

Healthy Homes

Community Health Advisory Committee

September 3, 2014



Overview

- The connection between housing and health
 - Terms
 - Data
 - National and State trends and programs
- Saint Paul Ramsey County Public Health
 - Where we've been
 - Where we are going
- Discussion

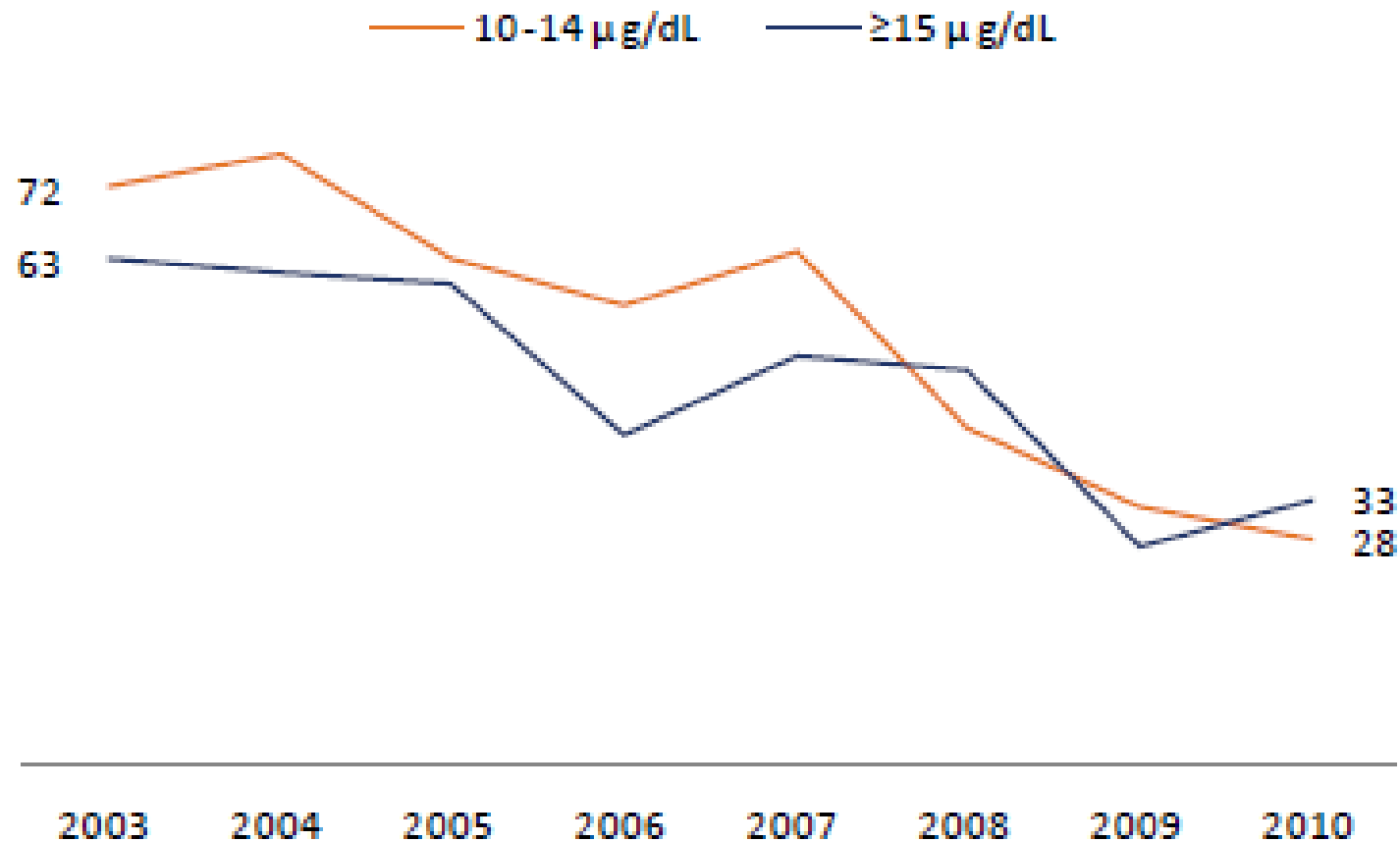
“Healthy Home”

- A healthy home is a home designed, constructed and maintained in a manner that supports the health of residents
- It is:
 - Dry
 - Clean
 - Well ventilated
 - Pest-free
 - Contaminant free
 - Safe
 - Maintained

The Healthy Homes Picture for Ramsey County

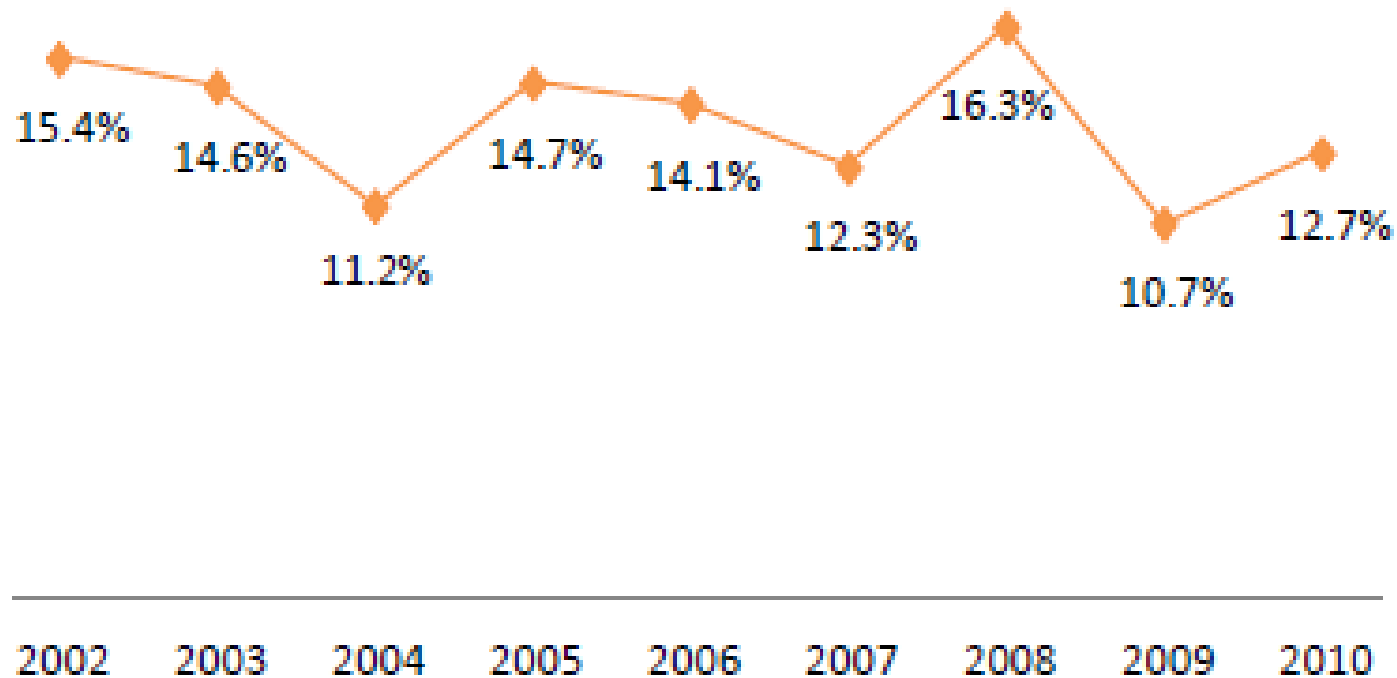
- Lead
- Asthma
- Radon
- Chemical poisonings
- Unintentional falls
- Carbon monoxide poisonings

