



# Lead Chemical Action Plan

Washington State Board of Health

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# What is a CAP?

- Plan that identifies, characterizes, and evaluates uses and releases of a PBT and recommends actions to protect human health and the environment
- Goal is to reduce and phase-out PBT uses, releases, and exposures in Washington.
- PBTs “worst of the worst”
  - Persistent
  - Bioaccumulative
  - Toxic chemicals

# Components of a CAP

- General Chemical Information
- Presence of Lead in the Environment
- Human Health
- Health Effects in Other Organisms
- Sources of Lead Exposure
- Laws and Regulations
- Policy Options
- Recommendations
- Economic Analysis
- Implementation Steps
- Performance Measures
- Research and Monitoring

# How Big is the Problem?

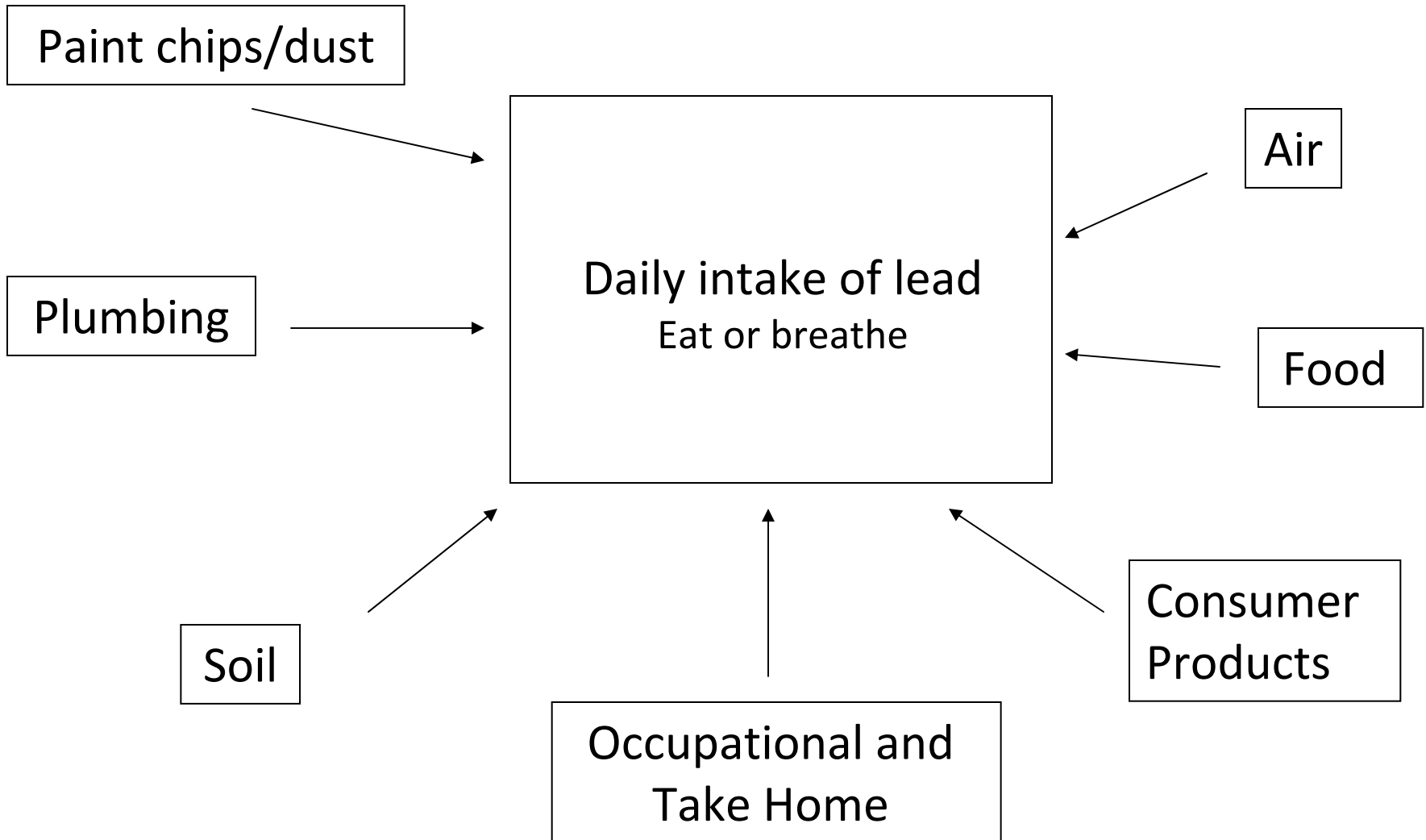
- Lead poisoning isn't usually obvious
  - Diagnose it with a blood lead test
  - Very few kids tested in WA (~1%)
  - Most lead-poisoned kids aren't found
- Estimate ~5000 young children with lead poisoning (blood lead level  $>10 \mu\text{g/dL}$ )
  - ~30,000 with blood lead levels  $>5 \mu\text{g/dL}$

# Known Risk Factors in WA

Risk Factor	Nationwide Rank (by number)	Nationwide Rank (by percent)
Pre-1950 households	17 <sup>th</sup>	28 <sup>th</sup>
Hispanic origin	13 <sup>th</sup>	16 <sup>th</sup>
Black race	27 <sup>th</sup>	36 <sup>th</sup>
Family below poverty	18 <sup>th</sup>	32 <sup>nd</sup>
Children 0 to 18 Enrolled in Medicaid	12 <sup>th</sup>	21 <sup>st</sup>

