




# Highlights of the Livingston County 2010 Community Health Assessment

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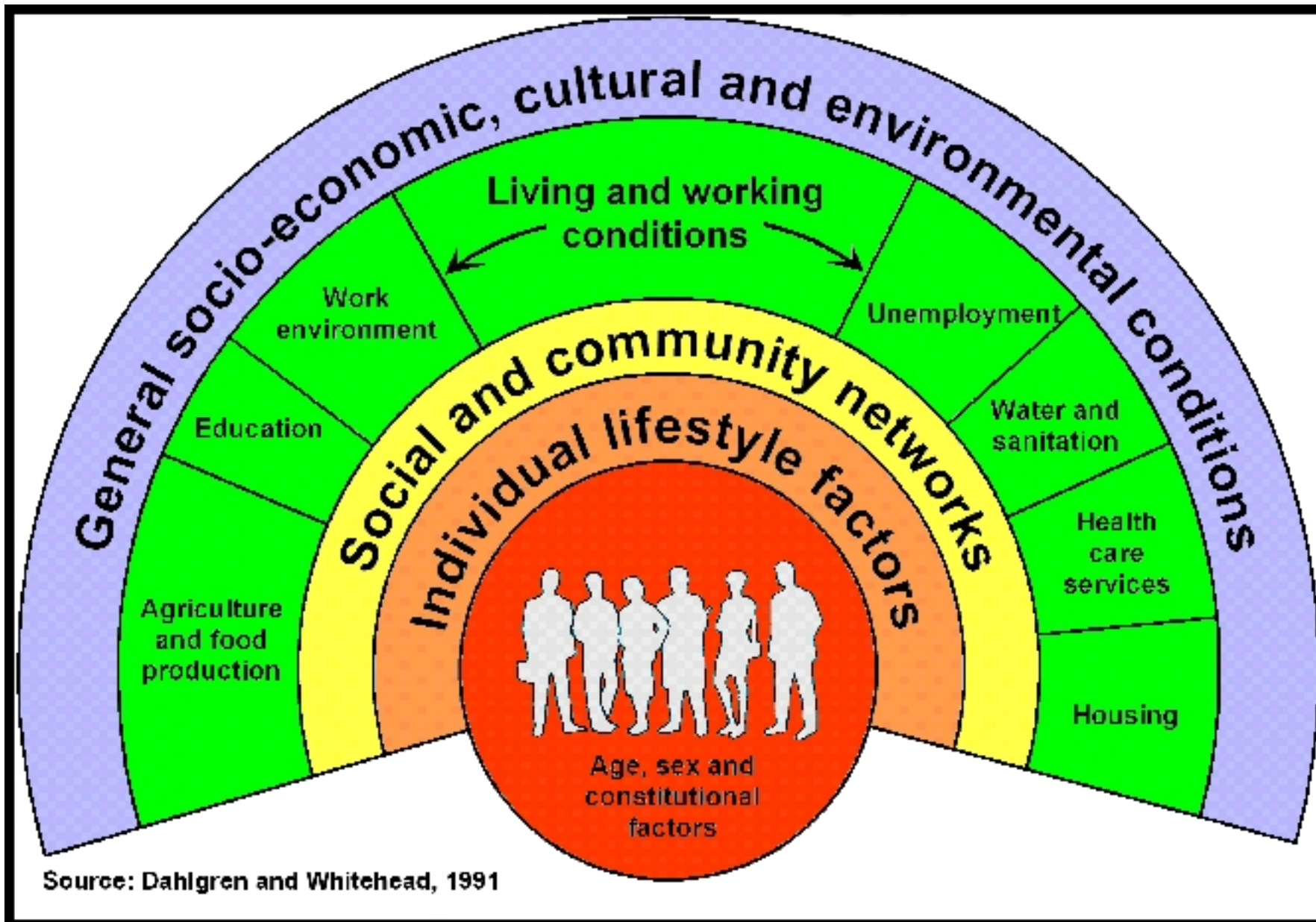


The Livingston Health Assessment Process has included the review and consideration of three components:

Population trends, April 2010

Community Survey results, June 2010

Health and related administrative data,  
August 2010



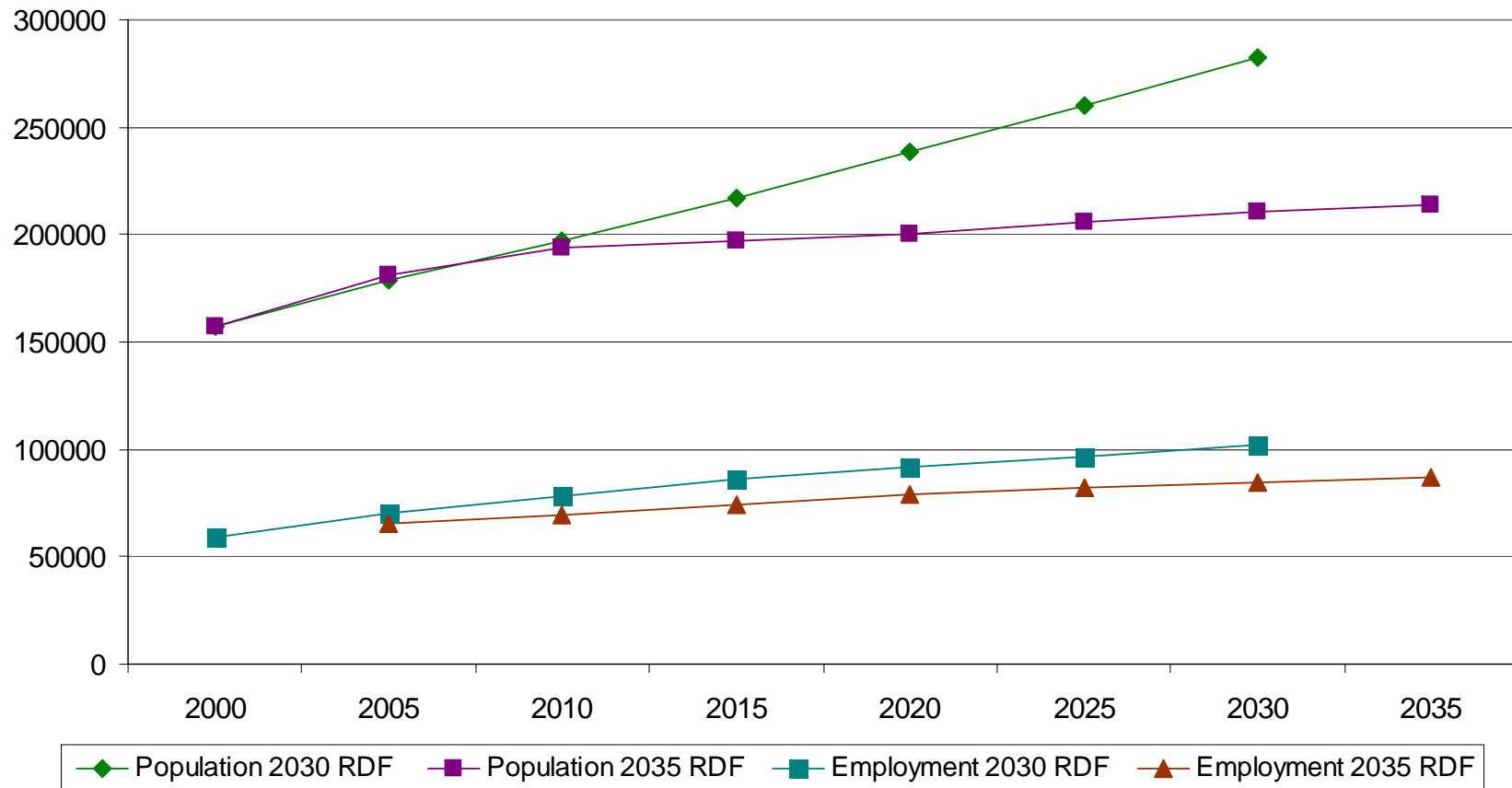
Source: Dahlgren and Whitehead, 1991



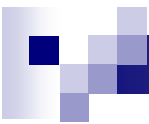
# Population - 2000 to 2035

- Population growth has slowed.
- Birth rate declining, total births will peak by 2020.
- Total population growth now expected to reach 210,000-213,000 by 2035.