Number of children with elevated BLLs reported to Saint Paul-Ramsey County Public Health



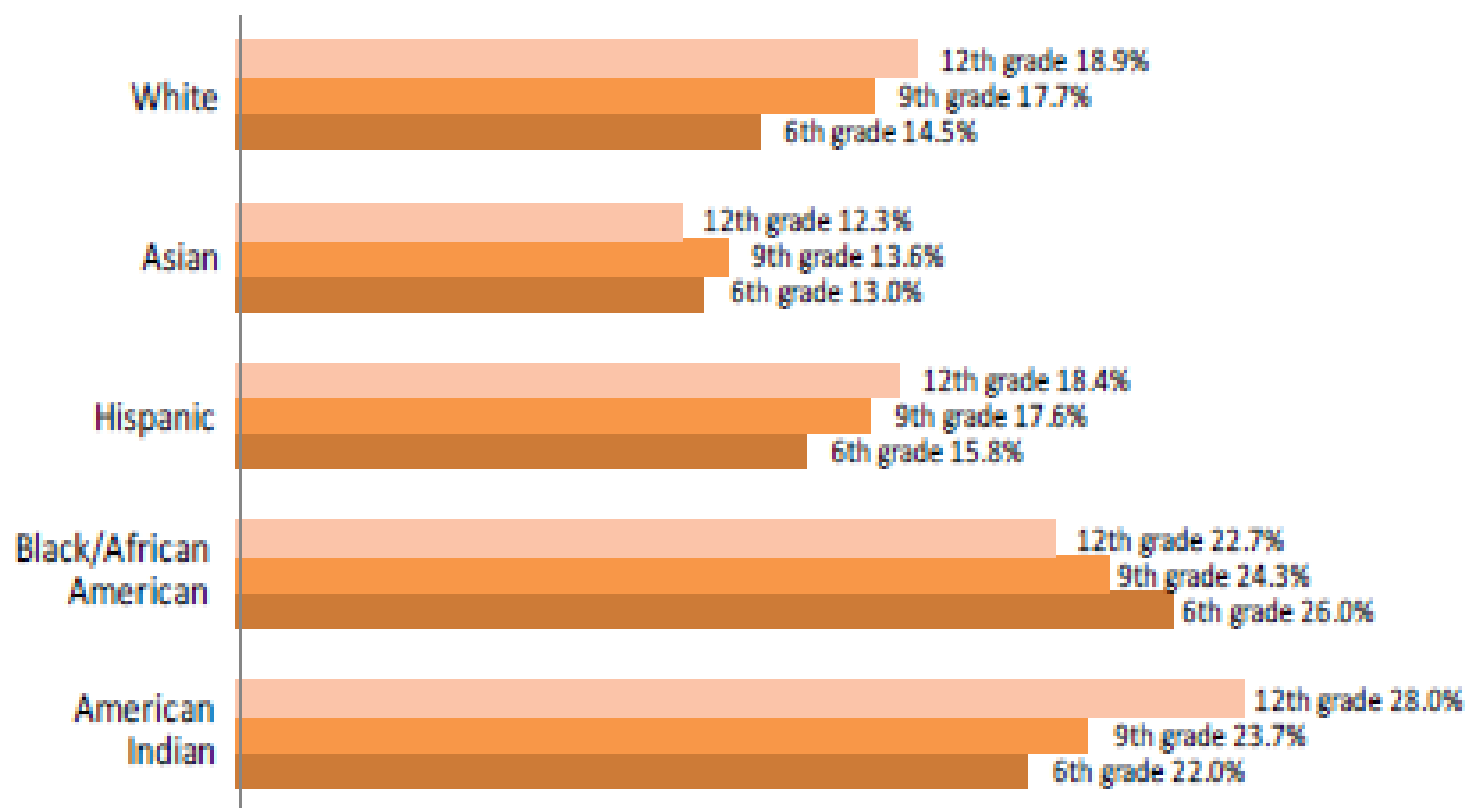
Source: Saint Paul-Ramsey County Public Health, Environmental Health and Family Health Sections.

Percentage of adults with asthma, Ramsey County



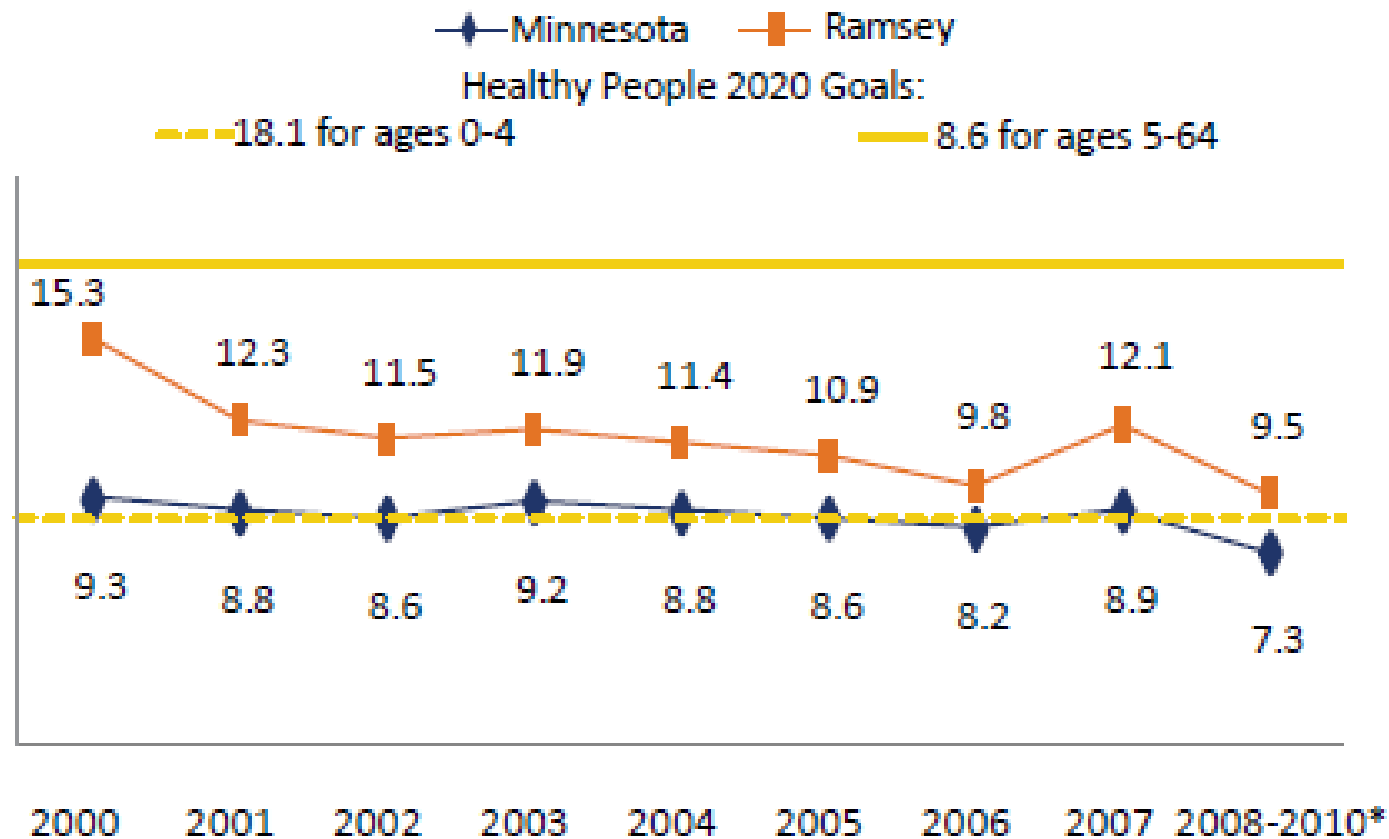
Source: Centers for Disease Control and Prevention. (2011). Behavioral Risk Factor Surveillance System.

