



Oakland County Health Division
Office of Substance Abuse Services

Strategic Prevention Framework (SPF) Needs Assessment 2009-2010

Presented by

Gary Petroni

Director, Center for Population Health/SEMHA

Contents

Slides

Demographics

4-39

- Population
- Education
- Unemployment
- Poverty
- Housing
- Marriage and Divorce
- Infant Mortality and Maternal Risk Factors

Drug Use Data

40-88

- Youth Alcohol
- Adult Alcohol
- Alcohol and Driving
- Health Impact

Contents

Slides

Drug Use Data

89-124

- Illegal Substances – Adult
- Illegal Substances – Youth
- Publicly Funded Treatment
- Tobacco Use and Health Impact

Oakland County Family Court Data

125-130

Perceptions and Protective Factors

131-157

- School Work
- Safety
- Self-harm
- Substance Abuse
- Community, School and Family Protective Factors



Oakland County Health Division Strategic Prevention Framework (SPF)

Demographics

Population

Education

Unemployment

Poverty

Housing

Marriage and Divorce

Infant Mortality and Maternal Risk Factors

Demographic - Overview

- Oakland County has experienced very modest population growth (0.6%) since 2000.
- Oakland County is one of the highest educated counties in the state, with 41.4% of residents having a bachelor's degree or higher.
- Unemployment in Oakland County doubled between 2000 and 2002, remained stable from 2003 through mid 2008 and has since spiked through July 2009.
- Persons in poverty have increased 55% from 65,478 in 2000 to an estimated 101,758 in 2008.

Demographic - Overview

- Net housing units in Oakland County have decreased significantly over the past decade.
- The divorce rate has significantly declined since 1998 for Oakland County.
- Approximately 100 infants die each year in Oakland County, the infant death rate has remained stable.
- Maternal risk factors for infant death are under reported for Oakland County.

Demographic - Population

- Population density is highest along the I-75 and I-696 corridors in the Southeast 36 square miles of the County.
- Leading causes of death include heart disease, cancer, and chronic lower respiratory disease.
- Leading causes of death for children age 19 and younger include accidents, homicide, cancer and suicide.

Oakland County Population Profile

	2000	2008
Total Population	1,194,156	1,202,174
Persons 65+	134,959	147,867
Persons in Poverty	65,478	101,758
Youth (<18 Years) in Poverty	19,277	29,884
Median Household Income	\$61,907	\$67,518
Total households		478,449
Households Receiving Foodstamps in Past 12 Months		28,189
Households with one or more people under 18 years		32.80%

Source: US Census Bureau, 2000 Census, 2008 American Community Survey

Population Distribution for Oakland County, 2008

SEX AND AGE ESTIMATES

Total population	1,202,174
Male	591,984
Female	610,190
Under 5 years	71,829
5 to 9 years	79,622
10 to 14 years	80,720
15 to 19 years	82,743
20 to 24 years	70,870
25 to 34 years	123,070
35 to 44 years	183,960
45 to 54 years	205,461
55 to 59 years	88,544
60 to 64 years	67,663
65 to 74 years	78,671
75 to 84 years	47,658
85 years and over	21,363

SEX AND AGE ESTIMATES

Median age (years)	40.3
18 years and over	917,681
Male	445,973
Female	471,708
65 years and over	147,692
Male	63,441
Female	84,251

Source: US Census Bureau, 2008 American Community Survey Estimates

Race Estimates Distribution for Oakland County, 2008

Total Population: 1,202,174

One race	1,177,400
White	952,840
Black or African American	146,900
American Indian and Alaska Native	3,109
Cherokee tribal grouping	395
Chippewa tribal grouping	454
Navajo tribal grouping	0
Sioux tribal grouping	50
Asian	64,418
Asian Indian	26,861
Chinese	12,696
Filipino	5,154
Japanese	4,496
Korean	7,221
Vietnamese	2,427
Other Asian	5,563
Native Hawaiian and Other Pacific Islander	316
Native Hawaiian	N
Guamanian or Chamorro	N
Samoan	N
Other Pacific Islander	N
Some other race	9,817

Two or more races	24,774
White and Black or African American	7,197
White and American Indian and Alaska Native	4,648
White and Asian	5,637
Black or African American and American Indian and Alaska Native	2,334

Race alone or in combination with one or more other races

Total population	1,202,174
White	973,223
Black or African American	159,163
American Indian and Alaska Native	11,643
Asian	72,071
Native Hawaiian and Other Pacific Islander	697
Some other race	12,016

Source: US Census Bureau, 2008 American Community Survey Estimates

Ethnicity Distribution for Oakland County, 2008

Hispanic or Latina and Non Hispanic or Latino Estimates

Total population	1,202,174
Hispanic or Latino (of any race)	37,842
Mexican	25,616
Puerto Rican	4,981
Cuban	473
Other Hispanic or Latino	6,772
Not Hispanic or Latino	1,164,332
White alone	928,439
Black or African American alone	145,265
American Indian and Alaska Native alone	1,785
Asian alone	64,305
Native Hawaiian and Other Pacific Islander alone	316
Some other race alone	2,307
Two or more races	21,915
Two races including Some other race	756
Two races excluding Some other race, and Three or more races	21,159

Source: US Census Bureau, 2008 American Community Survey Estimates

Demographics - Education

➤ There were 194,255 K-12 Students in Oakland County during 2008.

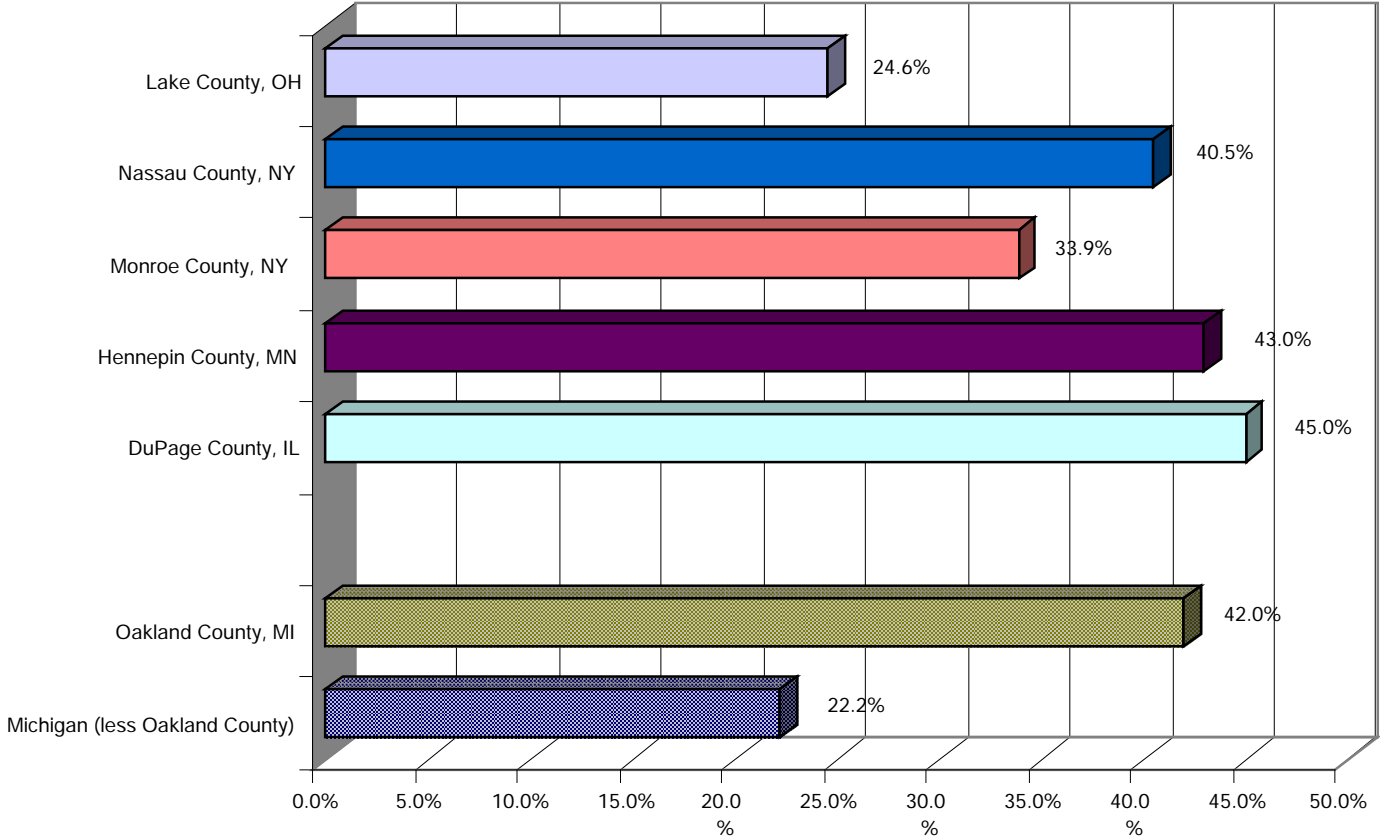
➤ Graduation rates ranged from 25% to 97% in 2008.

➤ Drop out rates ranged from less than 1% to 49% during 2008.

➤ Eligibility for free and reduced price lunches:

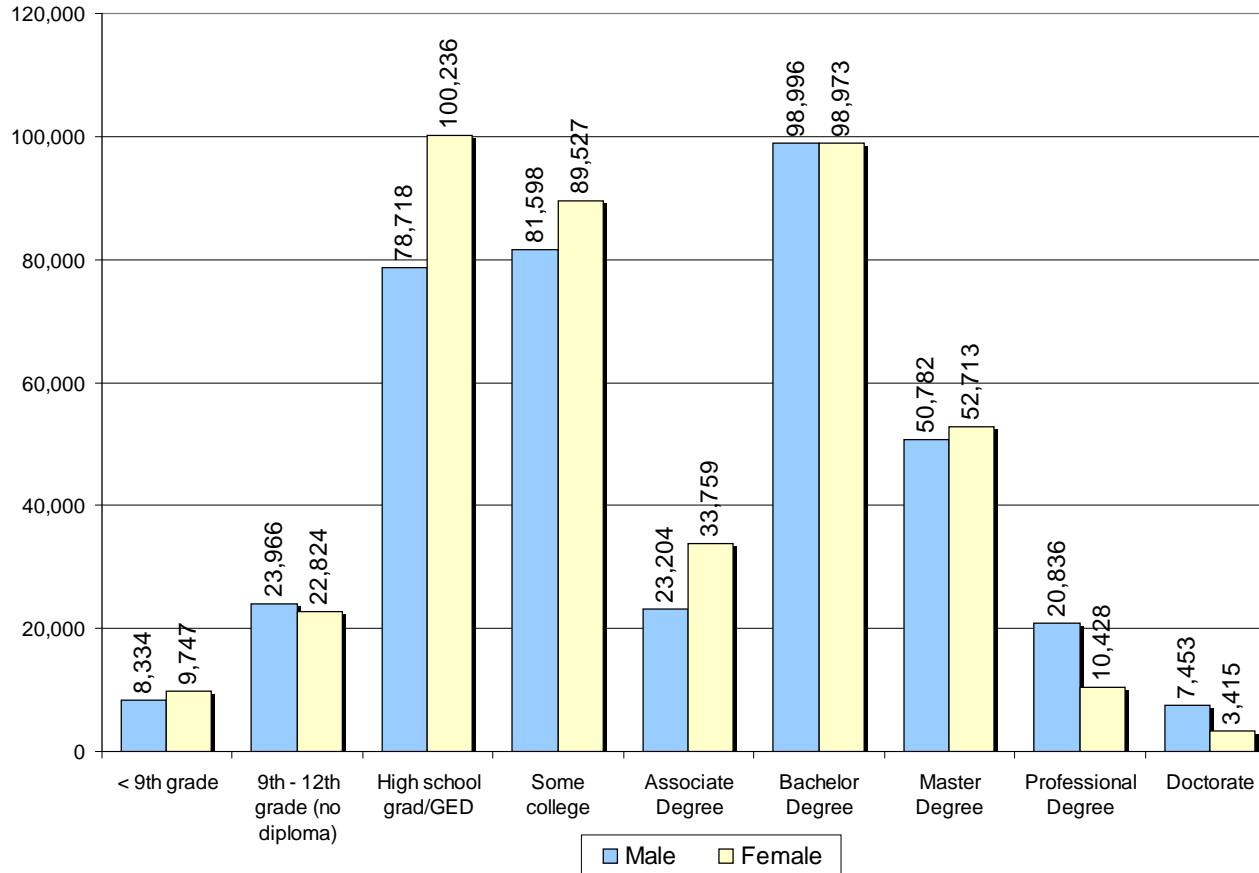
26.4% of K-12th grade students, ranging from 90.1% to 3.8%;
70.2% of academy students, ranging from 98.8% to 16.0%;
4.4% of adult students with a range of 20.6% to 0.0%; and
26.1% of early childhood enrollees with a range of 100.0% to 0.0%.

Percent of Population with Bachelors Degree or Higher in Oakland and Peer Counties, 2006-2008



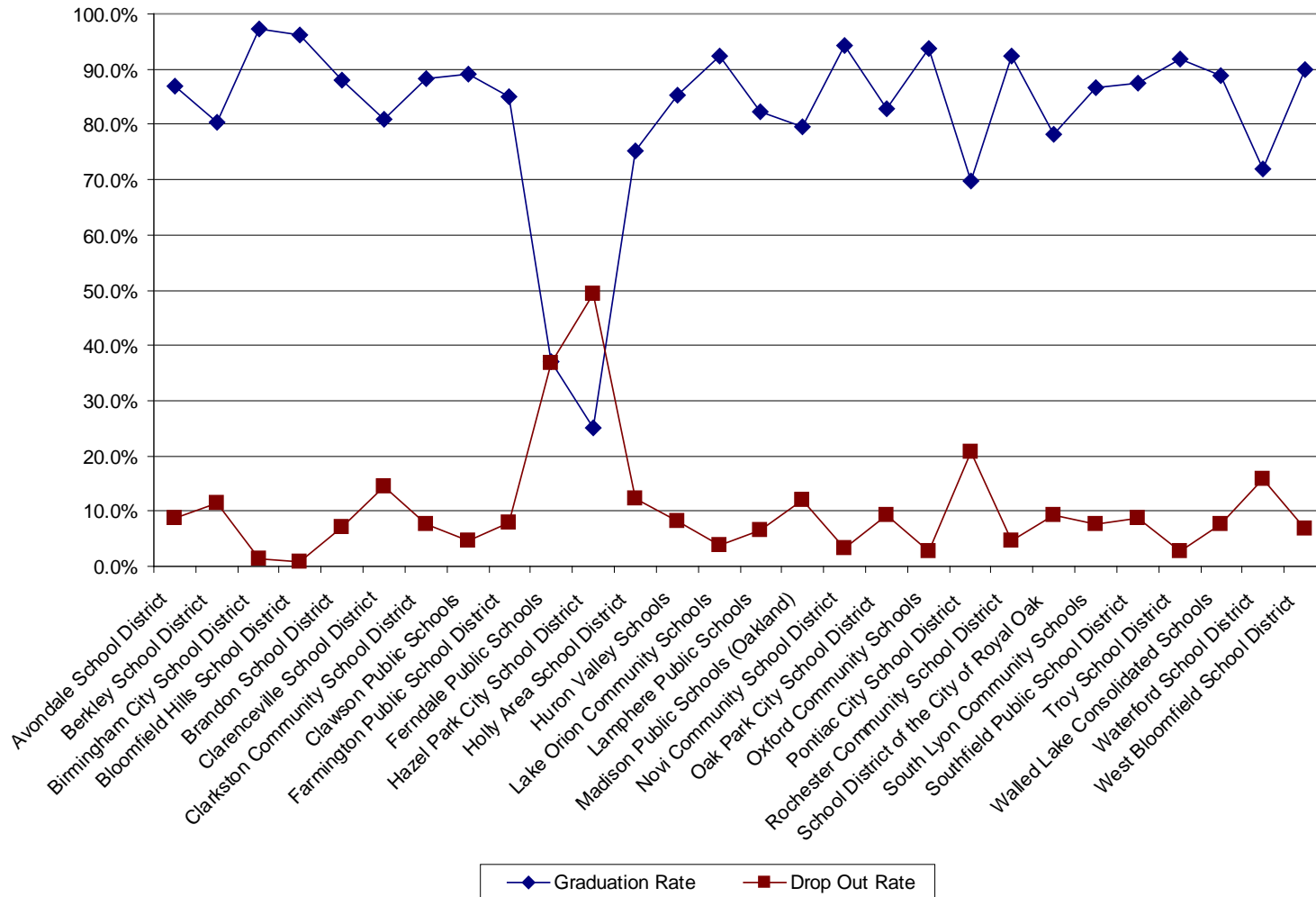
Source: US Census Bureau, American Community Survey 3-Year Estimates, 2006-2008

Estimates of Educational Attainment by Gender, Oakland County, 2008



Source: US Census Bureau, American Community Survey 3-Year Estimates, 2006-2008

Oakland County Public School District Four Year Cohort Graduation and Drop Out Rates, 2008



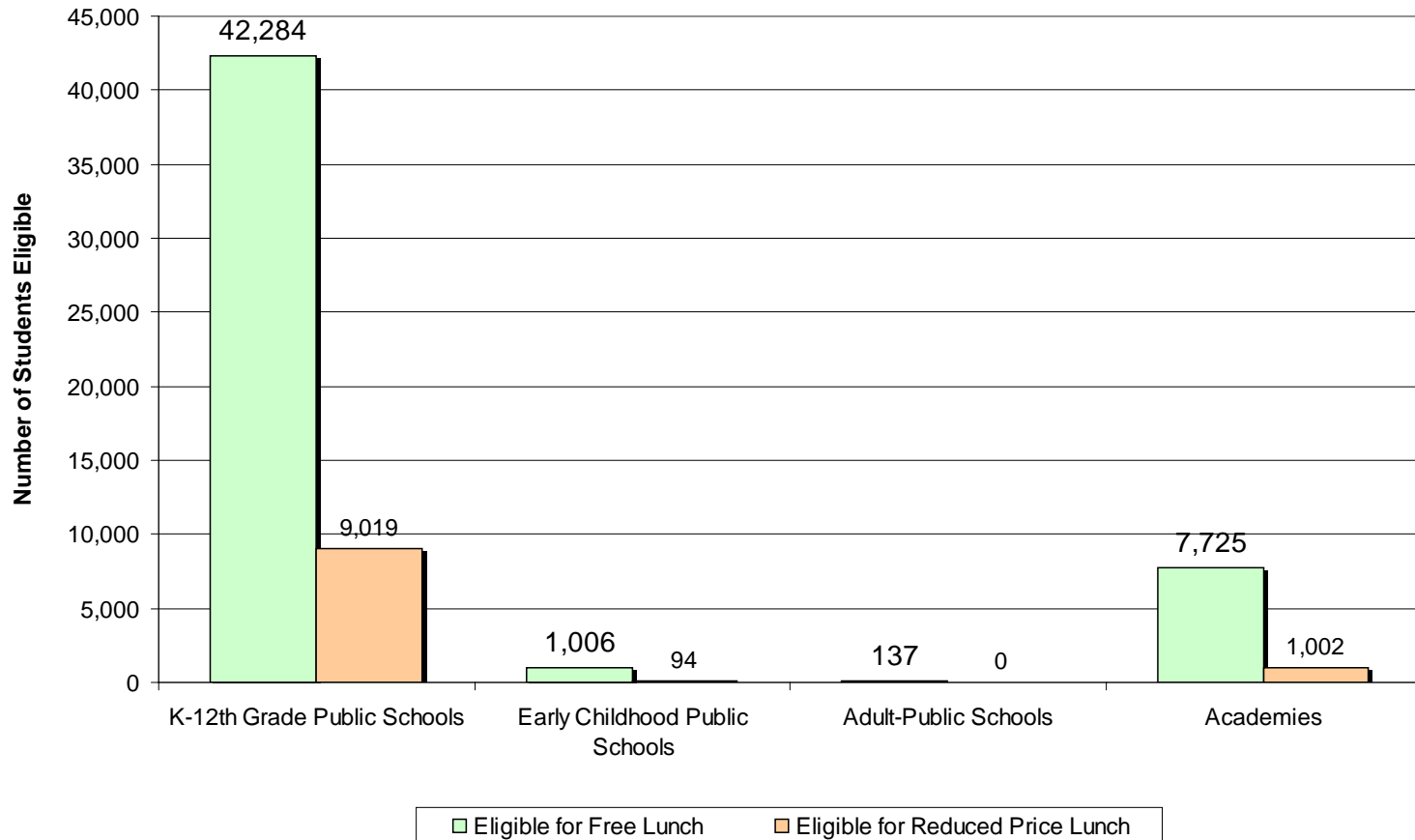
Source: Michigan Department of Education

Oakland County Public School District Four Year Cohort Graduation and Drop Out Rates, 2008

Graduation Rate	Drop Out Rate	K-12th GRADE SCHOOLS	Total
87.0%	8.8%	Avondale School District	3,953
80.5%	11.5%	Berkley School District	4,559
97.3%	1.4%	Birmingham City School District	8,167
96.1%	0.8%	Bloomfield Hills School District	5,694
88.1%	7.1%	Brandon School District	3,488
80.8%	14.5%	Clarenceville School District	1,924
88.2%	7.7%	Clarkston Community School District	8,272
89.2%	4.6%	Clawson Public Schools	1,744
85.1%	8.0%	Farmington Public School District	12,265
37.1%	36.7%	Ferndale Public Schools	4,496
25.0%	49.2%	Hazel Park City School District	6,001
75.3%	12.2%	Holly Area School District	3,978
85.4%	8.3%	Huron Valley Schools	10,520
92.4%	3.7%	Lake Orion Community Schools	7,986
82.4%	6.5%	Lamphere Public Schools	2,723
79.6%	11.9%	Madison Public Schools (Oakland)	1,574
94.2%	3.2%	Novi Community School District	6,316
82.9%	9.2%	Oak Park City School District	4,004
93.6%	2.7%	Oxford Community Schools	4,531
69.7%	20.8%	Pontiac City School District	7,690
92.4%	4.6%	Rochester Community School District	15,175
78.1%	9.3%	School District of the City of Royal Oak	5,489
86.6%	7.7%	South Lyon Community Schools	7,214
87.5%	8.8%	Southfield Public School District	9,208
91.8%	2.8%	Troy School District	12,446
88.7%	7.6%	Walled Lake Consolidated Schools	15,907
72.0%	15.9%	Waterford School District	11,941
90.0%	6.7%	West Bloomfield School District	6,968
		K-12th GRADE SCHOOLS	194,255

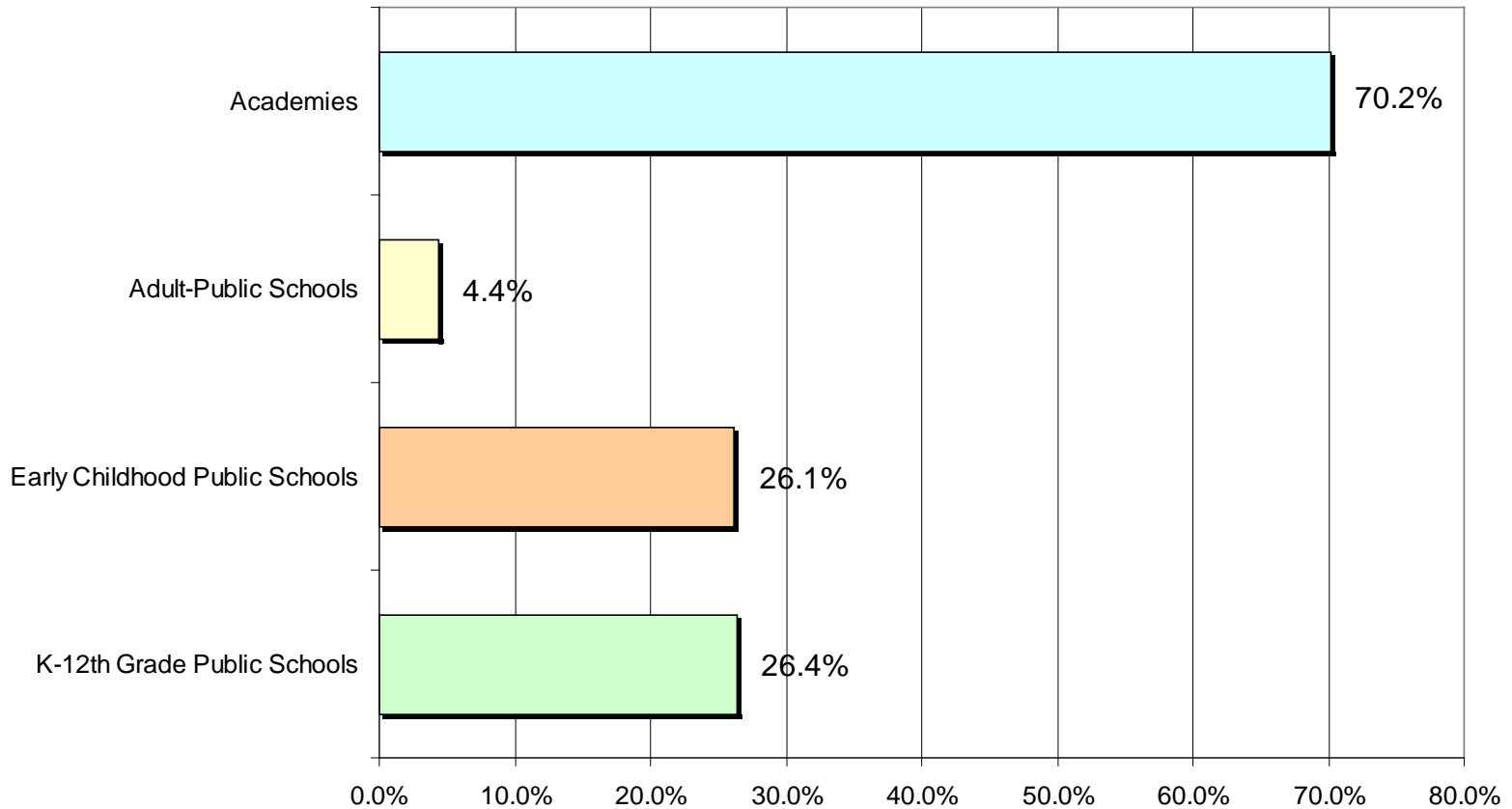
Source: Michigan Department of Education

The Number of Free or Reduced Price Lunches by School Type, Oakland County, 2008



Source: Michigan Department of Education

The Percentage of Free or Reduced Price Lunches by School Type, Oakland County, 2008



Source: Michigan Department of Education

Free or Reduced Price Lunches Ranked by School District (K-12), Oakland County, 2008

	Total Students	% Free and Reduced Price Meal
K-12th GRADE SCHOOLS COUNTYWIDE	194,255	26.4%
Pontiac City School District	7,690	90.1%
Madison Public Schools (Oakland)	1,574	74.1%
Oak Park City School District	4,004	72.4%
Oakland Schools	22	63.6%
Hazel Park City School District	6,001	57.9%
Ferndale Public Schools	4,496	52.4%
Southfield Public School District	9,208	50.2%
Clarenceville School District	1,924	47.6%
Lamphere Public Schools	2,723	42.2%
Waterford School District	11,941	37.4%
Holly Area School District	3,978	34.4%
Clawson Public Schools	1,744	31.6%
Brandon School District	3,488	29.4%
School District of the City of Royal Oak	5,489	24.2%
Huron Valley Schools	10,520	23.9%

Free or Reduced Price Lunches Ranked by School District (K-12), Oakland County, 2008

K-12th GRADE SCHOOLS - continued	Total Students	% Free and Reduced Price Meal
Avondale School District	3,953	22.9%
Oxford Community Schools	4,531	22.6%
Walled Lake Consolidated Schools	15,907	18.8%
Berkley School District	4,559	18.7%
South Lyon Community Schools	7,214	18.1%
West Bloomfield School District	6,968	17.8%
Farmington Public School District	12,265	17.1%
Lake Orion Community Schools	7,986	15.7%
Clarkston Community School District	8,272	12.1%
Rochester Community School District	15,175	11.1%
Troy School District	12,446	9.0%
Novi Community School District	6,316	7.0%
Birmingham City School District	8,167	4.7%
Bloomfield Hills School District	5,694	3.8%

Free or Reduced Price Lunches, Academies, Oakland County, 2008

	Total Students	% Free and Reduced Price Meal
ACADEMIES - COUNTYWIDE	12,431	70.2%
Oakland International Academy	566	98.8%
Great Lakes Academy	229	96.9%
Pontiac Academy for Excellence	1,173	95.5%
Arts and Technology Academy of Pontiac	407	87.7%
Academy of Waterford	228	83.8%
Academy of Oak Park	1,322	83.1%
Academy of Lathrup Village	420	81.4%
Edison-Oakland Public School Academy	965	80.0%
Advanced Technology Academy	1,090	77.7%
Walton Charter Academy	785	73.4%
Academy of Southfield	391	73.1%
Crescent Academy	358	71.2%
Great Oaks Academy	680	66.5%

Free or Reduced Price Lunches, Academies, Oakland County, 2008

ACADEMIES - Continued	Total Students	% Free and Reduced Price Meal
Woodmont Academy	304	59.5%
Laurus Academy	692	58.5%
Bradford Academy	1,474	51.8%
Life Skills Center of Pontiac	284	44.0%
AGBU Alex-Marie Manoogian School	343	17.8%
Holly Academy	720	16.0%

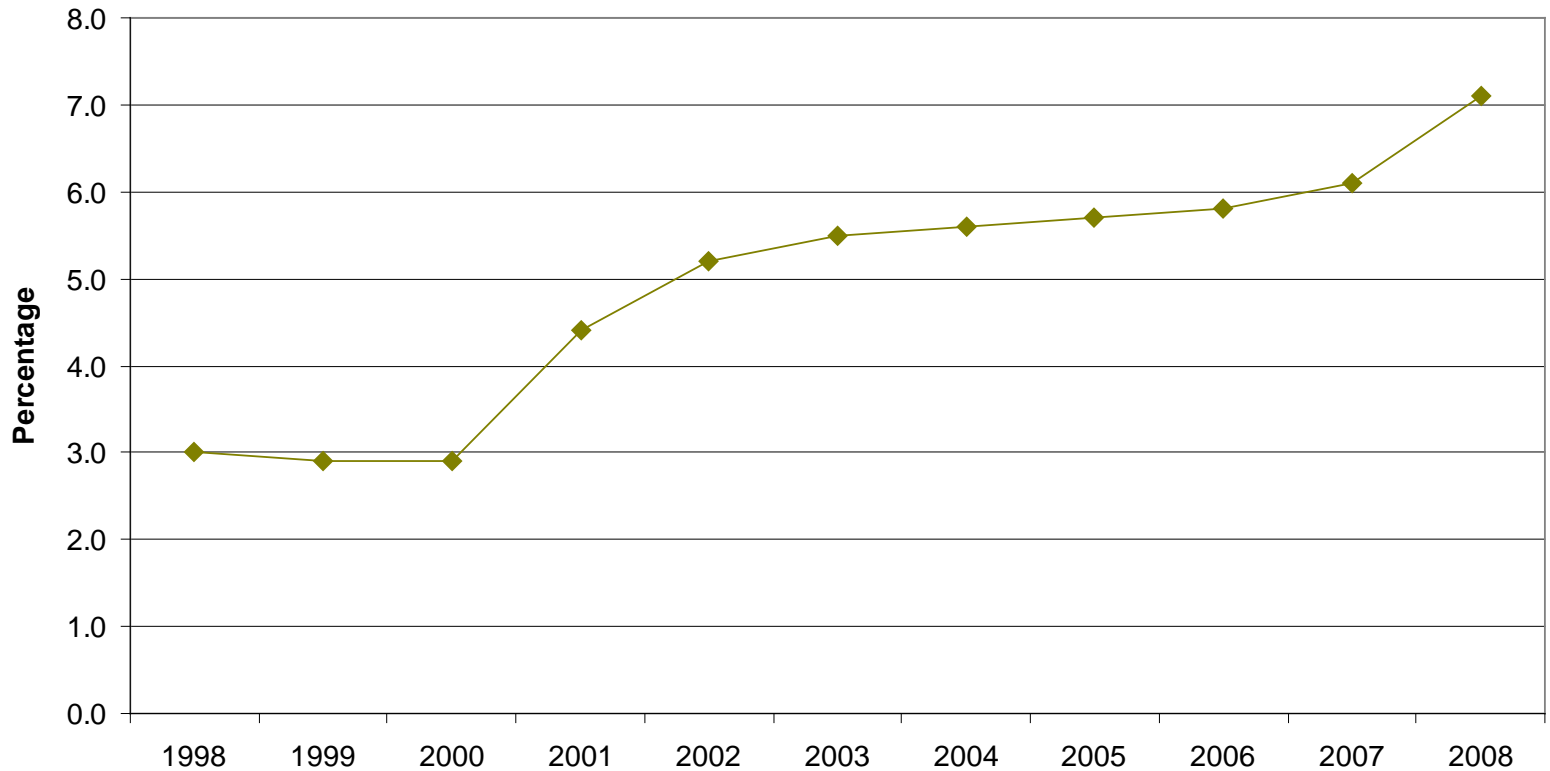
Source: Michigan Department of Education

Demographics - Unemployment

- Oakland County is coming off two years of the largest job loss in its recorded history, but now seeing dramatically slowing declines.
- Employment of over 36,000 auto manufacturing workers in 1990 was cut in half by 2009.
- 2008 unemployment rate was 7.1% in Oakland County, lower than the state rate of 8.4%.

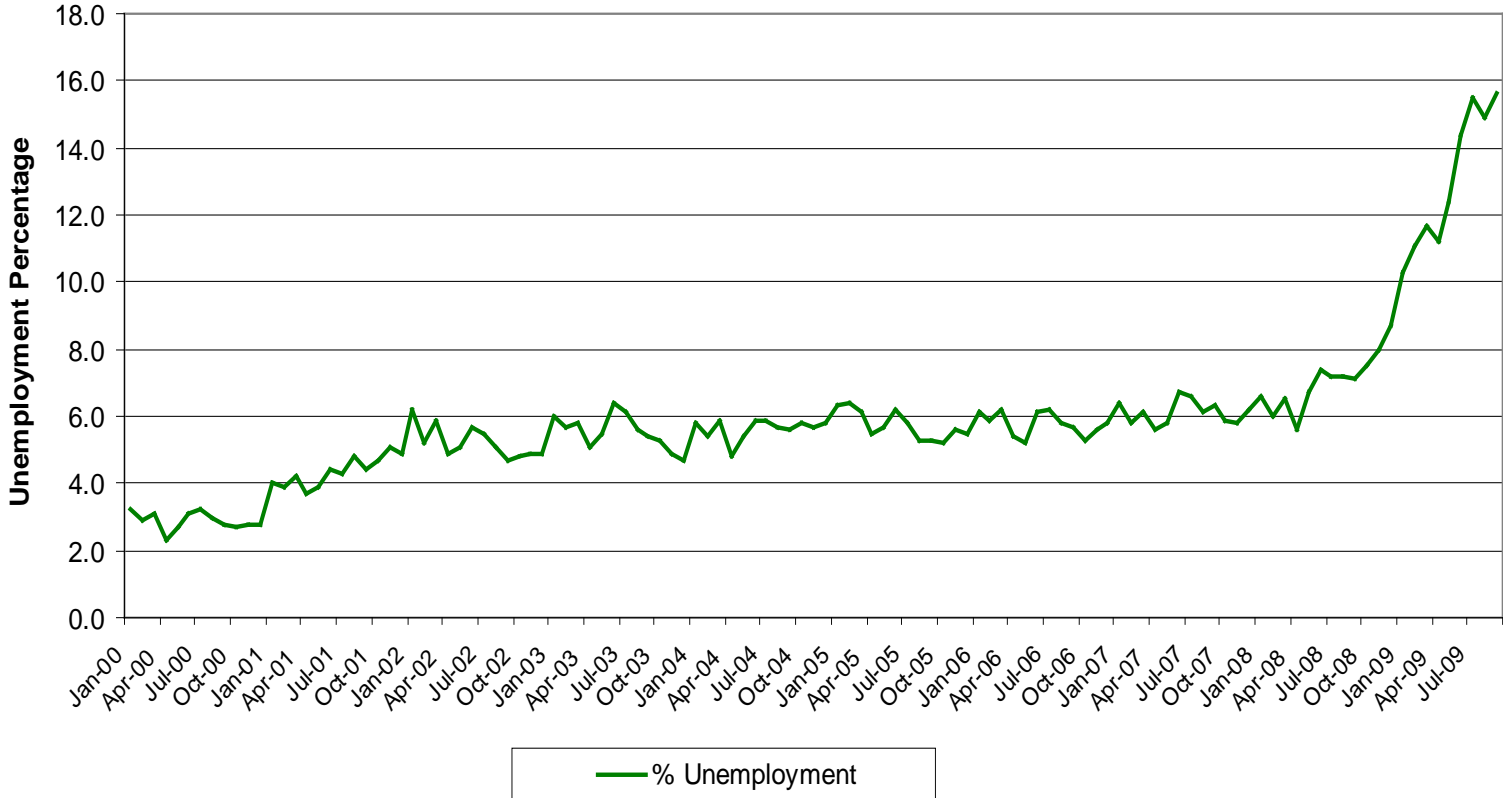
Source: 2010–2012 Economic Outlook for Oakland County; US Department of Labor

Oakland County Percentage Unemployed, 1998-2008



Source: US Department of Labor

Quarterly Unemployment Trend in Oakland County January 2000 – September 2009



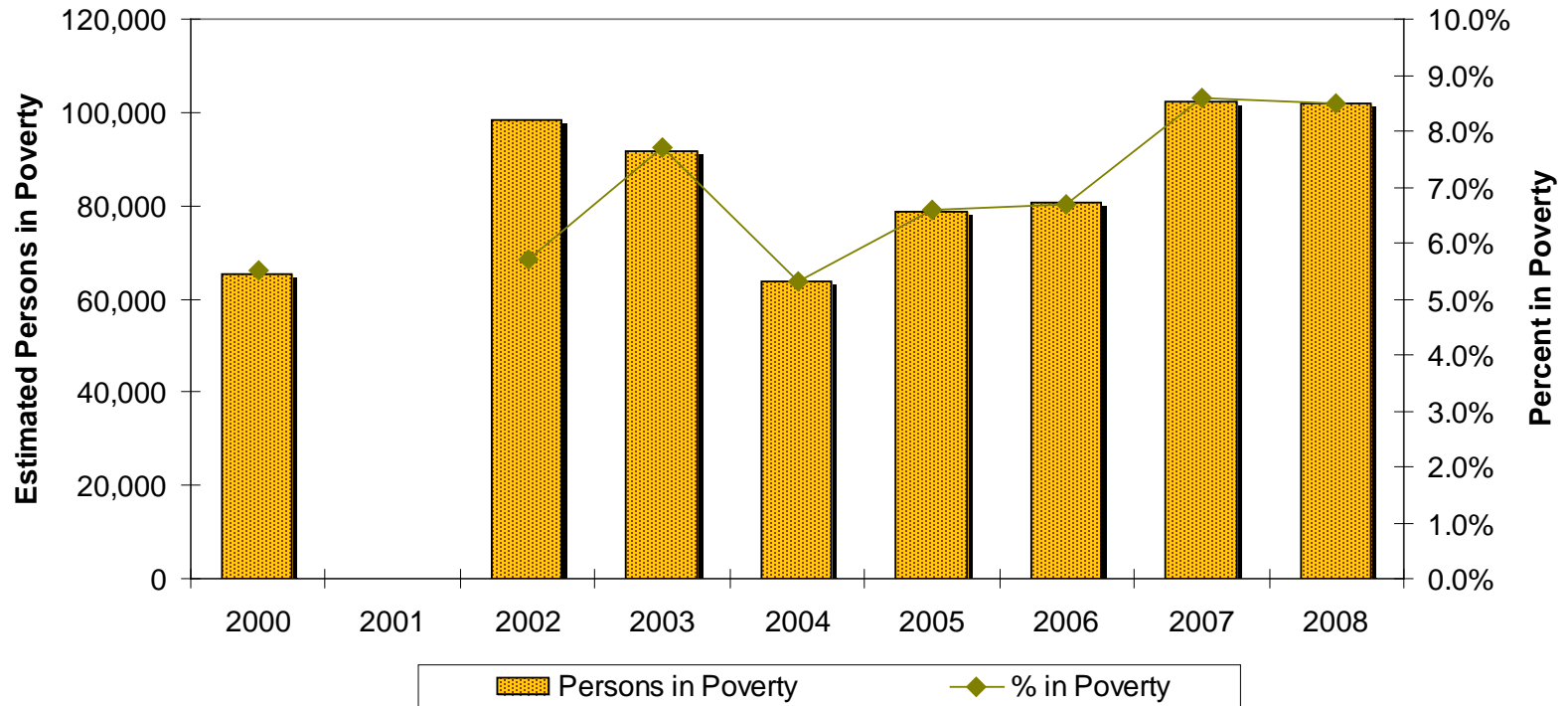
Source: US Department of Labor

Demographics – Poverty

- There are an estimated 30,000 youth (<18 years) living in poverty.
- During 2007, the highest household income quartile earned over \$234,800 while the lowest earned less than \$29,900, and eight-fold difference.
- 40% of all households had income below \$52,200.

