Tools to Help You Make the Case for Local Action

EPA Mid Atlantic Lead Forum

Jonathan Wilson, NCHH Deputy Director

October 2, 2019

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Individual v Broad Action

- Case Management

- Public Health Response

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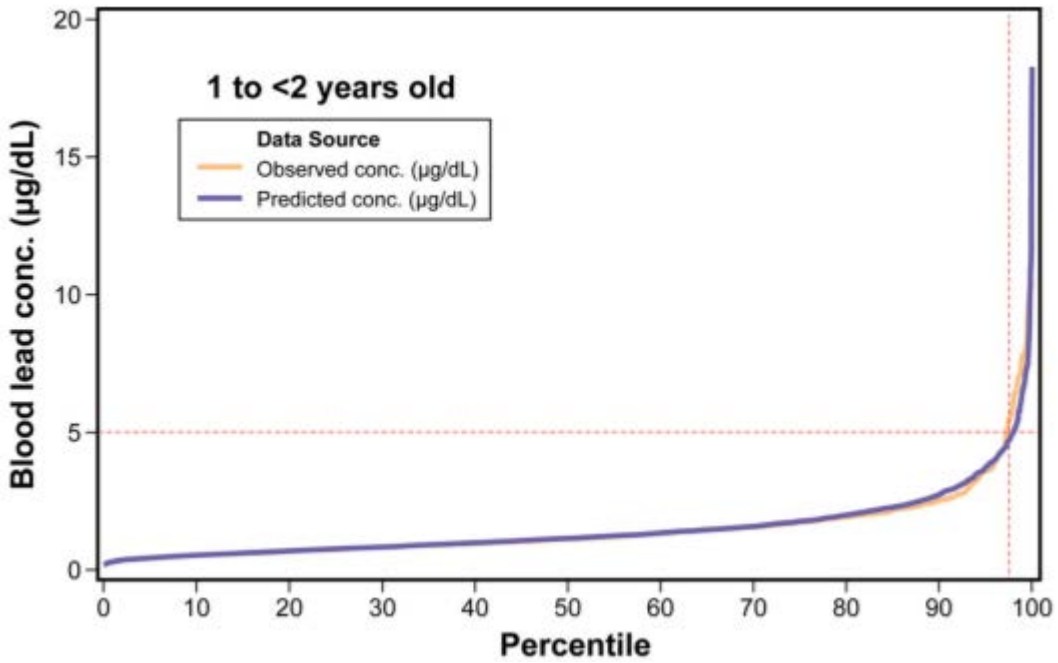
Environmental Health Perspectives, Vol. 125, No. 9 | Research

Children's Lead Exposure: A Multimedia Modeling Analysis to Guide Public Health Decision-Making

Valerie Zartarian ✉, Jianping Xue, Rogelio Tornero-Velez and James Brown

Published: 12 September 2017 | CID: 097009 | https://doi.org/10.1289/EHP1605 | **Cited by:** 3



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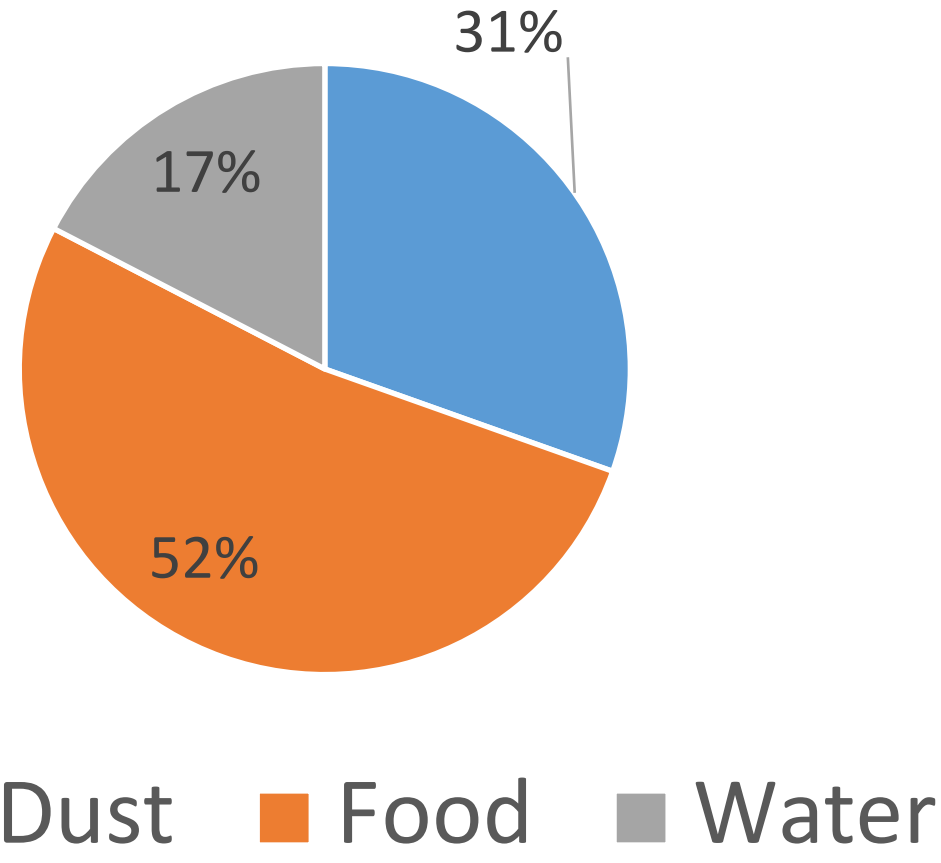
Lead Sources for Median Child

Proportion of Lead Sources
1-2 yr old
50th percentile
blood lead level
Median
1.2 µg/dL



