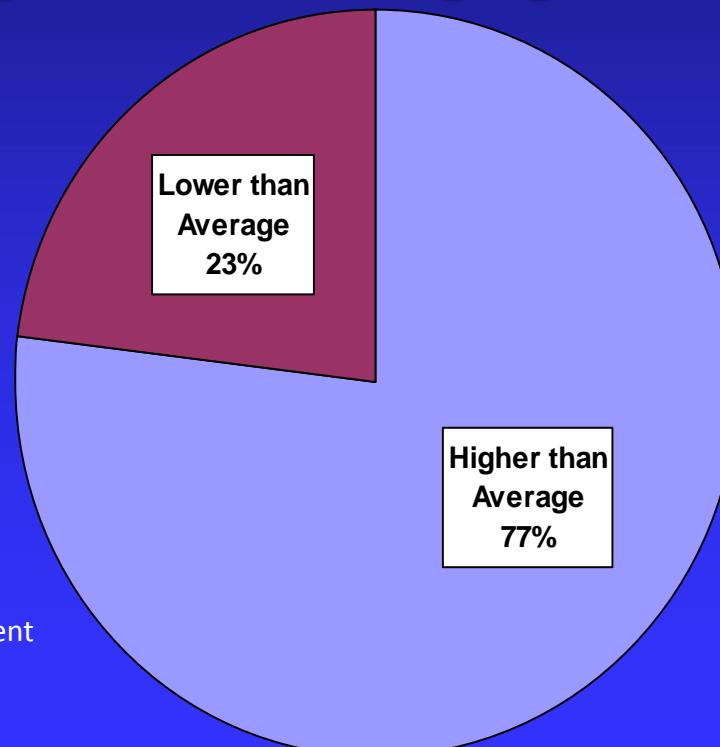
Environmental Determinants of Health

- Includes lead exposure, asthma triggers, workplace safety factors, unsafe or polluted living conditions

Biological and Genetic Determinants of Health

Children age ≤ 6 with Elevated Blood Lead Levels (EBLLs)

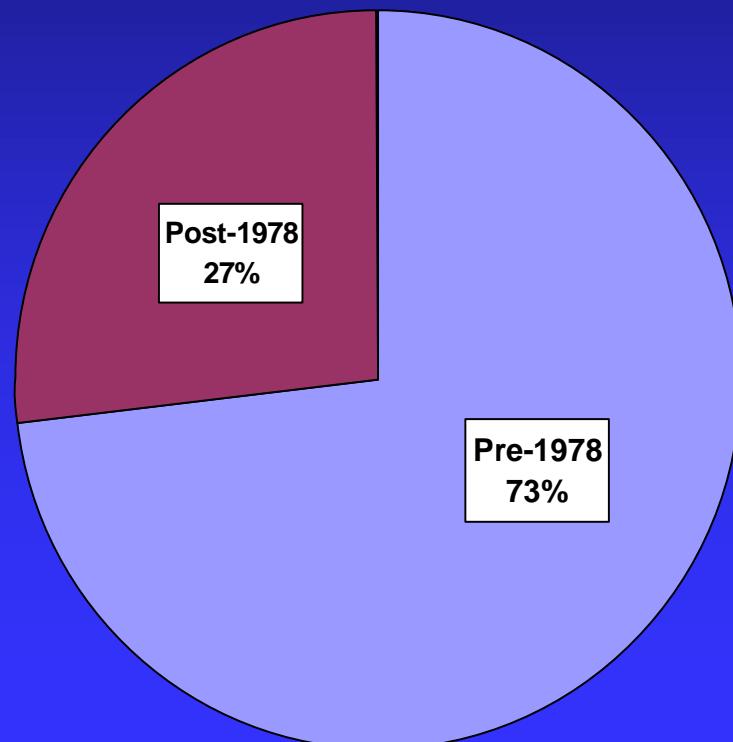
- ◆ 54 out of 70 of children with EBLLs reside in an area with a Hispanic/Latino population higher than the State of Colorado average of 17%



Data source: U.S. Census,
Colorado Department of Public Health and Environment

Children age ≤ 6 with Elevated Blood Lead Levels (EBLLs)