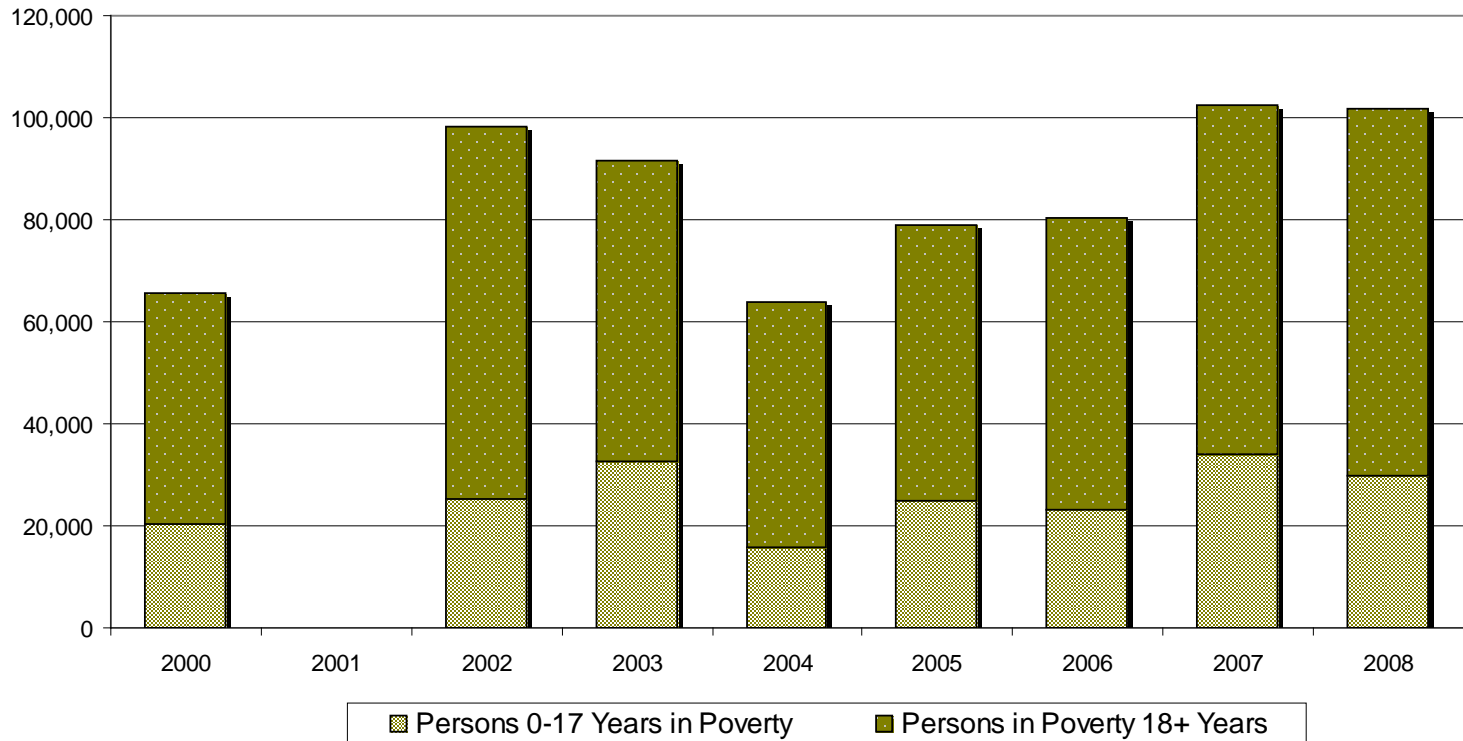
Poverty Trend for Oakland County, 2000-2008

Poverty Trend for Oakland County, 2000-2008



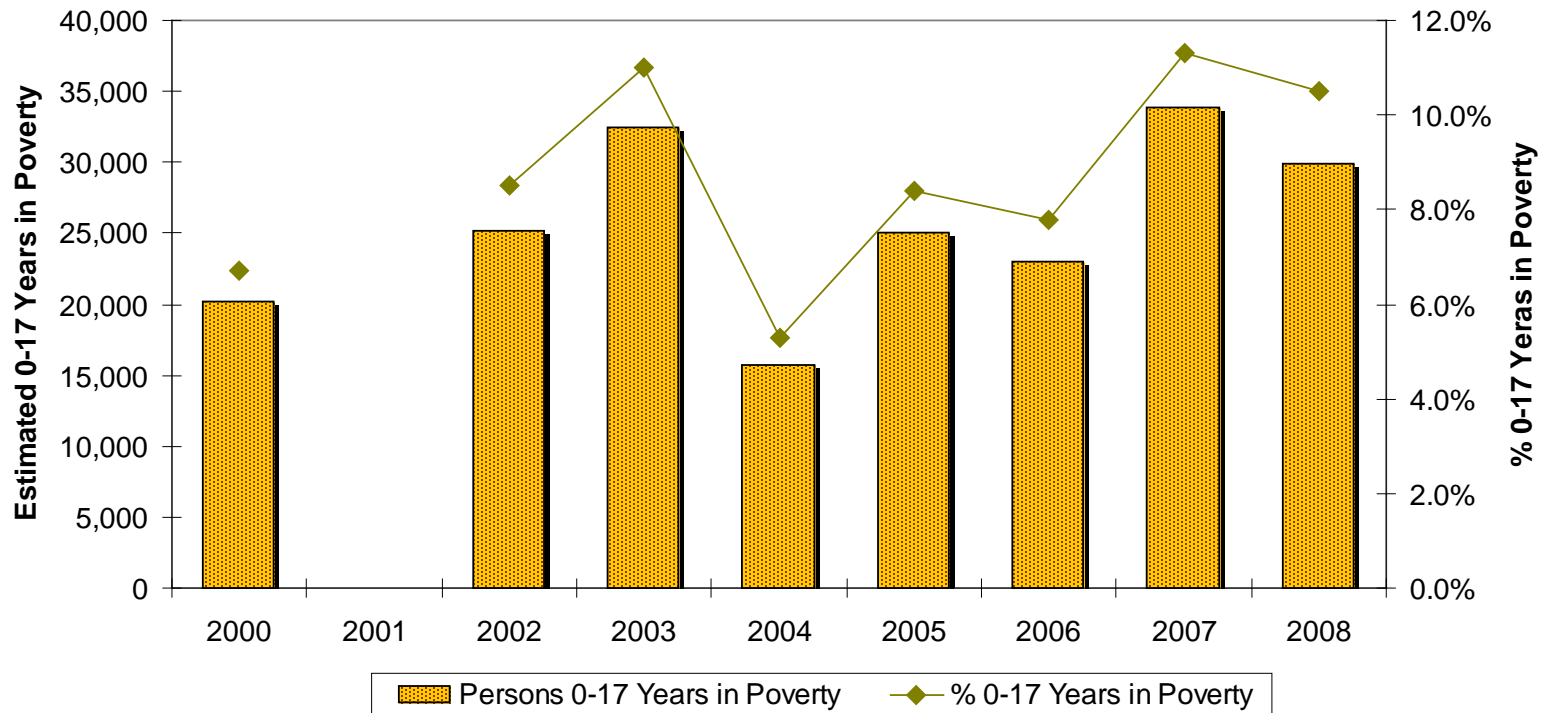
Source: US Census Bureau, Poverty Estimates

Poverty Trend in Oakland County, 2000-2008



Source: US Census Bureau, Poverty Estimates

Persons in Poverty, Ages 0-17 Years, Oakland County, 2000-2008



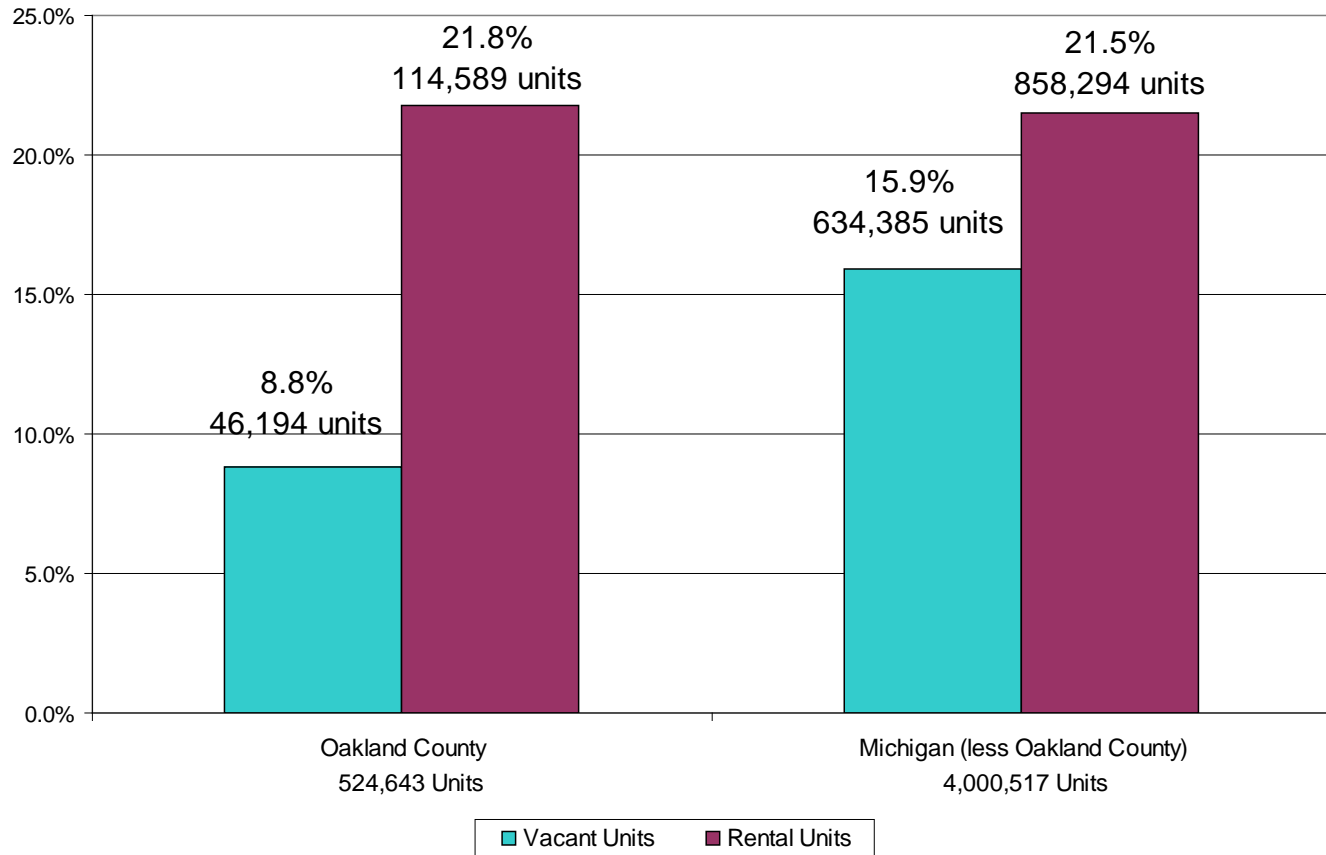
Source: US Census Bureau, Poverty Estimates

Demographics - Housing

- Oakland County has approximately 525,000 housing units.
- During 2006-2008, it is estimated that 22% of housing units were rentals and 9% were vacant.
- Oakland County's home ownership rate (76.5%) is higher than both the state of Michigan (75.9%) and the U.S. average (67.8%)

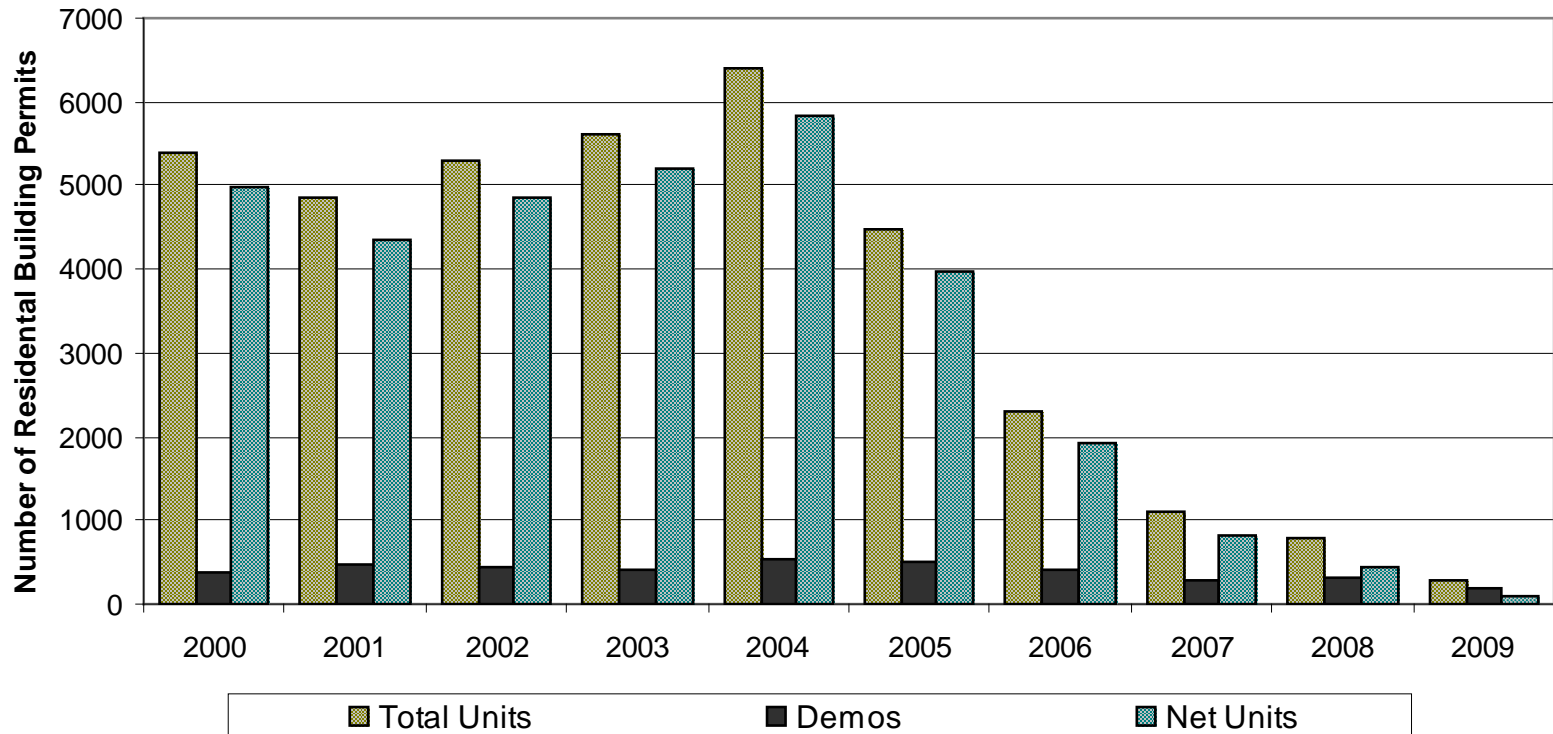
Source: Economic Research Institute (ERI) July 2009; American Community Survey 2005-2007

Housing Profile for Oakland County and Michigan (less Oakland County), 2006-2008



Source: U.S. Census Bureau, American Community Survey 3-Year Estimates, 2006-2008.

Building Permits, Oakland County, 2000-2009

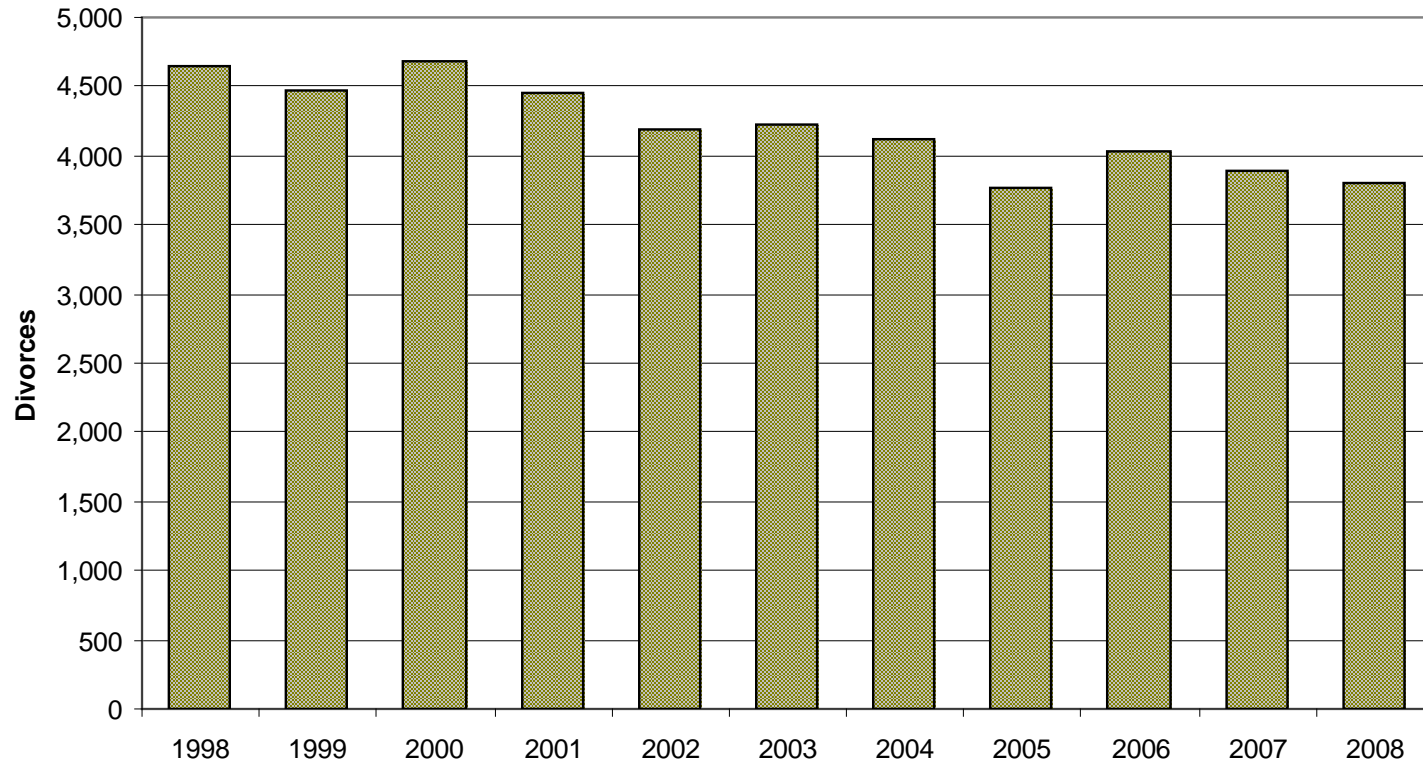


Source: SEMCOG Data and Maps

Demographics – Marriage and Divorce

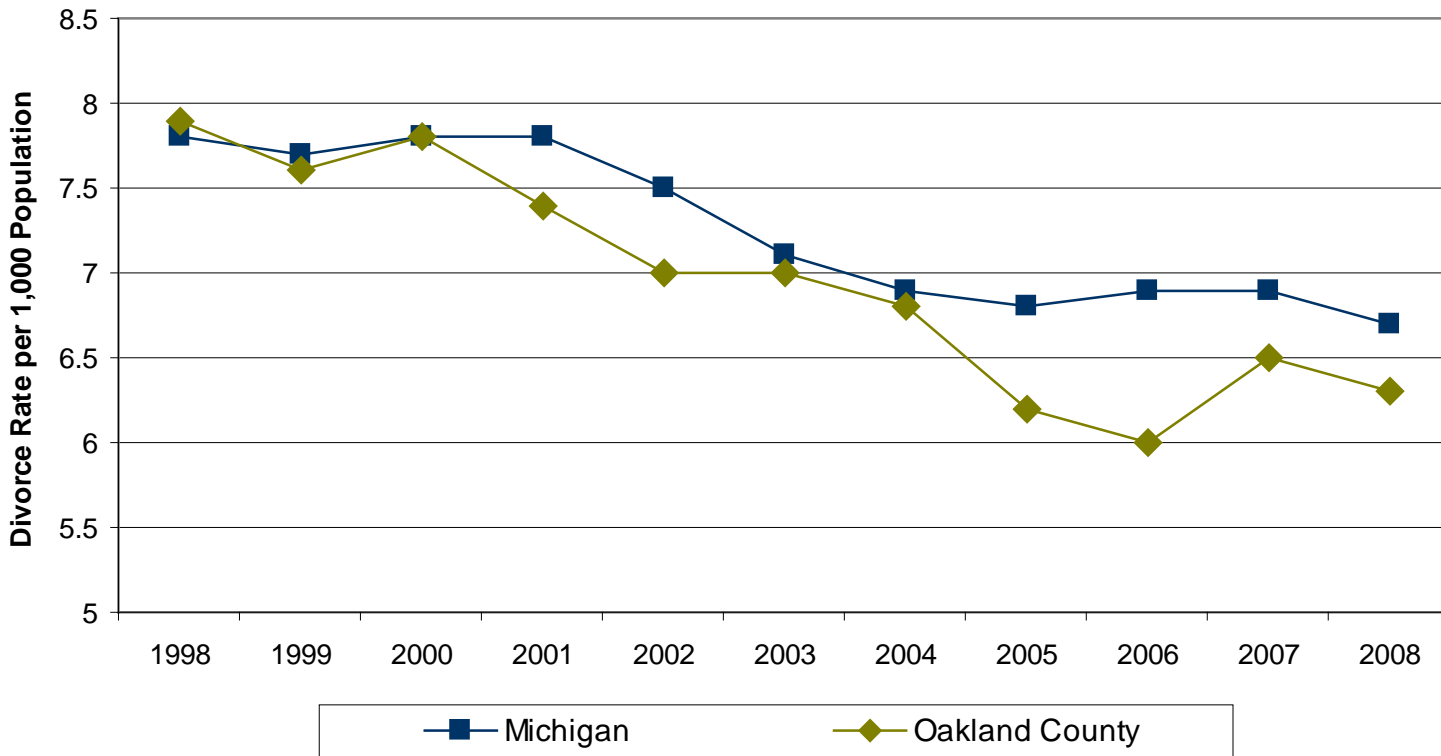
- There were 6,445 marriages and 3,804 divorces in Oakland County during 2008.
- The divorce rate has declined significantly since 1998 for Oakland County and the State.

Divorces Recorded for Oakland County, 1998-2008



Source: 1998-2008 Michigan Occurrence Divorce Files, Division for Vital Records & Health Statistics, MDCH

The Divorce Rate Reported for Oakland County, 1998-2008

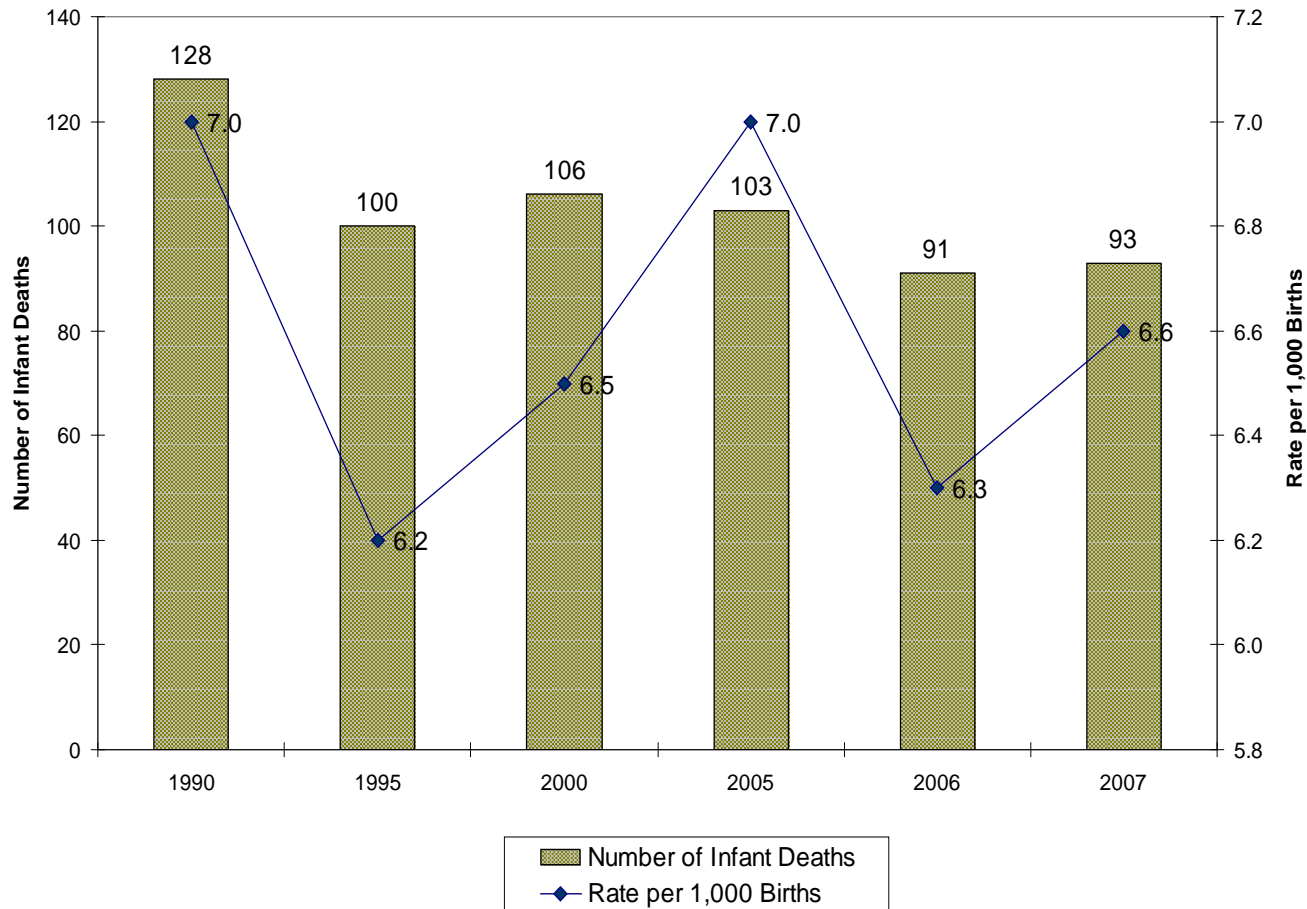


Source: 1998-2008 Michigan Occurrence Divorce Files, Division for Vital Records & Health Statistics, MDCH

Demographics – Infant Mortality and Maternal Risk Factors

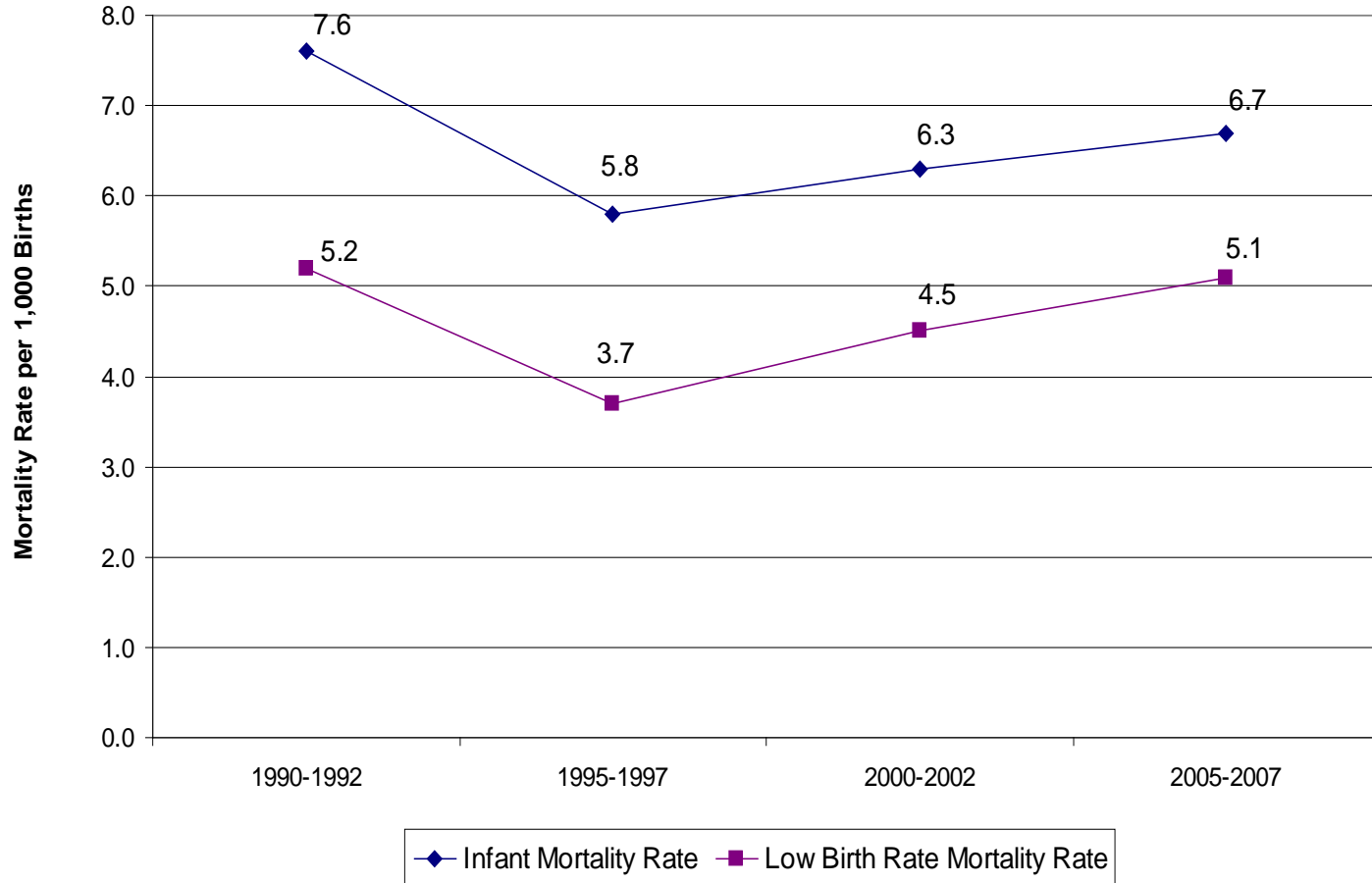
- Approximately 100 infants die each year in Oakland County, the infant death rate has remained stable.
- Low birth weight babies represent nearly three-quarters of all infant deaths.
- Maternal risk factors for low birth weight are under reported.

The Number and Rate of Infant Deaths, Oakland County, 1990 - 2007



Source: Vital Records & Health Statistics, MDCH

Comparison of Three-Year Average Infant Mortality and Low Birth Weight Mortality Rates, Oakland County, 1990-2007



Source: Vital Records & Health Statistics, MDCH

Reported Maternal Risk Factors, Oakland County and Michigan, 2006 and 2007

	Michigan		Oakland County	
	Number	Percent	Number	Percent
Total Births	127,537		14,111	
Drank While Pregnant	664	0.5%		1
Drug Use While Pregnant	1,203	0.9%		2
Smoked While Pregnant	18,875	14.8%	833	5.9%

¹ Applying the statewide level yields 71 women who drank while pregnant.

² Applying the statewide level yields 127 women who did drugs while pregnant.

Source: Vital Records & Health Statistics, MDCH



Oakland County Health Division Strategic Prevention Framework (SPF)

Drug Use Data

Youth Alcohol

Adult Alcohol

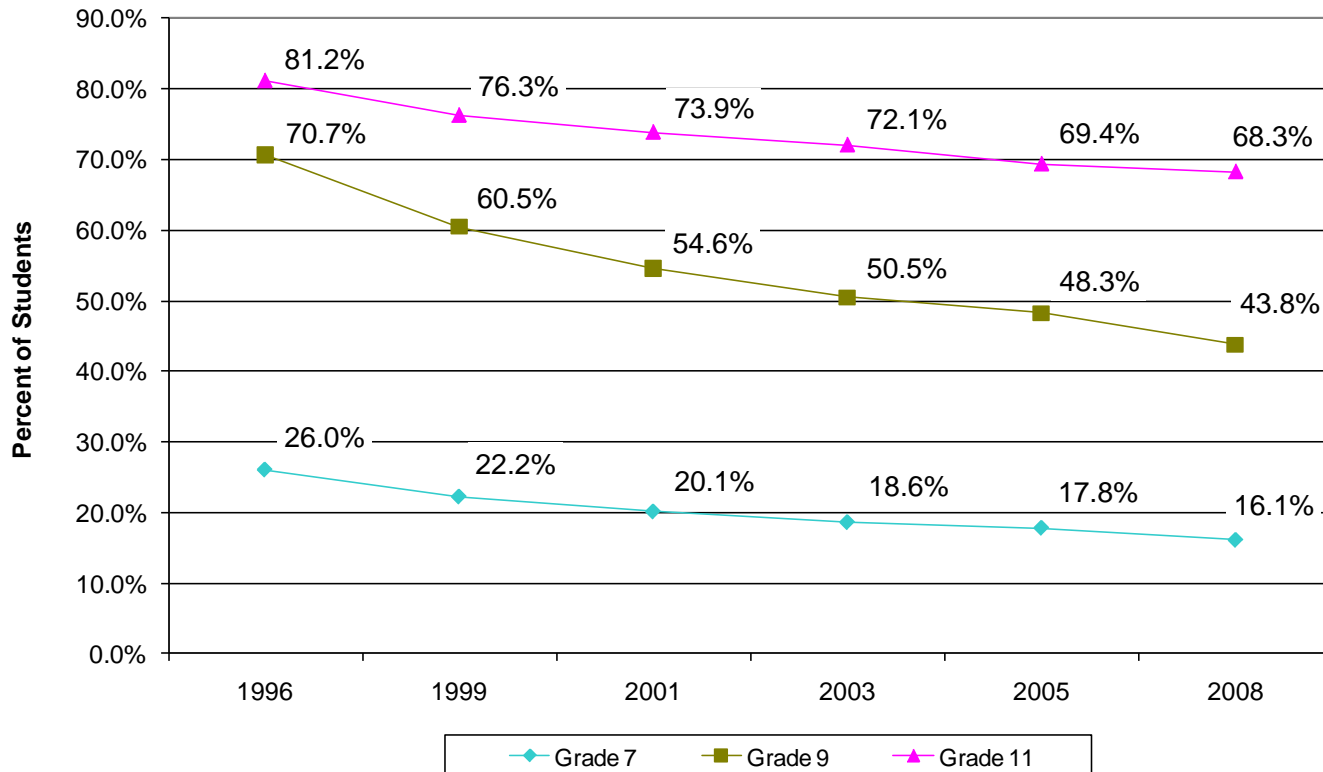
Alcohol and Driving

Health Impact

Substance Abuse – Youth Alcohol

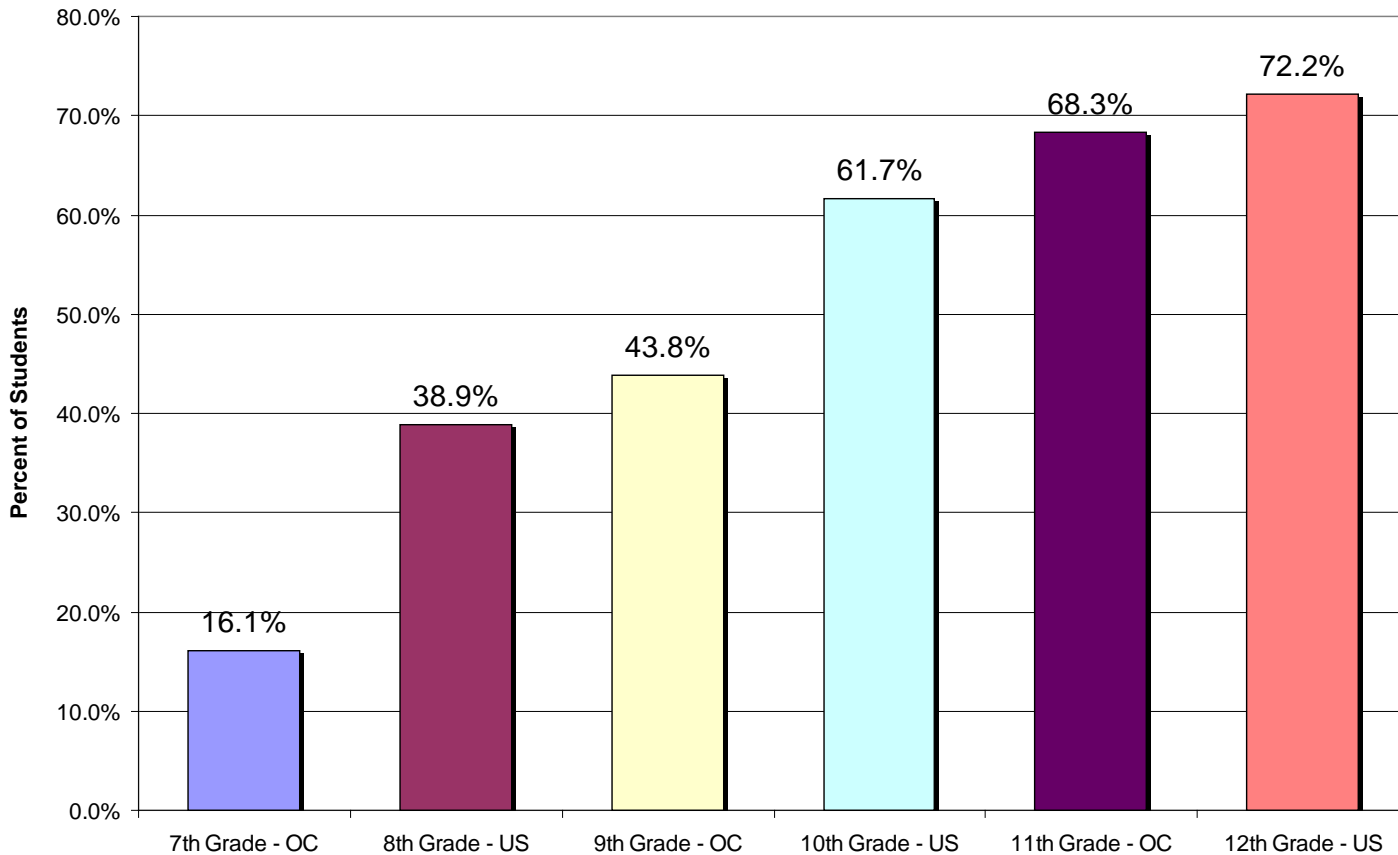
- Lifetime and past month alcohol use among Oakland County youth is consistent with national trends.
- Binge drinking increases significantly between each grade.
- Access to alcohol reported as “fairly easy or easy” to obtain is consistent with national trends.
- Among Oakland County youth, perception of regular alcohol use as a “moderate or great risk” lessens slightly between 7th to 11th grades.
- Oakland County youth reporting use of refusal skills decreases significantly between 7th to 11th grades.