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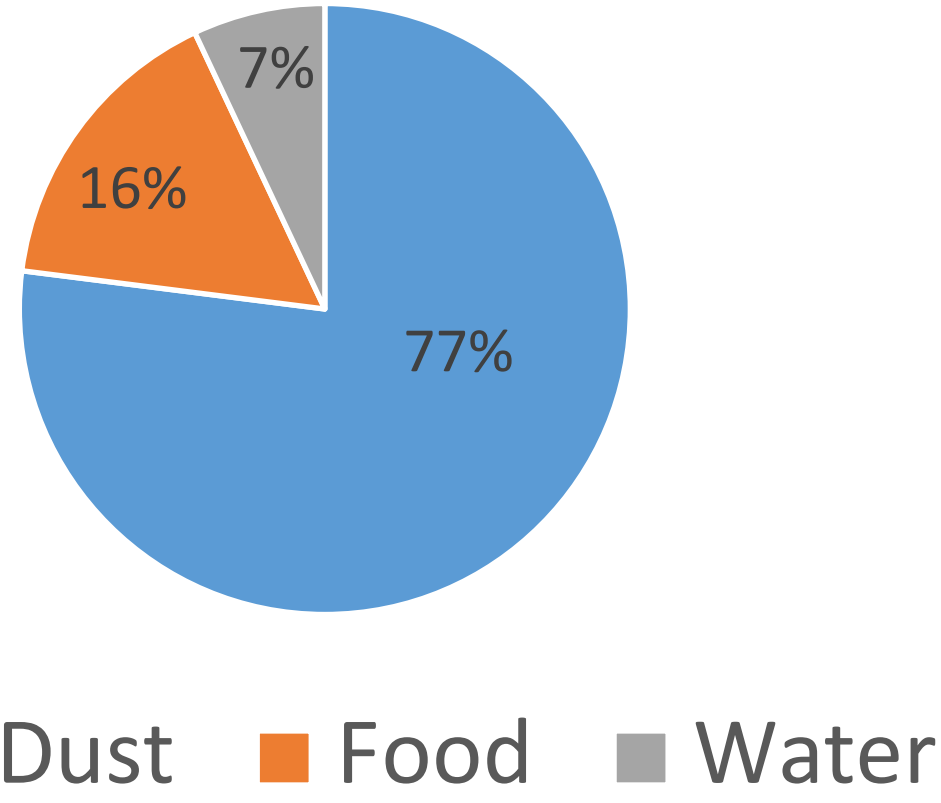
Zartarian et al., Environ Health Perspect 125(9) Sept 2017

Housing Makes Children Sick

Proportion of Lead Sources
1-2 yr old
> 90th percentile
blood lead level

Median
3.3 µg/dL



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Zartarian et al., Environ Health Perspect 125(9) Sept 2017

Difference Between Median and Exposed Child: Dust and Soil Pb

Change from 1.2 µg/dL to 3.3 µg/dL is totally explained by additional dust lead and soil lead in the exposed child's environment

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Risk Factors for Elevated PbD

Floor > 10 µg/ft²

- Pre-1960 housing
- <10 units in bldg
- Higher sill PbD
- Uncarpeted flooring

Window Sill > 100 µg/ft²

- Pre-1950 housing
- Peeling exterior paint
- Smoker in home

Note: Soil not collected in this survey. Prior studies found a pathway from soil > window troughs > sills > floors

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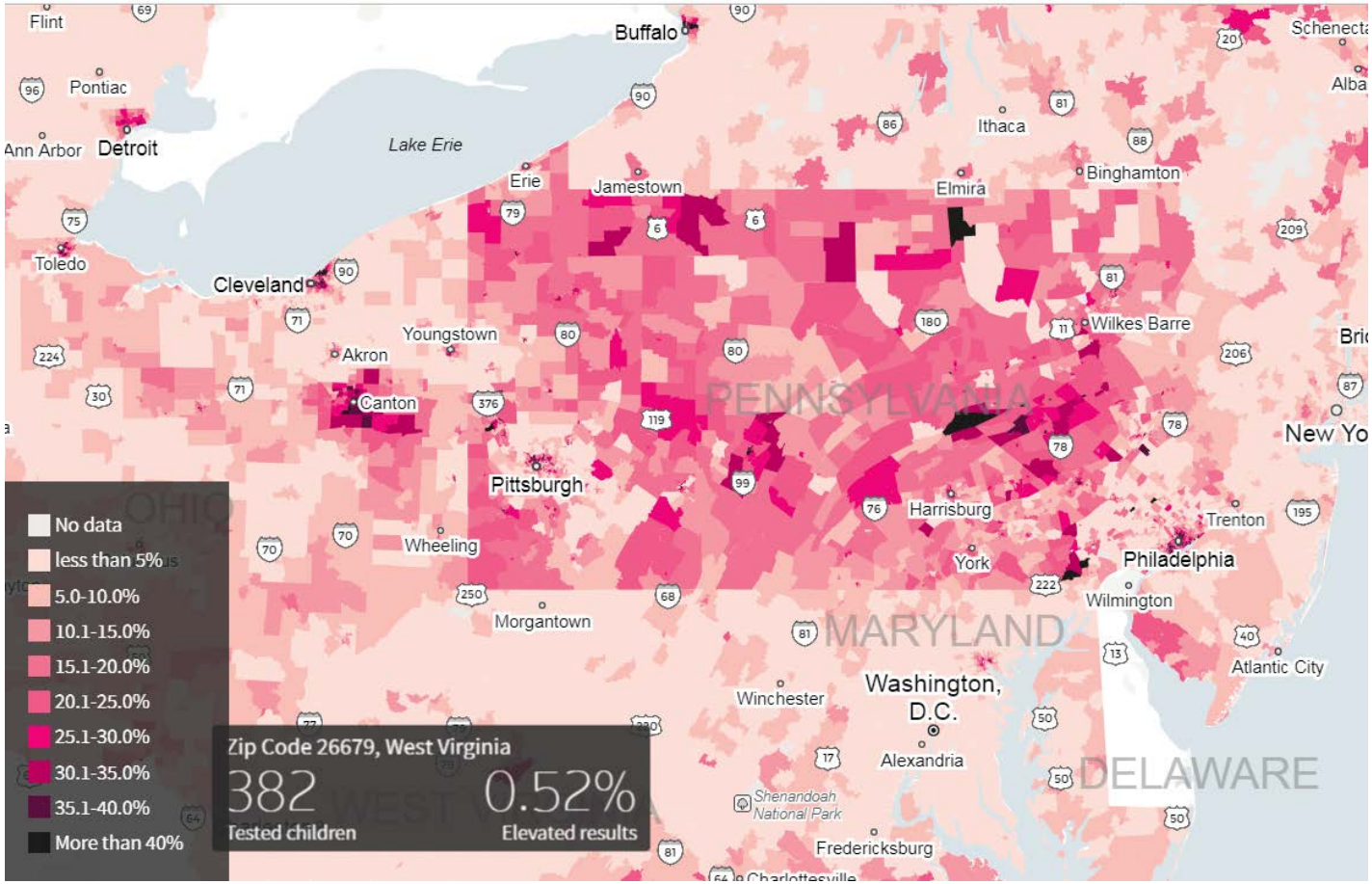
Gaitens, et al. Environ Health Perspect 117(3) Mar 2009