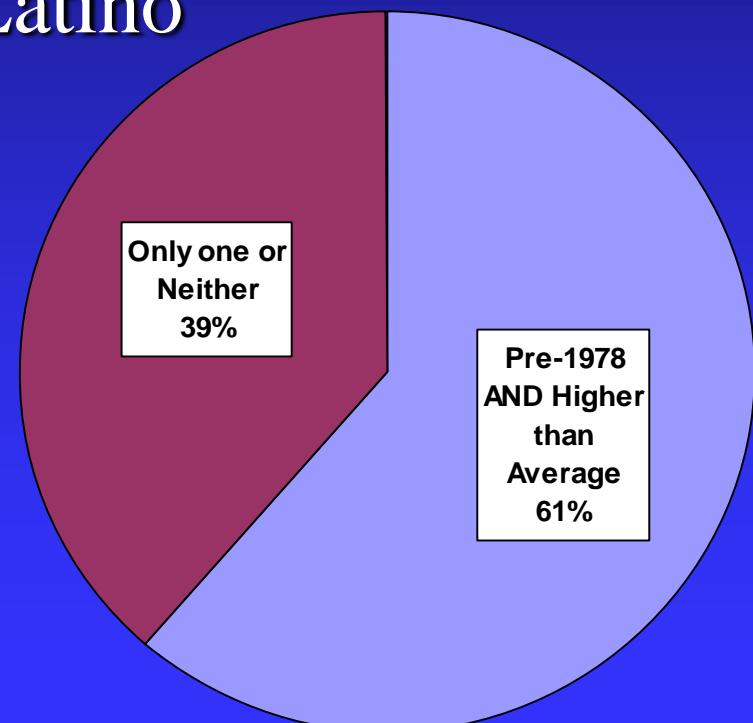
- ◆ 51 out of 70 children with EBLLs reside in an area with a median housing age that is pre-1978



Data source: U.S. Census,
Colorado Department of Public Health and Environment

Children age ≤ 6 with Elevated Blood Lead Levels (EBLLs)