Lifetime Use of Alcohol by Oakland County Students, 1996-2008



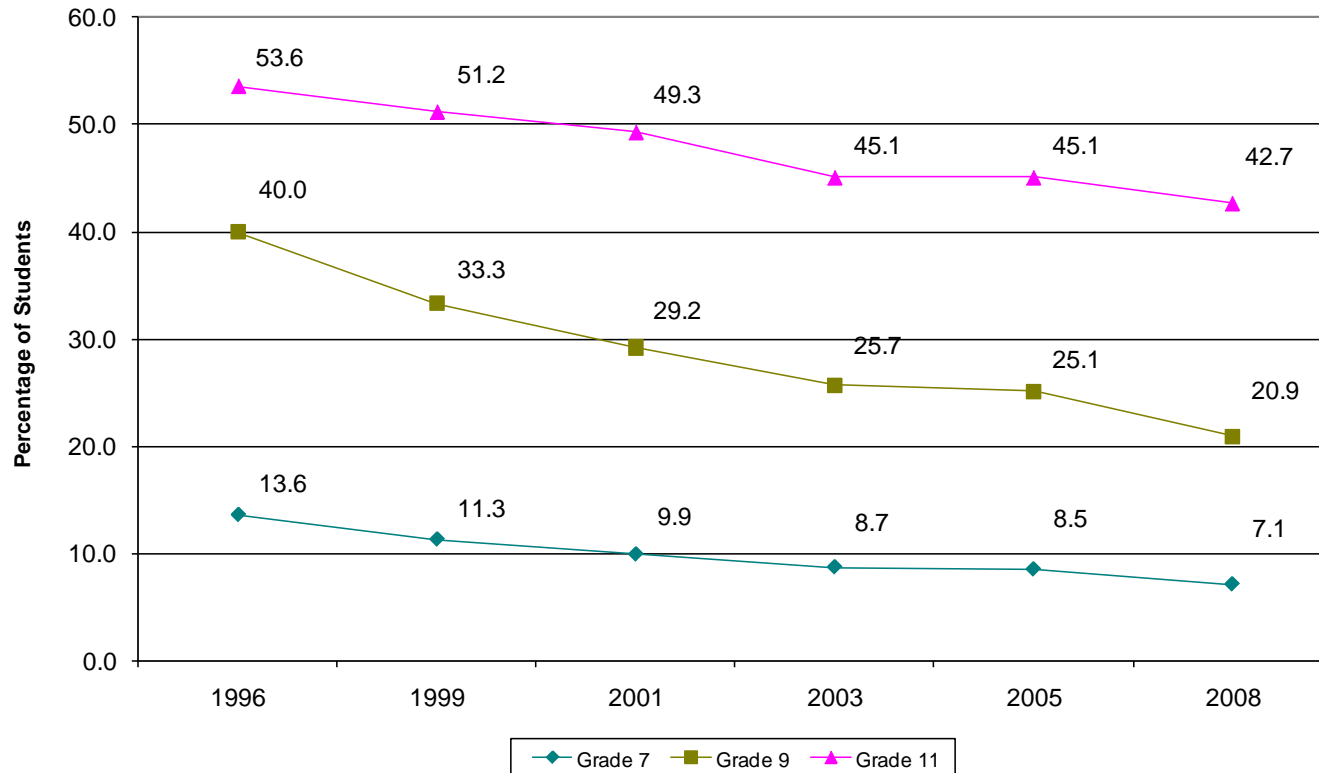
Note: 1996-2005 ATOD even grade estimates (8th, 10th, 12th) were evenly divided to create odd grade estimates (7th, 9th, 11th) to be comparable with the 2008 Michigan Profile for Healthy Youth.
 Source: Michigan Alcohol Tobacco and Other Drug Survey, 1996-2005.

Lifetime Use of Alcohol by Oakland County and U.S. Students, 2007-2008



Sources: Michigan Profile for Healthy Youth, 2008; Monitoring the Future, 2007, University of Michigan.

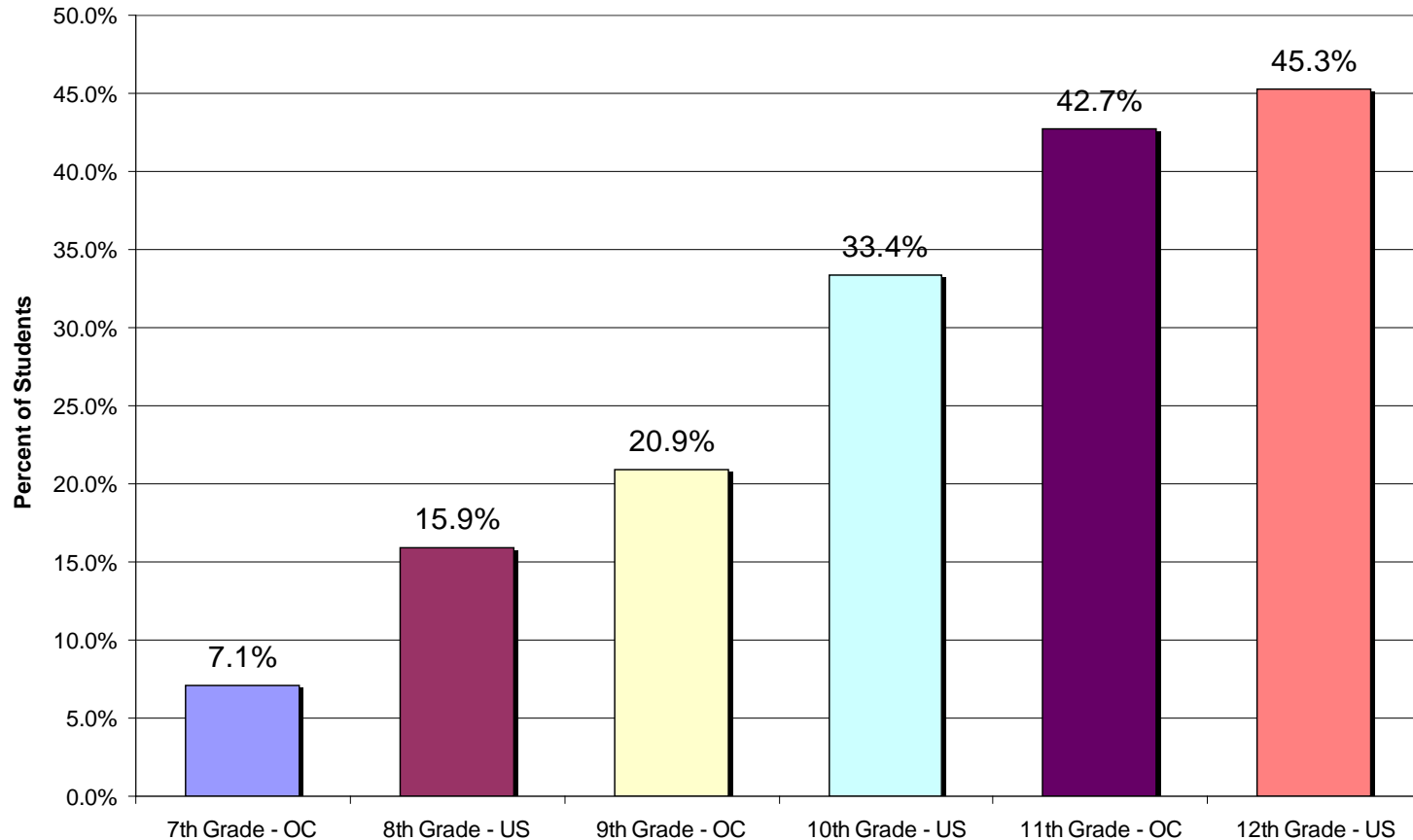
Past Month Use of Alcohol by Oakland County Students, 1996-2008



Note: 1996-2005 ATOD even grade estimates (8th, 10th, 12th) were evenly divided to create odd grade estimates (7th, 9th, 11th) to be comparable with the 2007 Michigan Profile for Healthy Youth.

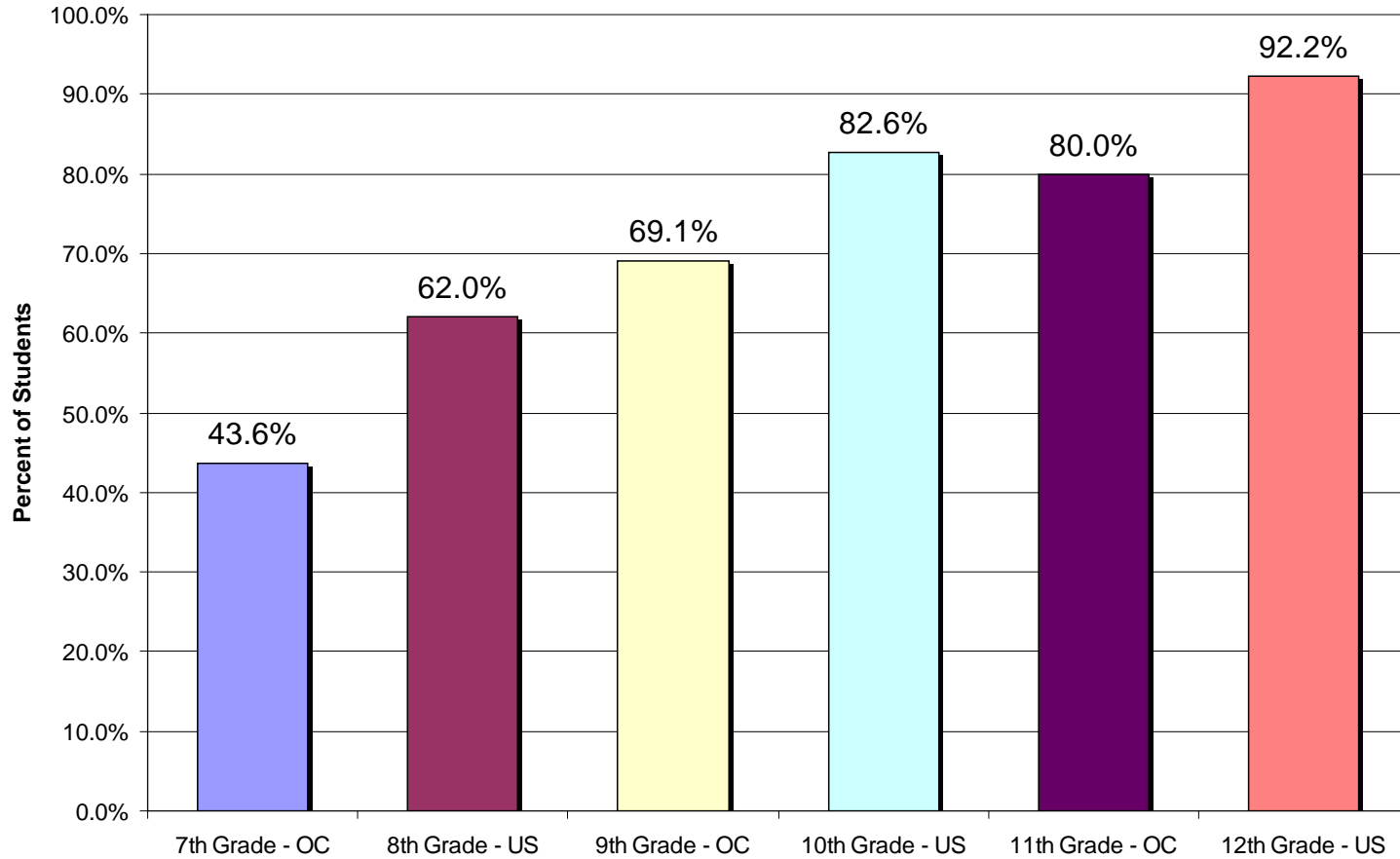
Source: Michigan Alcohol Tobacco and Other Drug Survey, 1996-2005.

Past Month Use of Alcohol by Oakland County and U.S. Students, 2007-2008



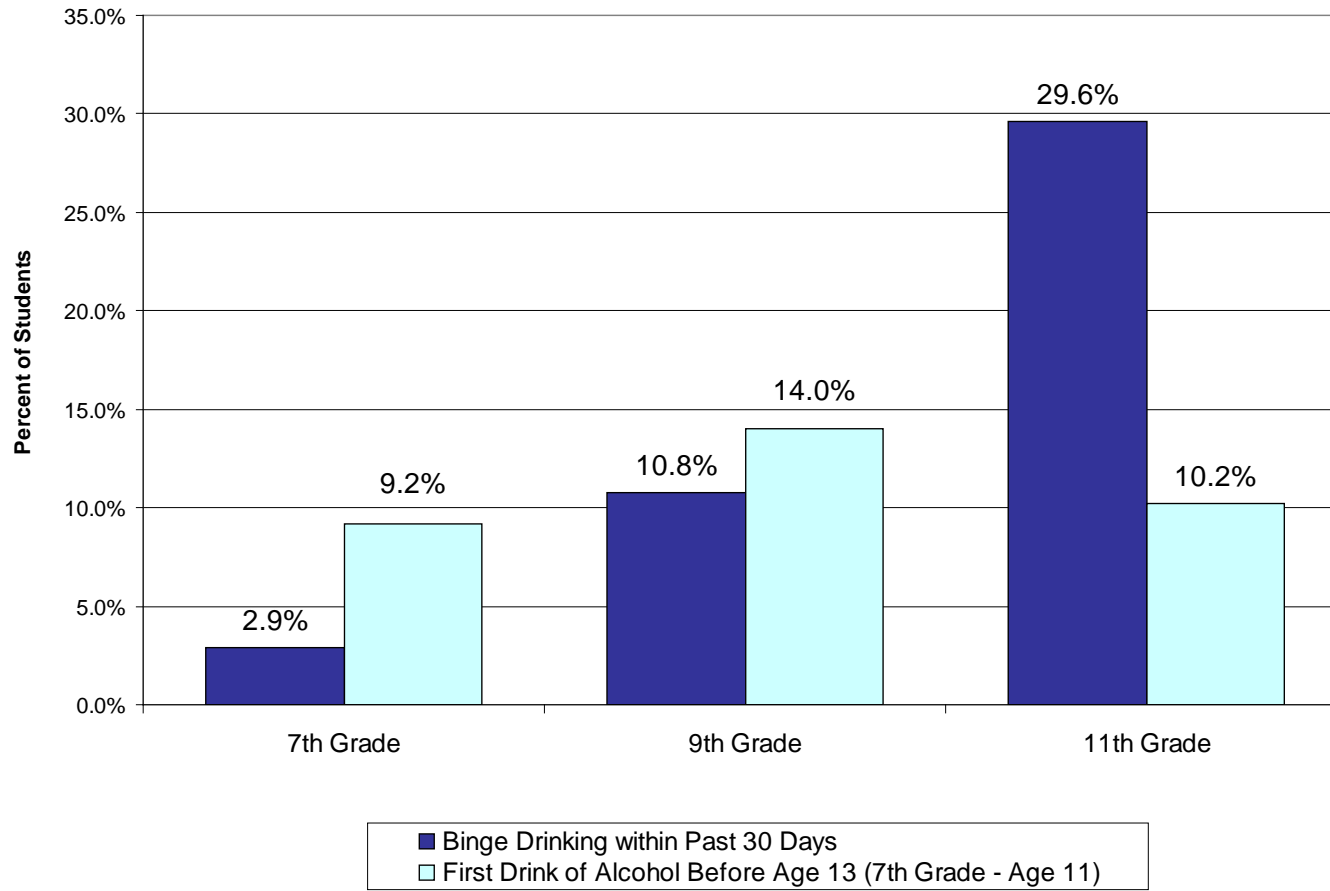
Sources: Michigan Profile for Healthy Youth, 2008; Monitoring the Future, 2007, University of Michigan.

Alcohol is Fairly Easy or Easy to Obtain for Oakland County and U.S. Students, 2007-08



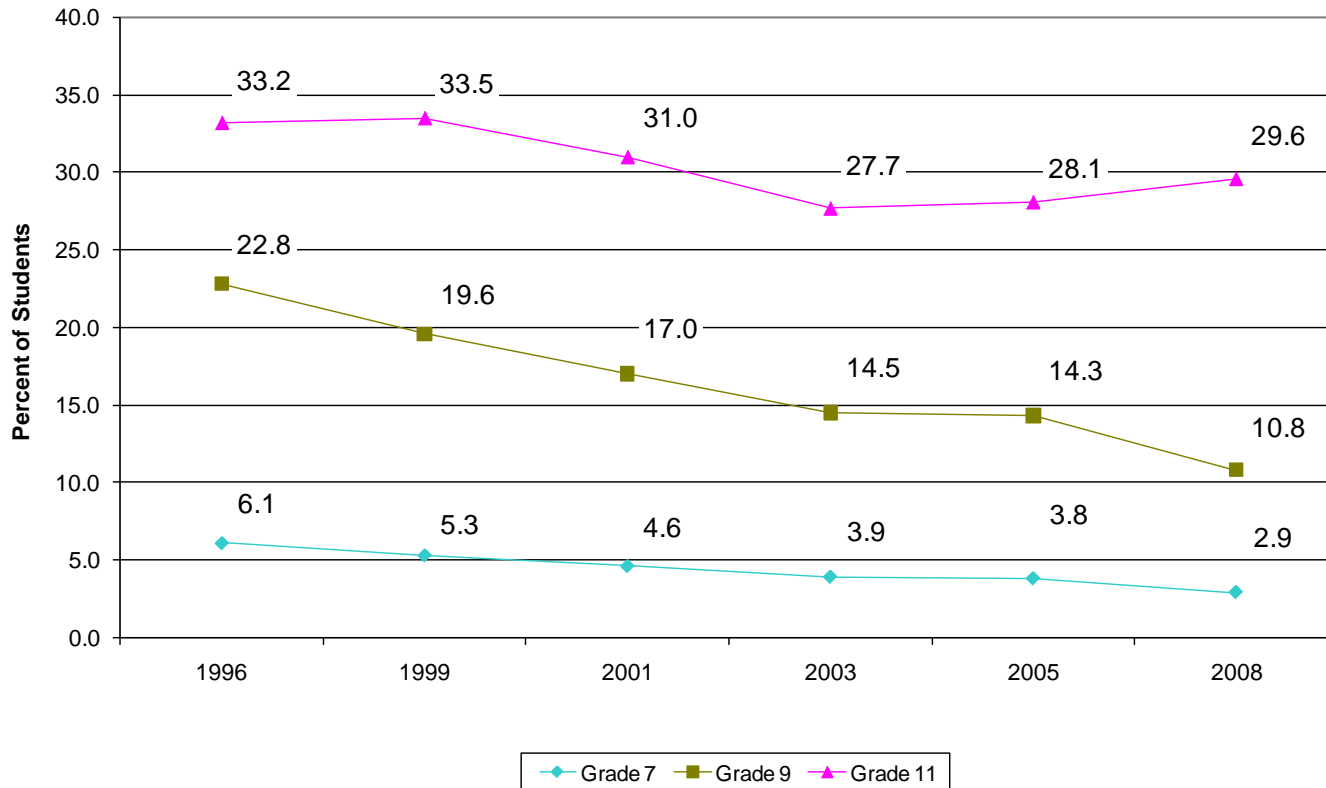
Sources: Michigan Profile for Healthy Youth, 2008; Monitoring the Future, 2007, University of Michigan.

Onset of Drinking and Binge Drinking, Oakland County Students, 2008



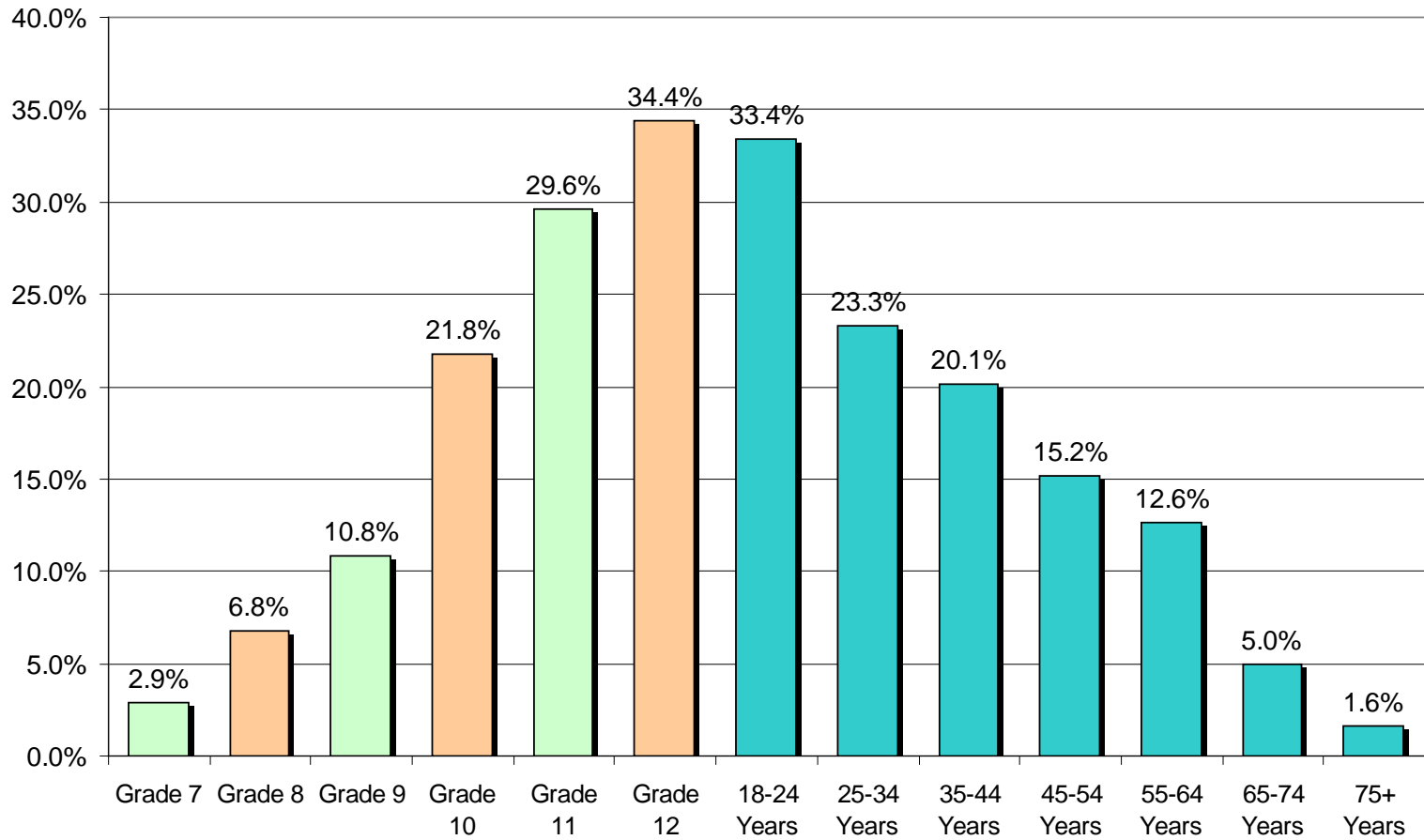
Source: Michigan Profile for Healthy Youth, 2008

Heavy Use of Alcohol among Oakland County Students, 1996-2008



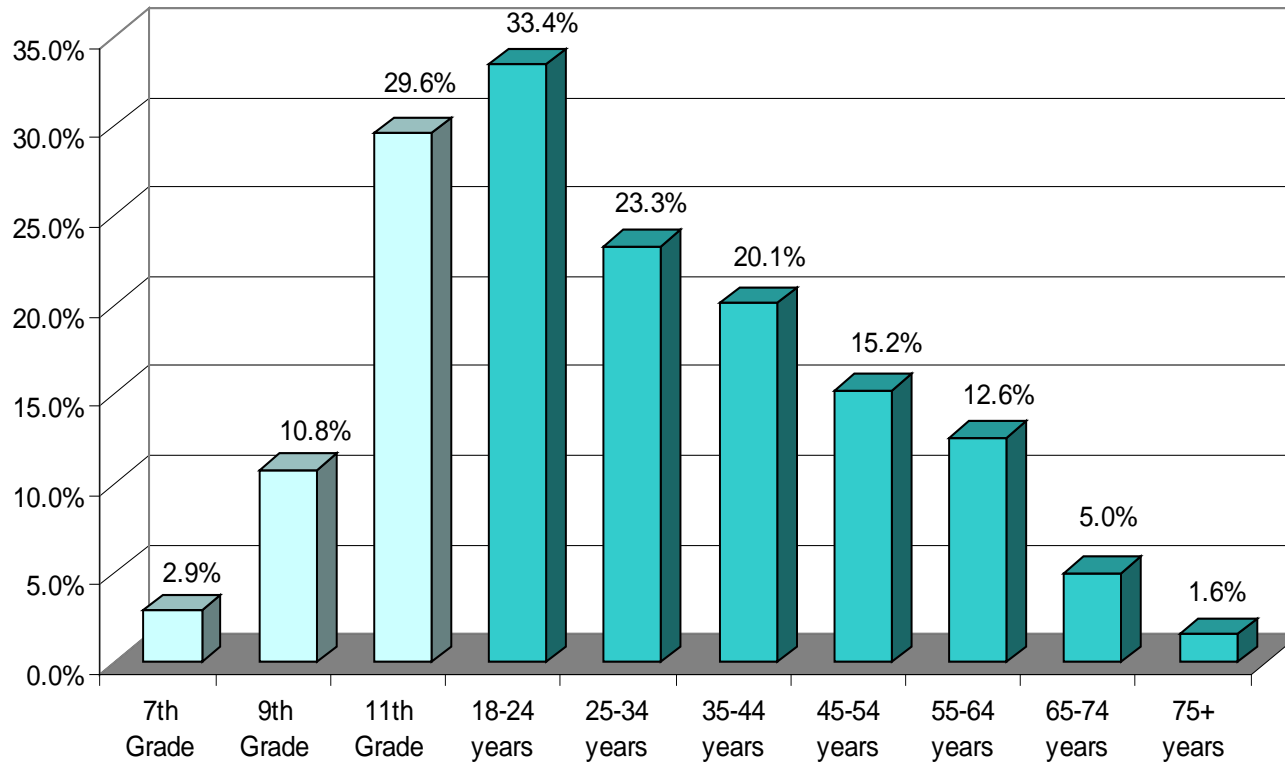
Note: 1996-2005 ATOD even grade estimates (8th, 10th, 12th) were evenly divided to create odd grade estimates (7th, 9th, 11th) to be comparable with the 2008 Michigan Profile for Healthy Youth.
 Source: Michigan Alcohol Tobacco and Other Drug Survey, 1996-2005

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.

Binge Drinking among Oakland County Residents, 2007-2008



Sources: 7th-11th Grade, 2008 Michigan Profile for Healthy Youth - Oakland County, 18-75 years, 2007 Oakland Community Health Survey.

Oakland County Traffic Profile, 2008

Licensed Drivers	935,875
Registered Vehicles	1,074,986
Miles of Road (2007)	5,703.2
Vehicle Miles Traveled	12,972,413
Total Crashes	37,384

Source: Michigan Office of Highway Safety Planning

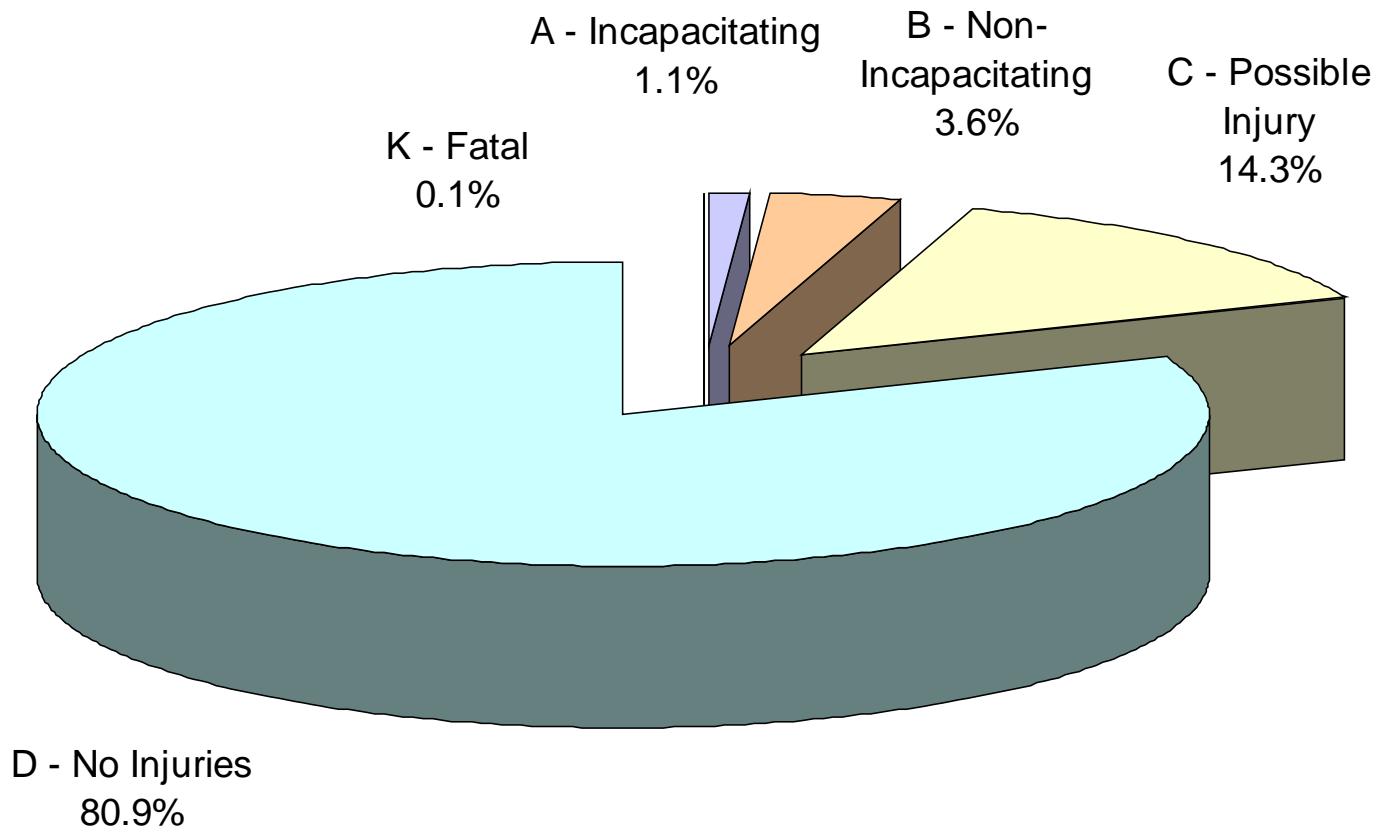
Oakland County Alcohol Related Traffic Crashes

- Alcohol related traffic crashes are an indicator of community problems related to alcohol use.
- In 2008 1,140 traffic crashes occurred where at least one driver had been drinking. These crashes resulted in 19 fatal crashes, killing 20 persons and 554 injuries.
- Driving after drinking too much (in the past month) was reported by 2.5% of the adult population (24,000 persons) during 2007. However only 6,276 persons were arrested for operating a vehicle under the influence during 2008.
- Alcohol related traffic crashes are the “tip of the iceberg.”

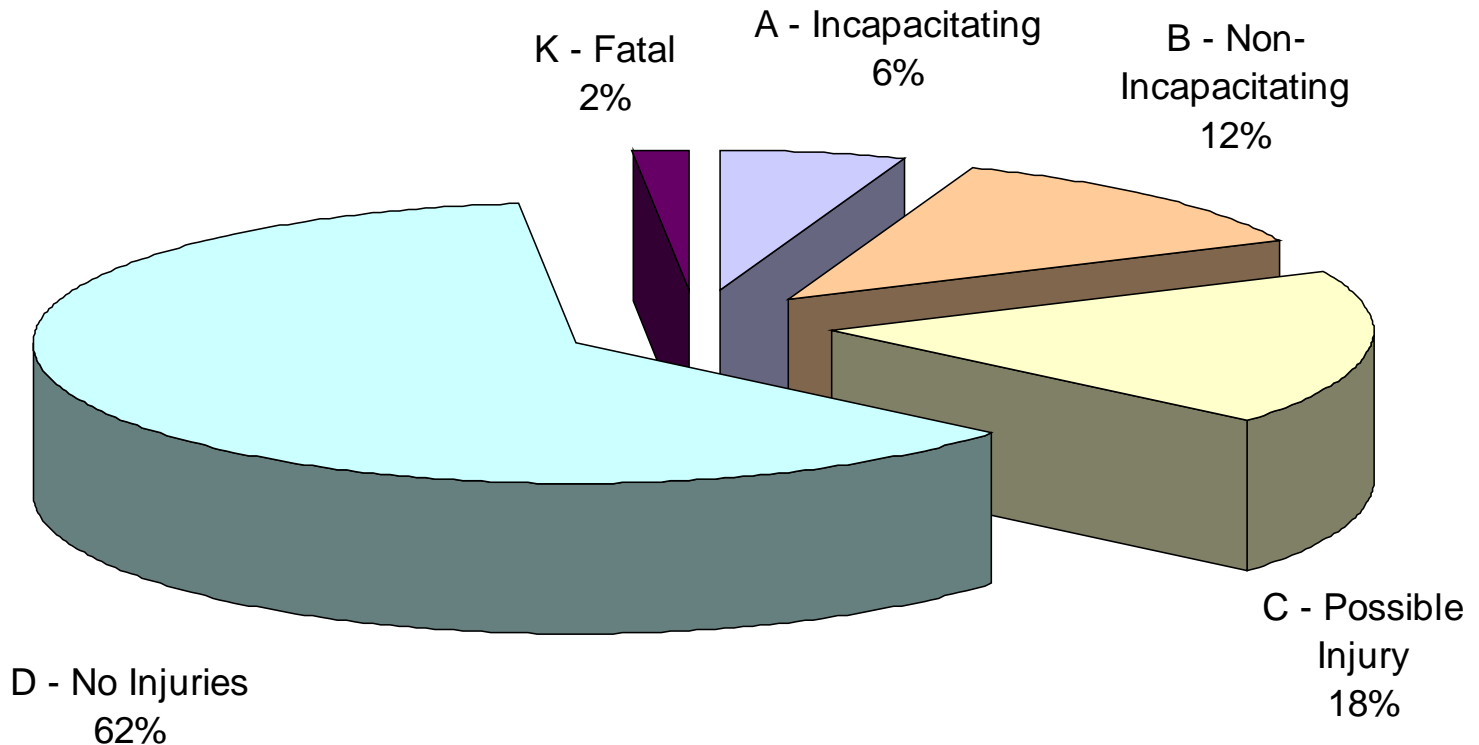
The Oakland County Iceberg, 2008



2008 Profile of Crashes Not Involving Alcohol, Oakland County



2008 Profile of Had Been Drinking Crashes, Oakland County



Source: Michigan Office of Highway Safety Planning

Percent Crash Injuries with and without Alcohol Involvement, Oakland County, 2008

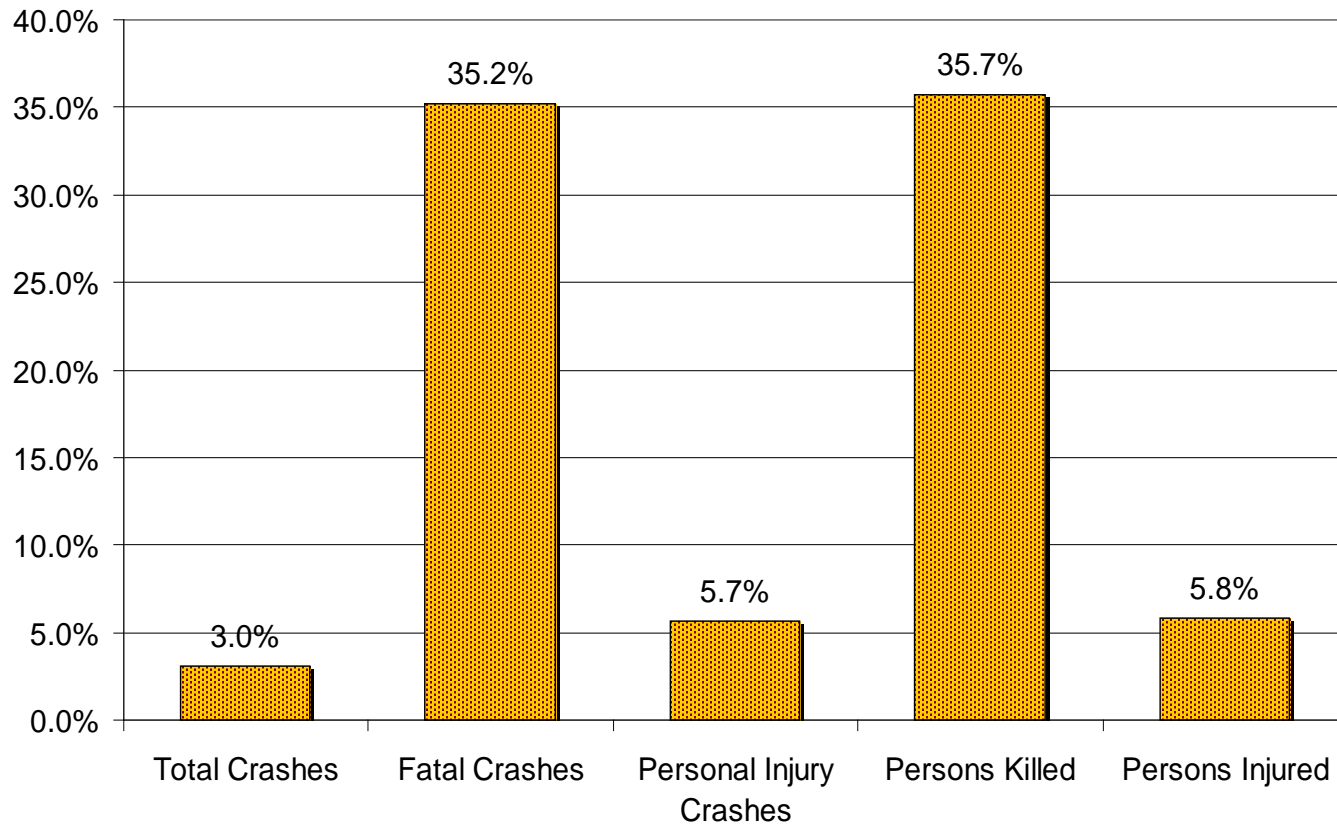
Crash Injury	No Alcohol	Alcohol	Risk Ratio
Fatal	0.1%	1.7%	17.0 X
Incapacitating	1.1%	5.6%	5.1 X
Non-Incapacitating	3.6%	12.5%	3.5 X
Possible Injury	14.3%	18.2%	1.3 X
No Injury	80.9%	62.0%	-

Source: Michigan Office of Highway Safety Planning

Oakland County Alcohol Related Traffic Crash Facts

- During 2008, 3.1%, (1,140) of all traffic crashes (37,384) involved alcohol.
- The risk of injury and death in crashes is significantly higher when alcohol is a factor.
- Alcohol was involved in 35% of all fatal crashes and 36% of all persons killed in traffic accidents.