Mapping Areas of Risk
Blood Lead Test Data



https://www.reuters.com/investigates/graphics/lead-water/en/

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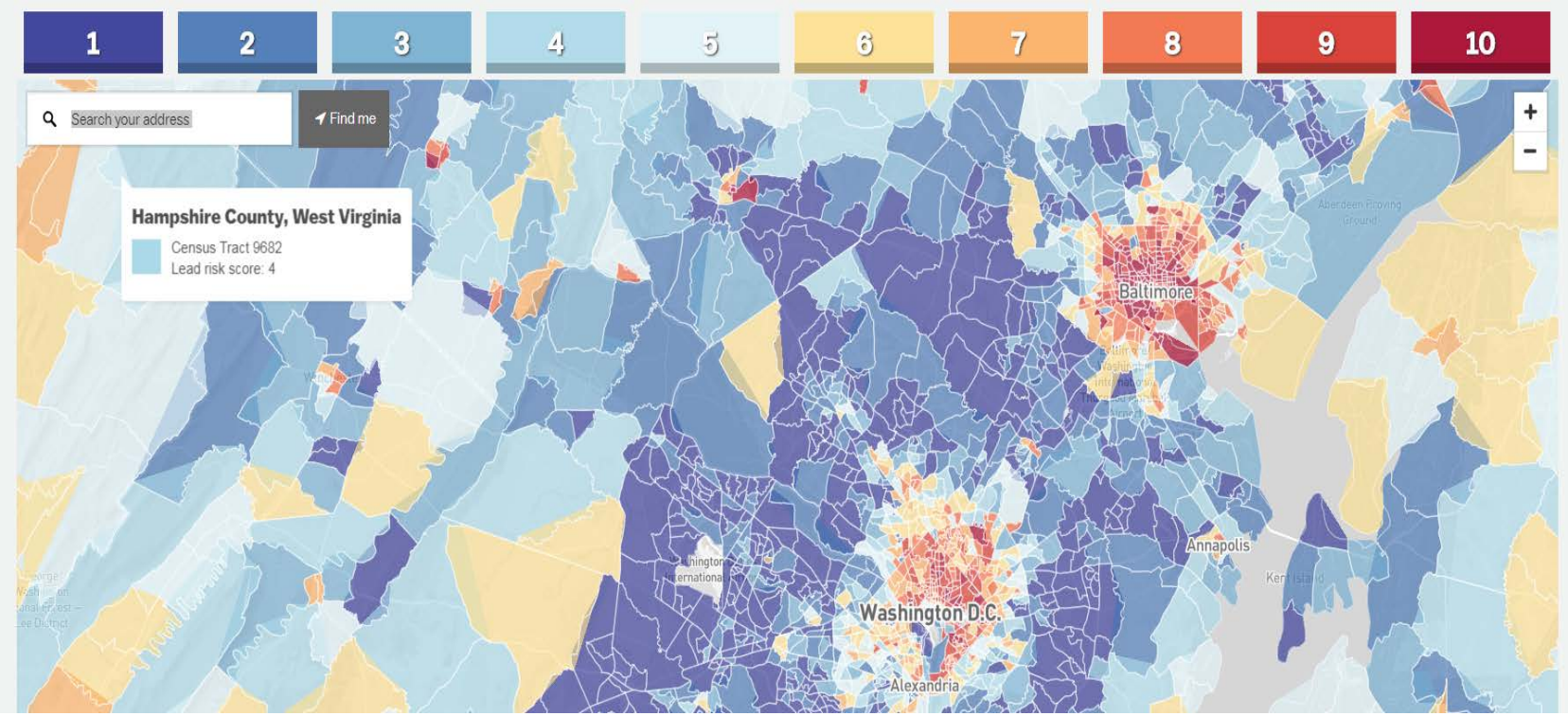
Mapping Areas of Risk
Pre-1950s Housing and Poverty