# Comparison of Total Population and Employment in SEMCOG 2030 and 2035 RDF, Livingston County



Source: SEMCOG 2030 and 2035 Regional Development Forecast

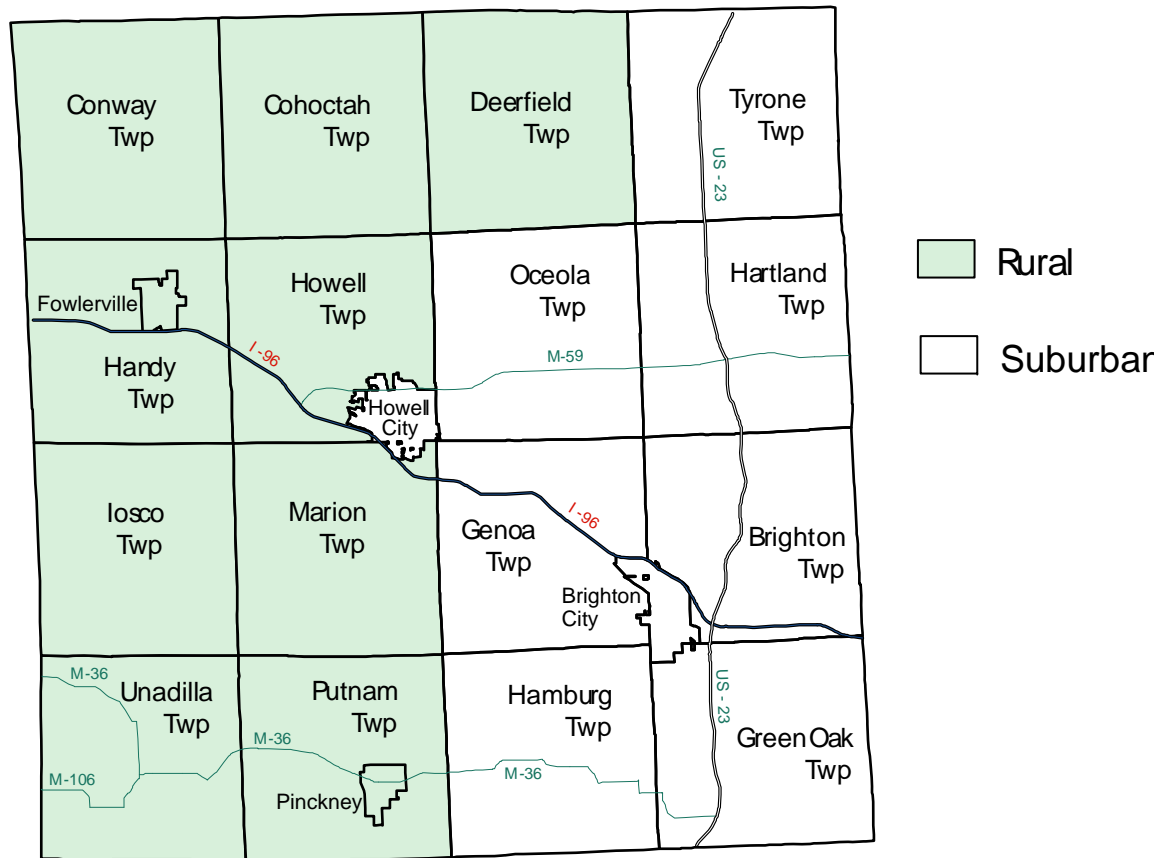


# Community Survey – Livingston County


- ✓ Health Related Behavior Risk Factor Survey
- ✓ CDC instrument and protocols with several locally developed questions
- ✓ 773 randomly selected households; 135 State sponsored and 638 County sponsored (70% suburban and 30% rural)
- ✓ Respondents stratified by:

Gender	Marital status
Age	Children <18 in home
Education	Household income

# Community Survey – Livingston County



**Sources:** Livingston County BRFS, 2004 & 2009; BRFS Estimates, State of Michigan 2009; MI BRFS 2006-2008 Combined, CDC Behavior Risk Factor Surveillance Survey, 2009, US DHHS Healthy People 2010.




# Community Survey – Livingston County

## **Areas included in 2009 Survey:**

- ✓ Health Status
- ✓ Health Care Coverage/Access to Care
- ✓ Health Conditions
  - ✓ Mental Health
  - ✓ Asthma
  - ✓ Diabetes
  - ✓ Hypertension
  - ✓ Hypercholesterol
  - ✓ Arthritis
  - ✓ Heart Attack
  - ✓ Stroke






# Community Survey – Livingston County

## **Areas included in 2009 Survey:**


- ✓ Limitations and Special Equipment
- ✓ Overweight and Obesity
- ✓ Health Related Behaviors
  - ✓ Smoking
  - ✓ Drinking
  - ✓ Lack of Physical Activity
  - ✓ Nutrition
  - ✓ Inadequate sleep
- ✓ Prevention
  - ✓ Immunization
  - ✓ Sun Protection



# Community Survey – Livingston County

## **Areas included in 2009 Survey:**

- ✓ Basic Needs
- ✓ Cost of Medication
- ✓ Care Giving
- ✓ Awareness of 211 Services
- ✓ Child by Proxy
  - ✓ Screen time
  - ✓ Physical Activity
- ✓ Parenting Resources
- ✓ Underage Drinking and Substance Abuse



# Community Survey – Livingston County

## **Areas not included in 2009 Survey:**

- ✓ Women's Health
  - ✓ Mammogram
  - ✓ Clinical Breast Exam
  - ✓ PAP Test
- ✓ Men's Health
  - ✓ PSA
- ✓ Colorectal Cancer
  - ✓ DRE
  - ✓ Blood Stool
  - ✓ Colonoscopy/Sigmoidoscopy



# Community Survey

- Overall, Livingston metrics compare more favorably than the State as a whole.
- The highest risk populations are those with lowest levels of education and income.
- Reported alcohol use is higher than the state and nation, as well as had been drinking crashes.