Alcohol Involved Crashes as a Percent of Total Crashes, Oakland County 2008

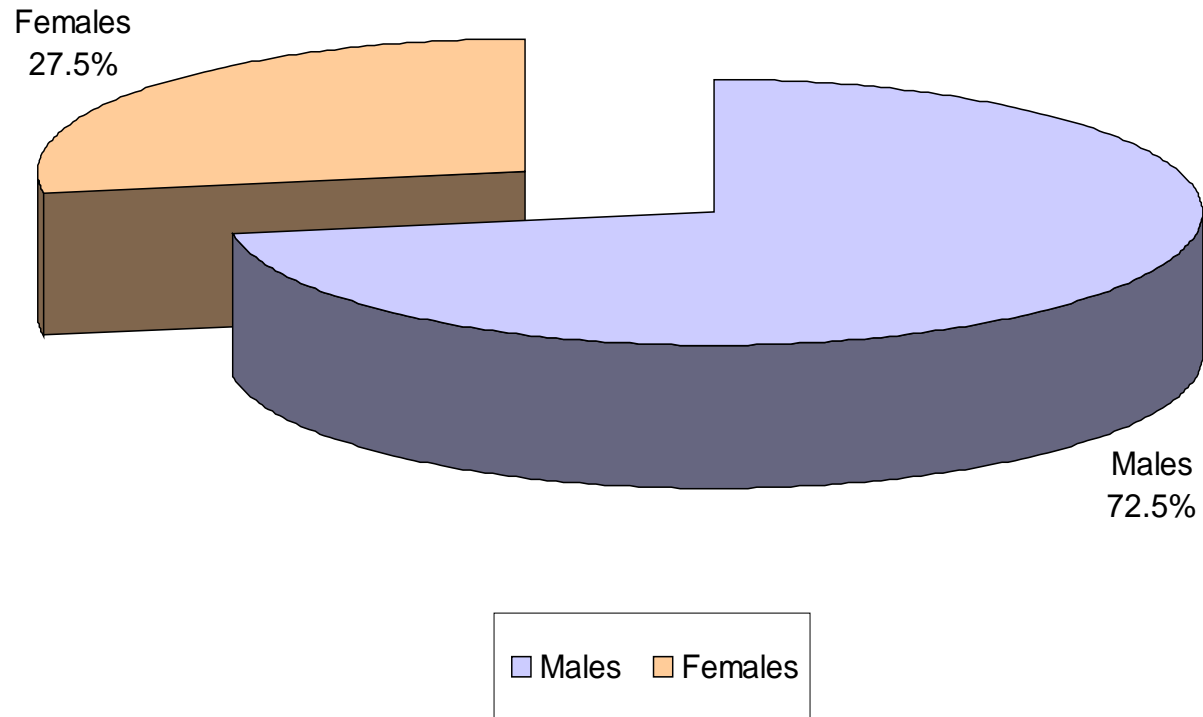


Source: Michigan Office of Highway Safety Planning

Oakland County Alcohol Related Arrests

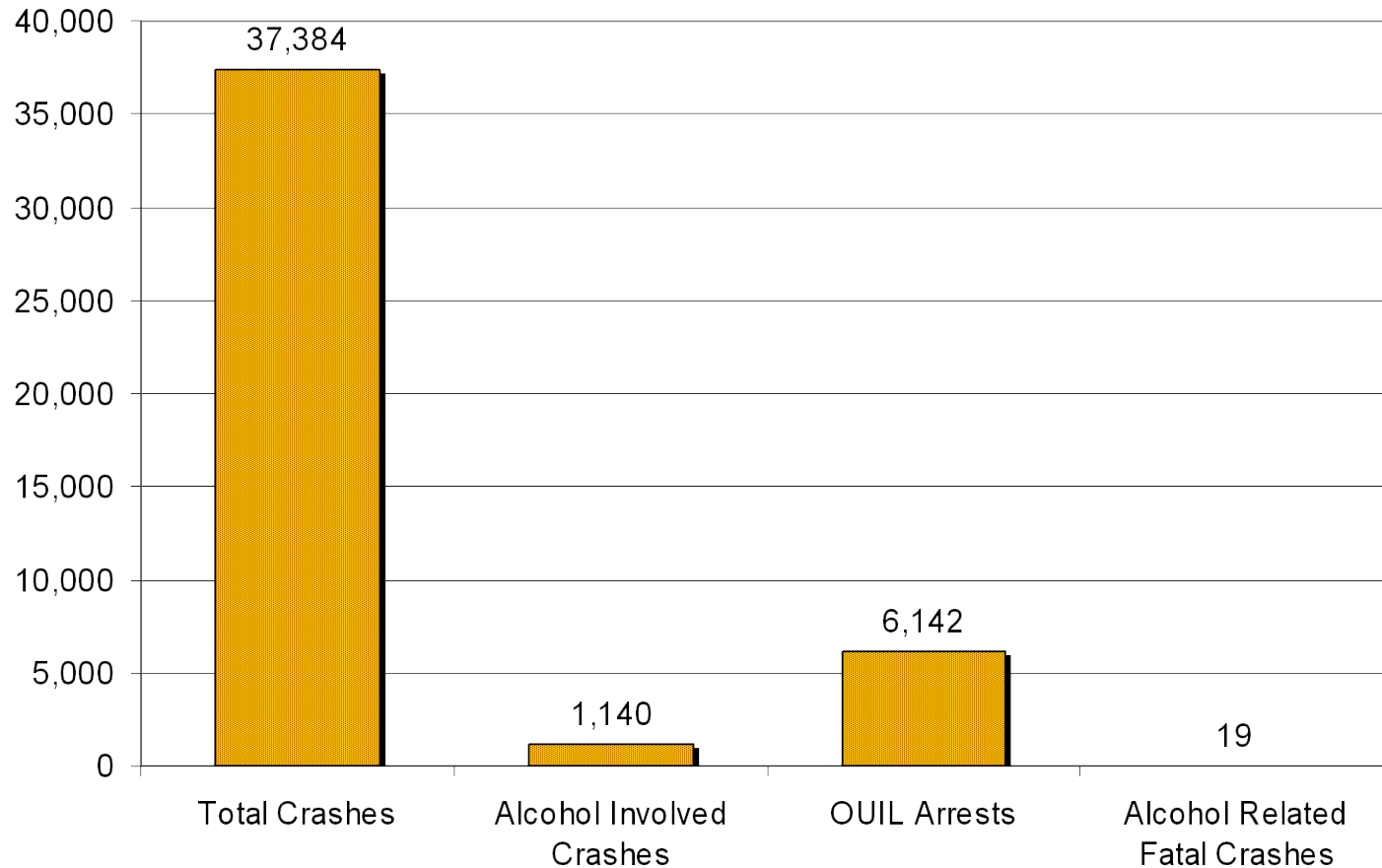
- During 2008, 6,276 persons were arrested in Oakland County for driving with alcohol-involved and 5,505 residents were convicted (an average of 17 arrests per day, 459 convictions per month).
- The rate of persons arrested for OUIL is slightly higher in Oakland County than the state, however, the rate of OUIL convictions is slightly lower.
- Males represent 74% of all OUIL arrests in Oakland County.

Alcohol Involved While Driving Arrests by Gender, Oakland County, 2008



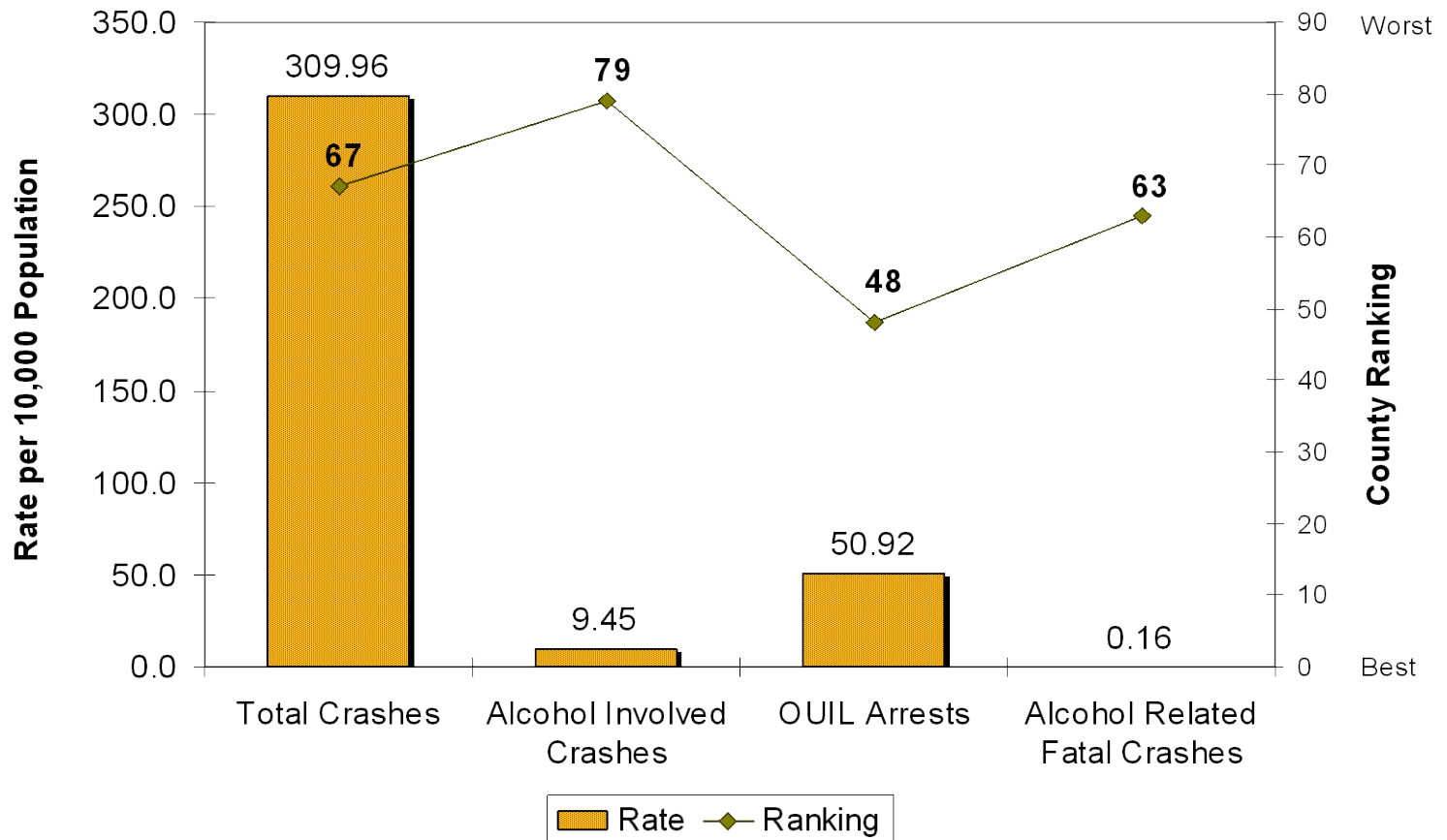
Source: Michigan Office of Highway Safety Planning

2008 Oakland Driving and Alcohol Profile - Number



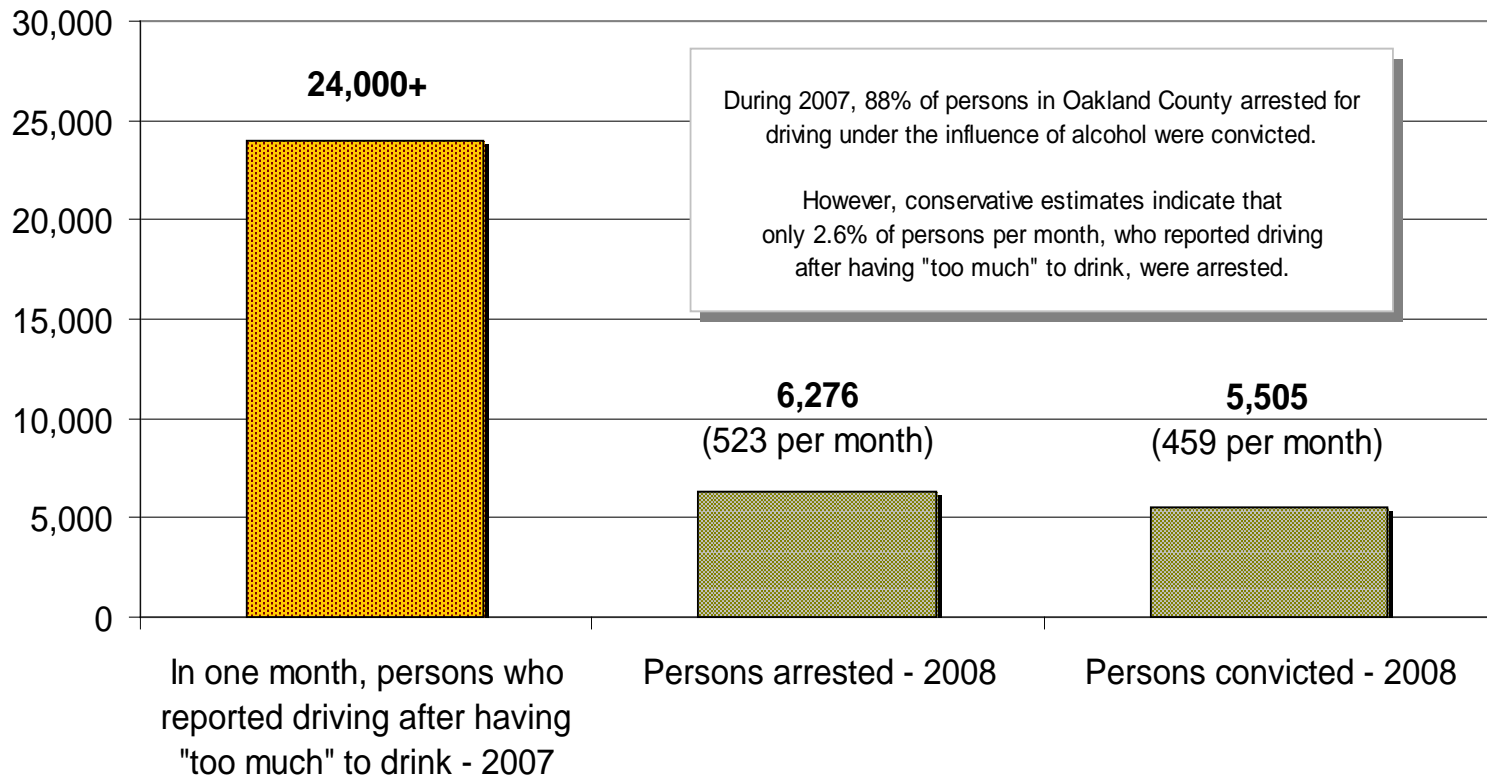
Source: Michigan Office of Highway Safety Planning

2008 Oakland Driving and Alcohol Profile – Rate & Ranking



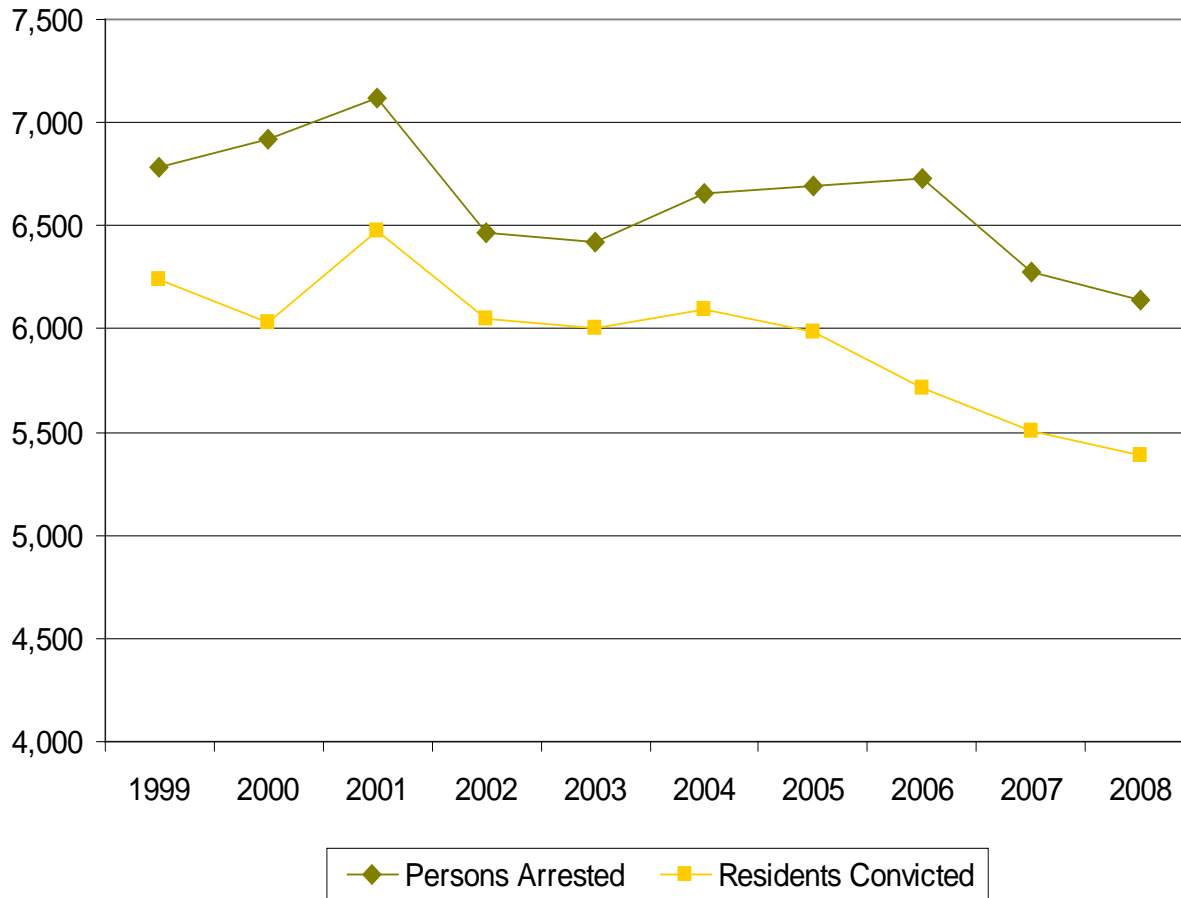
Source: Michigan Office of Highway Safety Planning

Profile of Drinking Alcohol and Driving Consequences in Oakland County, 2007-2008

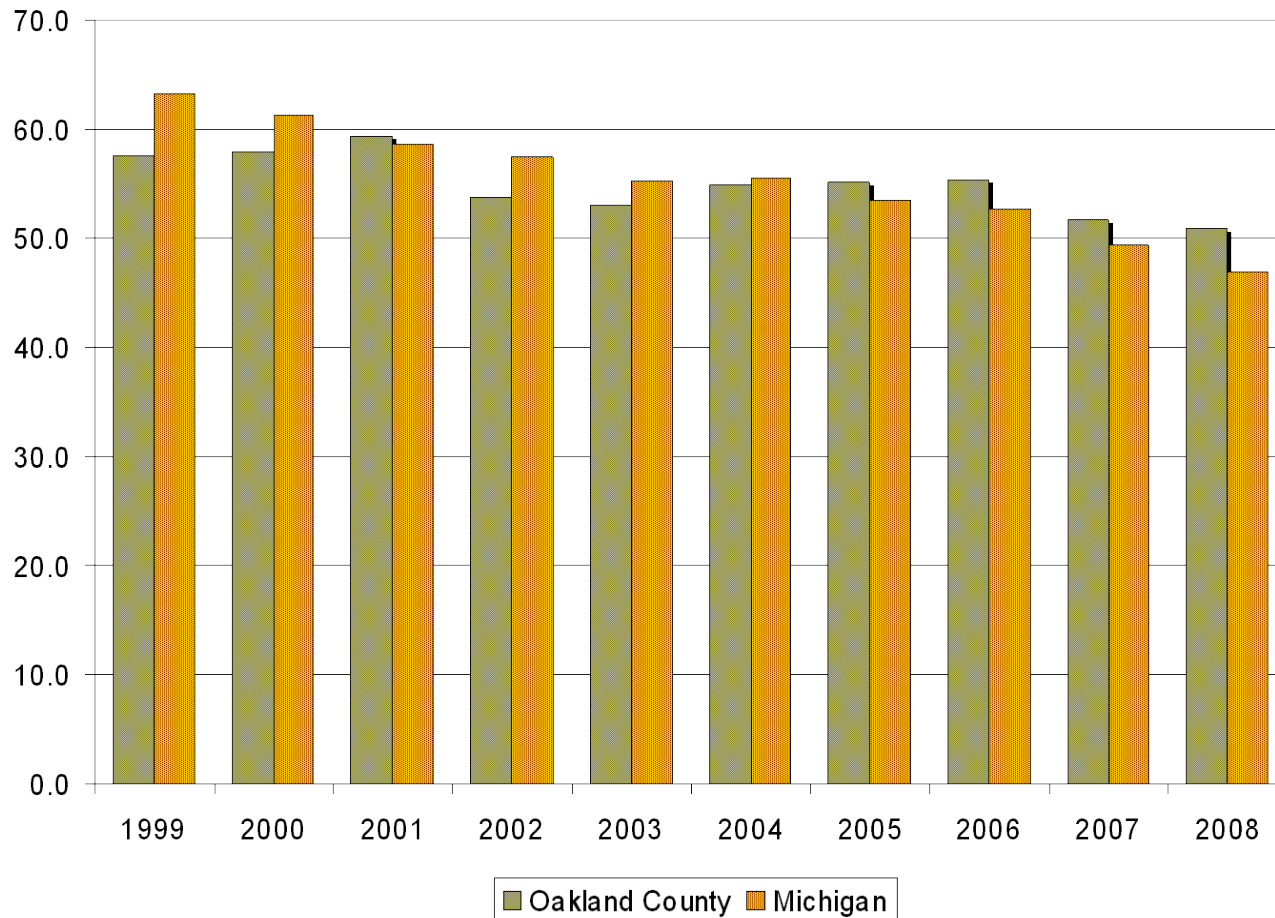


Source: Michigan Office of Highway Safety Planning; 2007 Oakland Community Survey.

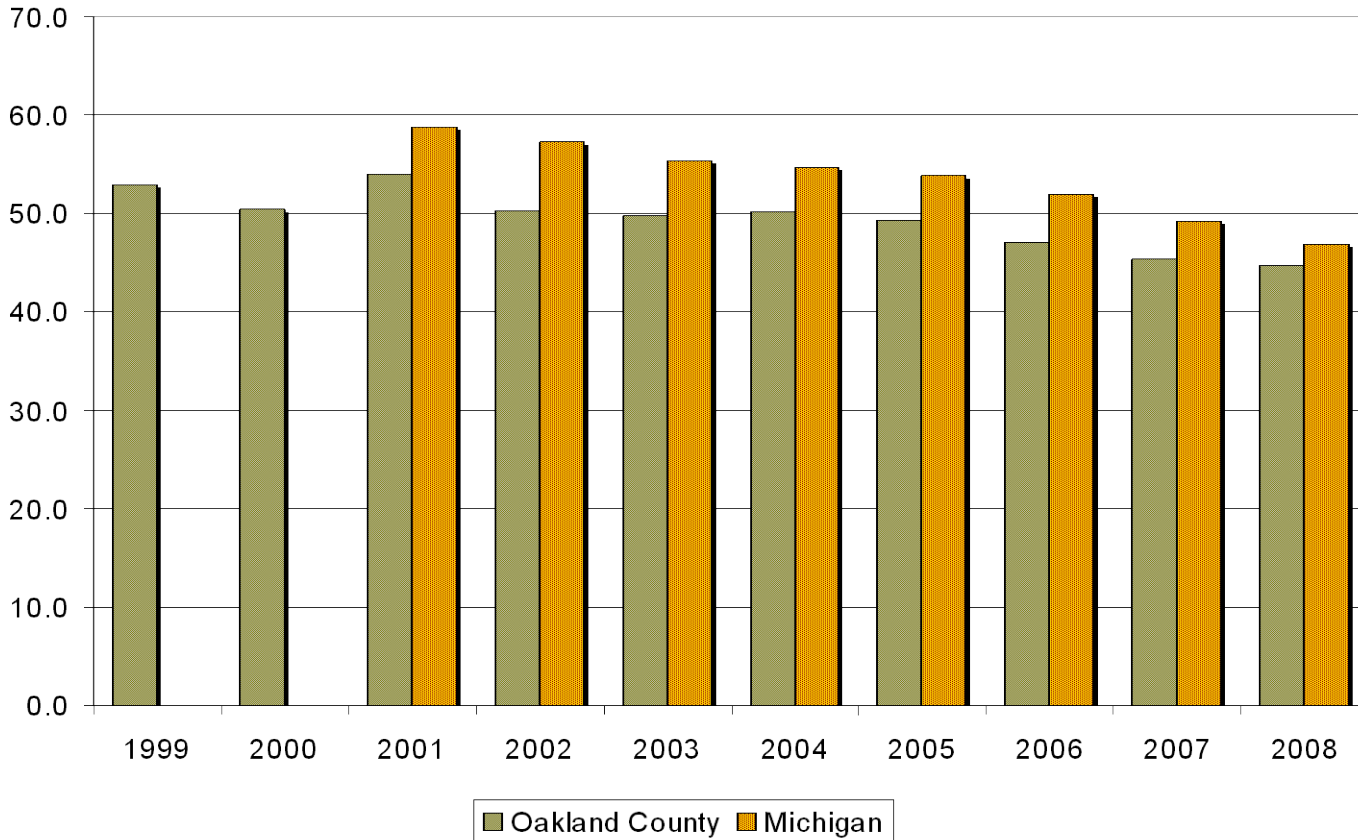
Persons Arrested and Residents Convicted in Oakland County, 1999-2008



Rate of Persons Arrested per 10,000 Population, Michigan and Oakland County, 1999-2008



Rate of Residents Convicted per 10,000 Population, Michigan and Oakland County, 1999-2008



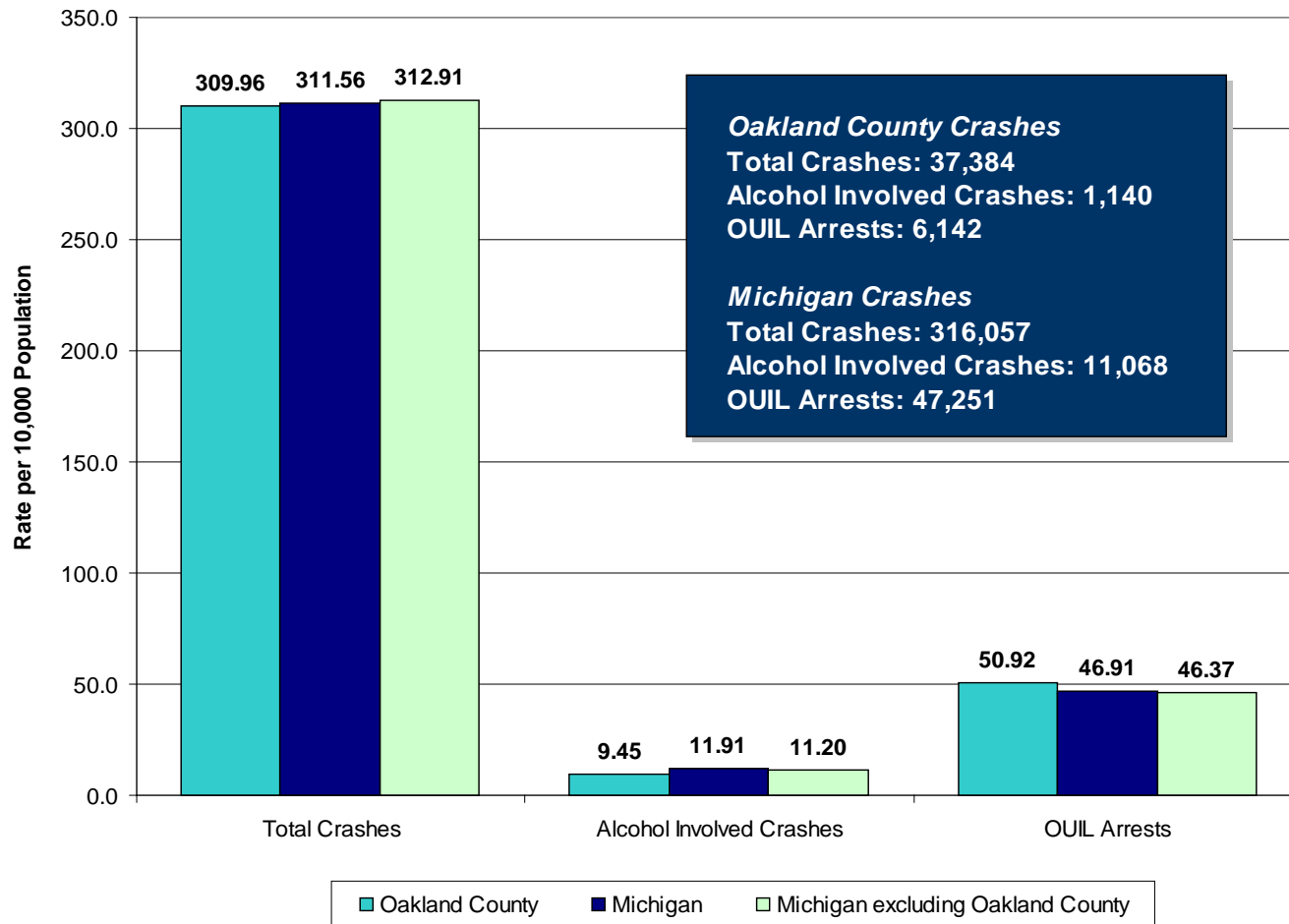
Source: Michigan Office of Highway Safety Planning

Alcohol Related Traffic Crashes

– Local, State and National Comparison

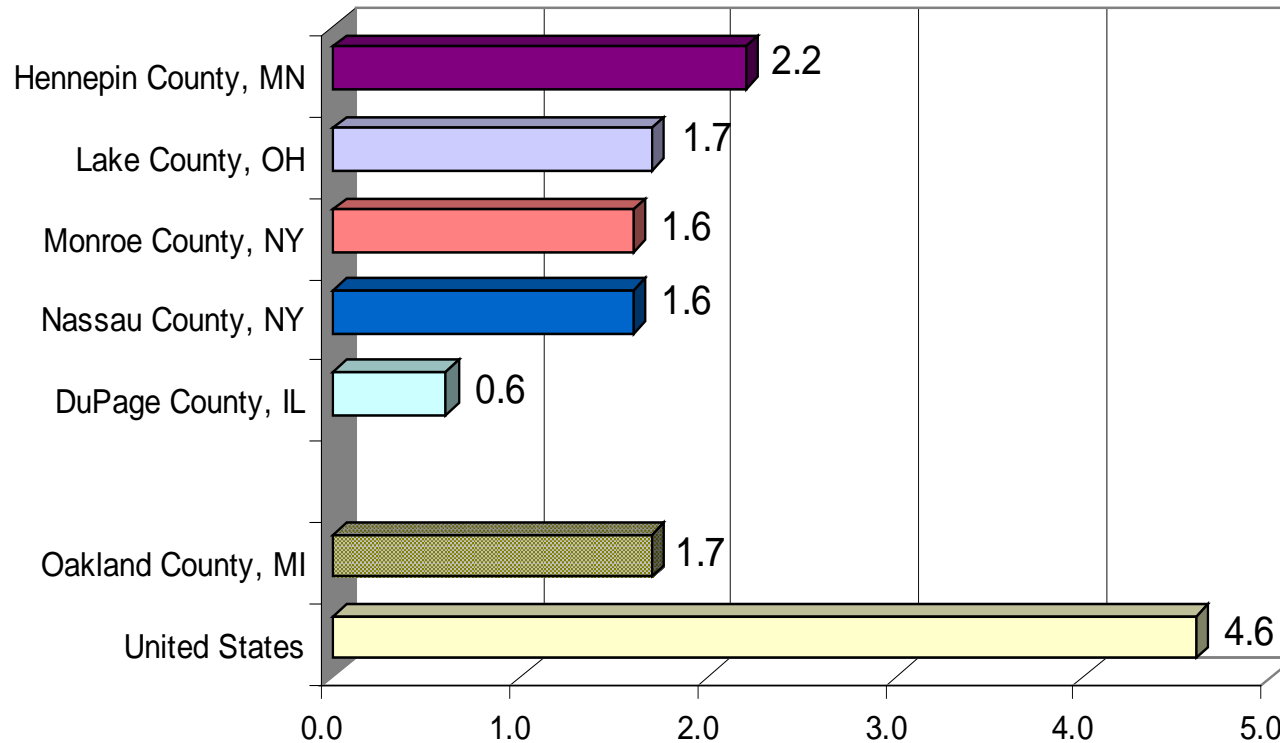
- The rate of Had Been Drinking (HBD) Fatal Crashes in Oakland County during 2008 was one-half the rate for the balance of Michigan.
- Oakland County's alcohol related traffic fatality rate is less than one-half the US rate, however, in the middle of the pack among peer counties.

2008 Michigan and Oakland County Driving and Alcohol Profile



Source: Michigan Office of Highway Safety Planning

Rate of Alcohol Related Traffic Fatalities, Oakland County and Selected Peer Counties, 2008



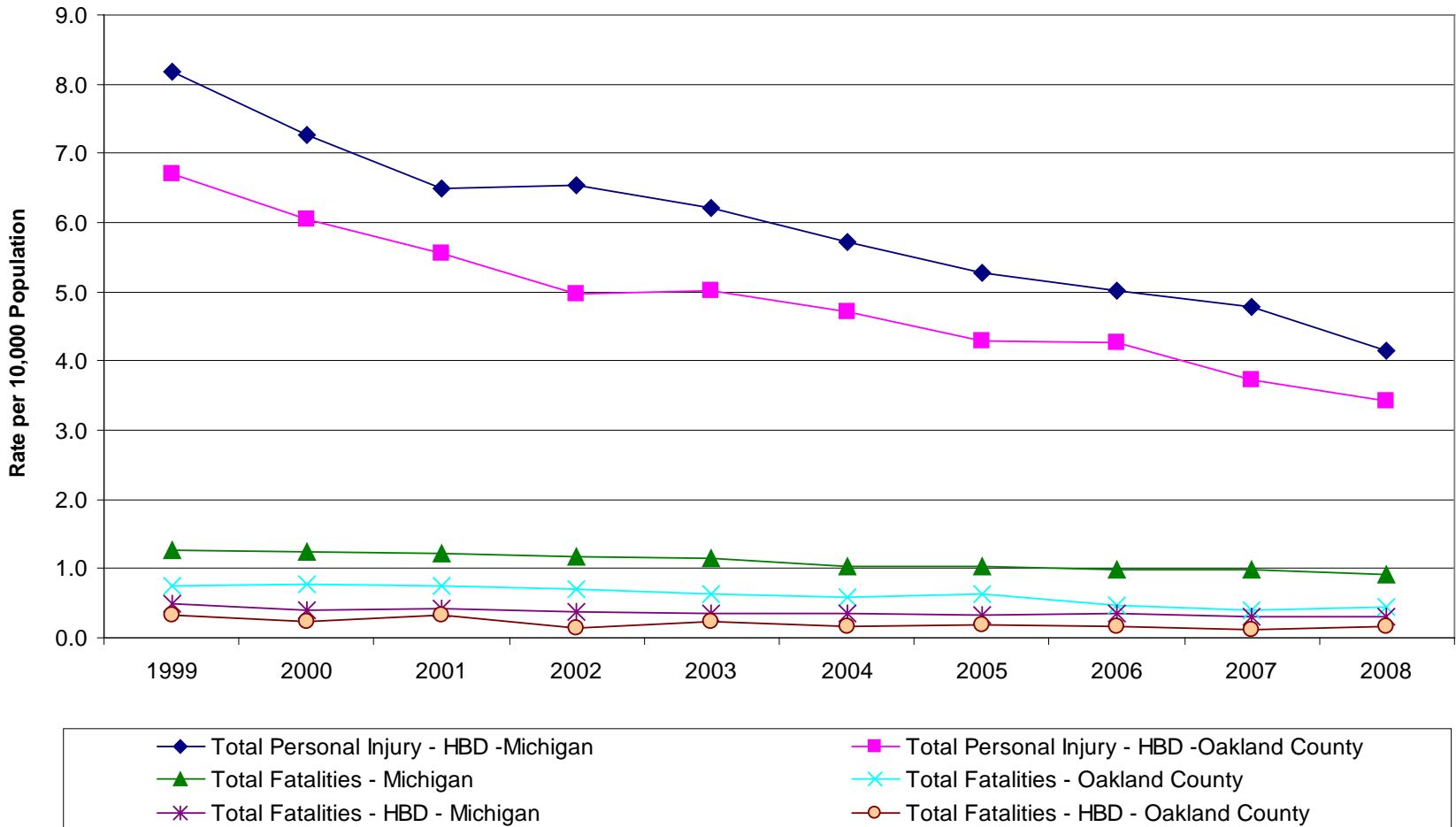
Source: National Highway Traffic Safety Administration, National Center for Statistics and Analysis.