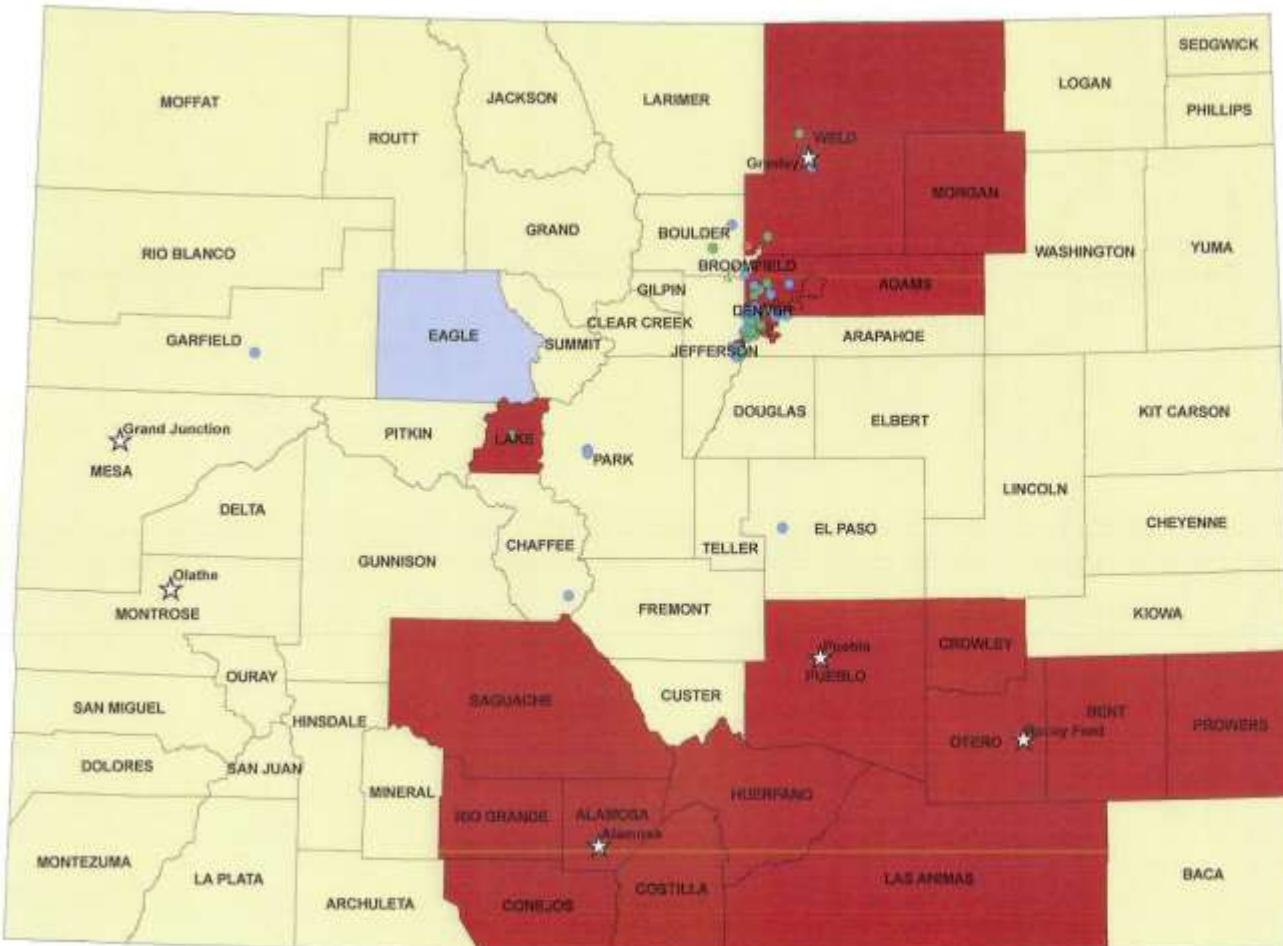
- ◆ 43 out of 70 children with EBLLs reside in an area with a median housing age that is pre-1978 AND a Hispanic and/or Latino population higher than the State of Colorado average of 17%



Data source: U.S. Census,
Colorado Department of Public Health and Environment

Data by County

ELEVATED BLOOD LEAD LEVELS



LEGEND

Blood Lead Levels

December 2007 - August 2008

- 10 - 14 ug/dL
- 15 - 30 ug/dL
- >30 ug/dL

Counties

Hispanic or Latino population higher than state average of 17% AND median housing age pre-1978

Hispanic or Latino population higher than state average of 17%

Hispanic or Latino population equal to or lower than state average of 17%

Testing Locations

- Greeley - Northern Area Migrant Coalition
- Pueblo - Pueblo Migrant Coalition, Inc.
- Rocky Ford - Arkansas Valley Migrant Coalition
- Grand Junction - Western Colorado Migrant Coalition
- Olathe - Olathe Medical Clinic
- Alamosa - Alamosa County Nursing Service

0 12.5 25 50 75 Miles

N

North American Datum 1983
Universal Transverse Mercator Zone 13N

International Lead Poisoning Prevention Week of action 20-26 October 2013

Lead poisoning is entirely preventable, yet lead exposure is estimated to account for 0.6% of the global burden of disease, with the highest burden in developing regions

Childhood lead exposure is estimated to contribute to about 600,000 new cases of children with intellectual disabilities every year

The Nigerian village / Bagega - Suffered one of the world's worst recorded incidents of lead poisoning

1,000 contaminated children

For some, it already
is too late to reverse
serious neurological
damage



Some children are blind, others paralyzed and many
will struggle at school with learning disabilities

Doctors Without Borders Uncovered the scandal in 2010

The poisoning caused by mining from a gold rush
killed at least 400
children

Yet villagers still say
they would rather
die of lead
poisoning than
poverty



Possible Regulatory Revisions -

- Revise Clearance Standards / Levels in Regulation No. 19

Other New Federal Regulations -

- EPA RRP / Renovation, Repair and Painting Rule -
 - Requires -
 - Firm Certification
 - Training
 - Use of Lead Safe work methods

Questions ?

■ *Interested Parties Call:*

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