Percentage of youth with asthma, Ramsey County, 2010



Source: Minnesota Department of Health, Center for Health Statistics. (2010). Minnesota Student Survey, Ramsey County [Data set]

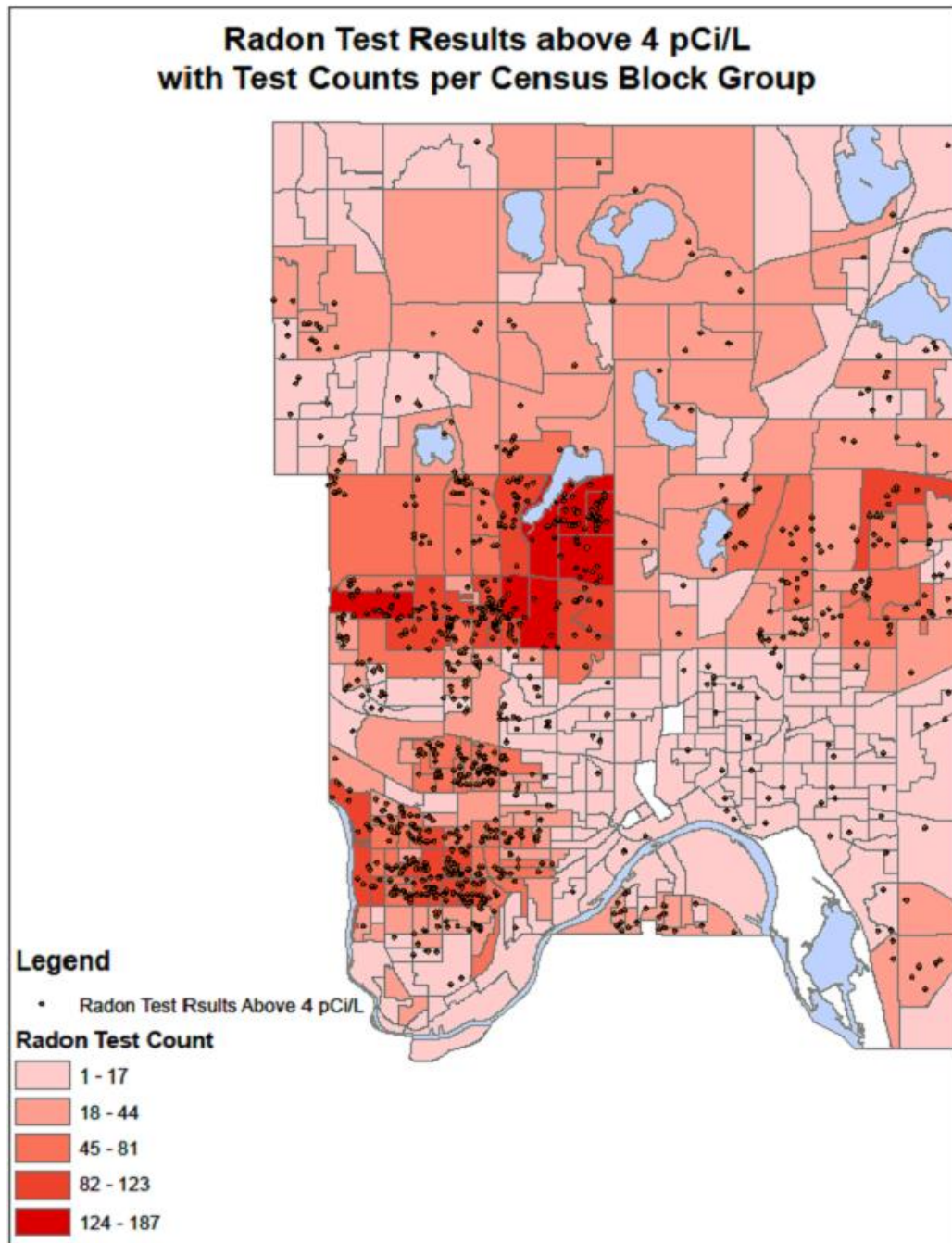
Asthma hospitalization rates (per 10,000 population)



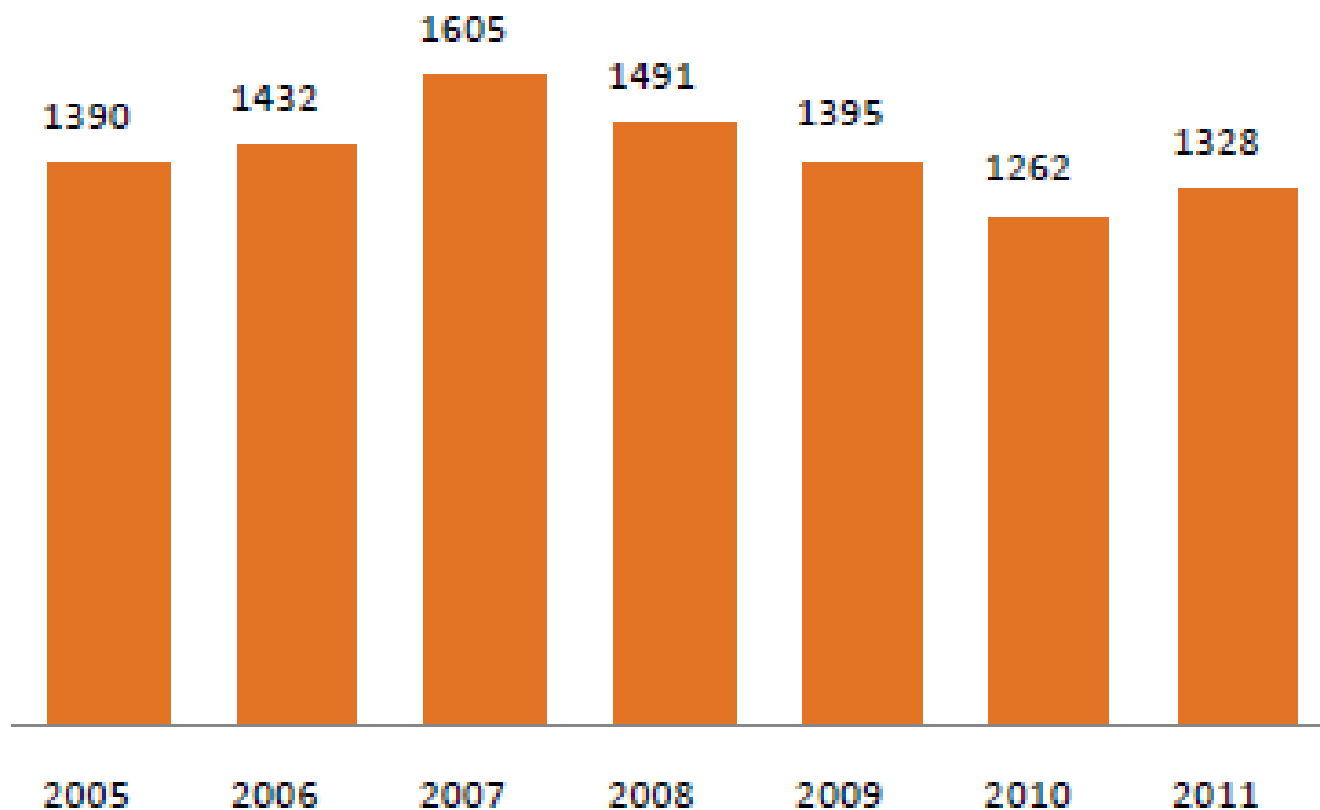
*Data for 2008-2010 only available as aggregate 3 years.