Alcohol Involved Fatal Crashes by Oakland County City, Village, or Township, 2004-2008

	Fatal Crashes		Fatal Crashes		Fatal Crashes
Addison Twp	1	Holly Twp	3	Oxford	1
Auburn Hills	2	Huntington Woods	1	Oxford Twp	1
Berkley	0	Independence Twp	4	Pleasant Ridge	1
Beverly Hills	0	Keego Harbor	0	Pontiac	12
Bingham Farms	0	Lake Angelus	0	Rochester	1
Birmingham	1	Lake Orion	0	Rochester Hills	5
Bloomfield Hills	0	Lathrup Village	0	Rose Twp	2
Bloomfield Twp	1	Leonard	0	Royal Oak	4
Brandon Twp	0	Lyon Twp	5	Royal Oak Twp	0
Clarkston	0	Madison Heights	1	South Lyon	0
Clawson	1	Milford	1	Southfield	4
Commerce Twp	2	Milford Twp	2	Southfield Twp	4
Farmington	0	Northville	0	Sylvan Lake	0
Farmington Hills	1	Novi	2	Troy	10
Ferndale	1	Novi Twp	0	Walled Lake	0
Franklin	0	Oak Park	1	Waterford Twp	3
Groveland Twp	2	Oakland Twp	3	West Bloomfield Twp	2
Hazel Park	1	Orchard Lake	1	White Lake Twp	3
Highland Twp	4	Orion Twp	1	Wixom	0
Holly	0	Ortonville	0	Wolverine Lake	0

Source: Michigan Office of Highway Safety Planning

Summary of Traffic Crash Rates per 10,000 Population, Michigan and Oakland County, 1999-2008



Alcohol Crashes Oakland County, 2006



DISCLAIMER: This map is neither a legally recorded map nor a survey and is not intended to be used as one. This map is a compilation of records, information and data located in various city, county, state and federal offices and other sources regarding the area shown, and is to be used for reference purposes only.

SOURCES: MIGDL, ESRI, Traffic Improvement Association, Plansight, LLC.

PROVIDED BY: the Traffic Improvement Association

Oakland County Alcohol Incapacitating Injury Crashes, 2002-2006



DISCLAIMER: This map is neither a legally recorded map nor a survey and is not intended to be used as one. This map is a compilation of records, information and data located in various city, county, state and federal offices and other sources regarding the area shown, and is to be used for reference purposes only.

SOURCES: MIGDL, ESRI, Traffic Improvement Association, Plansight, LLC.

PROVIDED BY: the Traffic Improvement Association

Oakland County Alcohol Fatal Injury Crashes, 2002-2006



DISCLAIMER: This map is neither a legally recorded map nor a survey and is not intended to be used as one. This map is a compilation of records, information and data located in various city, county, state and federal offices and other sources regarding the area shown, and is to be used for reference purposes only.

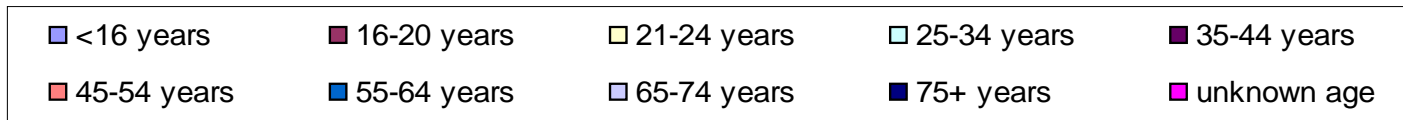
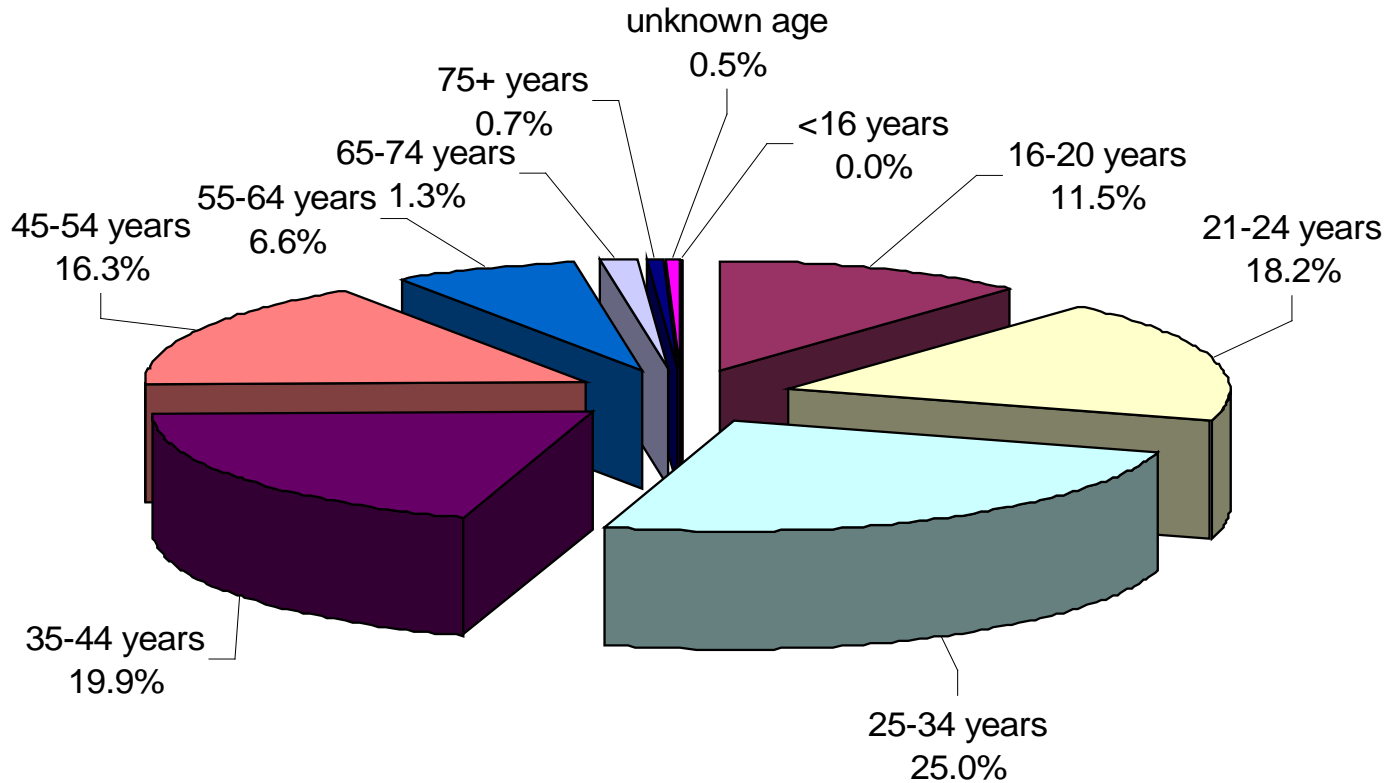
SOURCES: MIGDL, ESRI, Traffic Improvement Association, Plansight, LLC.

PROVIDED BY: the Traffic Improvement Association

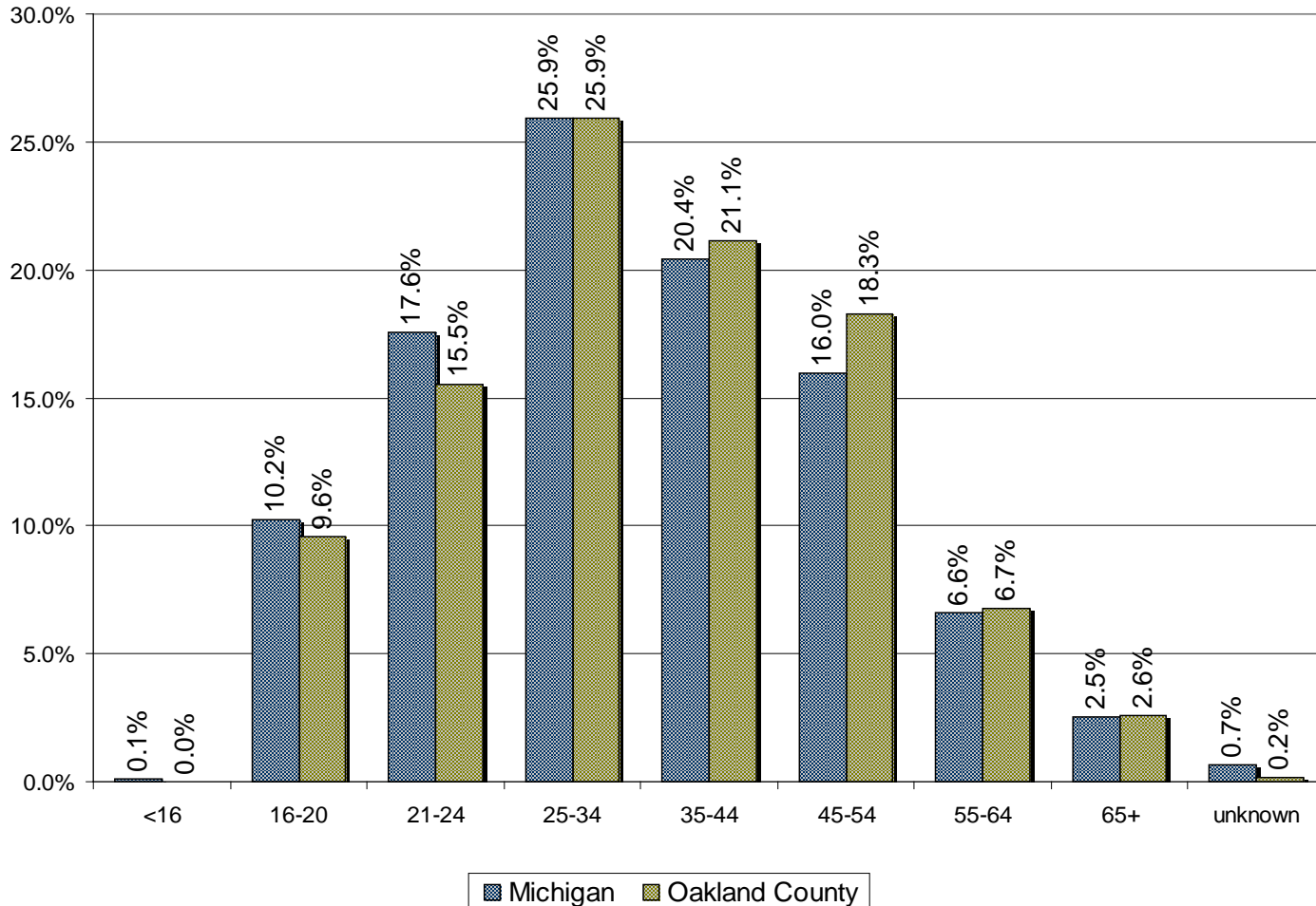
Oakland County Alcohol Related Traffic Crash Facts, 2008

- Thirty percent (30%) of drinking drivers involved in crashes were under age 25 (12% are under age 20).
- Sixty-six percent (68%) of alcohol-involved crashes occur on local streets followed by 13% on the interstate highways.
- Males are involved in 70-75% of all alcohol related crashes, fatal crashes and incapacitating crashes.
- Fifty percent (57%) of alcohol related crashes occur between 9 p.m. and 3 a.m., while 55% occur between Friday and Sunday.
- Most alcohol related crashes occur on dry roads (66%), in clear weather (53%), and at speeds of less than 45 mph (49.7%).

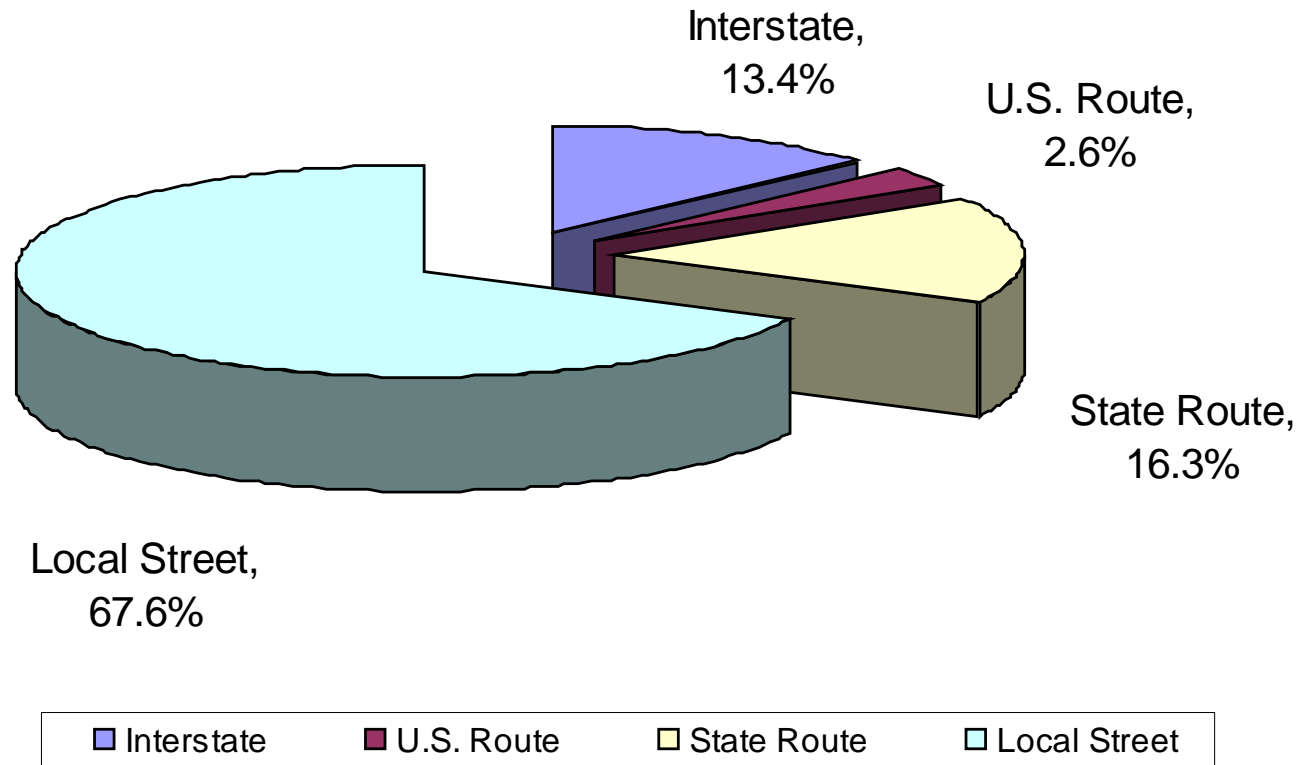
2008 Alcohol Crashes by Age, Oakland County



Drinking Drivers Involved in Crashes, Michigan and Oakland County, 2008

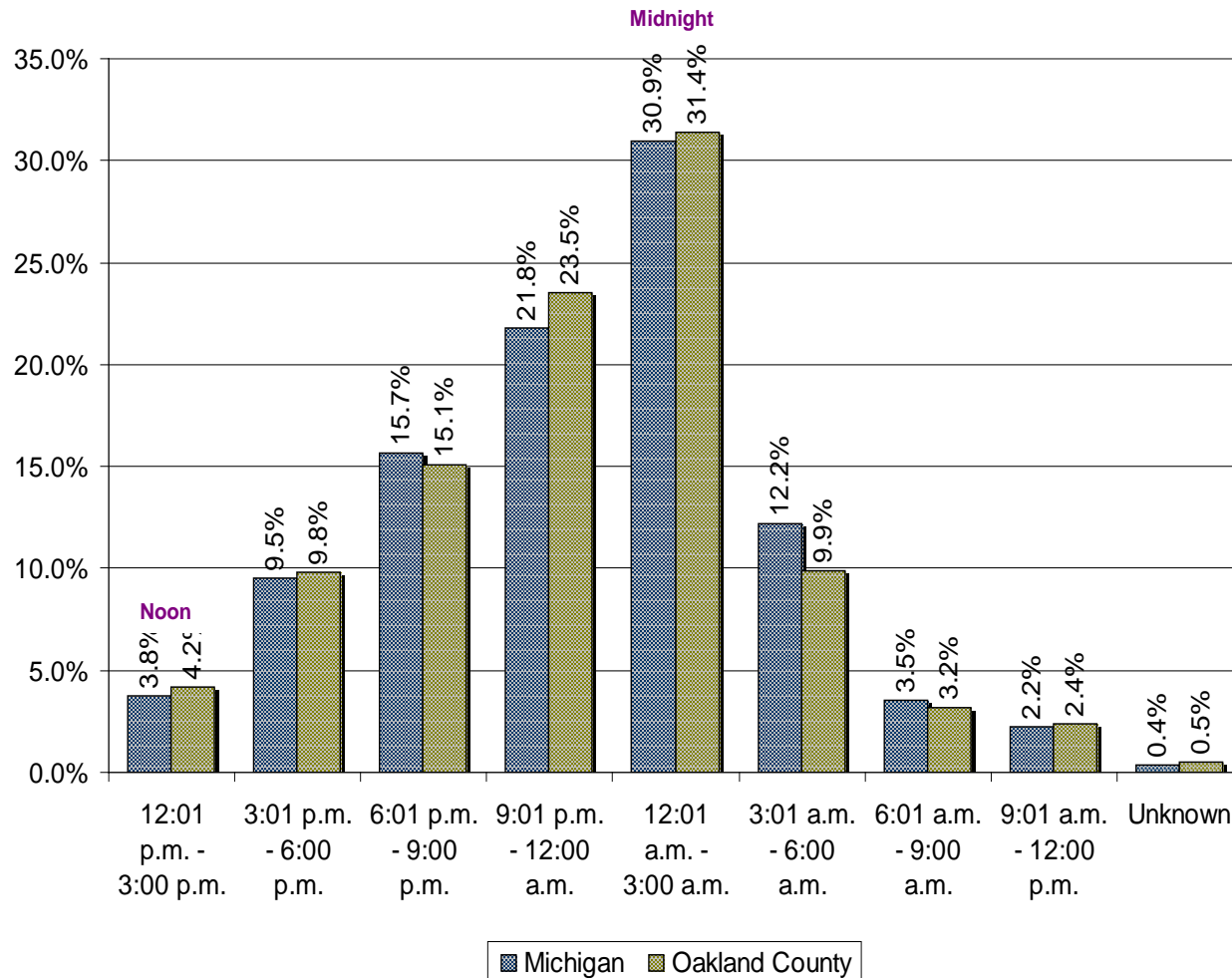


2008 Alcohol Crashes by Location, Oakland County



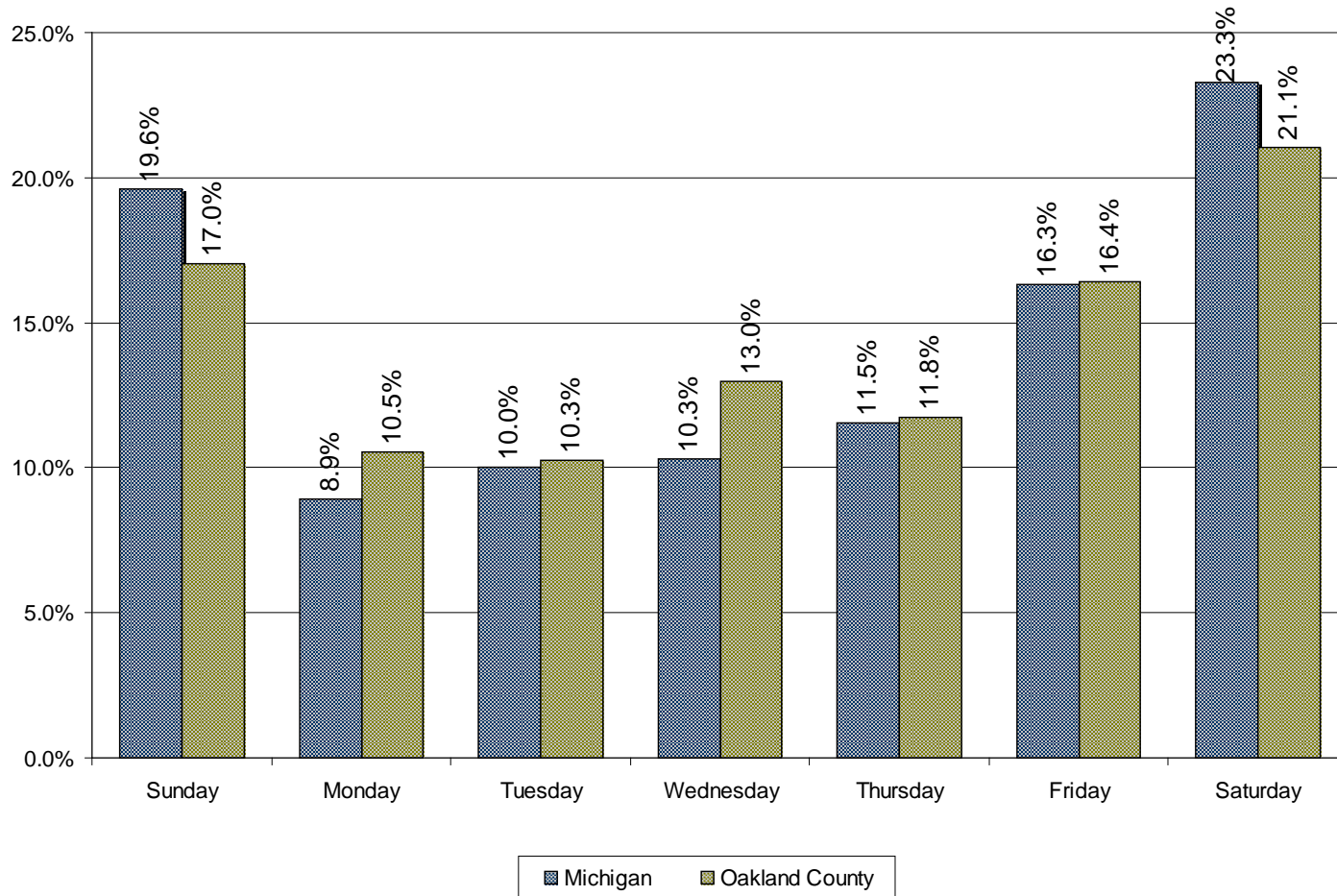
Source: Michigan Office of Highway Safety Planning

HBD Crashes by Time of Day, Michigan and Oakland County, 2008



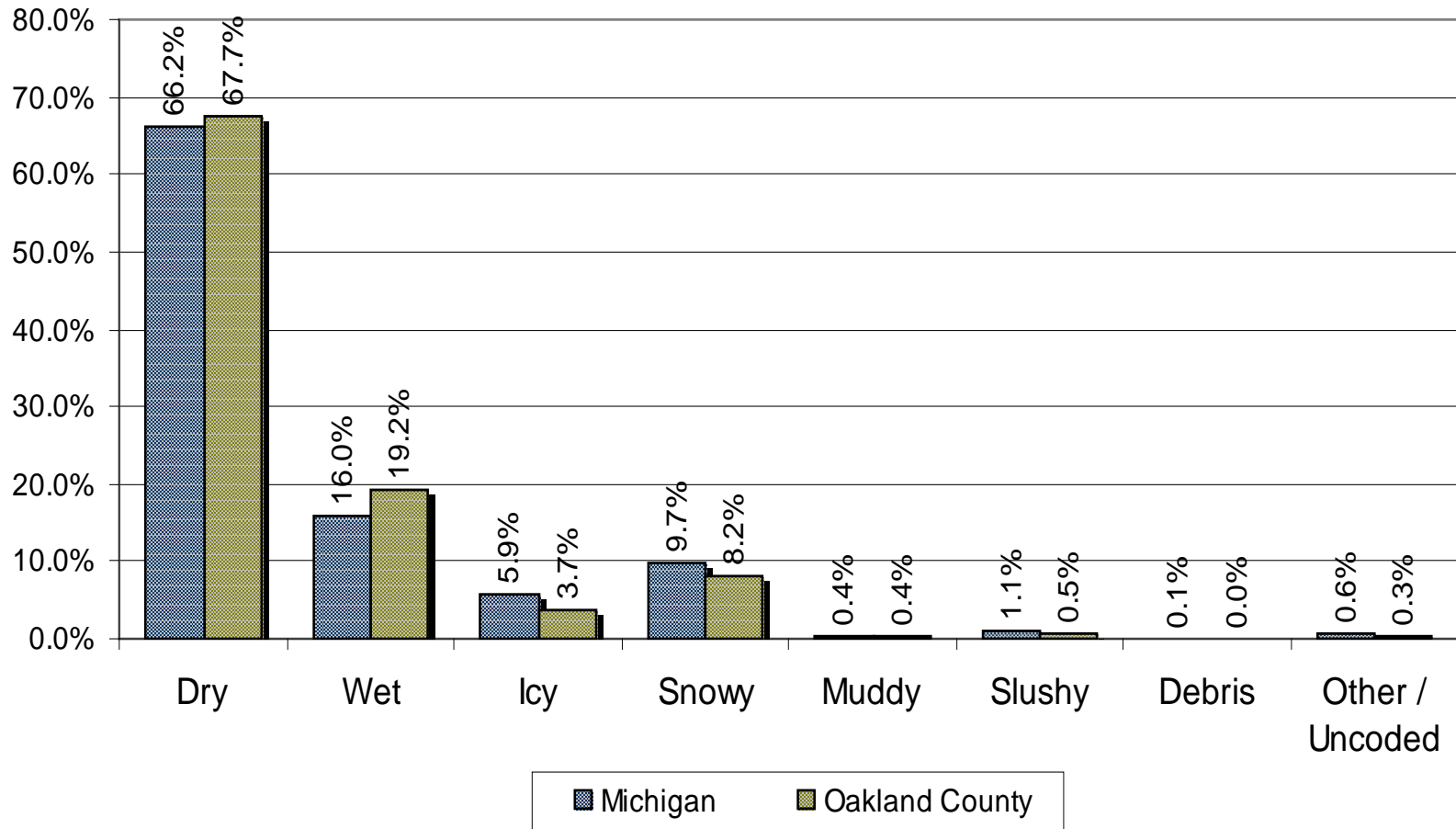
Source: Michigan Office of Highway Safety Planning

HBD Crashes by Day of the Week, Michigan and Oakland County, 2008



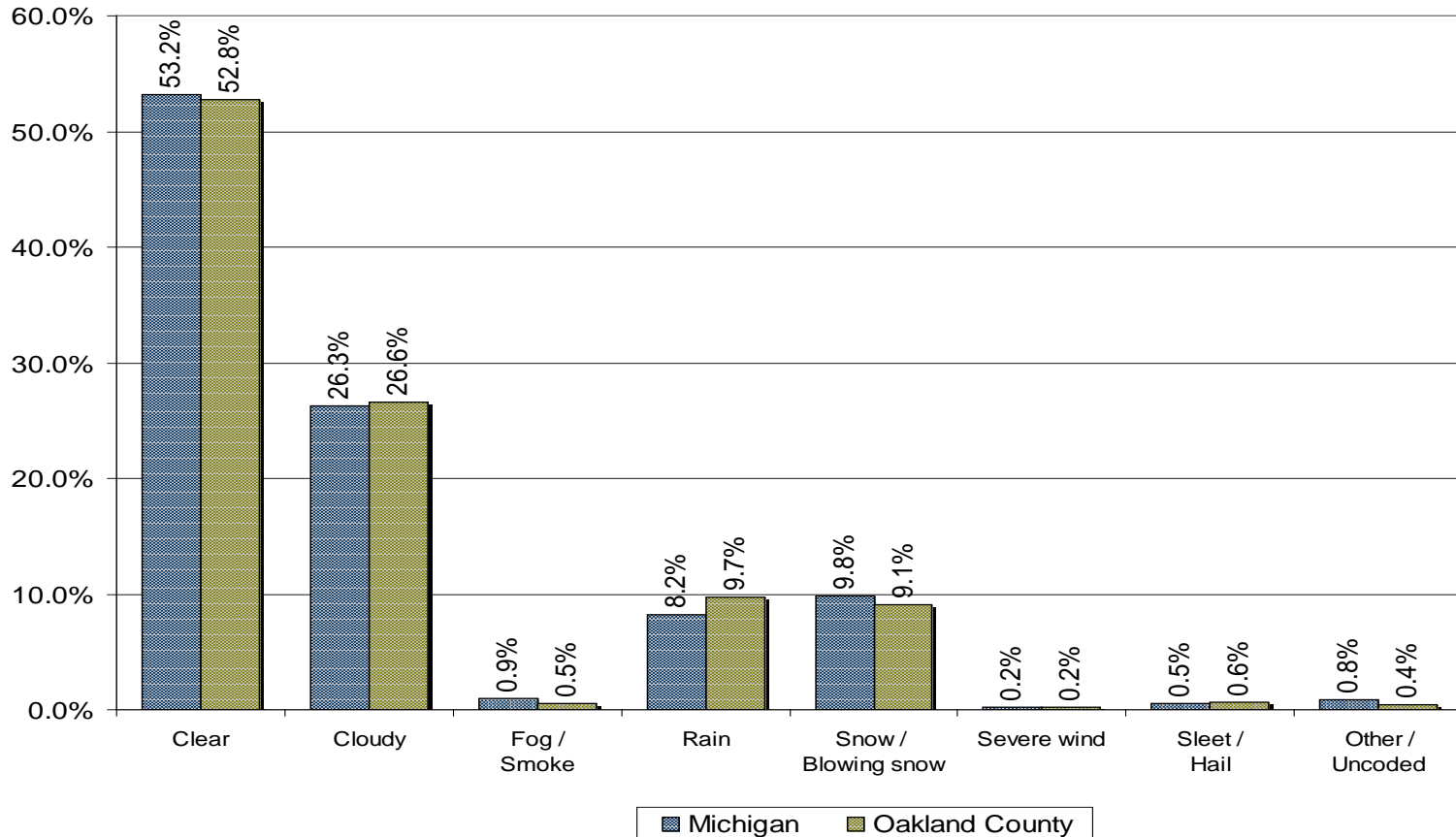
Source: Michigan Office of Highway Safety Planning

HBD Crashes by Road Conditions, Michigan and Oakland County, 2008



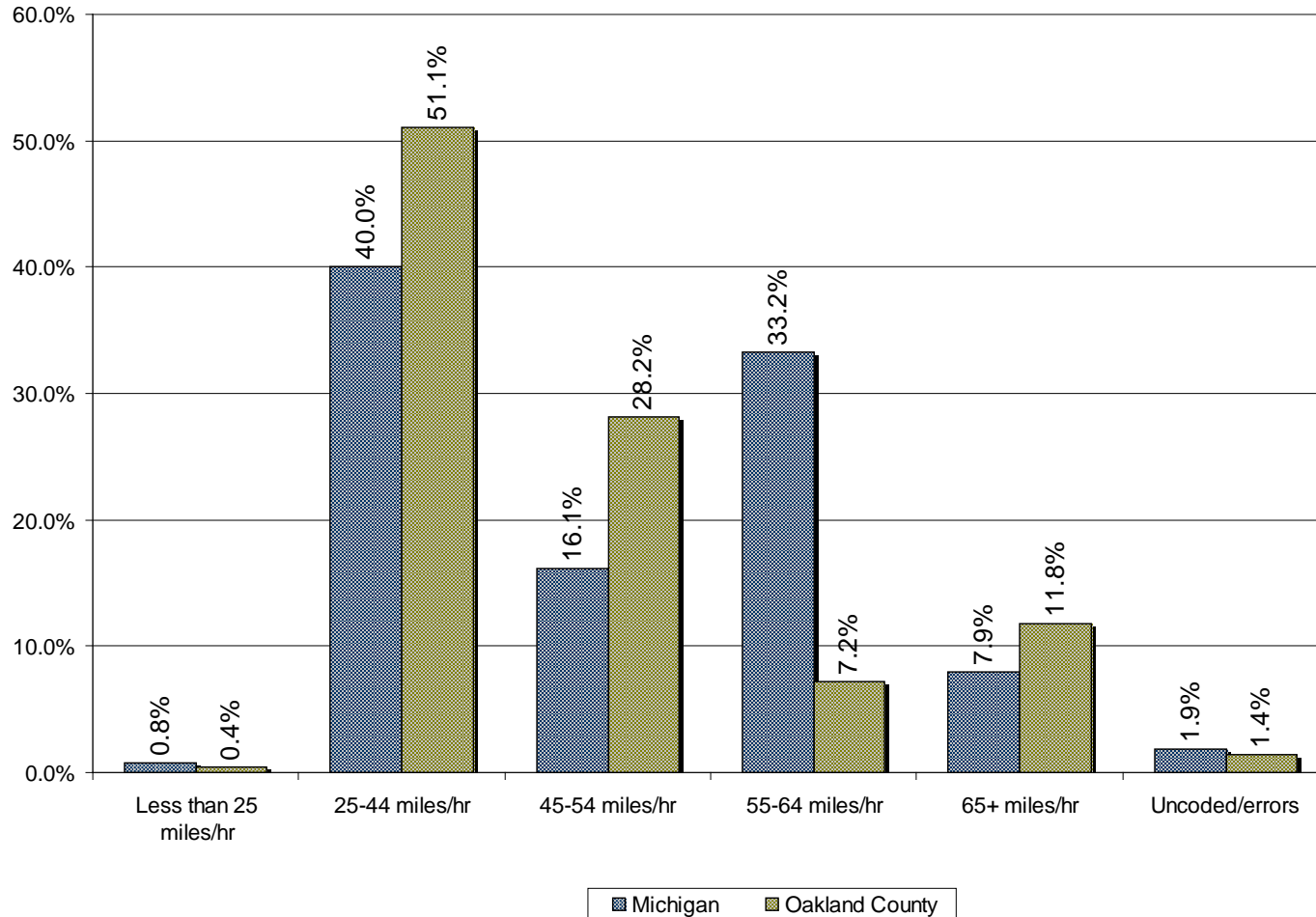
Source: Michigan Office of Highway Safety Planning

HBD Crashes by Weather Conditions, Michigan and Oakland County, 2008



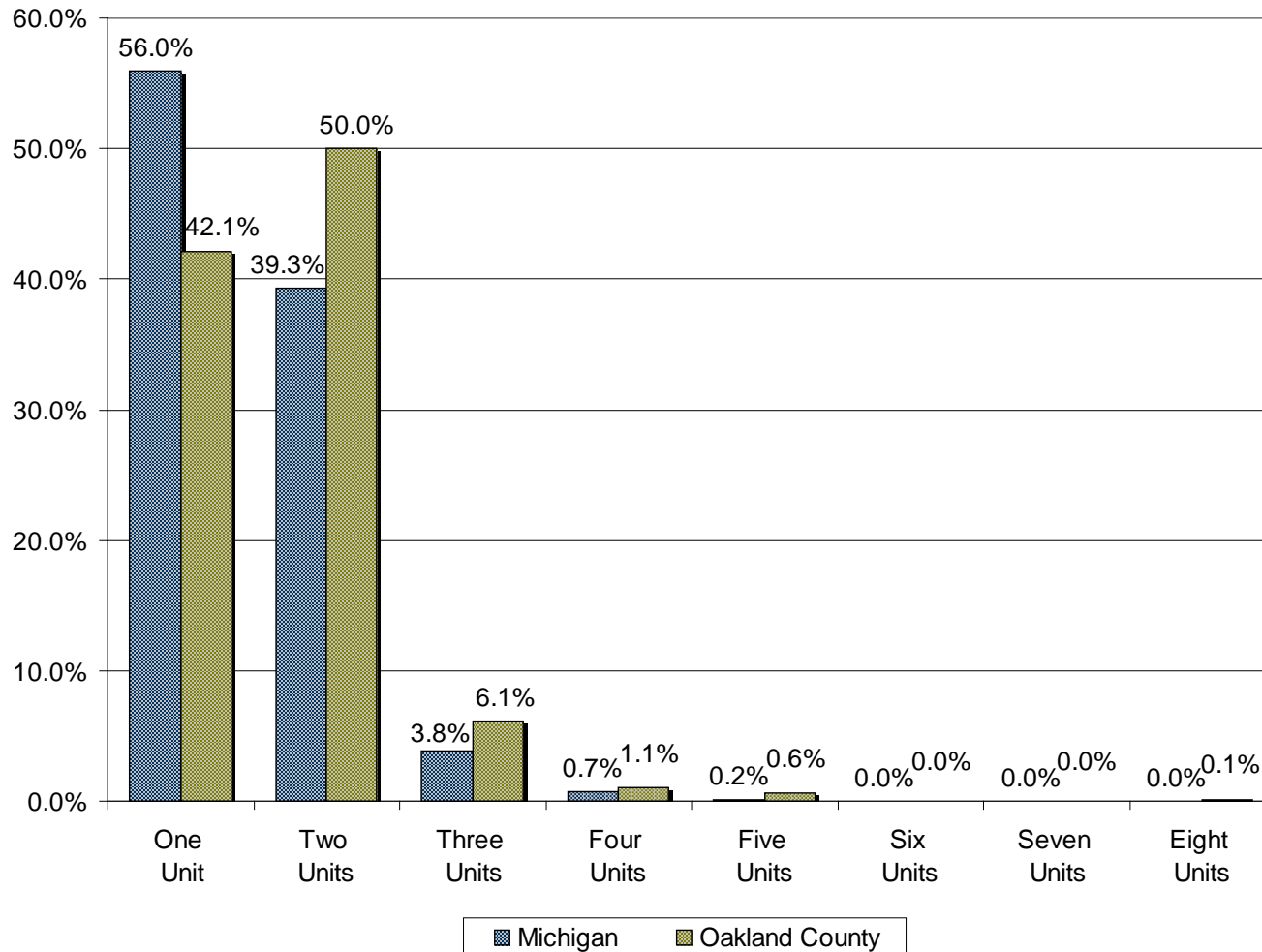
Source: Michigan Office of Highway Safety Planning

HBD Crashes by Speed Limit, Michigan and Oakland County, 2008



Source: Michigan Office of Highway Safety Planning

Number of Units in HBD Crashes, Michigan and Oakland County, 2008

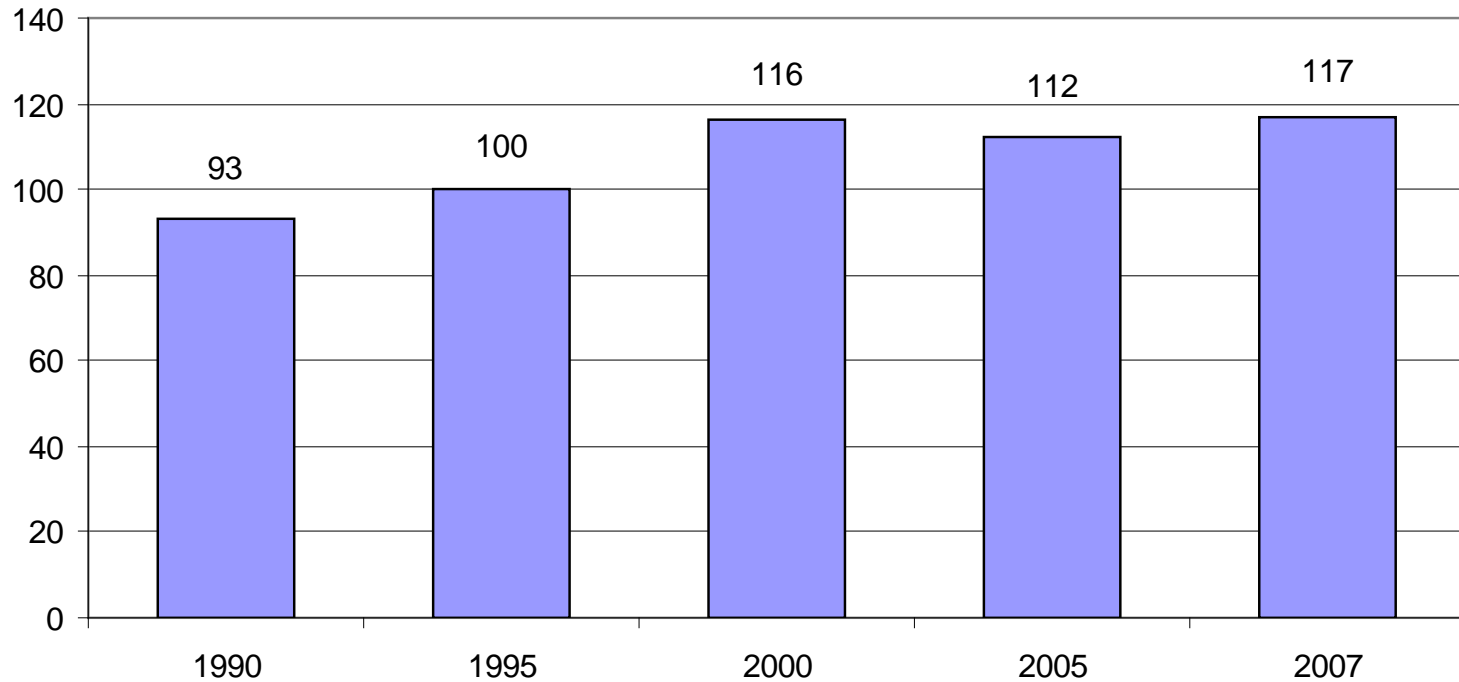


Source: Michigan Office of Highway Safety Planning

Health Impact - Alcohol

- The number of deaths attributed to Chronic Liver Disease has increased over the past two decades.
- In 2007, 117 Oakland County residents recorded deaths due to Chronic Liver Disease.
- While the rate of Chronic Liver Disease deaths since 1990 has decreased slightly for Oakland County residents, the statewide rate has decreased significantly.