## Areas for community focus identified by the Livingston County Health Assessment

- Education
- Healthy Lifestyle
- Basic Needs
- Substance Abuse

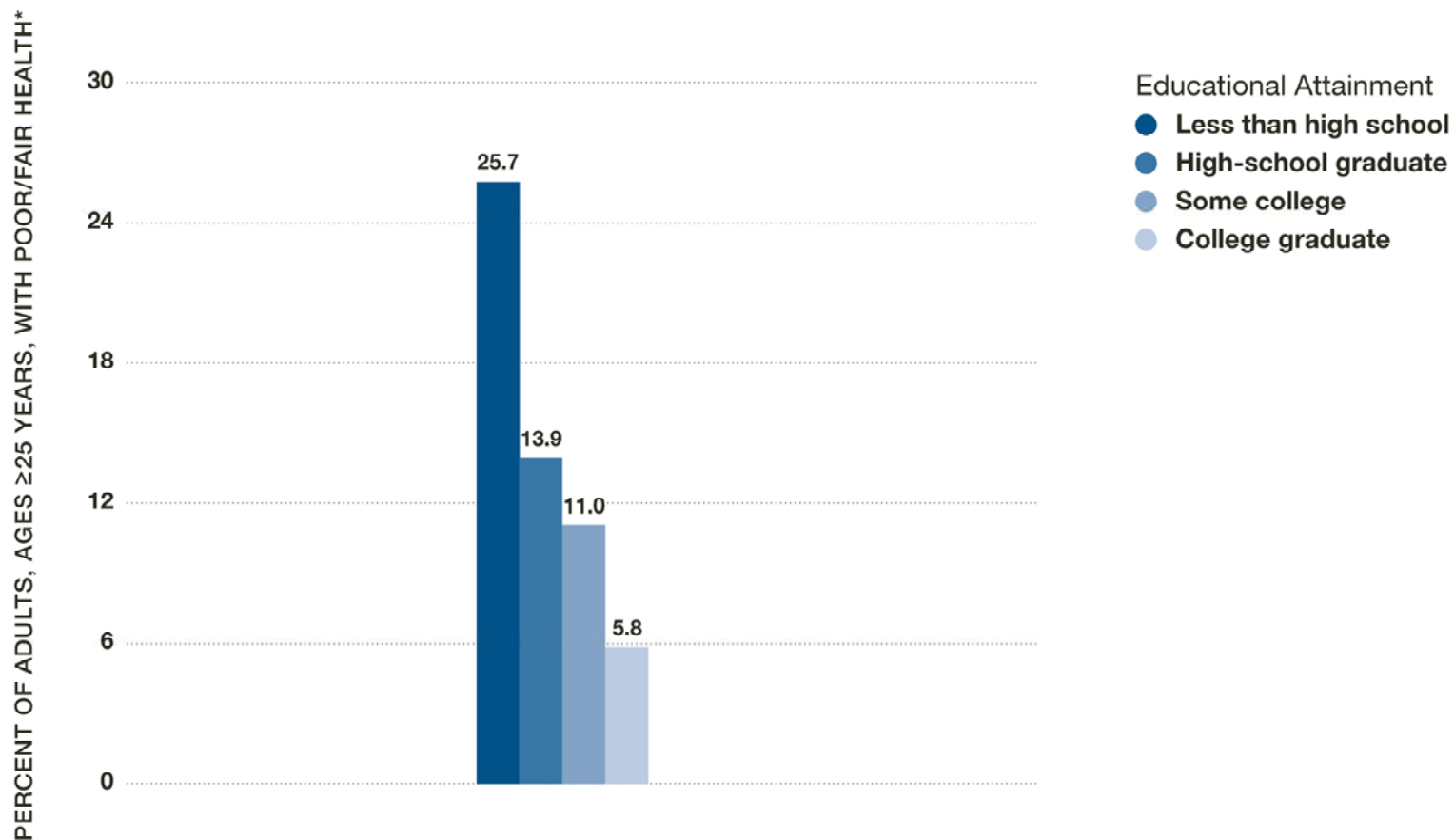


# Education

- Education and the associated income are a leading determinant of health.
- RWJ-Commission Health focused on the importance of education.
- Livingston educational attainment compares favorably to the state and nation.

## Less Education, Worse Health

Less education is linked with worse health. Compared with college graduates, adults who have not finished high school are more than four times as likely to be in poor or fair health.



Prepared for the Robert Wood Johnson Foundation by the Center on Social Disparities in Health at the University of California, San Francisco.

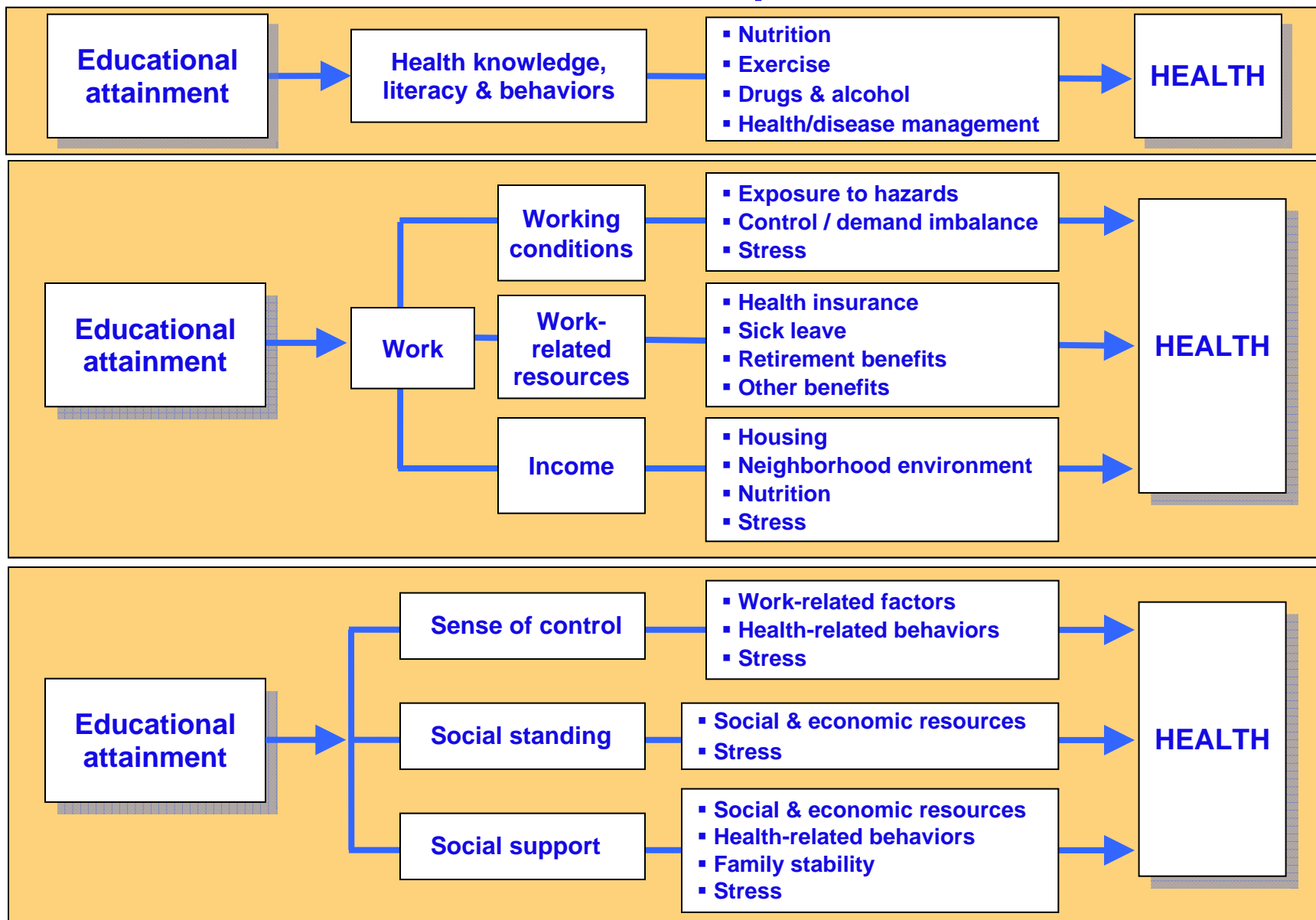
Source: National Health Interview Survey, 2001–2005.