Source: Minnesota Department of Health. (2008-2010). Minnesota Public Health Data Access.

Radon Testing by Census Block Group in Ramsey County

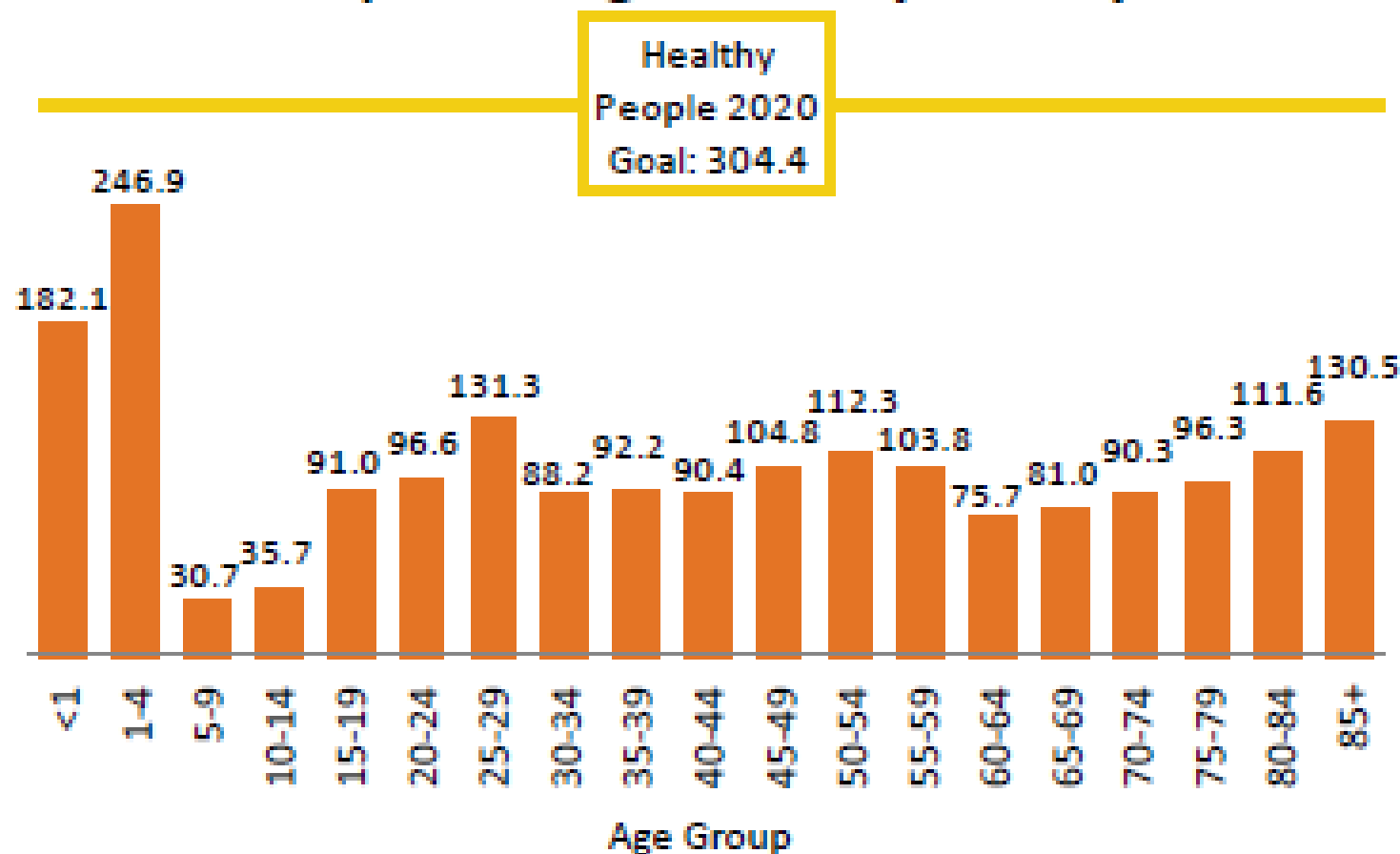


Number of household chemical calls to Poison Control, Ramsey County



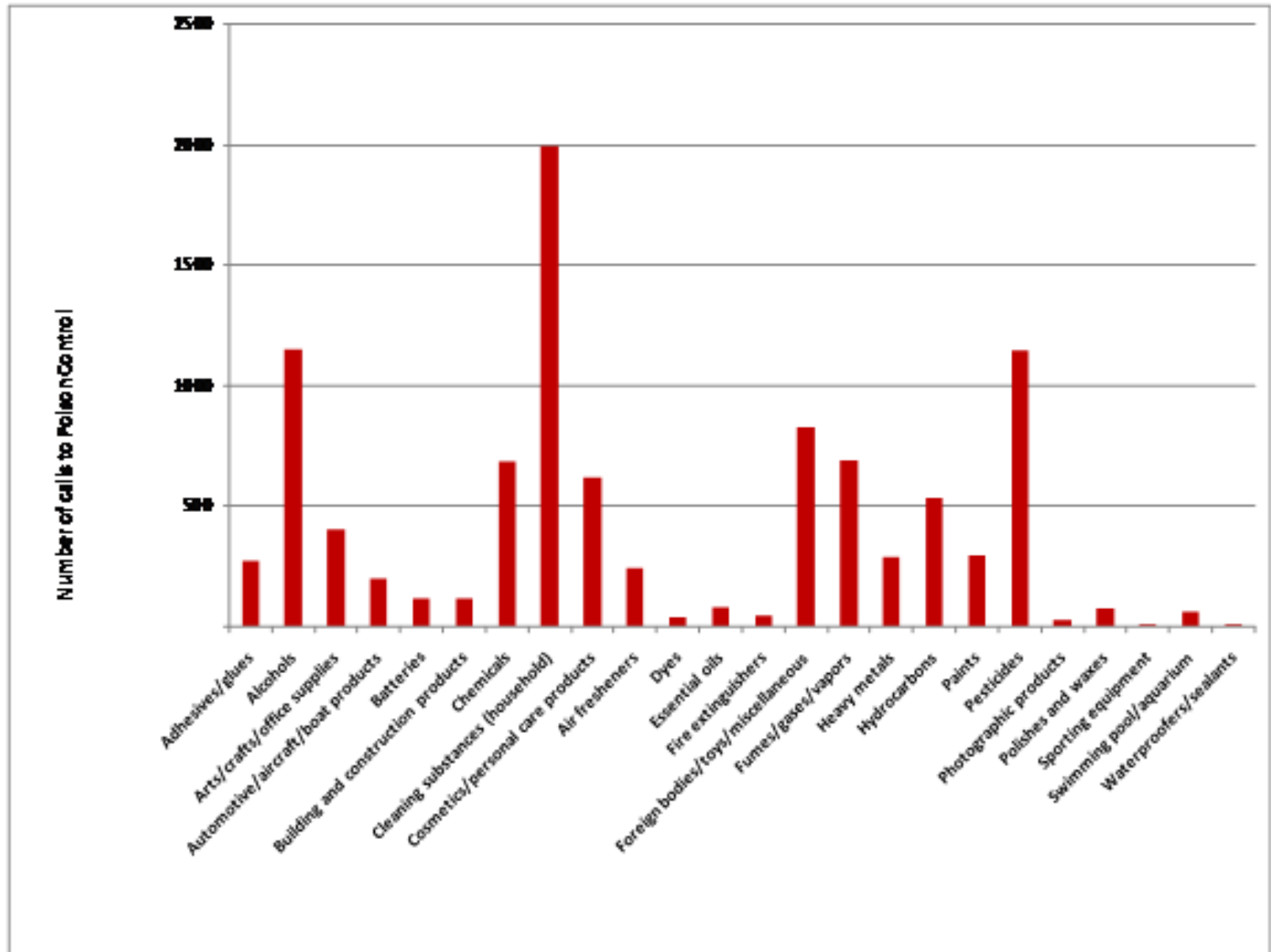
Source: Hennepin County Medical Center. (2012). Hennepin Regional Poison Center/Minnesota Poison Control System. Retrieved from: http://www.hcmc.org/a_z/hpoisoncontrol.htm