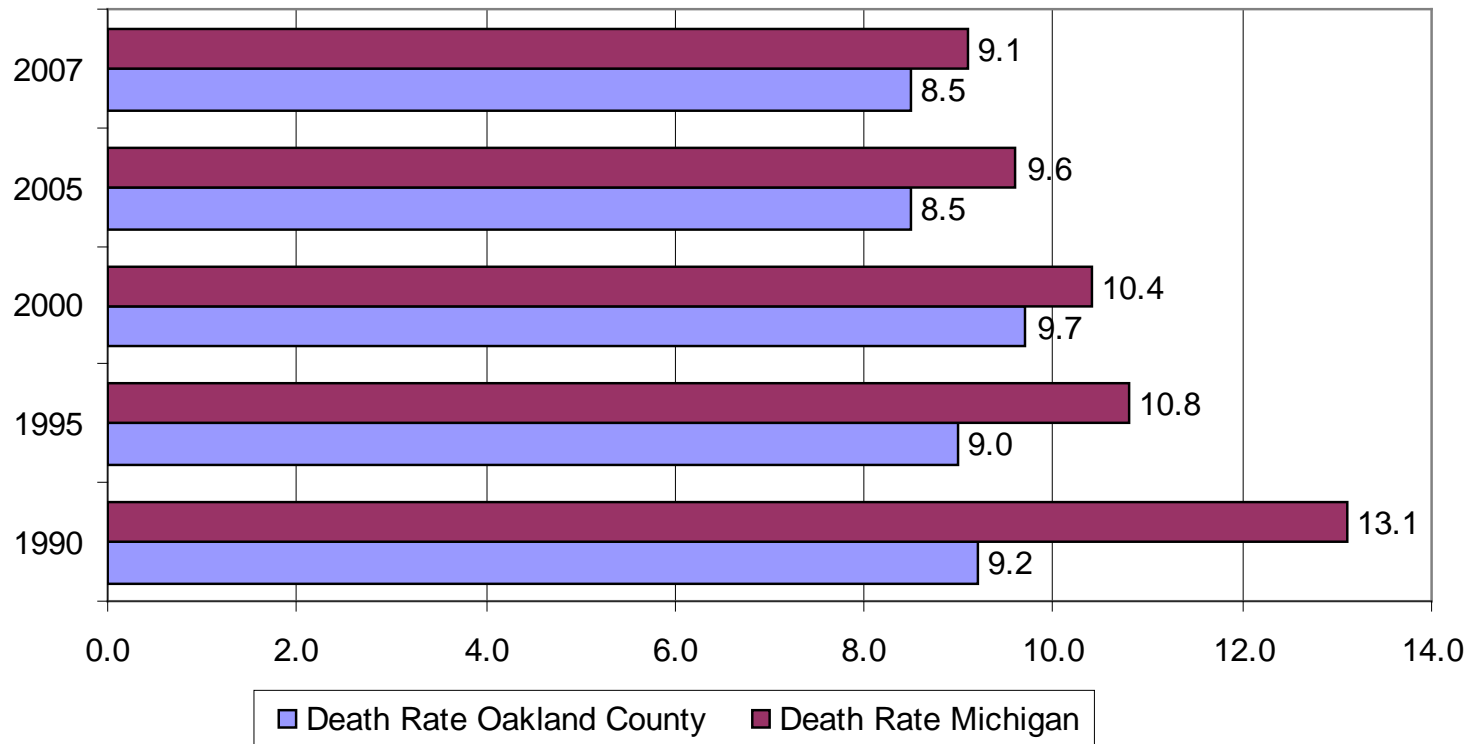
Chronic Liver Disease Deaths, Oakland County, 1990-2007



Source: Office of the State Registrar, MDCH.

Chronic Liver Disease Death Rates, Oakland County and Michigan, 1990-2007

Death Rate per 100,000 Population



Source: Office of the State Registrar, MDCH.



Oakland County Health Division Strategic Prevention Framework (SPF)

Drug Use Data

Illegal Substances – Adult

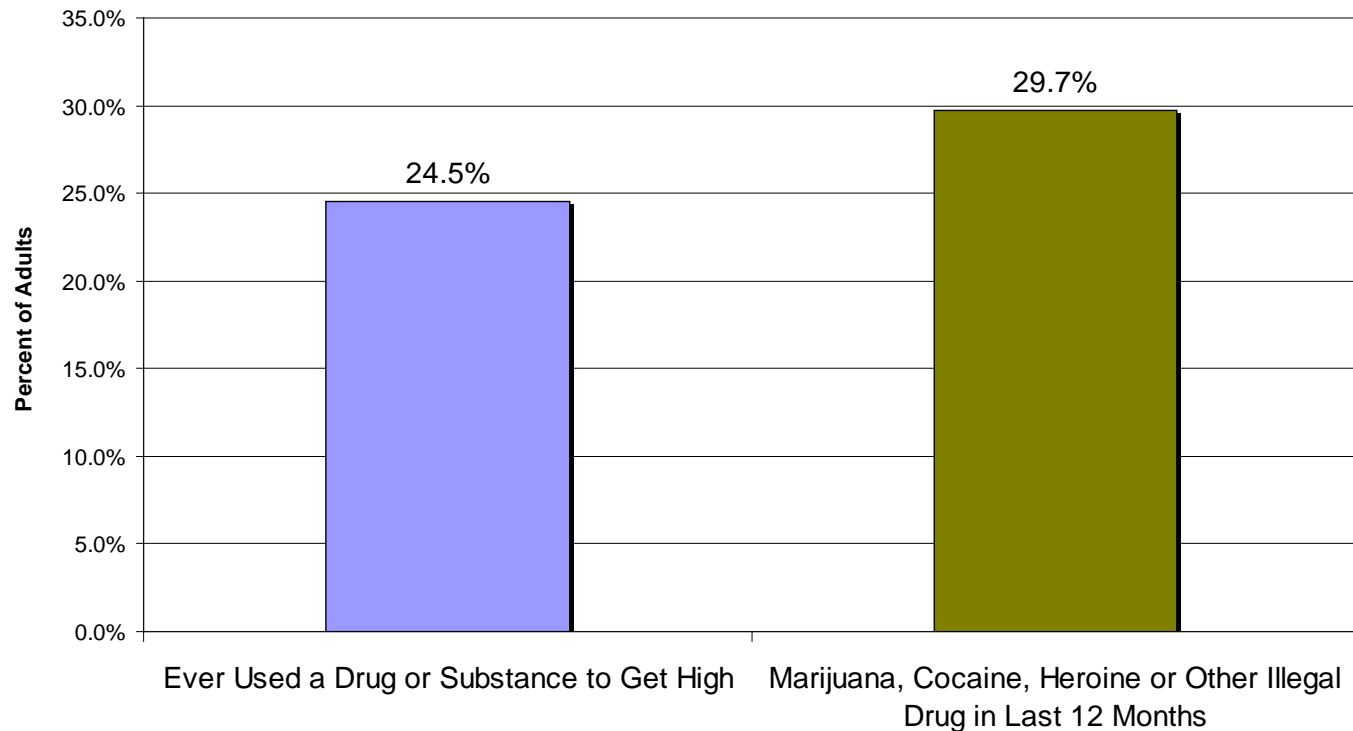
Illegal Substances – Youth

Publicly Funded Treatment

Illicit Drug Use - Adults

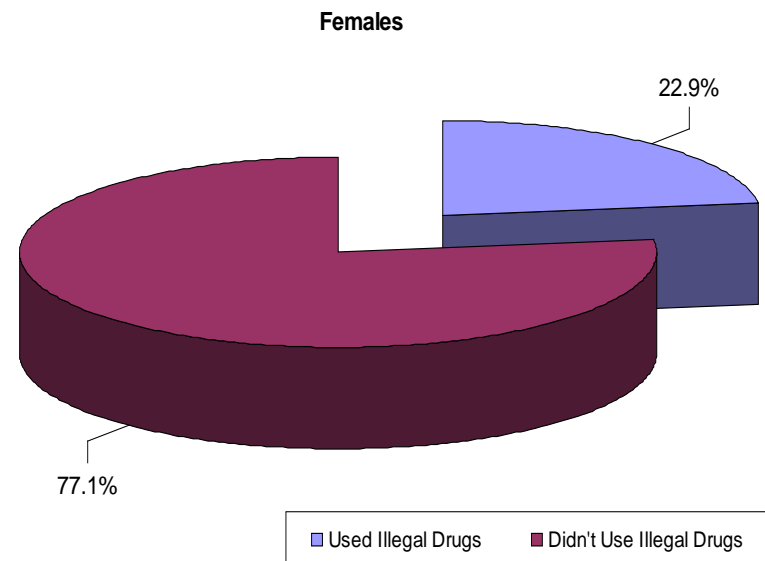
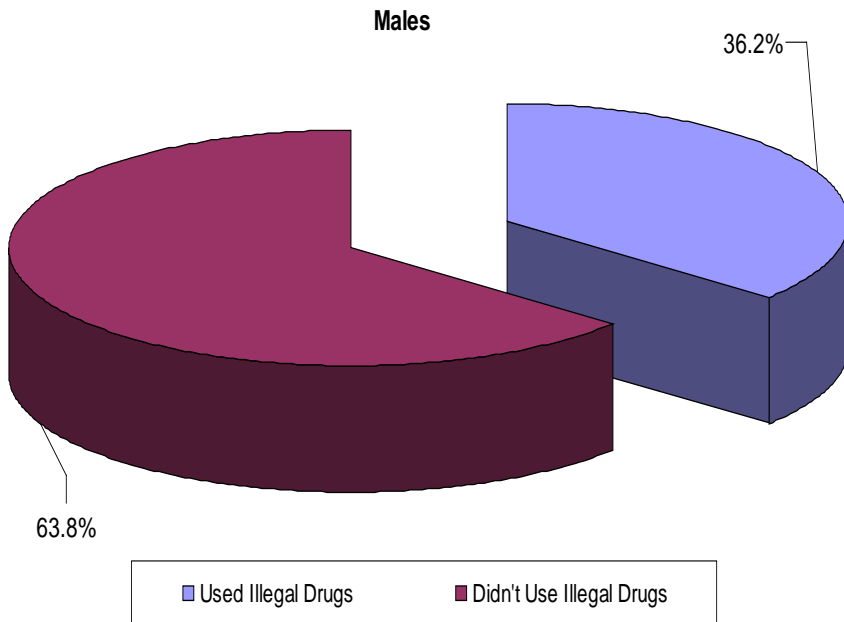
- During 2007, nearly 30% of the adults surveyed reported using an illegal drug in the past 12 months.
- Reported drug use by males was significantly higher than by females.
- Drug use also varied significantly by income, with persons with household income under \$50,000 per year reporting significantly higher rates.

Adult Drug Use Reported by Oakland County Residents, 2007



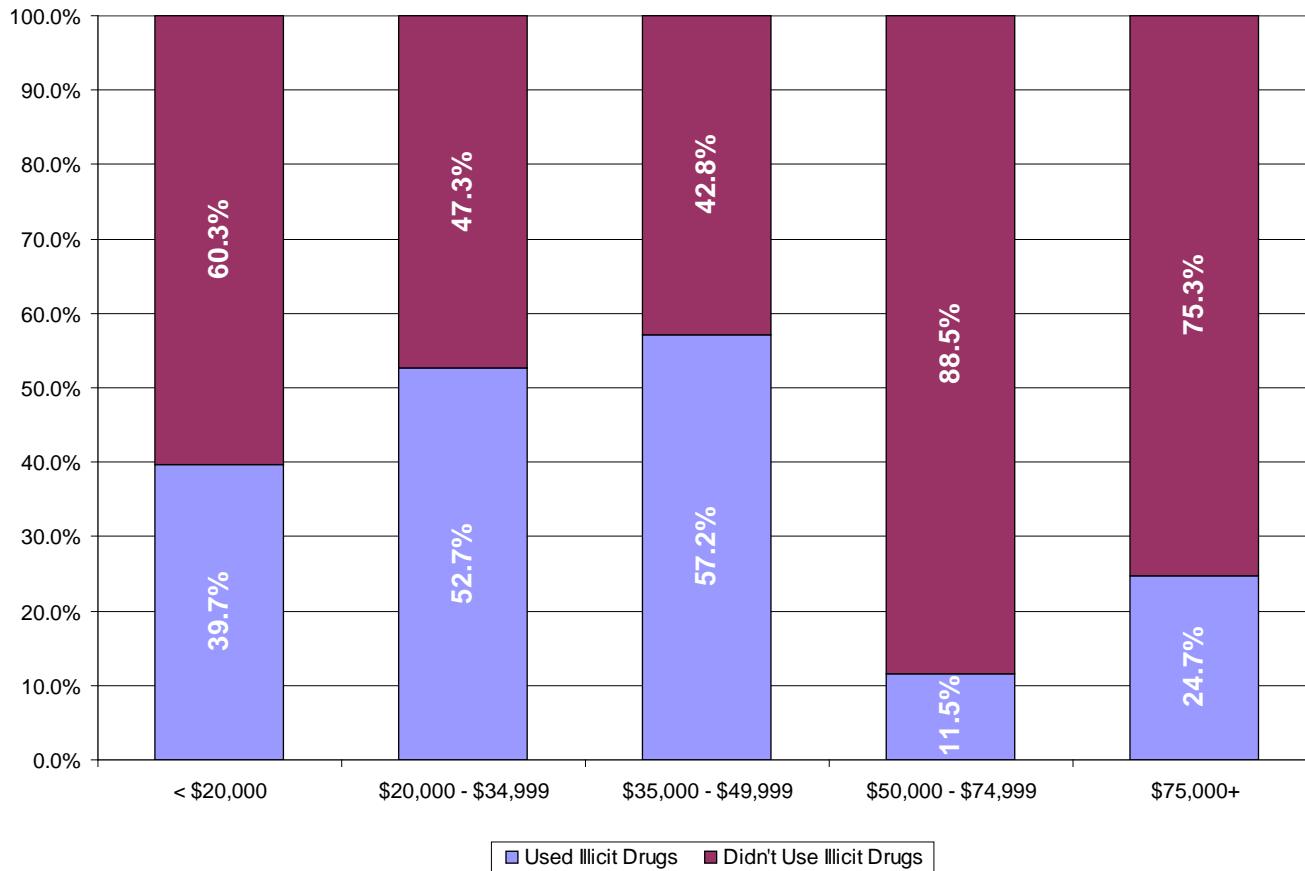
Source: Oakland Community Survey, 2007.

Adult Illicit Drug Use by Gender, Oakland County, 2007



Source: Oakland Community Survey, 2007

Adult Illicit Drug Use by Income, Oakland County, 2007



Source: Oakland Community Survey, 2007

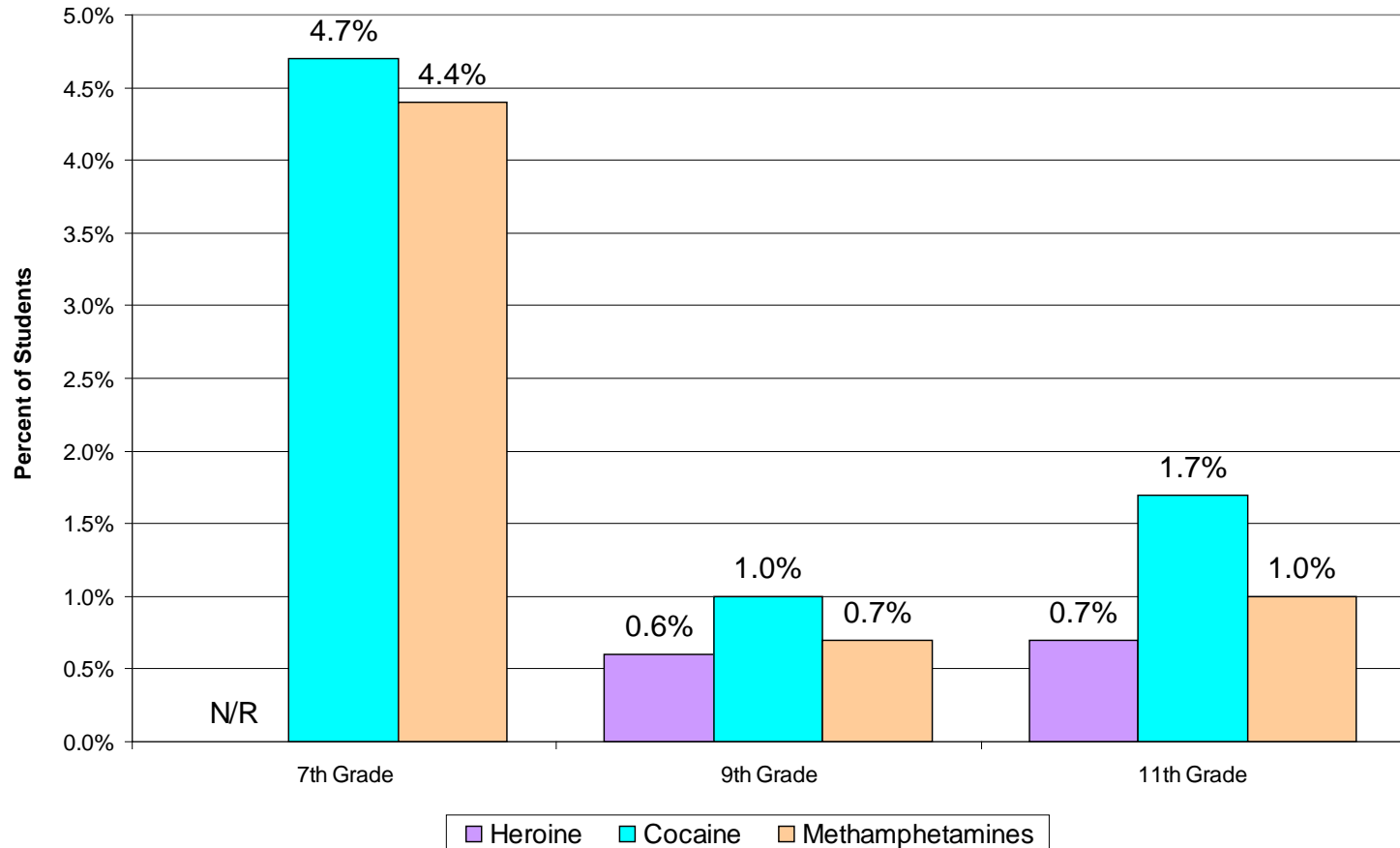
Illicit Drug Use - Youth

- Illegal drug use among high school students is relatively low for heroine and methamphetamines.
- Reported misuse of prescription drugs, use of inhalants, club drug use, and marijuana are higher.
- Marijuana use before age 13 was reported by nearly one-quarter of 11th graders.
- Lifetime needle use was reported by 4% of 7th graders.

Illicit Drug Use - Youth

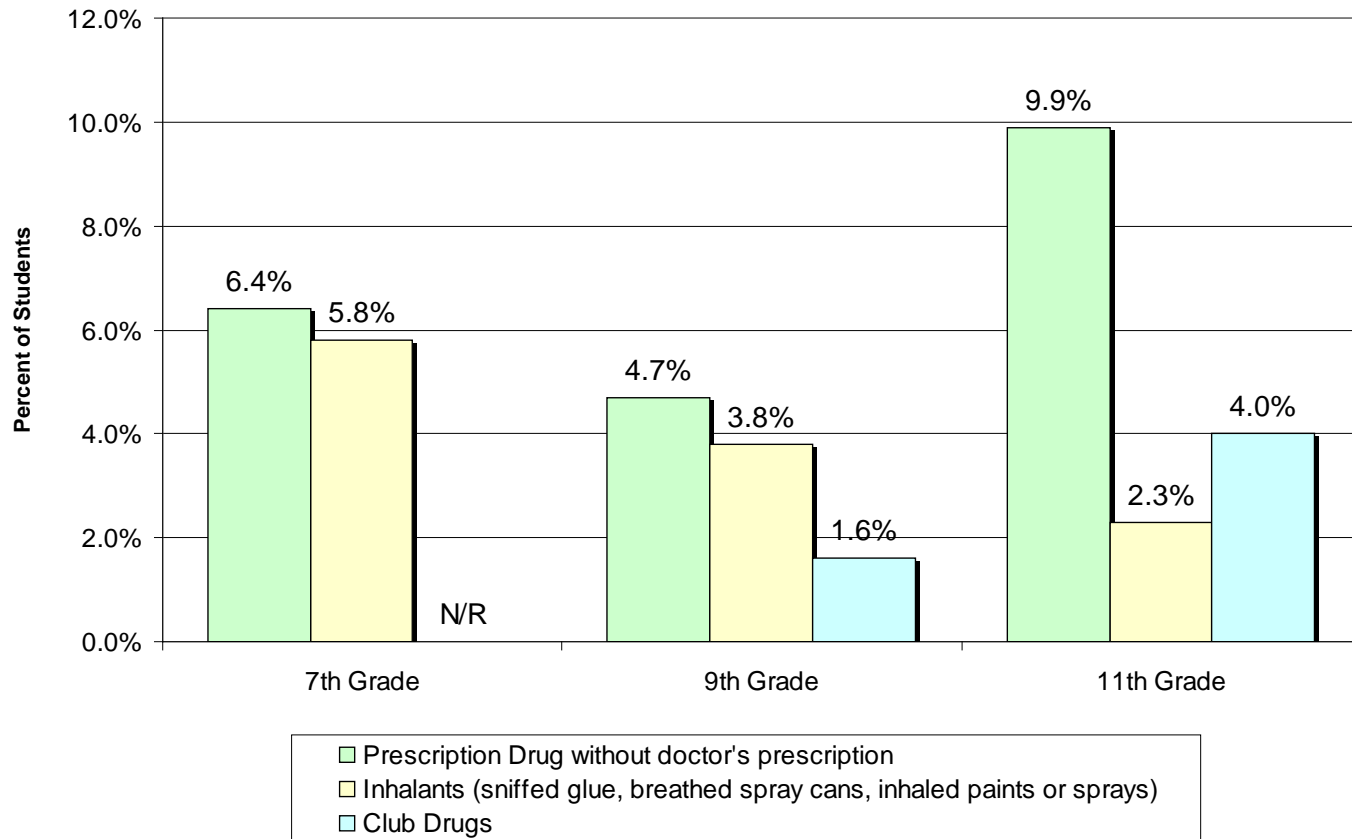
- Drug exchange on school property was significant, reported by 25% of 11th graders.
- Commitment by students to staying drug free decreases with time.
- Students report access to alcohol, cigarettes, and marijuana increases with age.
- Students perception of parental disapproval of alcohol, drug, and cigarette use decreases slightly with age.

Use of Heroin, Cocaine and Methamphetamines in Past 30 Days (*7th Grade - Ever*) Oakland County Students, 2008



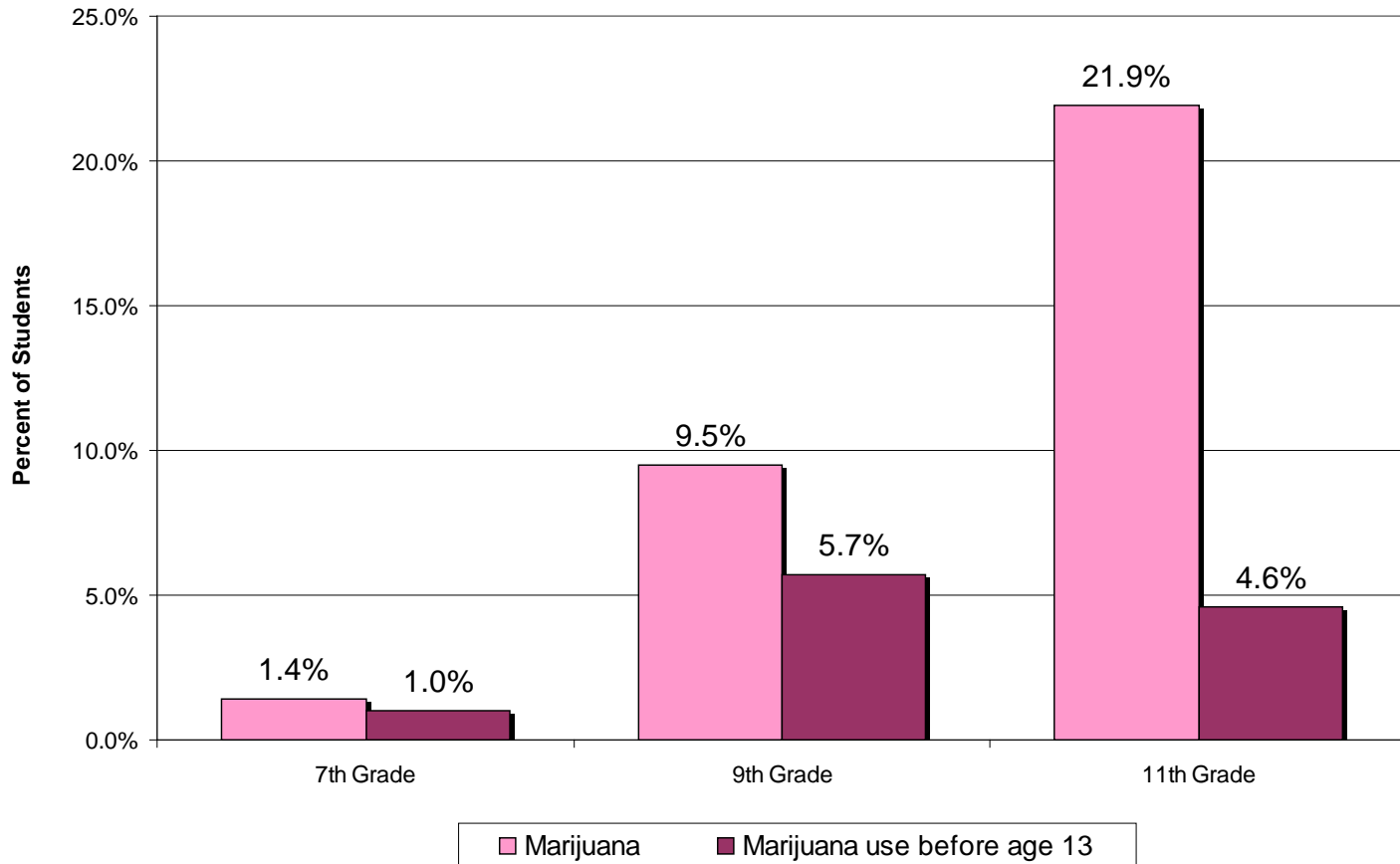
Source: Michigan Profile for Healthy Youth, 2008.

Misuse of Prescription Drugs (*7th Grade - Ever*), Inhalants, and Club Drugs in Past 30 Days, Oakland County Students, 2008



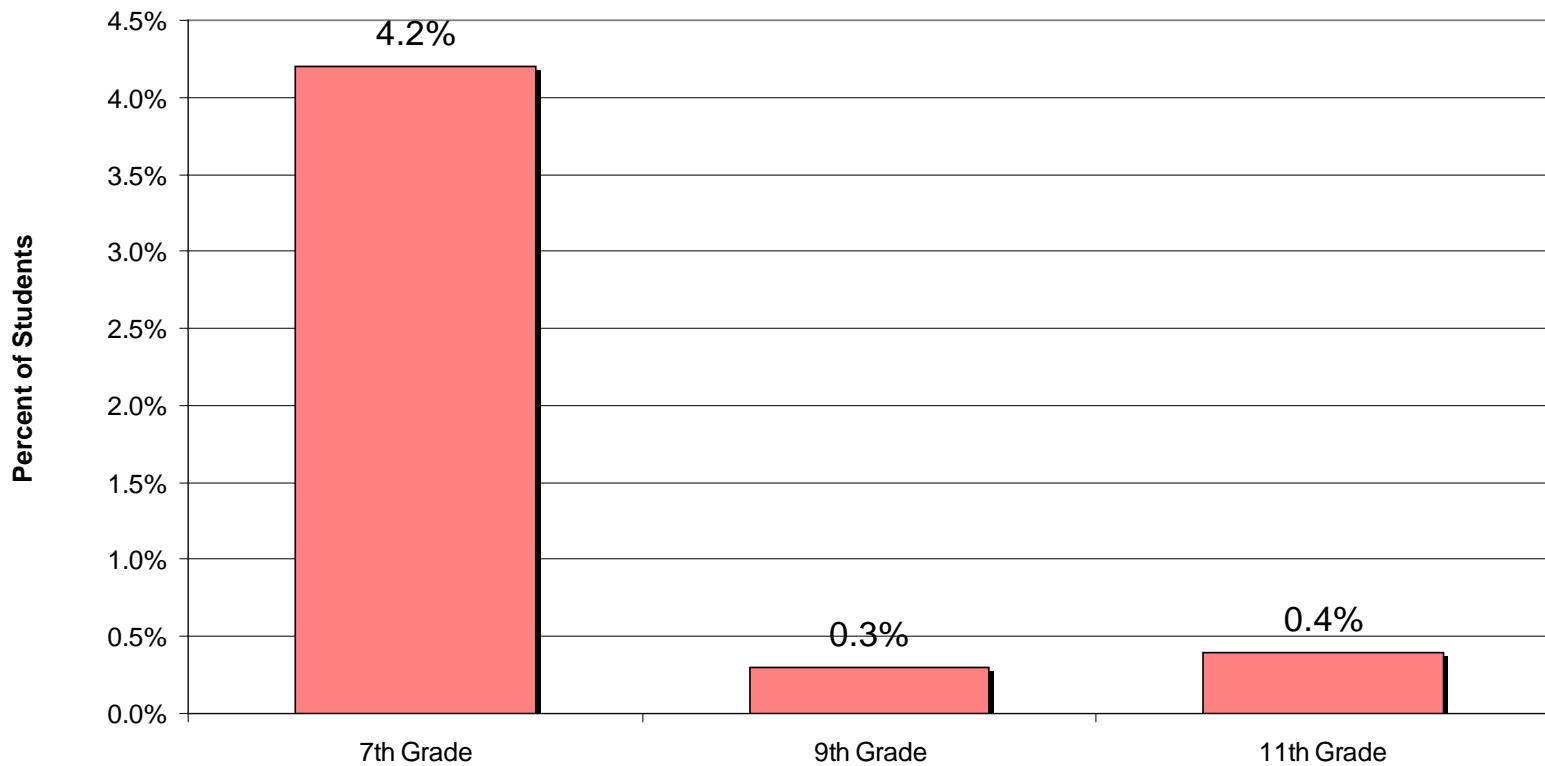
Source: Michigan Profile for Healthy Youth, 2008.

Use of Marijuana, and Marijuana Use before Age 13 (*7th Grade - Age 11*), Oakland County Students, 2008



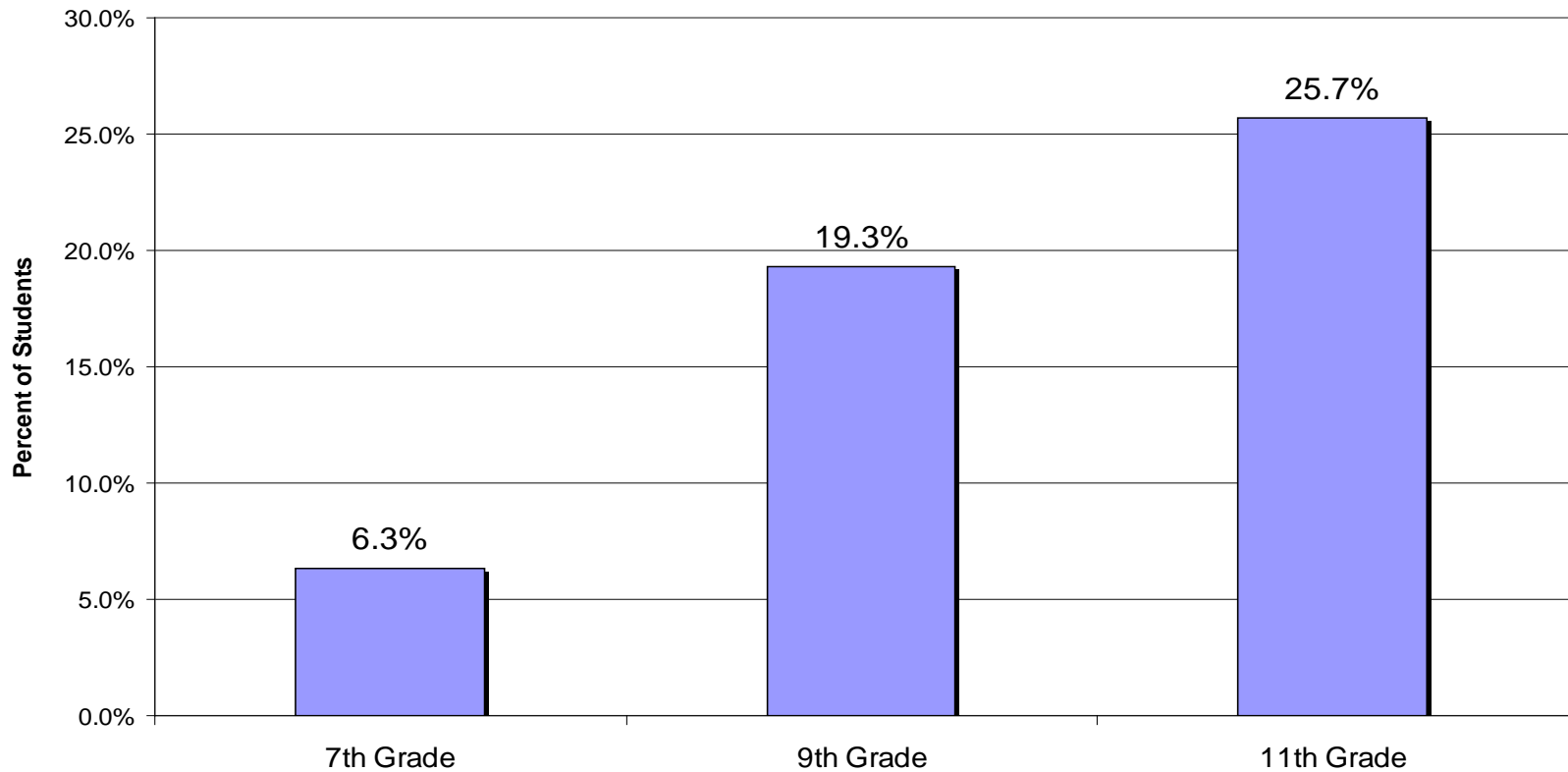
Source: Michigan Profile for Healthy Youth, 2008.

One or More Needle Injections in Past 30 Days (7th Grade - Ever), Oakland County Students, 2008



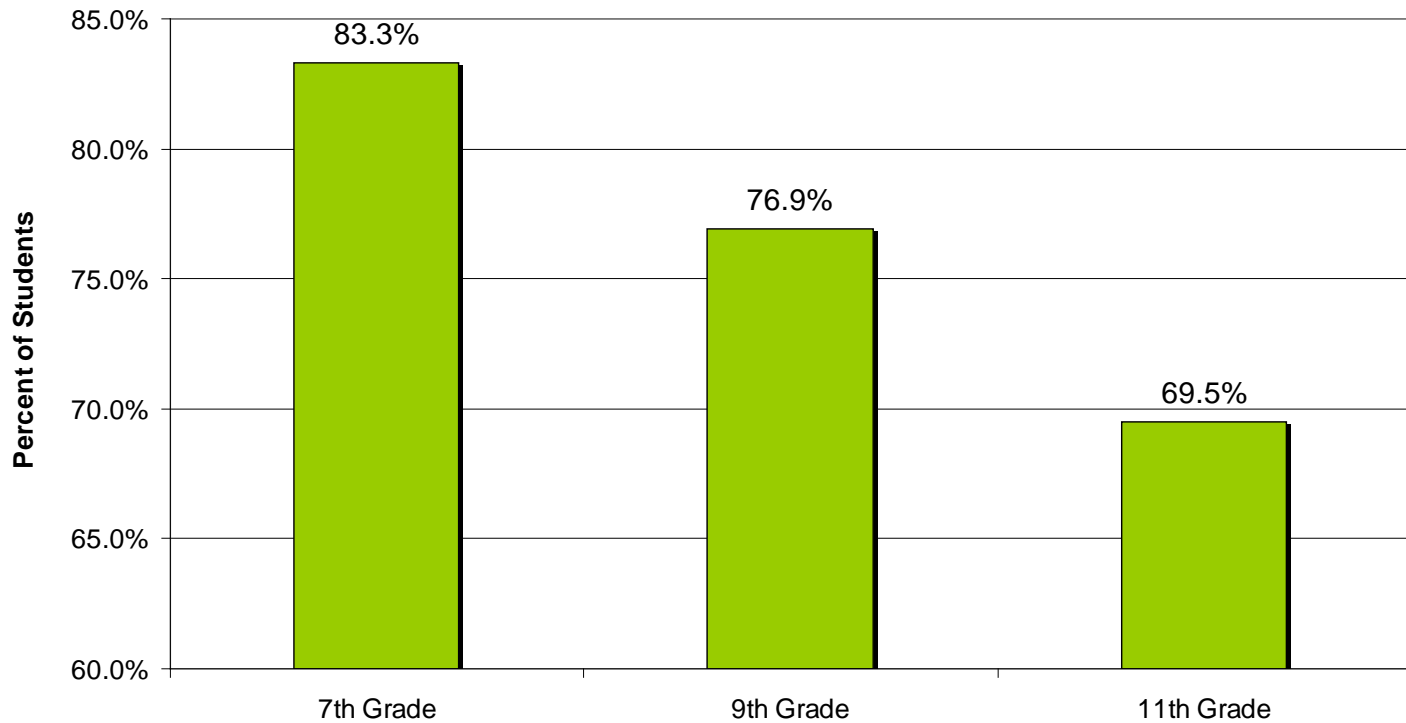
Source: Michigan Profile for Healthy Youth, 2008.