https://www.vox.com/a/lead-exposure-risk-map

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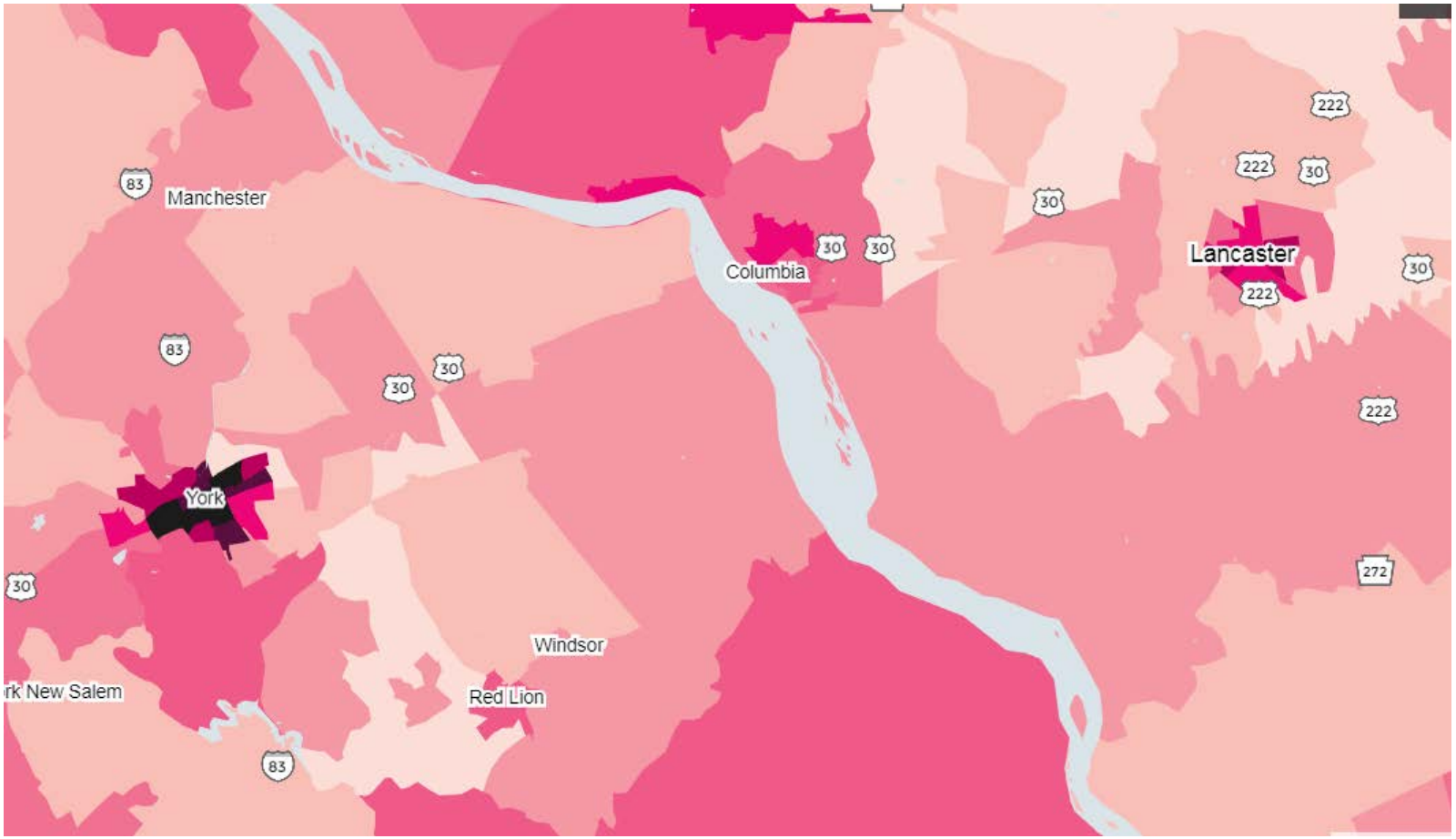

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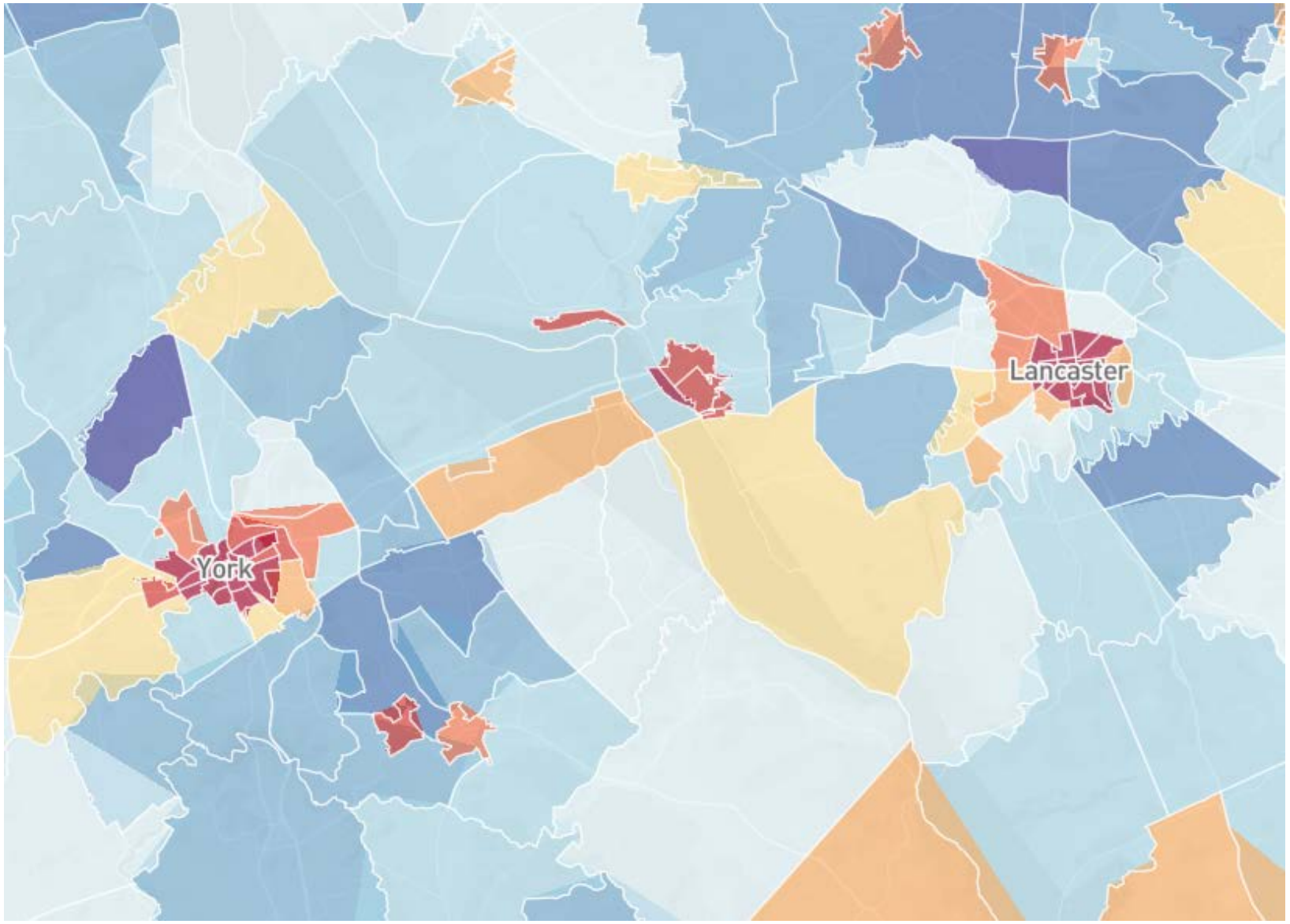