Rate (per 100,000 population) of non-fatal unintentional poisonings, Ramsey County, 2006-2011

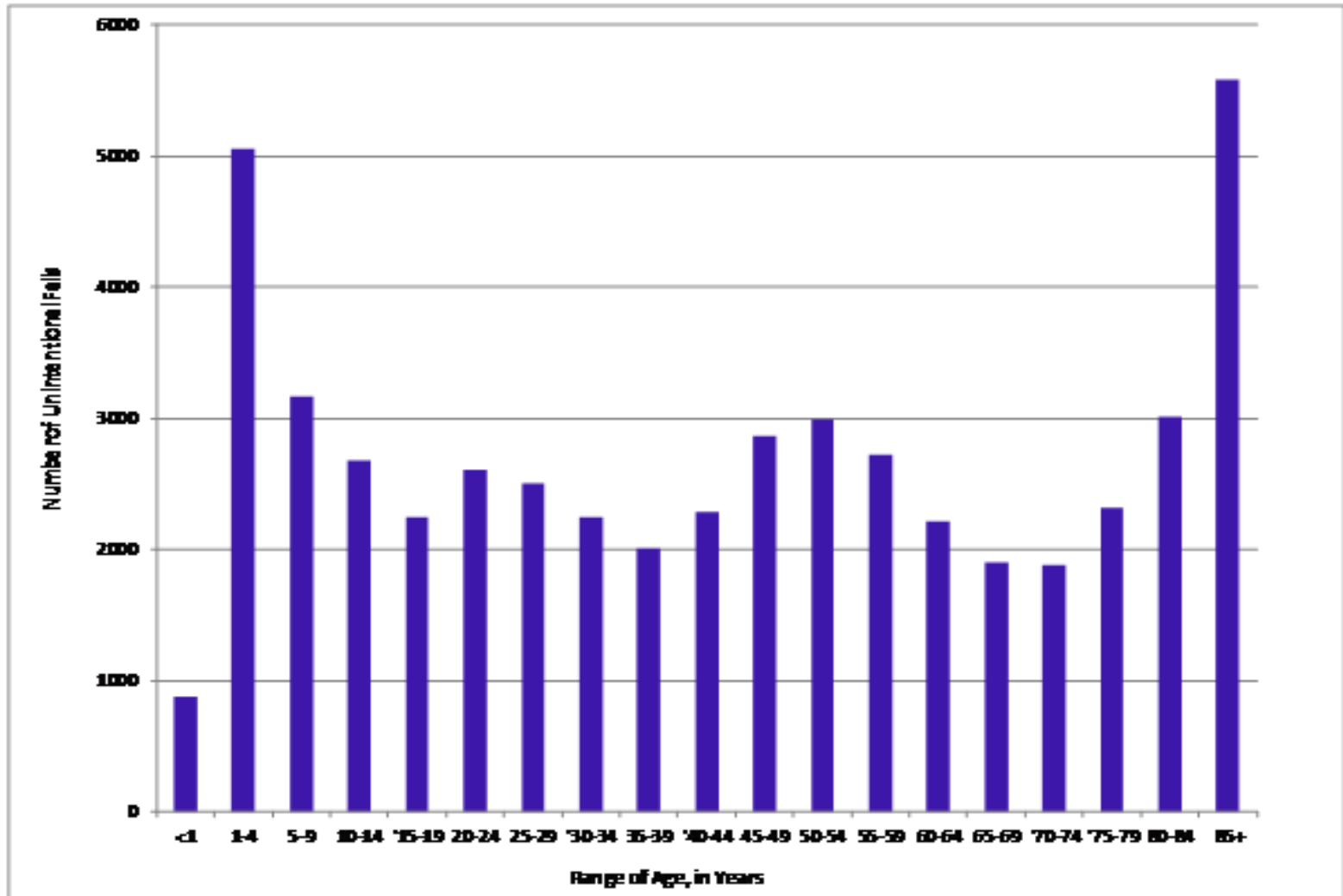


Source: Minnesota Department of Health, Minnesota Injury Data Access System. (2012). Analysis of Hospital Discharge Data. Retrieved from: <http://www.health.state.mn.us/injury/midas>

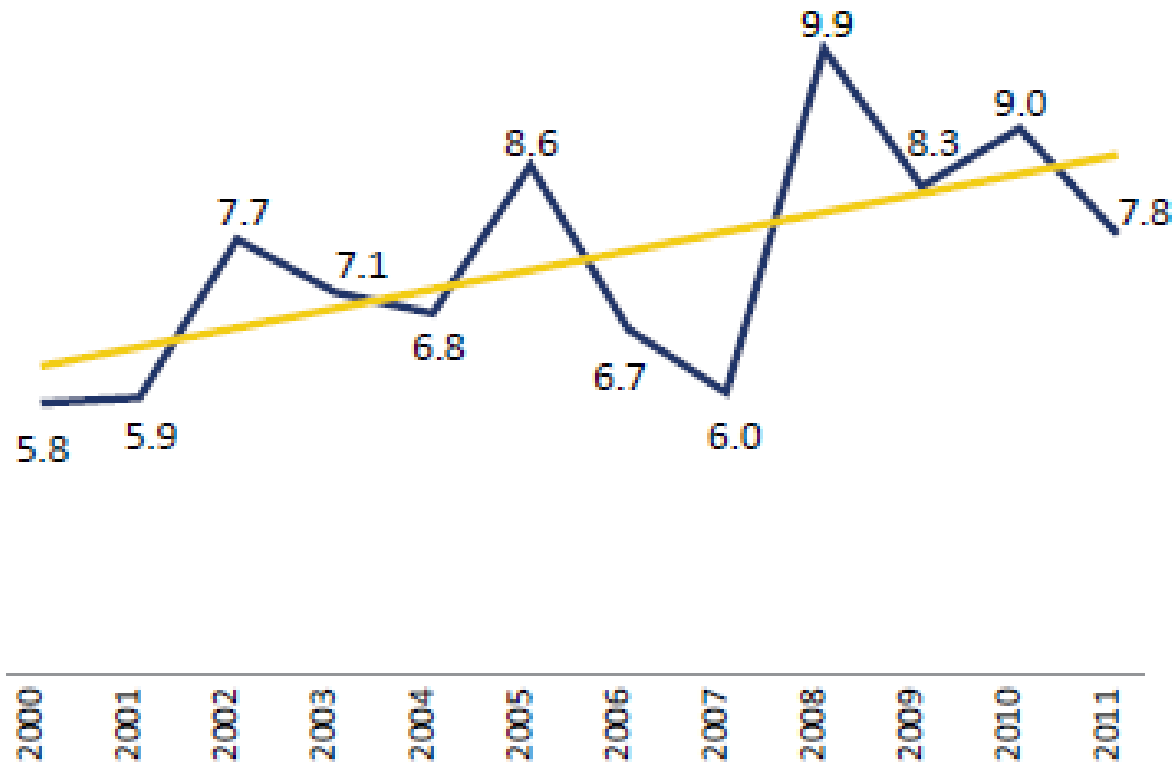
Ramsey County Calls to Poison Control by HHW Category, 2005—2011