- Washington has lead poisoning risk factors
- Compared to other states, very few children in Washington get blood lead tests

# Sources of Lead Exposure



# Lead-based paint

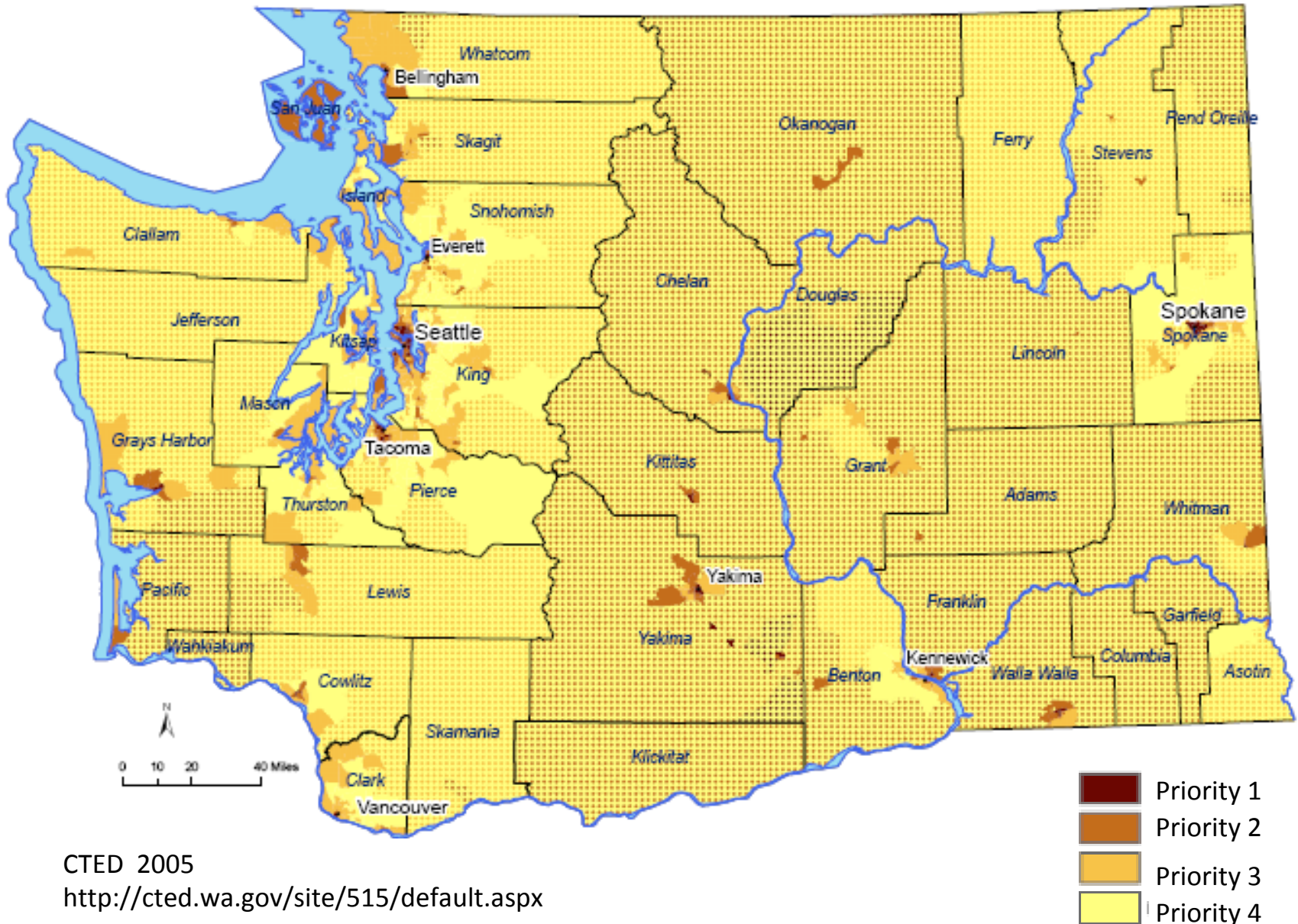
Largest single source for US children.

60% of our homes are pre-1978.

30% are pre-1960 when lead-based paint was more common and had higher concentrations of lead.

<b>Housing age</b>	<b>Prevalence of lead-based paint in US</b>	<b>Prevalence of lead hazards in US</b>	<b>Housing Units in Washington (OFM)</b>
All	40%	25%	2,451,075
pre-1940	87%	68%	307,078
1940-1959	69%	43%	414,555
1960-1977	24%	8%	661,598
Post-1978	5%	3%	1,067,844

# Housing



CTED 2005

<http://cted.wa.gov/site/515/default.aspx>

# Recommendations for lead-based paint (Legislation)

- Require remediation in rental housing after a child is identified with an elevated blood lead level caused by the home (e.g., paint)
- Require assessment or maintenance of pre-1960 rental homes
- Commerce should seek delegation of the new EPA renovation rule (passed in 2010)

# Recommendations for children

- Continue outreach and education
  - Include new information
- Evaluate lead exposure in all children
  - Prioritize high risk populations
  - Improve Childhood Blood Lead Registry to include mandatory electronic reporting and expanded patient information

# Other Recommendations

- Encourage use of safer alternatives in products
- Continue environmental monitoring and cleanup
- Conduct a survey on occupational use and exposure in Washington
- Harmonize and update occupational regulations