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10 Policies to Prevent and Respond to Childhood Lead Exposure

The report was developed with support from the Health Impact Project, Robert Wood Johnson Foundation, and Pew Charitable Trusts. Report available at: http://www.pewtrusts.org/en/research-and-analysis/reports/2017/08/10-policies-to-prevent-and-respond-to-childhood-lead-exposure

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Key Housing Actions

Do no harm

- Enforce renovation, repair, and painting regulations
- Return: $3.10 per dollar spent

Fix It

- Invest in prevention actions in low-income older housing *before* a child is poisoned
- Return: $1.39 per dollar spent

http://www.pewtrusts.org/media/assets/2017/08/hip_childhood_lead_poisoning_report.pdf

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Key Water Utility Actions

Fix It

- Removing leaded drinking water service lines at properties with children
- Return: $1.33 per dollar spent

http://www.pewtrusts.org/media/assets/2017/08/hip_childhood_lead_poisoning_report.pdf

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http://valueofleadprevention.org/

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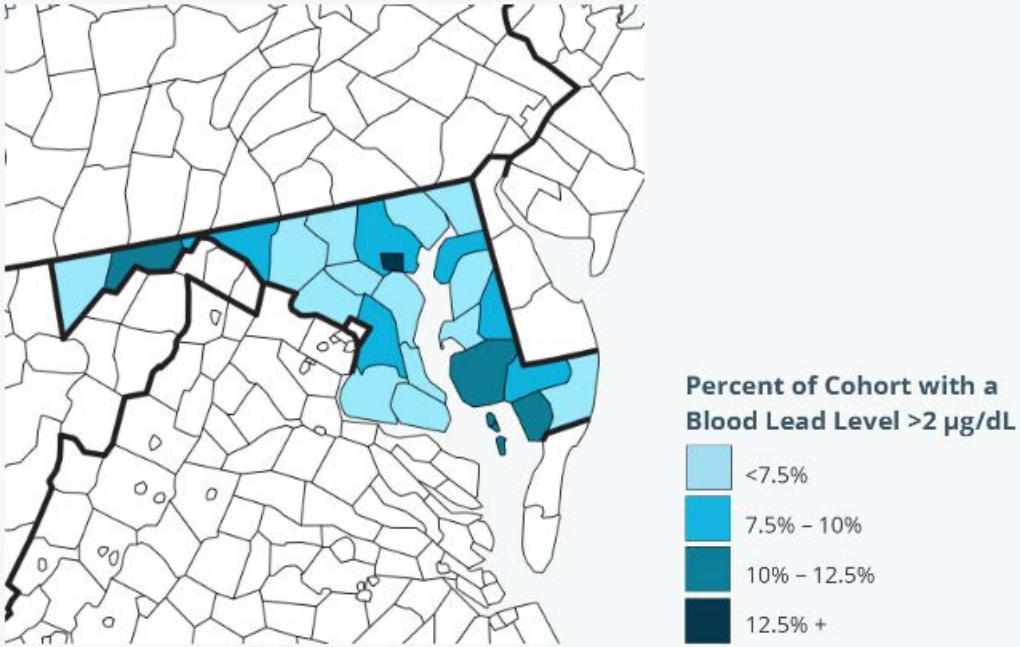
Current Exposure Risks

Map of Current Exposure Risks

Lead exposure risks for children born in 2019, shown as the estimated percent of children who will have blood lead levels above 2 ug/dL for each county in the State of Maryland. Darker shades indicate greater risks of lead exposure for children.