Unintentional Falls, 2007—2011, by age

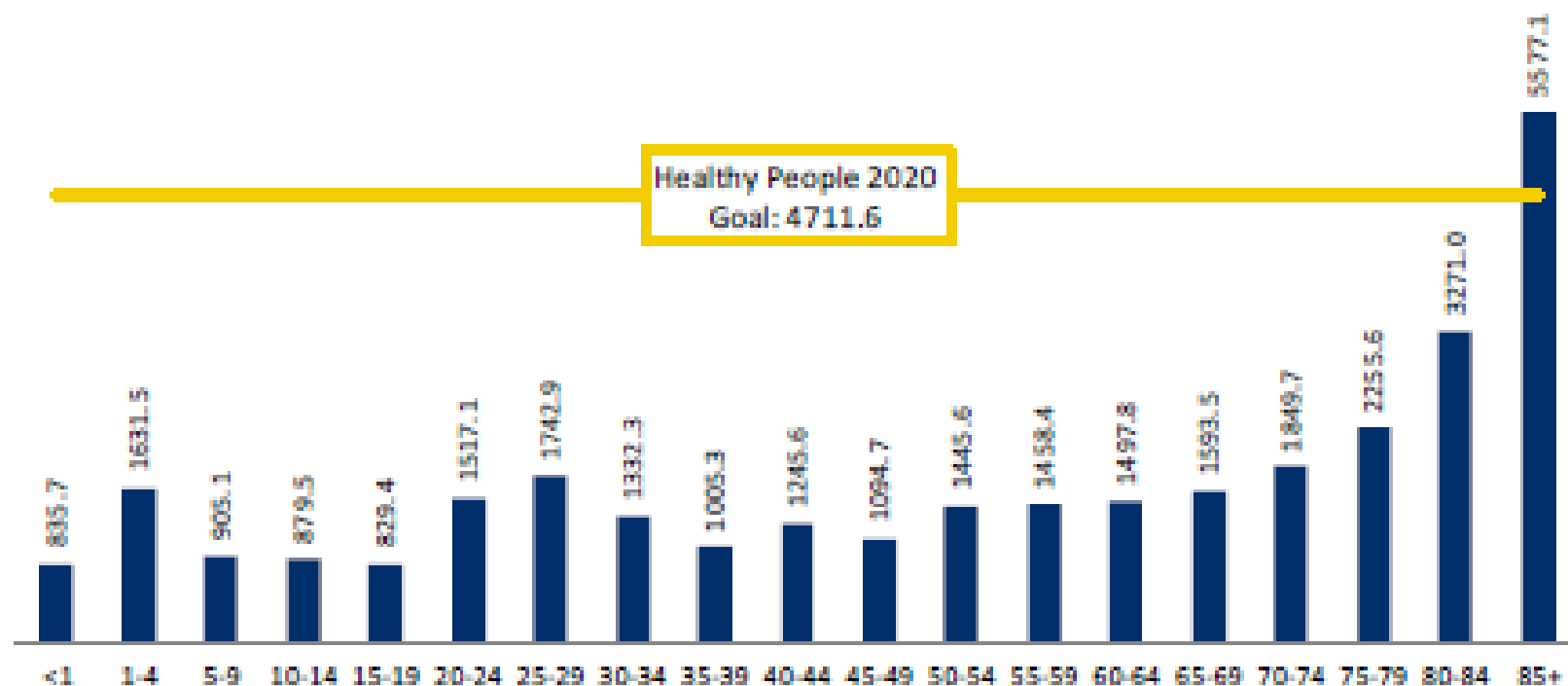


Fatal injury rate (per 100,000 population) from falls, Ramsey County



Source: Minnesota Department of Health, Minnesota Injury Data Access System. (2012). Analysis of Hospital Discharge Data. Retrieved from: <http://www.health.state.mn.us/injury/midas>

Rate (age-adjusted per 100,000 population) of fall injuries treated in an emergency department, Ramsey County, 2011

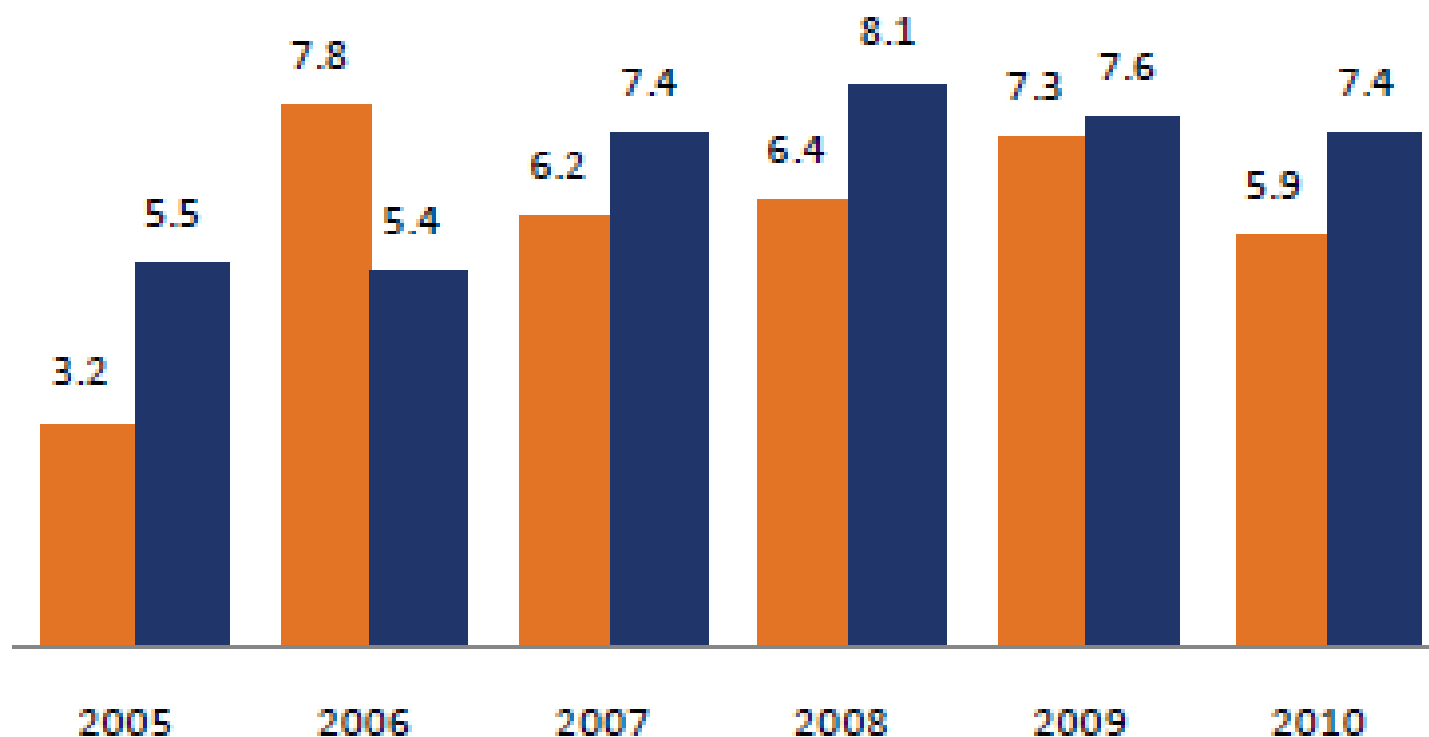


Source: Minnesota Department of Health, Minnesota Injury Data Access System. (2012). Analysis of Hospital Discharge Data. Retrieved from: <http://www.health.state.mn.us/injury/midas>

Rate (per 100,000 population) of CO poisonings

Ramsey County

Minnesota



Source: Minnesota Department of Health. (2012). Minnesota Public Health Data Access: Carbon Monoxide Poisoning. Retrieved from: <https://apps.health.state.mn.us/mndata/co>

National and State Trends

- From: Individual health related conditions
- To: Whole house approach
- Federal grants from CDC, EPA and HUD to support and develop a healthy homes approach



Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™



Ramsey County

1992: 422 active lead poisoning cases

2013: 33 active lead poisoning cases

– HUD grant #1

- Exhaustive research on only 62 homes
- Identified deteriorated painted window components as being the most dangerous lead risk to children.