Youth Reporting Illegal Drug Exchange on School Property, Oakland County Students, 2008



Source: Michigan Profile for Healthy Youth, 2008.

Students Reporting Having at Least One Best Friend Committed to Staying Drug Free During Past Year, Oakland County Students, 2008



Source: Michigan Profile for Healthy Youth, 2008.

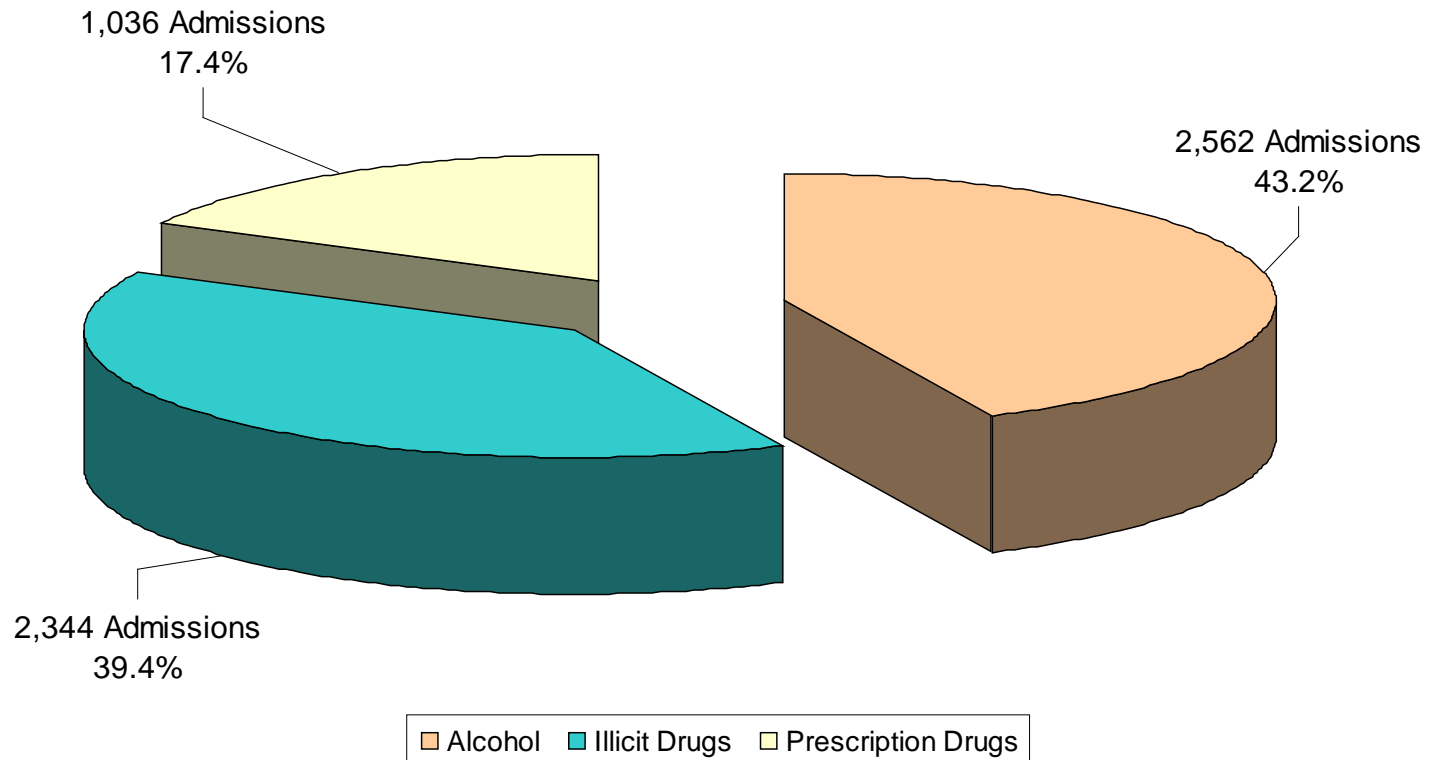
Publicly Funded Substance Abuse Treatment

- Treatment of youth (age 0-17 years) for illicit drugs and misuse of prescription drugs has increased significantly.
- Treatment of adults for misuse of prescription drugs has increased significantly.
- Over one-half of substance abuse admissions are for persons age 18-35.
- Mental health disorders were reported as a factor in treatment for over 38% of admissions in 2008.
- Alcohol treatment represented nearly one-half of all treatment.

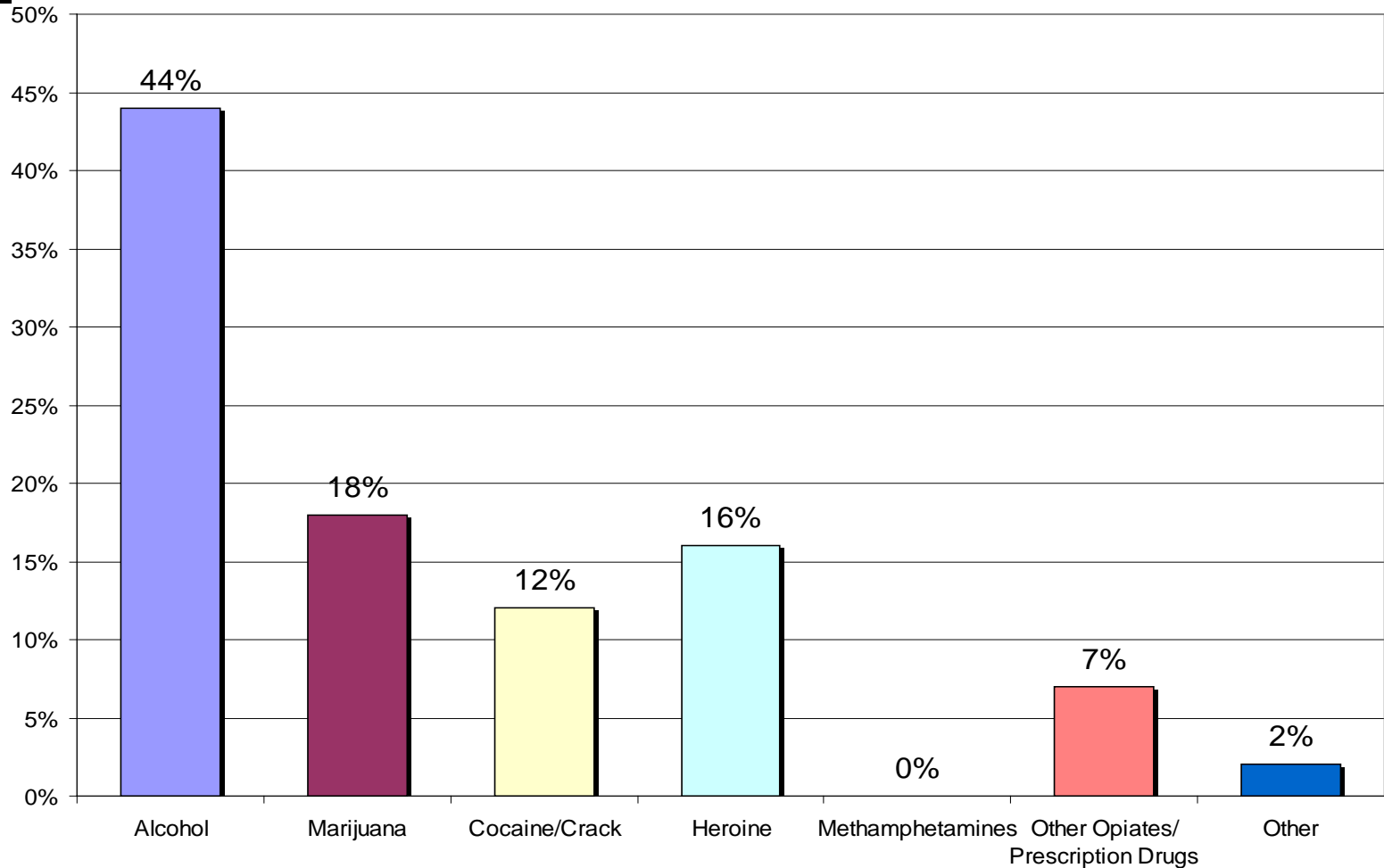
Publicly Funded Substance Abuse Treatment Client Profile, Oakland County 2008

- 74% Living independently
- 73% High school education or higher
- 32% Employed
- 2% Report income greater than \$30,000
- 41% on Probation
- 310 involved in Drug Court

Publicly Funded Substance Abuse Treatment Admissions by Type of Substance, Oakland County 2008

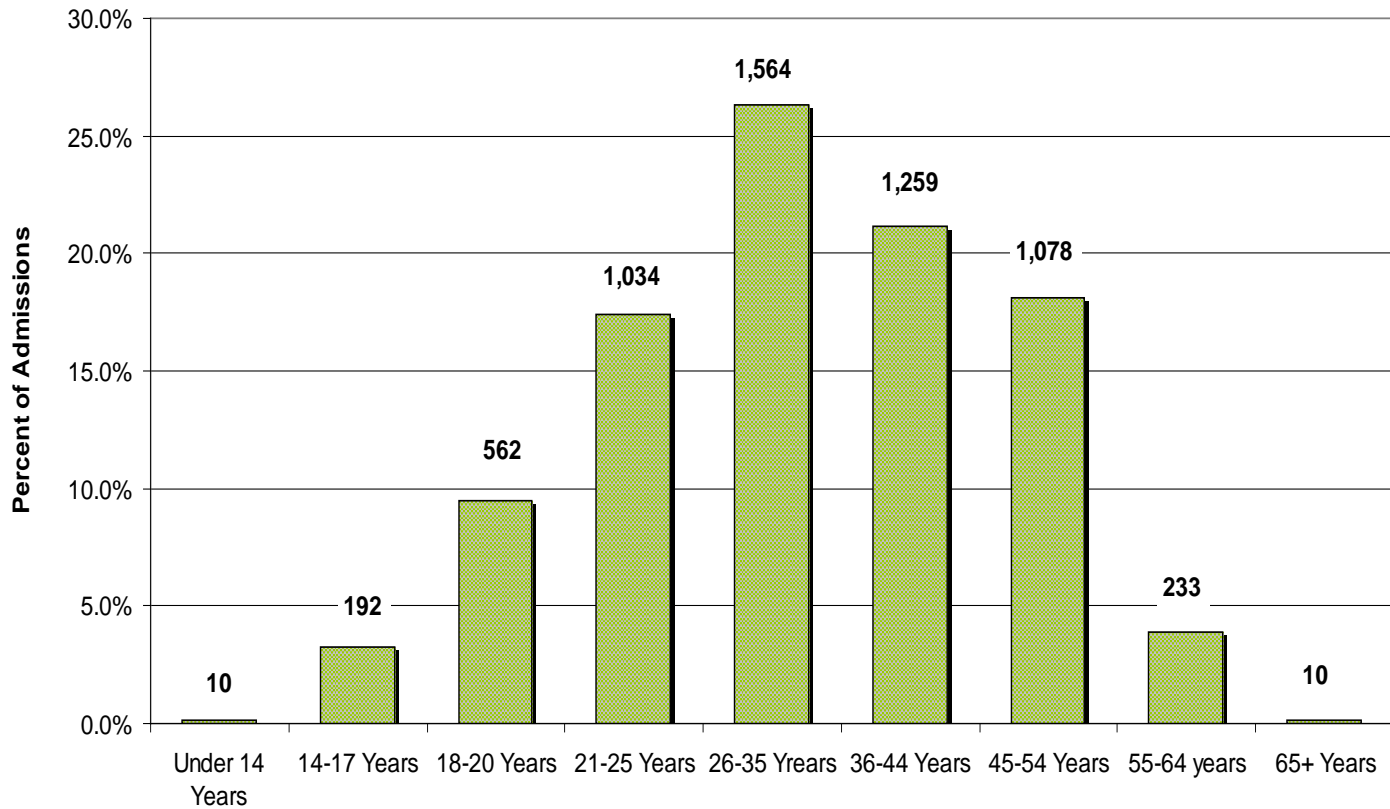


Publicly Funded Substance Abuse Treatment Admissions by Type, Oakland County, 2008

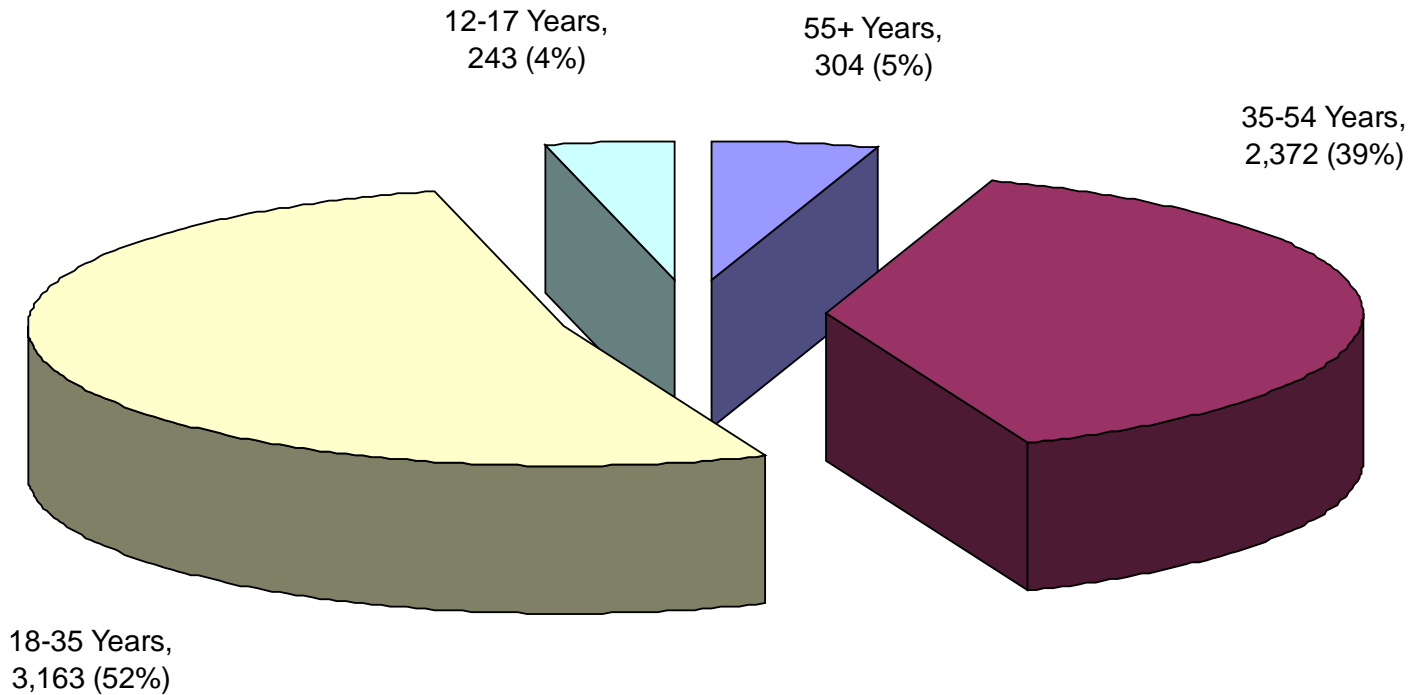


Source: Office of Drug Control Policy, MDCH.

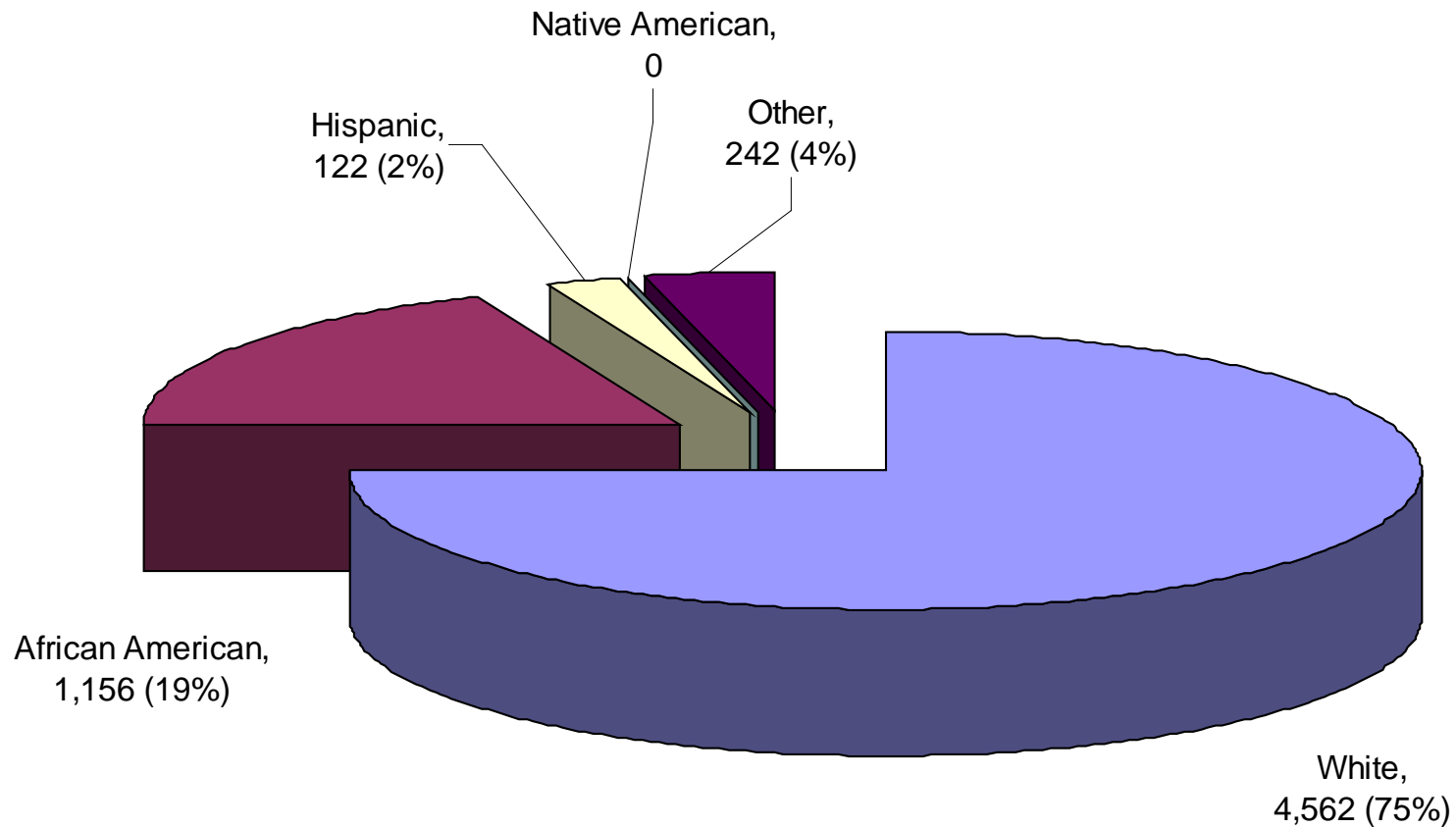
Publicly Funded Substance Abuse Treatment Program Admissions by Age, Oakland County, 2008



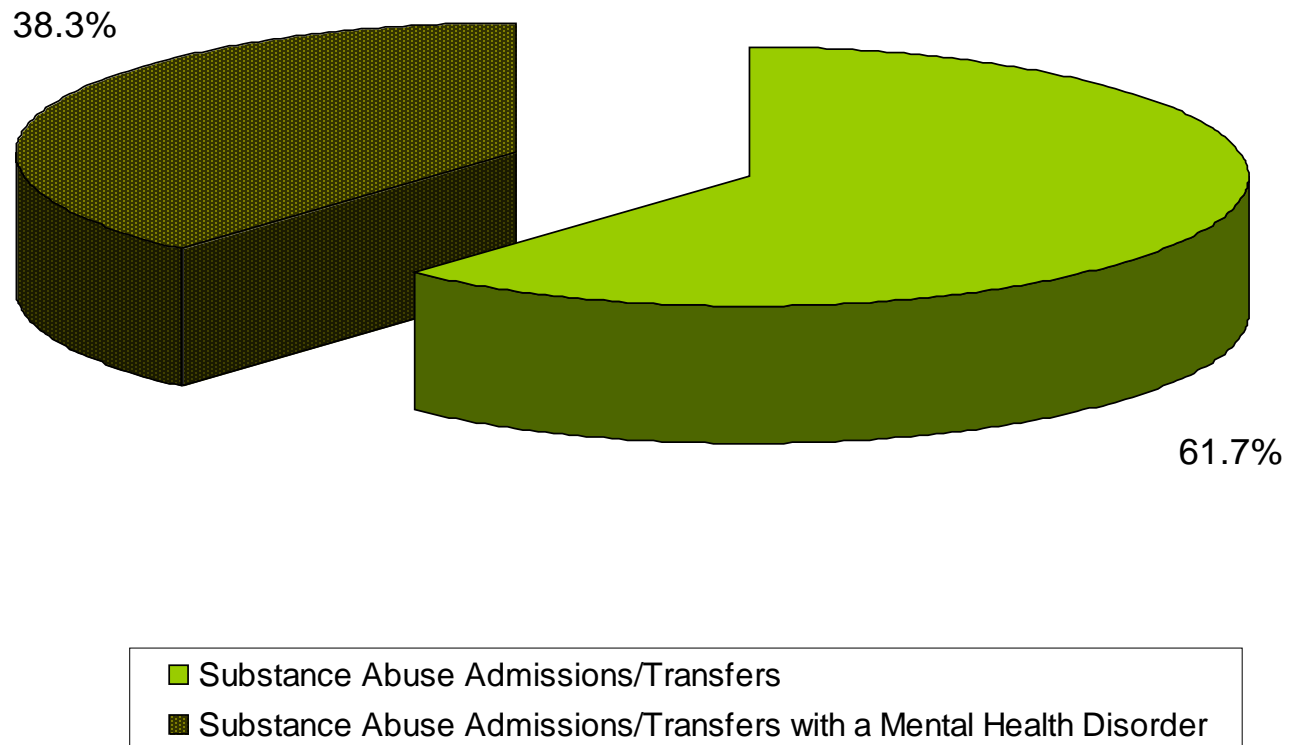
Publicly Funded Substance Abuse Treatment Clients by Age, Oakland County, 2008



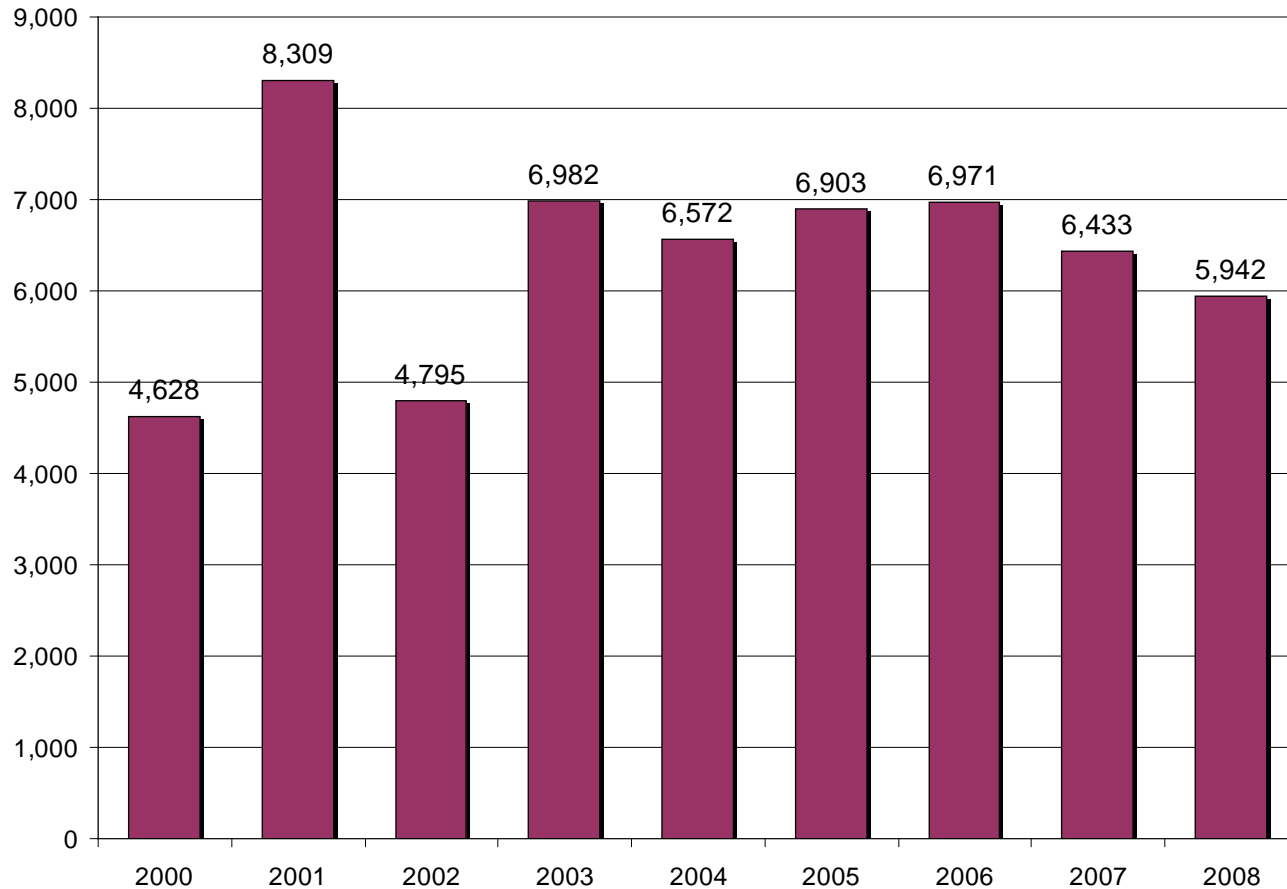
Publicly Funded Substance Abuse Treatment Clients by Race, Oakland County, 2008



Publicly Funded Substance Abuse Treatment Admits/Transfers with Mental Health Disorder, Oakland County, 2008

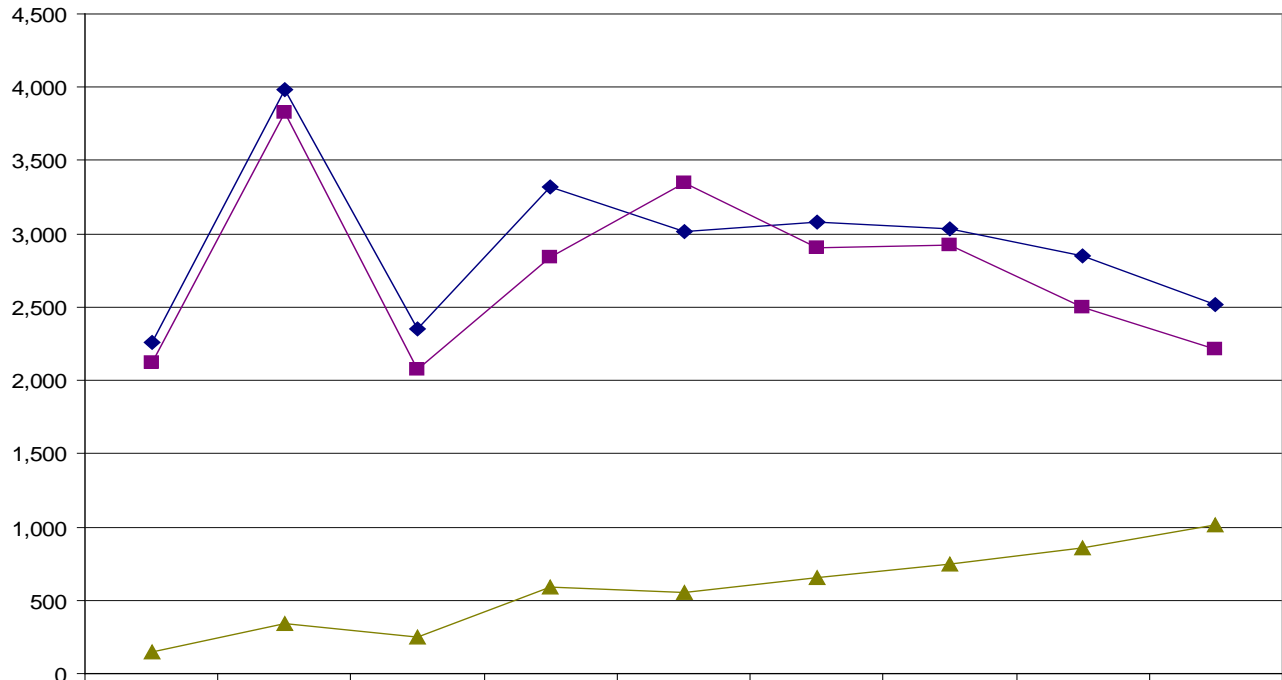


Publicly Funded Substance Abuse Clients, Oakland County, 2000-2008



Source: Office of Drug Control Policy, MDCH.

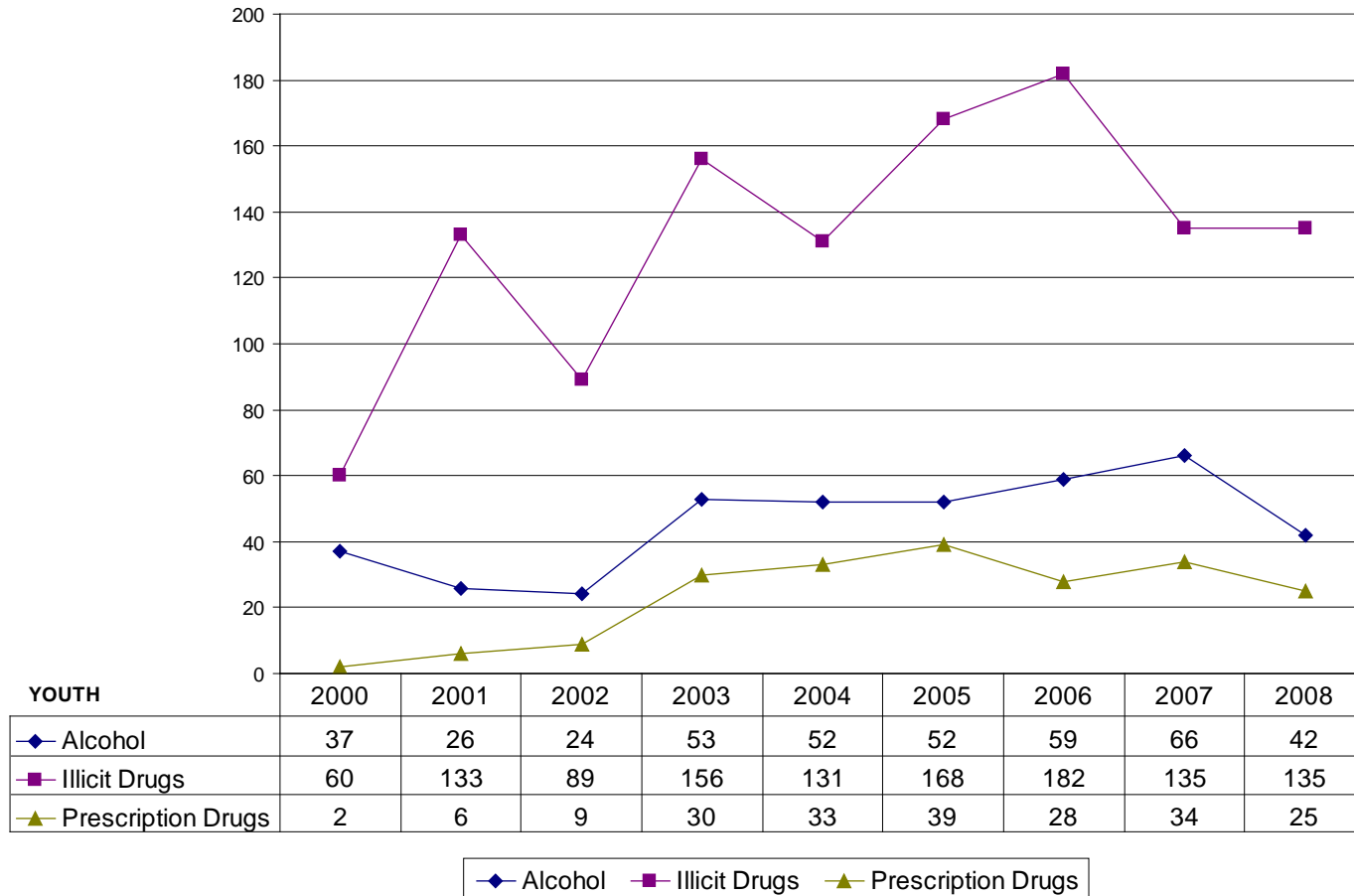
Publicly Funded Substance Abuse Treatment Adult Admissions, Oakland County, 2000-2008



ADULTS	2000	2001	2002	2003	2004	2005	2006	2007	2008
◆ Alcohol	2,260	3,981	2,351	3,320	3,012	3,079	3,034	2,845	2,520
■ Illicit Drugs	2,121	3,824	2,073	2,837	3,344	2,909	2,922	2,499	2,209
▲ Prescription Drugs	148	339	249	586	553	656	746	854	1,011

◆ Alcohol ■ Illicit Drugs ▲ Prescription Drugs

Publicly Funded Substance Abuse Treatment Youth Admissions, Oakland County, 2000-2008





Oakland County Health Division Strategic Prevention Framework (SPF)

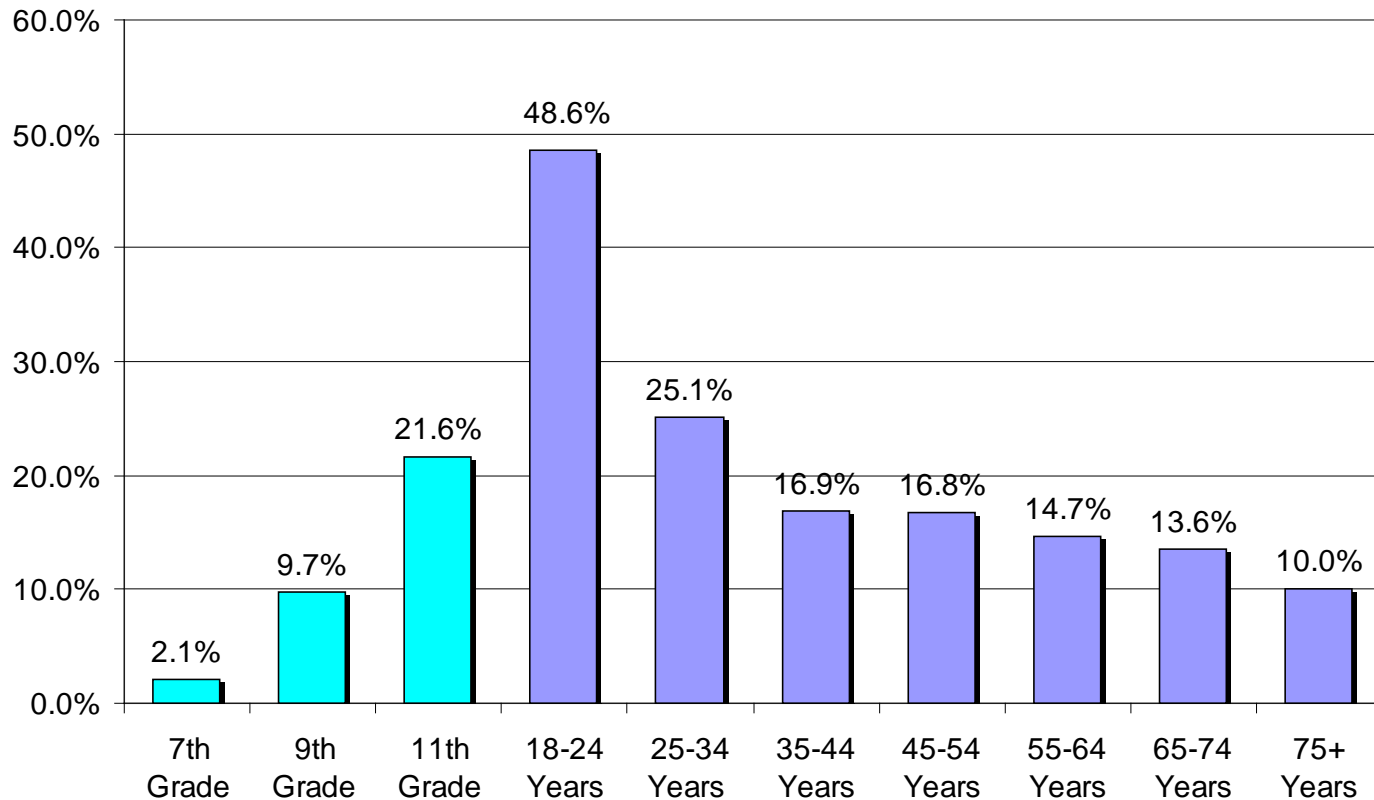
Drug Use Data

Tobacco Use
Health Impact

Smoking in Oakland County

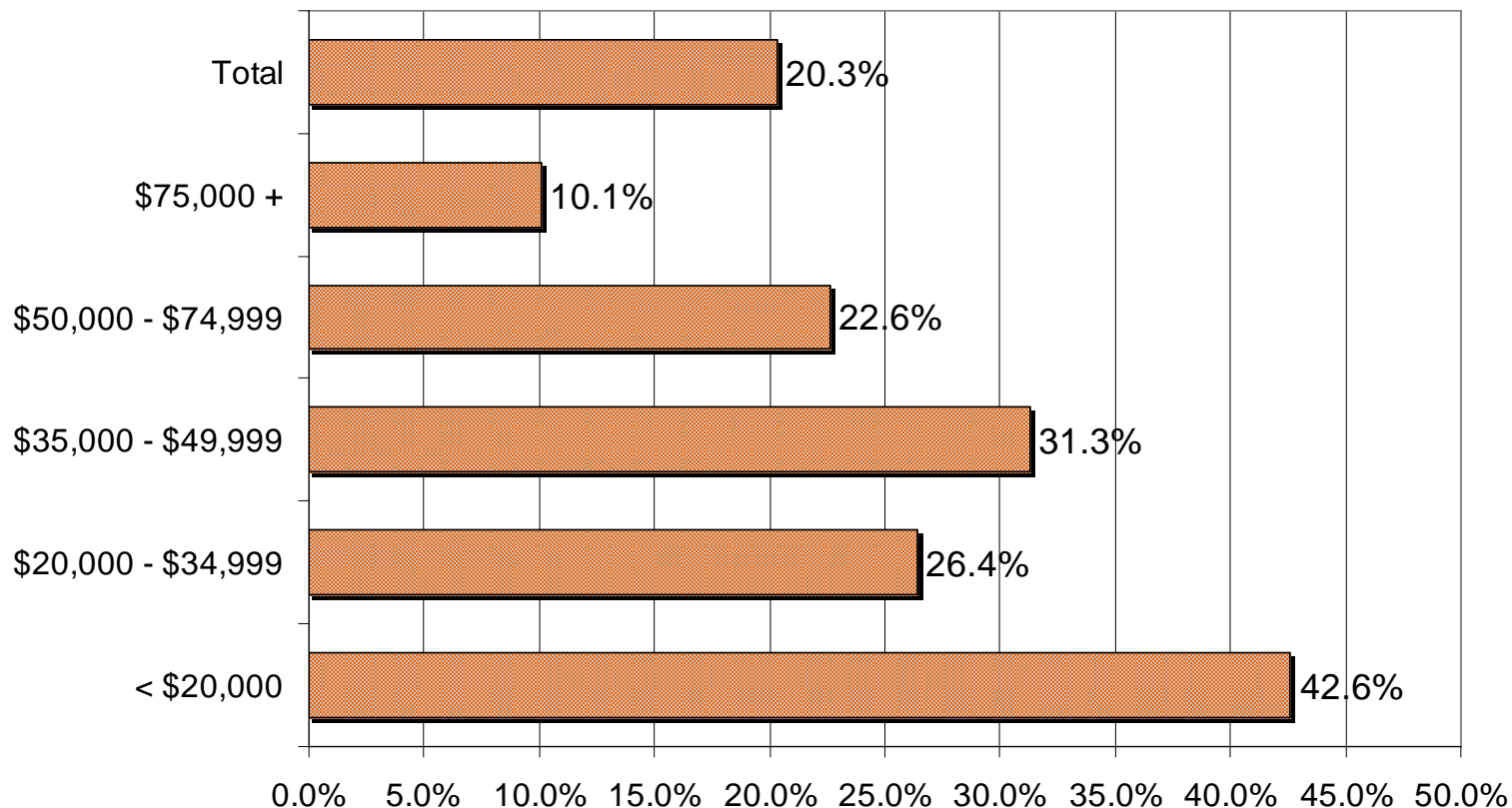
- During 2007, 20.3% of Oakland County survey respondents reported currently smoking tobacco products.
- Smoking begins in the middle school years, peaks in young adulthood, and tails off with age.
- Smoking rates are lower for survey respondents with higher education and income levels.