\*Age-adjusted

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[www.commissiononhealth.org](http://www.commissiononhealth.org)

## How education shapes health







## **Community Survey identified risk groups and issues.**

Respondents with lower education and lower incomes levels represent the highest risk groups for:

- Health status
- Healthy days
- Limitations due to health
- Lack of health insurance
- Lack of health provider
- Foregoing needed medical care
- Dental visits
- Mental health treatment
- Social and emotional support
- Life satisfaction
- Asthma
- Diabetes
- Hypertension
- Hyper-cholesterol
- Overweight
- Obesity
- Heart Attack
- Stroke
- Smoking
- Physical inactivity
- Consumption of fruits and vegetables
- Paying for life's basic needs
- Living in housing that is a health risk
- Affording needed medication

# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
<b>Health Status</b>						
Health is fair or poor	15.3%	15.0%	14.2%	52.8%	41.3%	
Avg. # of days physical health was not good	4.1%	3.6%	N/A	11.5%	17.7%	
Avg. # of days mental health was not good	3.8%	3.7%	N/A	11.9%	6.1%	
Avg. # of days of limited activities due to health	2.9%	2.3%	N/A	7.8%	10.3%	
<b>Health Care</b>						
No health care coverage (18-64 years old)	14.5%	16.2%	16.9%		51.7%	38.2% <sup>1</sup>
No personal doctor or health care provider	14.1%	13.4%	N/A	35.8%		
No checkup in past year	34.3%	30.9%	N/A			47.6% <sup>1</sup>

<sup>1</sup> Income \$20,000-\$34,999

# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
Not getting needed medical care due to cost	11.8%	13.9%	N/A	32.1%		42.3% <sup>1</sup>
No dental visit in past year	21.6%	24.0%*	29.7%*		54.9%	
Currently taking meds or receiving treatment for a mental health condition	9.8%				20.0%	
<b>Disease Prevalence</b>						
Ever told had arthritis	31.1%	31.3%	N/A	47.2%	64.1%	
Arthritis limits activities	47.5%	44.1%	N/A		75.0%	
Ever told had asthma	14.2%	15.6%	13.4%			25.0% <sup>1</sup>
Currently have asthma	9.5%	9.9%	8.8%			15.4% <sup>1</sup>
Ever told had diabetes	7.0%	9.4%	8.3%	18.9%	20.6%	

\* 2008; <sup>1</sup> Income \$20,000-\$34,999

# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
<b>Disease Prevalence</b> (continued)						
Ever told had high blood pressure	24.2%	30.4%	28.6%	60.4%	63.5%	
Ever told had high cholesterol	39.1%	38.9%	37.5%	73.7%	53.1%	60.3 <sup>1</sup>
Ever told had angina or coronary heart disease*	6.5%	4.4%	3.8%	29.4%	22.2%	
Ever told had a heart attack*	4.7%	4.5%	3.9%	29.4%	28.6%	
Ever told had a stroke*	6.0%	2.7%	2.4%	41.2%	36.7%	
<b>Weight</b>						
Overweight	44.7%	35.7%	36.2%	53.8%	54.0%	
Obese	20.3%	30.9%	26.9%		31.7%	

\* 35 years of age and older; <sup>1</sup> Income \$20,000-\$34,999

# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
<b>Exercise</b>						
Physically inactive	21.4%	24.1%	23.6%	49.1%	45.3%	
Inadequate physical activity	49.7%	48.6%	49.1%	83.0%	64.9%	
<b>Nutrition</b>						
Mean # of fruit and vegetable servings daily	3.6	N/A	N/A		3.5%	
Consume 5 or more servings of fruits and vegetables daily	19.9%	22.2%	23.3%		6.5%	
<b>Immunization</b>						
Flu shot in past 12 months, 65+ years	30.1%	69.0%	70.1%			
Ever had pneumonia shot, 65+ years	23.6%	67.3%	68.5%			

# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
<b>Health Screening</b>						
Mammogram and clinical breast exam (CBE), past two years, females 40+ years	56.2%	56.4%	N/A			
PAP test, past three years, females 18+ years	81.8%	81.3%	89.2%*			
PSA test, past year, males 50+ years	63.2%	60.8%	N/A			
Colonoscopy, past five years, adults 50+ years	57.6%	56.9%	N/A			

\*Timing not noted

# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
<b>Other Health</b>						
Sun protection (as defined)						
Always or usually	40.6%					
Never	25.6%					
Housing is a health risk	1.2%				7.8%	
<b>Hardship</b>						
<u>Very</u> hard to pay for basics	13.2%				37.3%	
<u>Somewhat</u> hard to pay for basics	28.7%			48.8%	33.3%	
Concerned about having enough food, past month	6.7%				34.4%	
Providing care to family members	19.3%			32.6%		

# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
<b>Medication Cost</b>						
<u>Major</u> problem affording medications	7.8%			29.5%	33.3%	
<u>Minor</u> problem affording medications	16.3%			18.2%	25.5%	
Medication cost per month						
<\$10	35.6%					
\$10-\$50	32.0%					
\$50+	32.3%			72.1%	62.7%	
Took steps to afford medications, past year	34.9%			58.1%	67.3%	
<b>Other Issues</b>						
Unaware of 211 services	82.7%				25.3%	



# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
<b>Other Issues</b> (continued)						
Hours of screen time, children under 18 years						
1 or more hours	57.2%					
2 or more hours	40.2%					
3 or more hours	13.9%					
Child participation in physical activities	85.6%					
Parenting resources						
Other family members	66.3%					
Friends	64.9%					
Books	61.1%					
Pediatrician	51.1%					
Internet	43.8%					
Parenting magazines	36.0%					
Co-workers	31.1%					
Childcare provider	22.5%					

# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
<b>Limitations</b>						
Mental, physical or emotional limitations	19.6%	20.3%	18.8%	34.0%	44.4%	
Require special equipment	7.2%	7.8%	7.0%	26.4%	33.3%	
<b>Smoking</b>						
Current smoker	15.1%	19.8%	17.9%	32.1%	34.0%	
Former smoker	31.7%	25.8%	25.5%			
Never smoked	53.2%	54.4%	55.2%			
Quit Ratio	68.8%	61.7%	N/A	51.4%		
<b>Alcohol Use</b>						
Heavy Drinker	5.9%	5.2%	5.1%			20.4% <sup>2</sup>
Binge Drinking	18.1%	16.9%	15.7%			32.7% <sup>2</sup>

<sup>2</sup> Income \$35,000-\$49,999

# Livingston County Community Survey Summary

Measure	Region			Risk Group		
	Livingston County	Michigan	United States	< High school graduate	Income < \$20,000	Other
<b>Underage Drinking and Substance Abuse</b>						
Availability of alcohol						
Not available	0.0%					
Somewhat available	54.2%					
Widely available	45.8%					
Underage drinking						
Not a problem	10.7%					
Somewhat of a problem	61.2%					
Big problem	28.1%					
Illegal drug use						
Not a problem	9.2%					
Somewhat of a problem	48.2%					
Big problem	42.5%					
Misuse of prescription drugs						
Not a problem	13.5%					
Somewhat of a problem	66.3%					
Big problem	20.2%					