– HUD Grant #2

- Demonstrate our window replacement strategy on 231 projects
- Focusing on high risk neighborhoods

– HUD Grant #3

- Implement a “Housing-based” primary prevention program.
- Completed lead hazard control on over 1000 homes occupied by young children at risk to lead poisoning

Program Transformation (2009)

- Significant program modifications include:
 - Evaluation of program procedures and revision
 - Partnership with Child and Teen Check-up program
 - Strengthening partnership with Environmental Health Lead Hazard team
 - Implementing an Electronic Medical Record system
 - Model continues

Asthma

- Previous funding primarily for treatment of symptoms and health care
- Nationally, agencies were seeing the success of lead hazard reduction using housing agencies
- Following the lead example, grant funds were redirected from health agencies to housing agencies

Asthma Grant Funding (2 rounds)

- Define the environmental triggers of asthma which are found in the home
- Determine a strategy that can minimize these environmental triggers

Intervention Product List

- Vacuum cleaner with HEPA filter
- Air cleaner for child's bedroom
- Bed and pillow encasements
- Integrated pest management kit
- Quality furnace filter
- Smoke detector, CO detector
- Household fire extinguisher



Results

- Over 500 homes (700+ children) assessed and completed in Ramsey and Hennepin Counties
- Major statistical improvement in quality of life of affected children
 - Large drop in school and work days missed
 - Large drop in emergency room visits
 - Families, self report, health is much improved

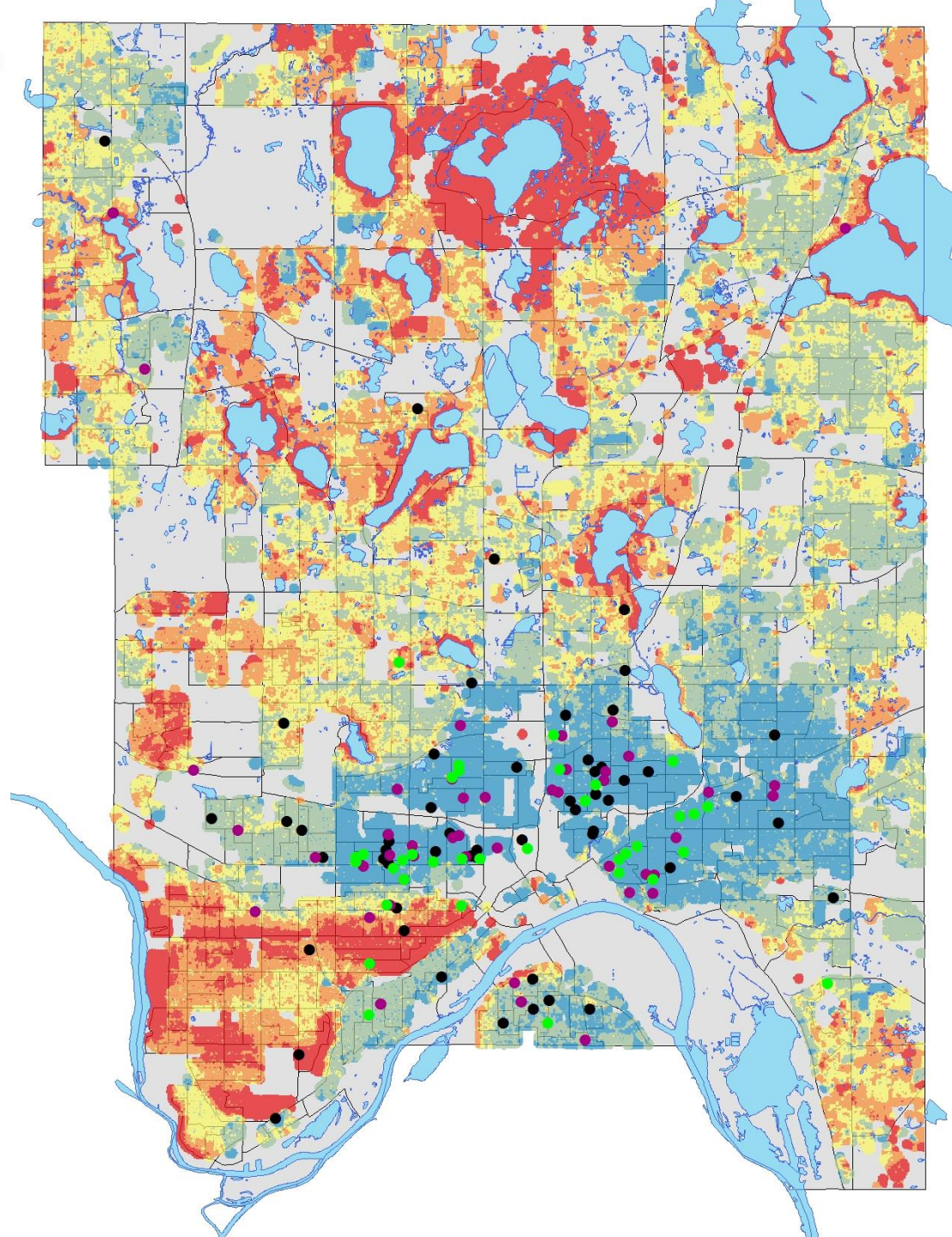
Elevated Blood Lead Levels and Home Values