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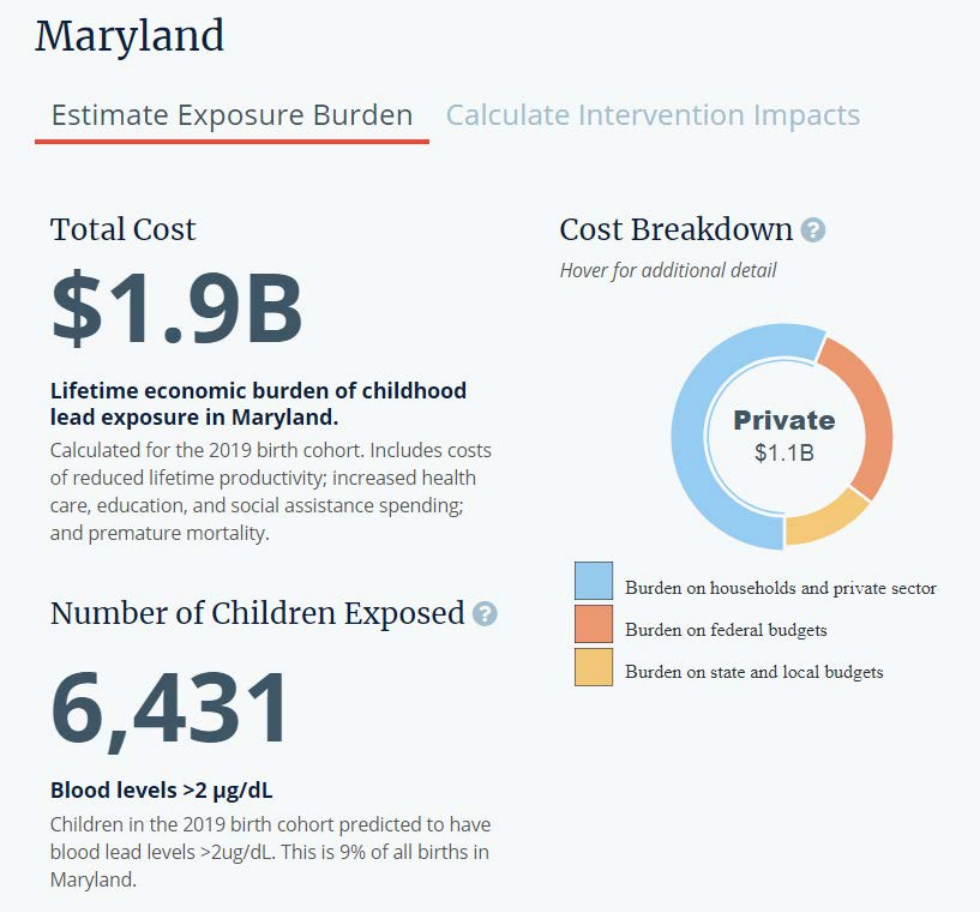
Exposure Burden



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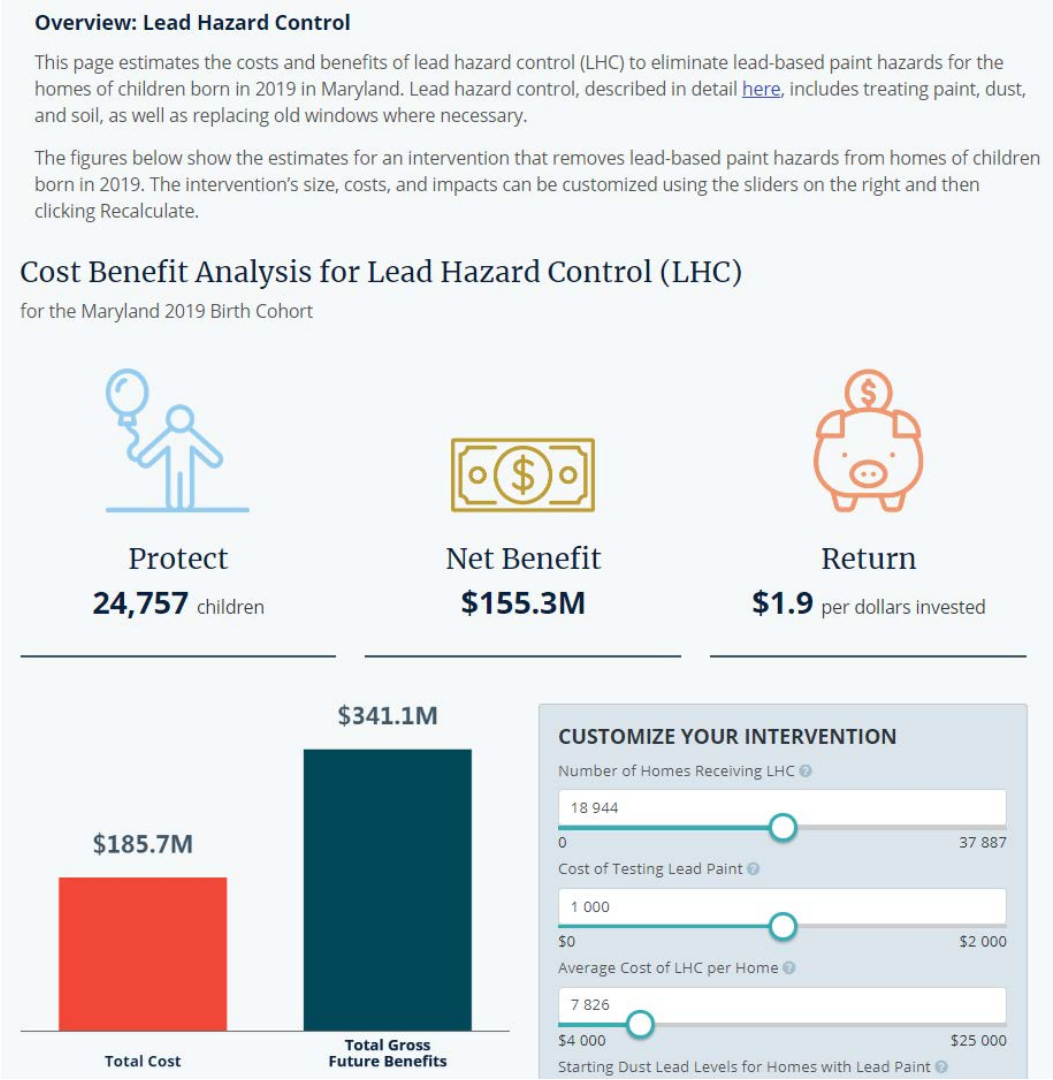
Intervention Impacts (LHC)