# The Economy and Health

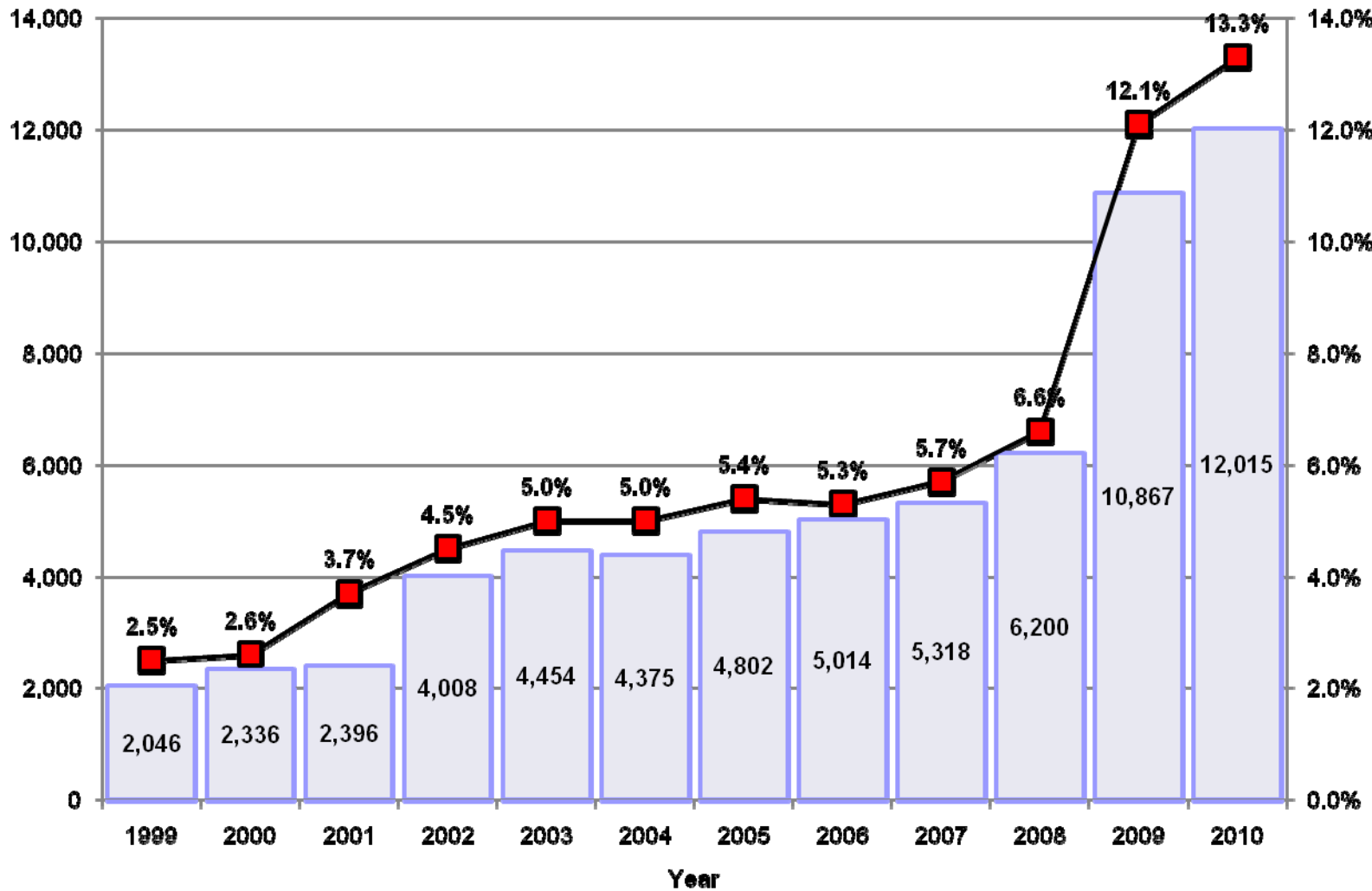
Unemployment: Livingston in 2009: 12.1%  
1<sup>st</sup> Quarter 2010: 13.3%

Significant job loss last decade 7,829 jobs, overall down 15.5%.

- Manufacturing 43.8% (62% of total loss)
- Construction 54.4% (33% of total loss)
- Insurance/Finance 28.2%

- Residential building net units at nearly a 40 year low.

# Unemployment Trends in Livingston County



Legend: ▭ Average Number Unemployed    —■— Unemployment Rate



# Change in Employment for Selected Industries 2001-2009


## Livingston County, MI

<b>Sector</b>	<b>2001</b>	<b>2005</b>	<b>2009</b>	<b>Net change from 2001</b>	<b>% change since 2001</b>
All Industries	50,426	50,876	42,598	-7,828	-15.5%
Manufacturing	11,029	8,868	6,196	-4,833	-43.8%
Construction	4,691	4,583	2,140	-2,551	-54.4%
Insurance/Finance	2,632	2,473	1,890	-742	-28.2%



# Poverty

- Increased significantly in 8 years from 2000-2008.
- Census estimates indicate that persons below poverty (<100% FPL) more than doubled.
- Persons at or near poverty (<200%FPL) doubled, increasing to 32,000 persons, or nearly 18% of total population.
- Free and reduced price lunches for school children nearly tripled in the last decade.



# Changes in Poverty, Livingston County, 2000 and 2008

	2000	2008	% Change
<b>&lt;100% FPL</b>	5,228 3.4%	13,827 7.6%	164.4%
<b>100-199 % FPL</b>	10,896 7.0%	18,120 10.0%	66.3%
<b>&lt;200% FPL</b>	16,124 10.4%	31,949 17.6%	98.1%
<b>&gt; 200% FPL</b>	139,321 89.6%	149,788 82.4%	7.5%
Total Population	155,445	181,737	16.9%

Source: U.S. Census Bureau 2000, 2008 American Community Survey





# Free and Reduced Price Meals, Livingston County, 2000 and 2010

	<b>1999/2000</b>	<b>2009/2010</b>
Free Lunch	1,253	4,315
Reduced Price Lunch	649	1,422
Free and Reduced Price Lunch	1,902	5,737
Total Enrollment	25,623	29,414
% of Total Enrollment	7.4%	19.5%