Legend

- 2014 Interventions
- 2013 Interventions
- 2012 Interventions

■ Lakes and Rivers

Estimated Market Value

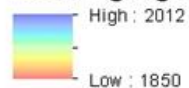


Lead Rehabilitation Sites

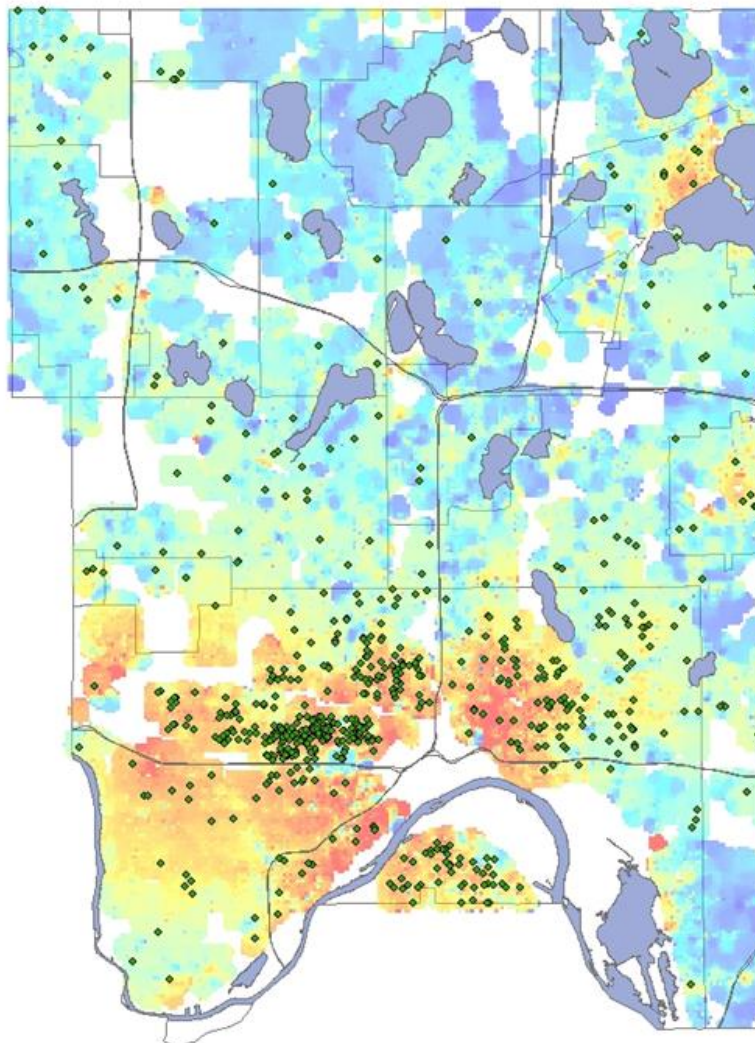
Legend

◆ Lead Rehabilitation Sites

Housing Age (Year Built)



shading represents housing age
by displaying year built



Window Replacement Projects

Legend

• Window Projects

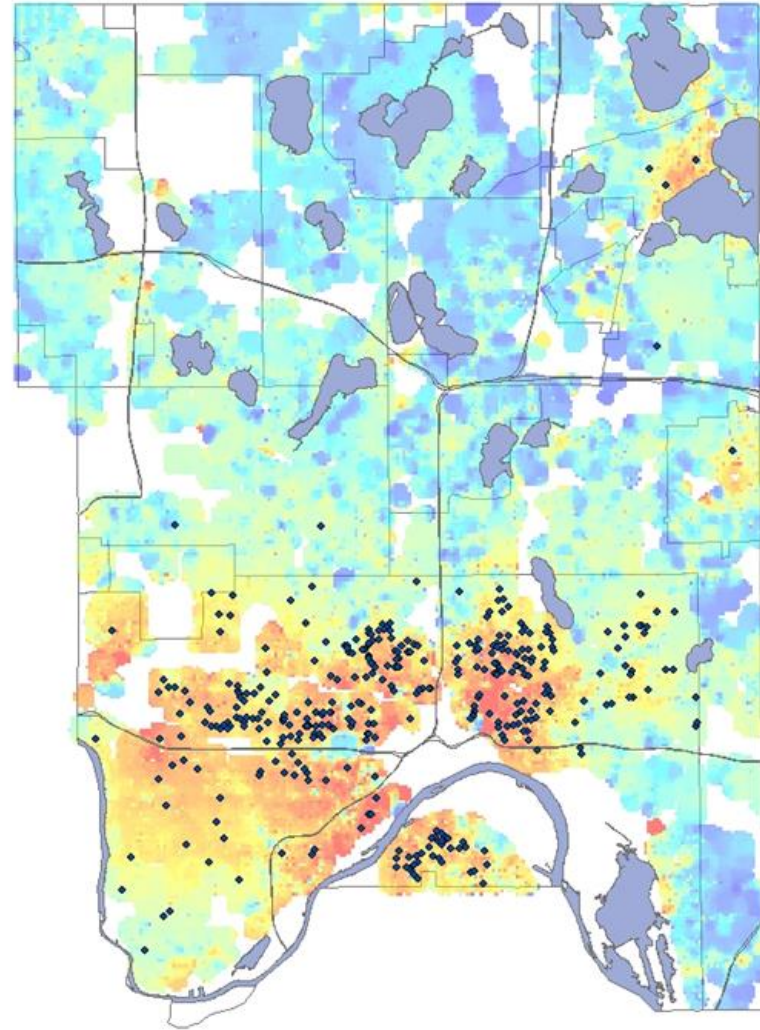
Housing Age (Year Built)

High : 2012



Low : 1850

shading represents housing age
by displaying year built

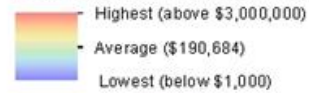


Healthy Homes Interventions

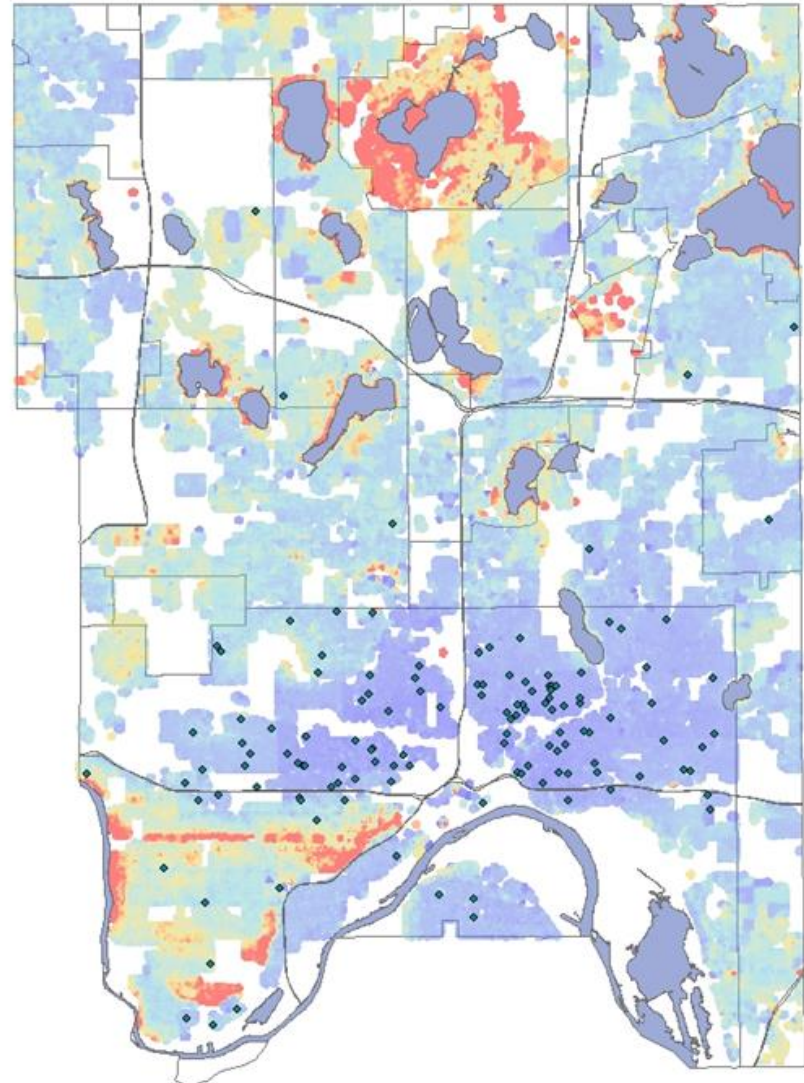
Legend

- ♦ Healthy Homes Interventions

Estimated Market Value



shading represents residential property values by displaying the total estimated market value.



Minnesota

- Alliance for Healthy Homes and Communities
- Healthy Homes Strategic Plan, 2012
 - Mission: “Promote, support and provide healthy homes for all Minnesotans”
 - Goals and strategies
 - 2013 Legislature funded future grants