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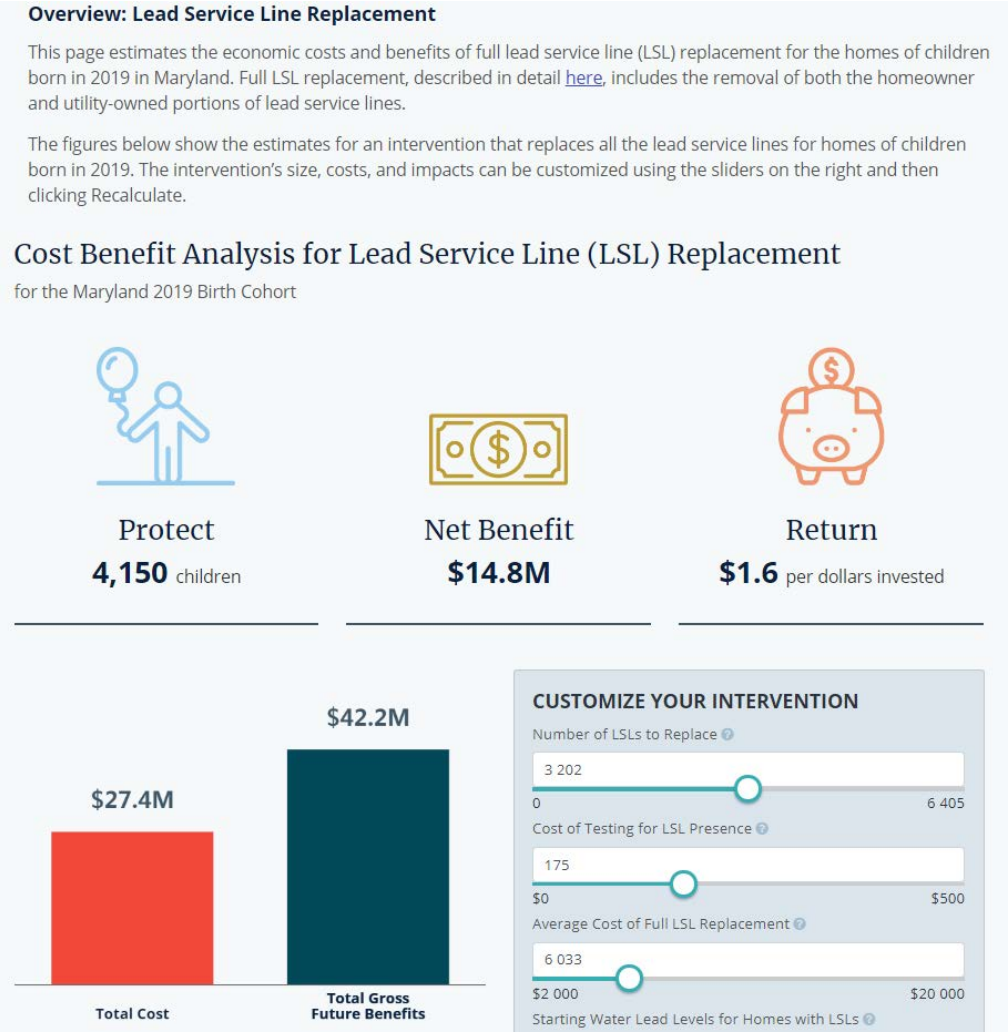
Intervention Impacts (LSLR)



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Property Maintenance Codes

JUNE 19TH, 2019

Announcing NCHH's Code Comparison Tool... and Why You Should Use It

by Jo Miller and Christopher Bloom

With National Healthy Homes Month in full swing, and while you're thinking about healthy housing, now's the perfect time for us to show you how to increase the number of safe and healthy homes in your community by understanding and strengthening your local housing and maintenance codes.

Maybe you've already heard that we at NCHH recently unveiled our new online Code Comparison Tool. (If you haven't, we suggest that you follow NCHH on Twitter to hear all of our latest news.) We're extremely excited about the tool, and we want everyone to use it right away. That's why we made it free.

https://nchh.org/tools-and-data/housing-code-tools/cct/

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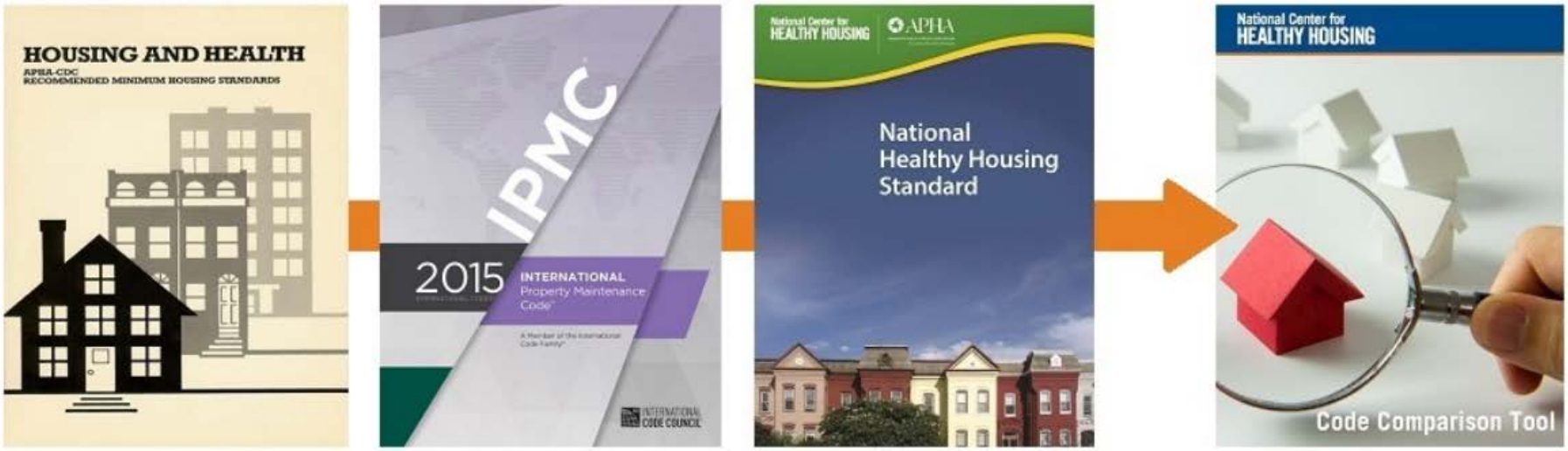
International Property Maintenance Code & National Healthy Housing Standard



Housing and Health: APHA-CDC Recommended Minimum Housing Standards (APHA and CDC), the International Property Maintenance Code (International Code Council), and the National Healthy Housing Standard (NCHH and APHA) all inspired our new interactive Code Comparison Tool.