Source: Michigan Department of Education

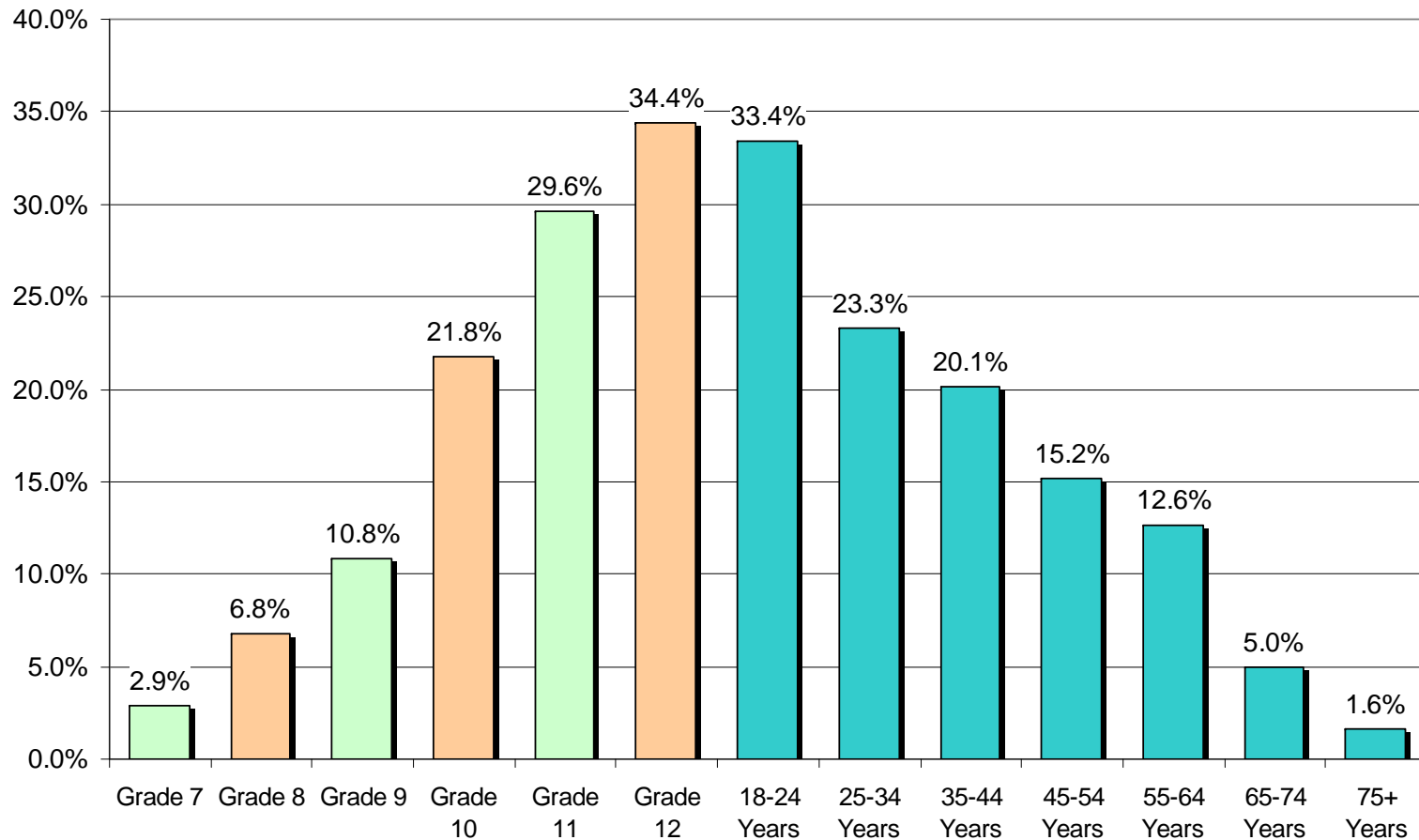


# Change in Medicaid Participation for Livingston County Residents, 2002 and 2010

	July 2002	July 2010	% Change
<b><i>Medicaid Eligible</i></b>	<b>5,971</b>	<b>15,966</b>	<b>167.4%</b>
SSI	730	1,051	44.0%
FIP	237	653	175.5%
Medically Needy	5,004	14,292	185.6%
	<b>July 2004</b>	<b>June 2010</b>	
<b><i>Medicaid</i></b>			
Health Plan Enrollees	<b>4,671</b>	<b>9,596</b>	<b>105.4%</b>

Source: Michigan Department of Human Services, Green Book.

# Binge Drinking among Oakland County Students (2005 and 2008) and Residents (2007)



Sources: 7th, 9th, and 11th Grade, Michigan Profile for Healthy Youth, 2008; 8th, 10th and 12th Grade, Oakland Alcohol and Other Drug School Survey, 2005; and Oakland County 18-75 years, 2007 Oakland Community Health Survey.



# Alcohol Involved Crashes in Livingston County and Michigan, 2008

	<b>Livingston County</b>	<b>Michigan</b>
Total Crashes	5,165	316,057
Alcohol Involved Crashes	202	11,068
% Alcohol Involved	3.9%	3.5%
Had Been Drinking Rate per 1,000	0.0383	0.0297



# Livingston Profile of Alcohol Involved Crashes

- 202 crashes involving alcohol
- 7 persons killed
- 88 persons injured

Chances are nearly 1 of 2 (47%) that alcohol related crashes will result in injury and/or death.



# Fatal Accidents and Had Been Drinking Accidents in Livingston County, 2008

Total Fatal Accidents*	15
HBD Fatal Accidents*	7
% HBD	46.7%

\* and Persons

Source: Office of Safety and Highway Planning



# Location of Alcohol Related Crashes, Livingston County, 2008

	<b>Number</b>	<b>Percent</b>
Interstate	33	16.3%
U.S. Route	16	7.9%
State Route	11	5.4%
Local Street	142	70.3%
Total Alcohol Related Accidents:	202	99.9%

Source: Office of Safety and Highway Planning



Questions?

Want more information?

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