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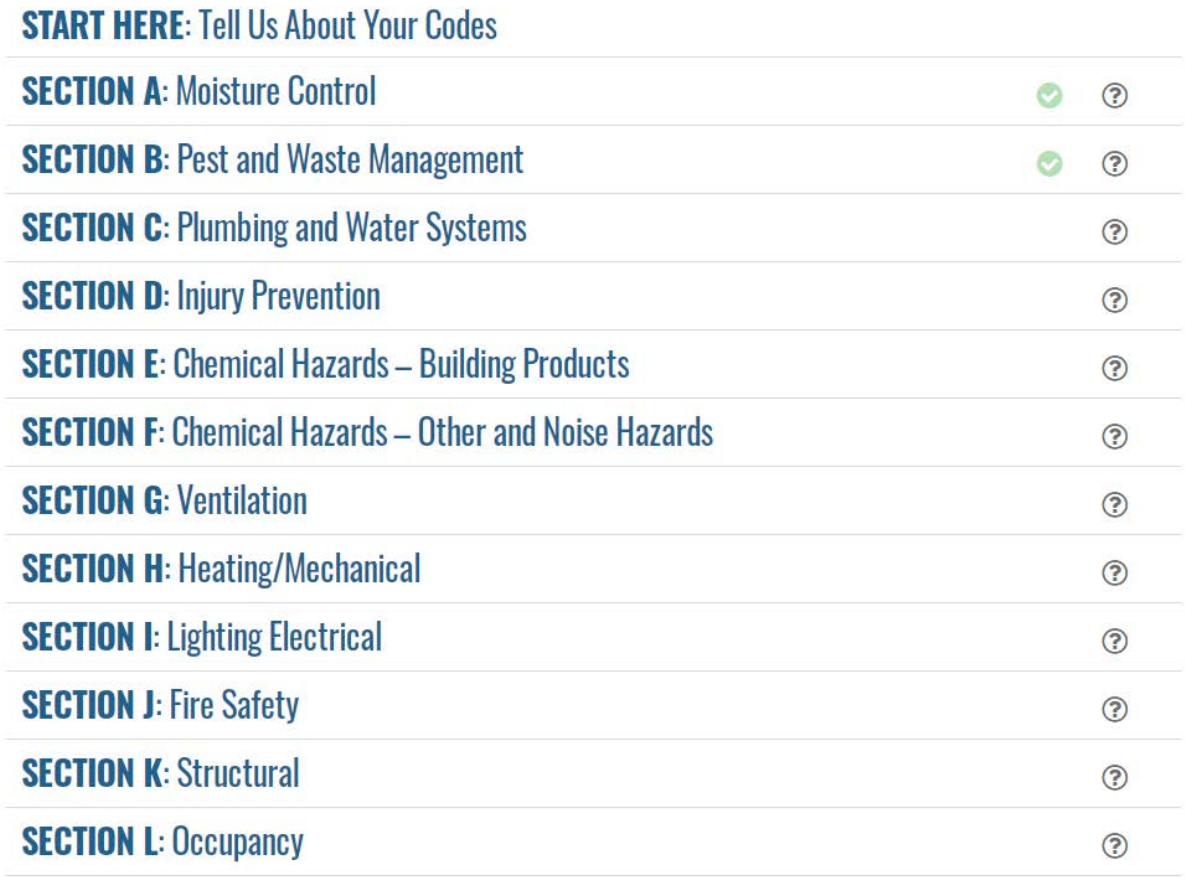
See Section E – Does Your Code Include Lead?



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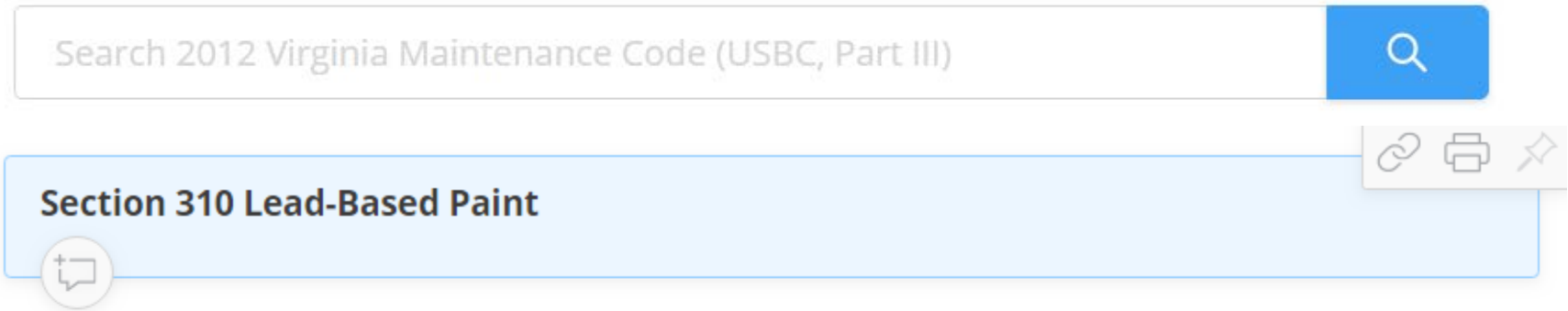
You Might Be Surprised



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Thank You!

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www.nchh.org ♦ @NCHH ♦ facebook.com/HealthyHousing

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Resources

- https://doi.org/10.1289/EHP1605
- https://www.reuters.com/investigates/graphics/lead-water/en/
- https://www.vox.com/a/lead-exposure-risk-map
- http://www.pewtrusts.org/en/research-and-analysis/reports/2017/08/10-policies-to-prevent-and-respond-to-childhood-lead-exposure
- http://valueofleadprevention.org/
- https://nchh.org/tools-and-data/housing-code-tools/cct/

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