Smoking by Age Group, Oakland County, 2007 - 2008



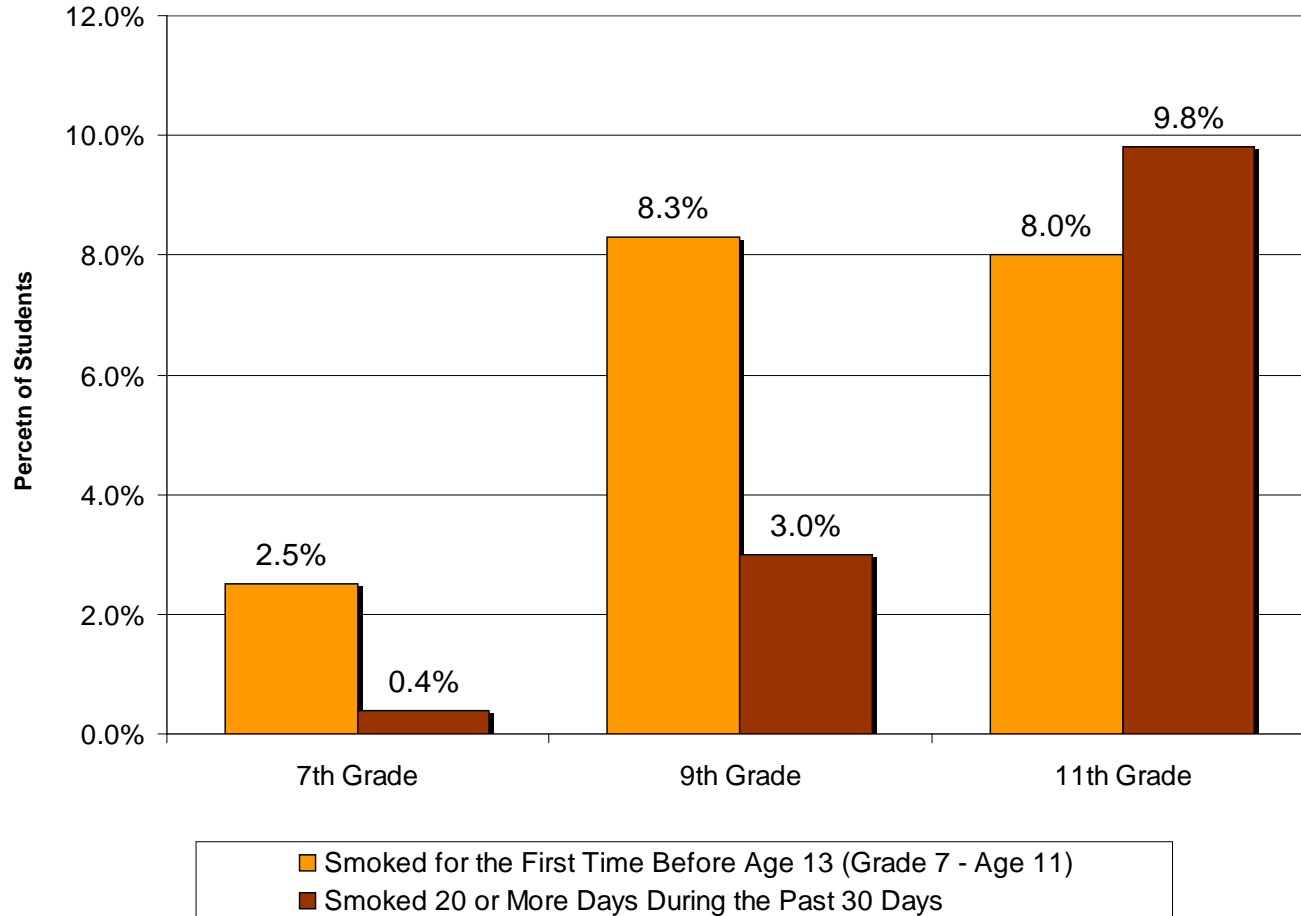
Sources: Oakland Community Survey, 2007; Michigan Profile for Healthy Youth, 2008.

Adult Smokers by Income Group, Oakland County, 2007



Source: Oakland Community Survey, 2007.

Smoking Profile for Students, Oakland County, 2008

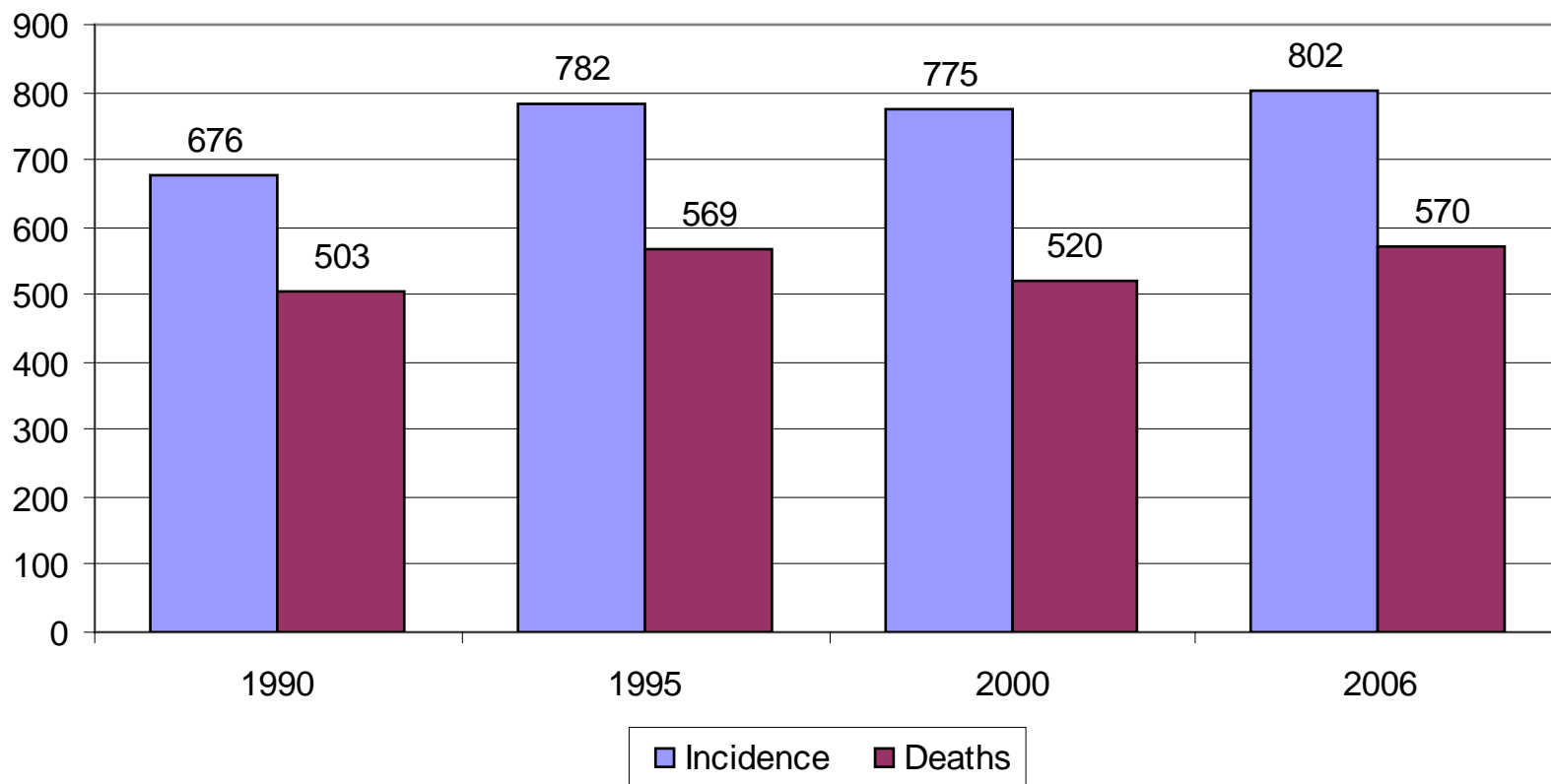


Source: Michigan Profile for Healthy Youth, 2008.

Health Impact - Smoking

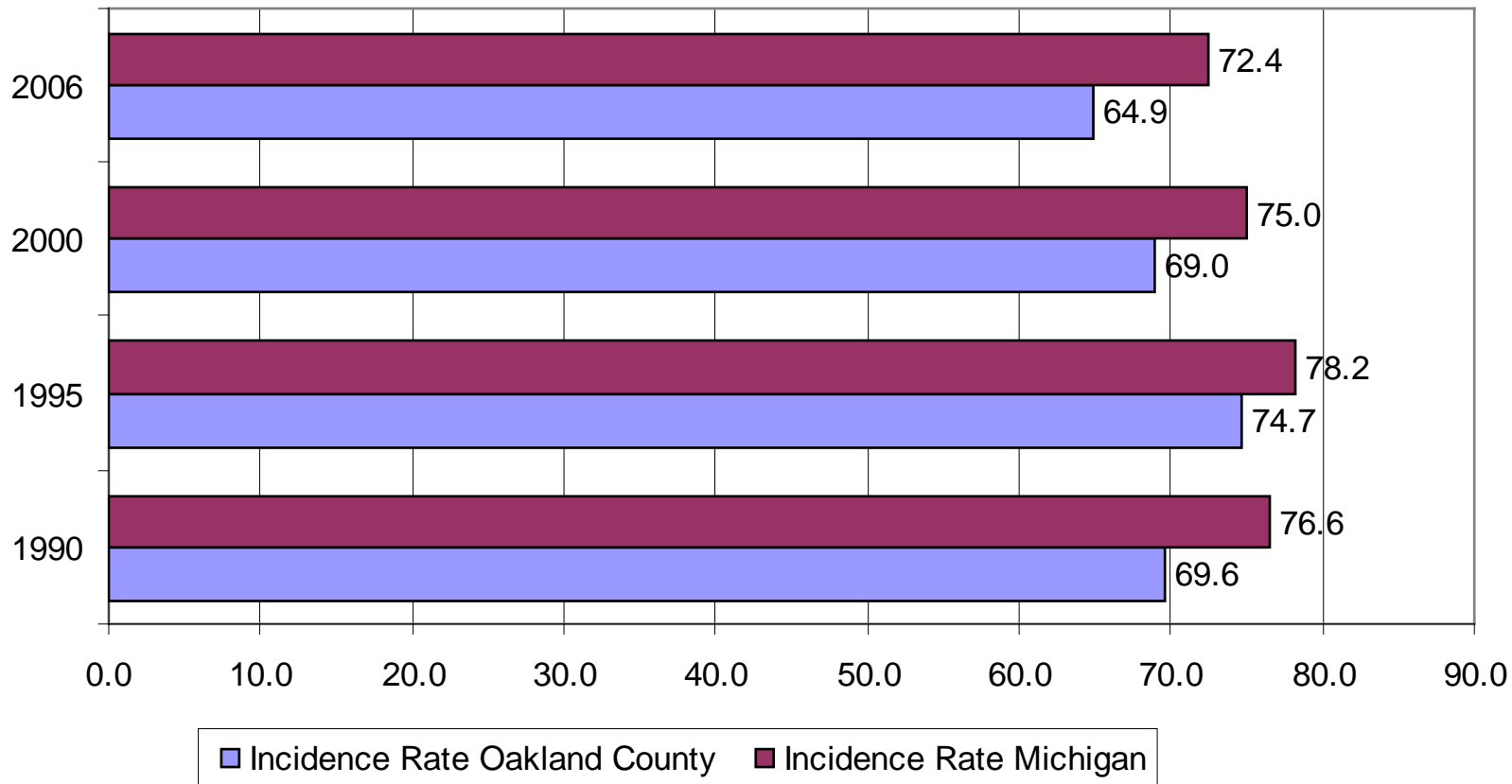
- Deaths from Chronic Lower Respiratory Disease have increased significantly since 1990.
- The death rate in Oakland County for CLPD has been lower than the statewide rate, however, both have increased since 1990.
- The incidence of lung cancer cases have increased since 1990, however, the rate has remained stable and slightly lower than the statewide rate.
- The number of lung cancer deaths have remained stable while the death rate has decreased slightly.

Invasive Lung Cancer Incidence and Deaths, Oakland County, 1990-2006



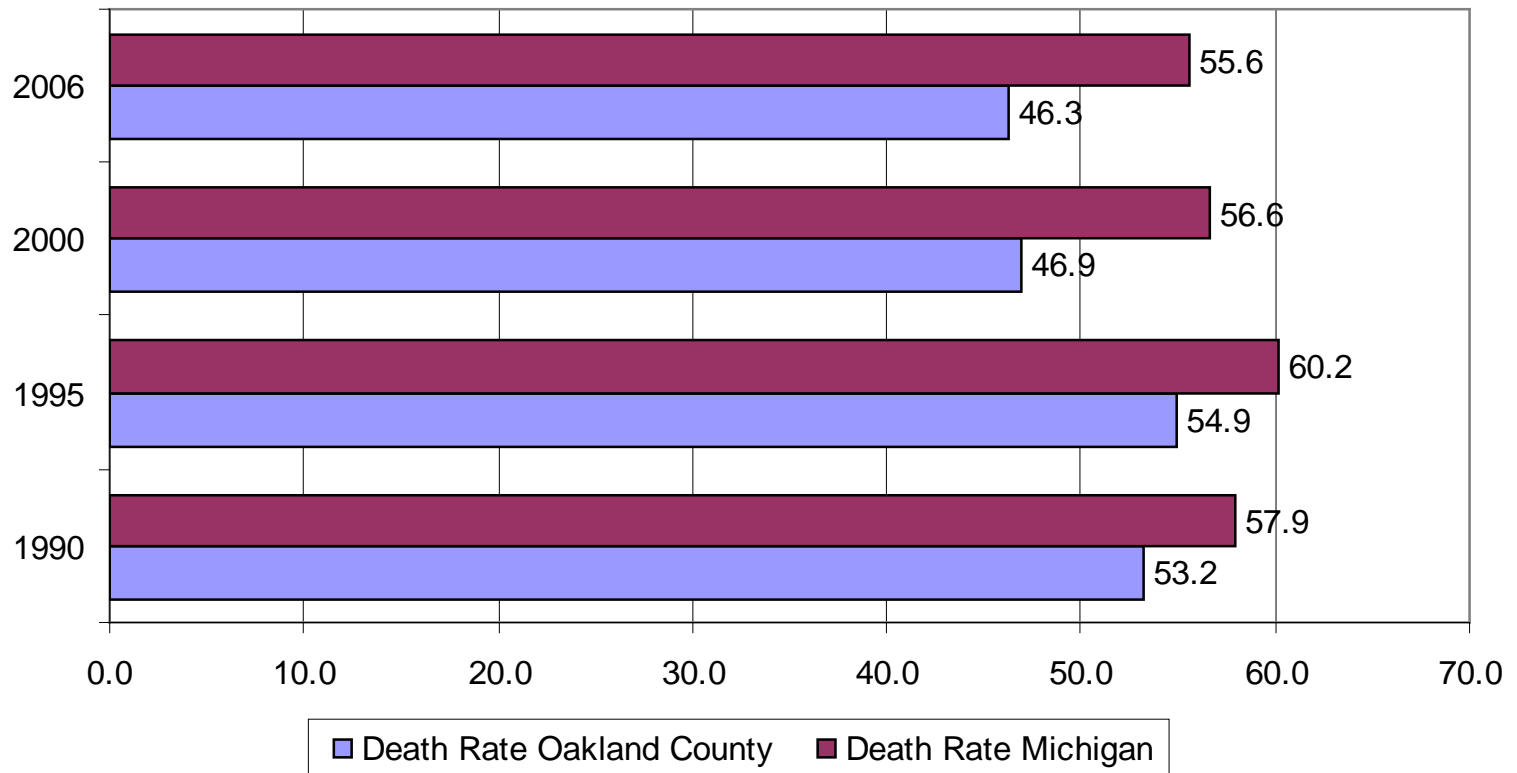
Source: Office of the State Registrar, MDCH.

Invasive Lung Cancer Incidence, Oakland County and Michigan, 1990-2006



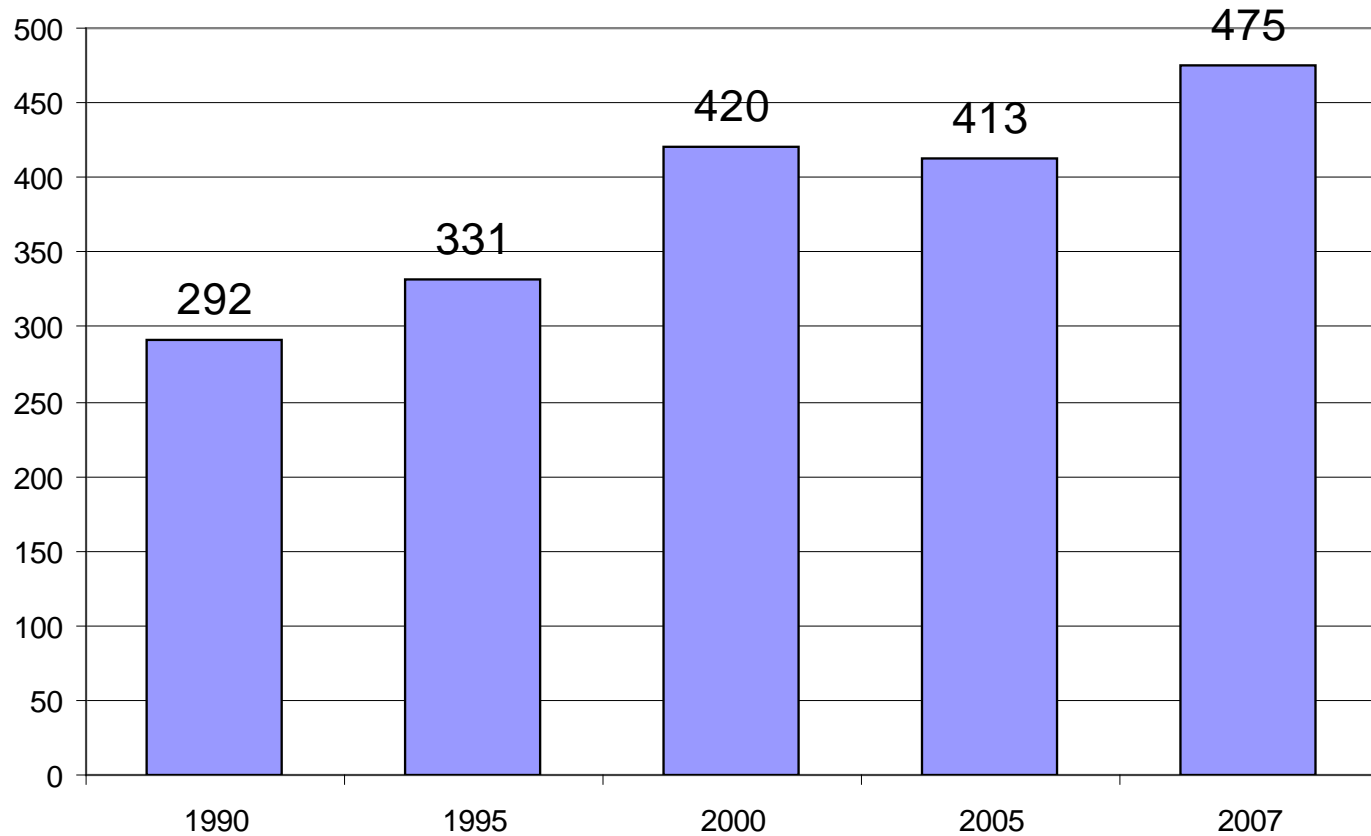
Source: Office of the State Registrar, MDCH.

Invasive Lung Cancer Death Rates, Oakland County and Michigan, 1990-2006



Source: Office of the State Registrar, MDCH.

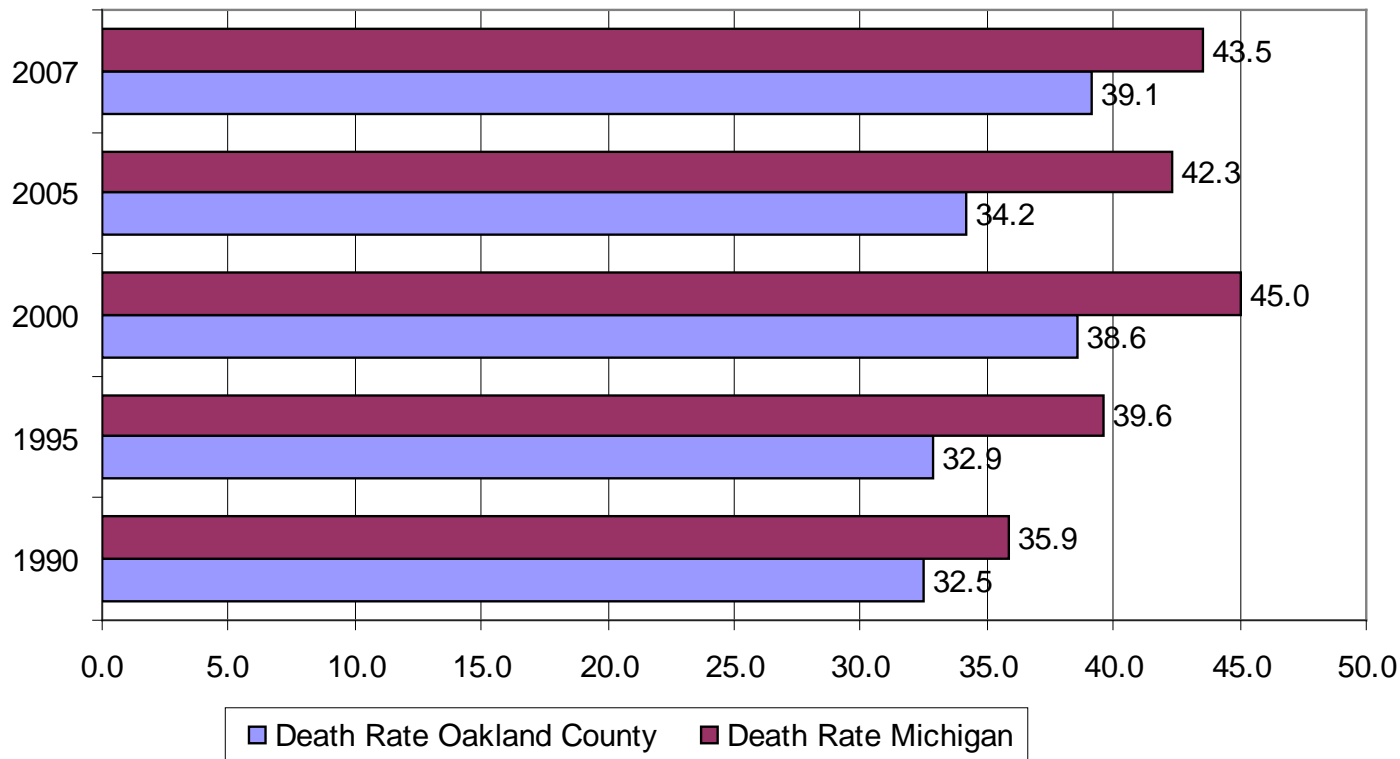
Smoking Related - Chronic Lower Respiratory Disease Deaths, Oakland County, 1990-2007



Source: Office of the State Registrar, MDCH.

Smoking Related - Chronic Lower Respiratory Disease Deaths and Death Rates, Oakland County and Michigan, 1990-2007

Death Rate per 100,000 Population



Source: Office of the State Registrar, MDCH.

A decorative graphic consisting of a thin gold circle on the left side. A thick black bracket is positioned on the left side of the circle, and a thick gold bracket is on the right side. A horizontal bar with a gold-to-white gradient is positioned across the middle of the circle, containing the text.

Oakland County Health Division
Strategic Prevention Framework (SPF)

Oakland County Circuit Court
Family Division Complaints

Oakland County Circuit Court Family Division Complaints - Overview

- Liquor laws and narcotic law complaints dropped significantly between 1999 and 2008.
- Weapons and aggravated assault complaints have remained stable between 1999 and 2008.
- Non-aggravated assault complaints have varied between 1999 and 2008.
- Delinquency complaints by school district county-wide decreased significantly between 1999 and 2008.
- Delinquency complaint rates varied significantly by school district in 2008.

Delinquency Complaints by School District, 1999-2008

<u>SCHOOL DISTRICT</u>	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Avondale	74	96	78	55	41	59	64	59	49	41
Berkley	77	75	84	82	59	50	42	32	60	49
Birmingham	91	75	43	54	59	39	45	31	36	36
Bloomfield Hills	131	101	67	88	46	61	38	37	30	34
Brandon	74	65	46	35	52	20	33	26	30	30
Clarenceville	12	12	9	12	2	1	3	1	1	6
Clarkston	218	192	164	132	92	94	63	90	72	52
Clawson	27	32	31	26	26	21	12	13	12	20
Farmington	325	279	228	249	200	210	215	232	216	235
Ferndale	120	148	121	79	79	73	76	82	105	86
Hazel Park	192	163	135	127	122	101	85	123	90	99
Holly	129	100	102	74	49	58	73	62	82	71
Huron Valley	299	242	208	147	153	176	190	199	182	162
Lake Orion	186	109	94	71	64	61	119	89	86	82
Lamphere	3	4	9	5	0	1	0	0	2	6
Madison	86	88	63	72	55	61	67	70	42	61
Northville	12	35	11	19	21	12	7	13	13	6
Novi	117	112	72	112	59	89	49	94	50	50
Oak Park	110	140	135	105	150	145	145	141	126	156
Oxford	115	112	75	64	82	62	66	70	62	52
Pontiac	737	602	522	573	401	473	459	438	382	411
Rochester	241	169	185	165	143	114	123	128	133	139
Royal Oak	146	124	106	105	84	104	115	112	84	83
South Lyon	126	140	107	101	65	99	65	69	72	81
Southfield	165	130	148	128	127	163	110	183	180	157
Troy	207	206	198	188	119	117	79	100	72	63
Walled Lake	223	233	230	180	152	123	151	151	145	136
Waterford	278	237	184	214	167	178	178	140	122	173
West Bloomfield	149	175	129	98	96	113	98	103	76	80
Other	644	622	684	770	779	793	623	731	406	403
Total DELINQUENT	5,314	4,818	4,268	4,130	3,544	3,671	3,393	3,619	3,018	3,060

Students, Delinquency Complaints and Rate per 1,000 Students, Oakland County Schools, 2008

K-12th Schools	Total Students	Delinquency Complaints	Rate per 1,000 Students
Avondale School District	3,953	41	10.4
Berkley School District	4,559	49	10.7
Birmingham City School District	8,167	36	4.4
Bloomfield Hills School District	5,694	34	6.0
Brandon School District	3,488	30	8.6
Clarenceville School District	1,924	6	3.1
Clarkston Community School District	8,272	52	6.3
Clawson Public Schools	1,744	20	11.5
Farmington Public School District	12,265	235	19.2
Ferndale Public Schools	4,496	86	19.1
Hazel Park City School District	6,001	99	16.5
Holly Area School District	3,978	71	17.8
Huron Valley Schools	10,520	162	15.4
Lake Orion Community Schools	7,986	82	10.3
Lamphere Public Schools	2,723	6	2.2
Madison Public Schools (Oakland)	1,574	61	38.8
Novi Community School District	6,316	50	7.9
Oak Park City School District	4,004	156	39.0
Oxford Community Schools	4,531	52	11.5
Pontiac City School District	7,690	411	53.4
Rochester Community School District	15,175	139	9.2
School District of the City of Royal Oak	5,489	83	15.1
South Lyon Community Schools	7,214	81	11.2
Southfield Public School District	9,208	157	17.1
Troy School District	12,446	63	5.1
Walled Lake Consolidated Schools	15,907	136	8.5
Waterford School District	11,941	173	14.5
West Bloomfield School District	6,968	80	11.5
Sub-total K-12 Schools	194,233	2,651	13.6
Other (Academies)	12,453	403	32.4
Total All K-12 Schools	206,686	3,054	14.8

Source: Michigan Department of Education, Oakland County Circuit Court, Family Division

Oakland County Circuit Court – Family Division Complaints Filed by Selected Offenses, 1999-2008

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Liquor Laws	418	348	322	331	289	205	191	241	203	175
Narcotic Laws	245	225	219	238	184	233	208	169	154	155
Weapons	60	57	44	38	52	53	44	51	44	54
Aggrevated Assault	76	70	54	59	64	73	69	67	60	56
Non-Aggrevated Assault	452	477	387	392	328	382	390	434	342	346

Source: Oakland County Circuit Court, Family Division

Oakland County Circuit Court - Family Division Complaints Filed by Selected Offenses, 1999-2008



Source: Oakland County Circuit Court, Family Division



Oakland County Health Division Strategic Prevention Framework (SPF)

Perceptions and Protective Factors

School Work

Safety

Self-harm

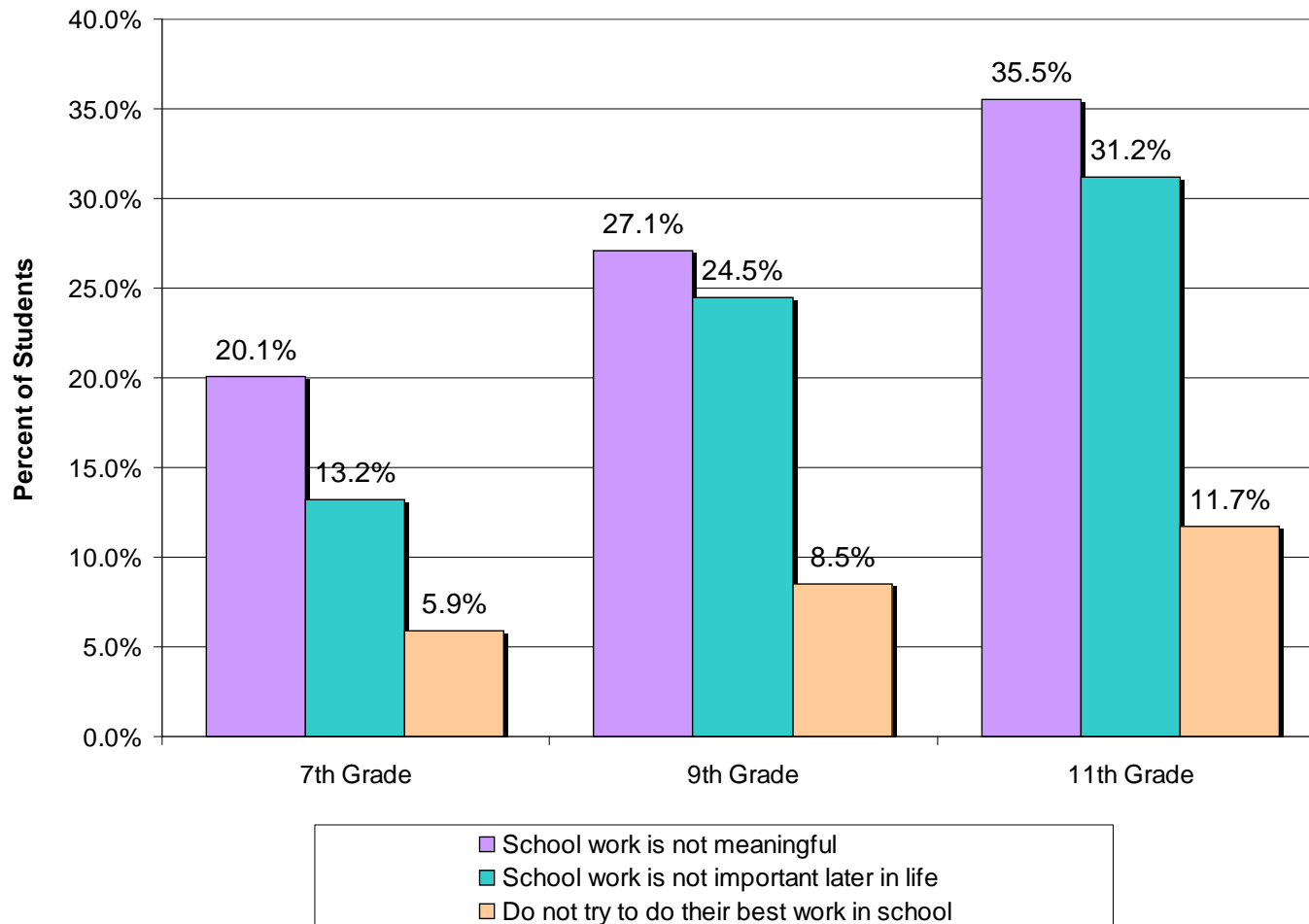
Substance Abuse

Community, School, and Family Protective Factors

Student Perceptions of School, Safety, Substance Abuse, and Parental Involvement

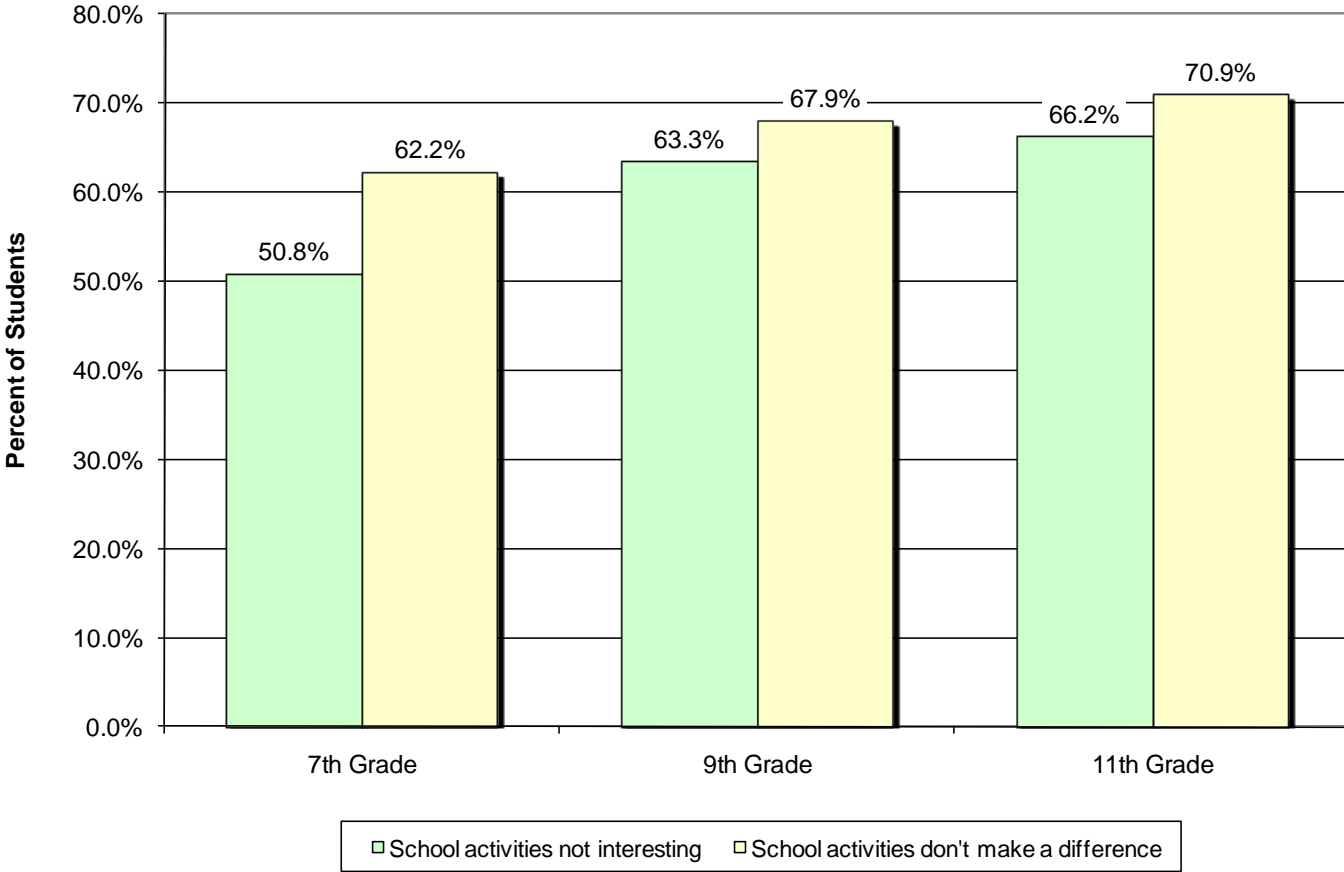
- Students increasingly believe school work is not meaningful, not important later in life, and report they do not do their best in school.
- 80% of high school students report feeling safe at school.
- Most students would use refusal skills if offered alcohol.
- Students report lower levels of parental involvement in 7th grade compared to 11th grade.

Student Perceptions of School Work, 2008



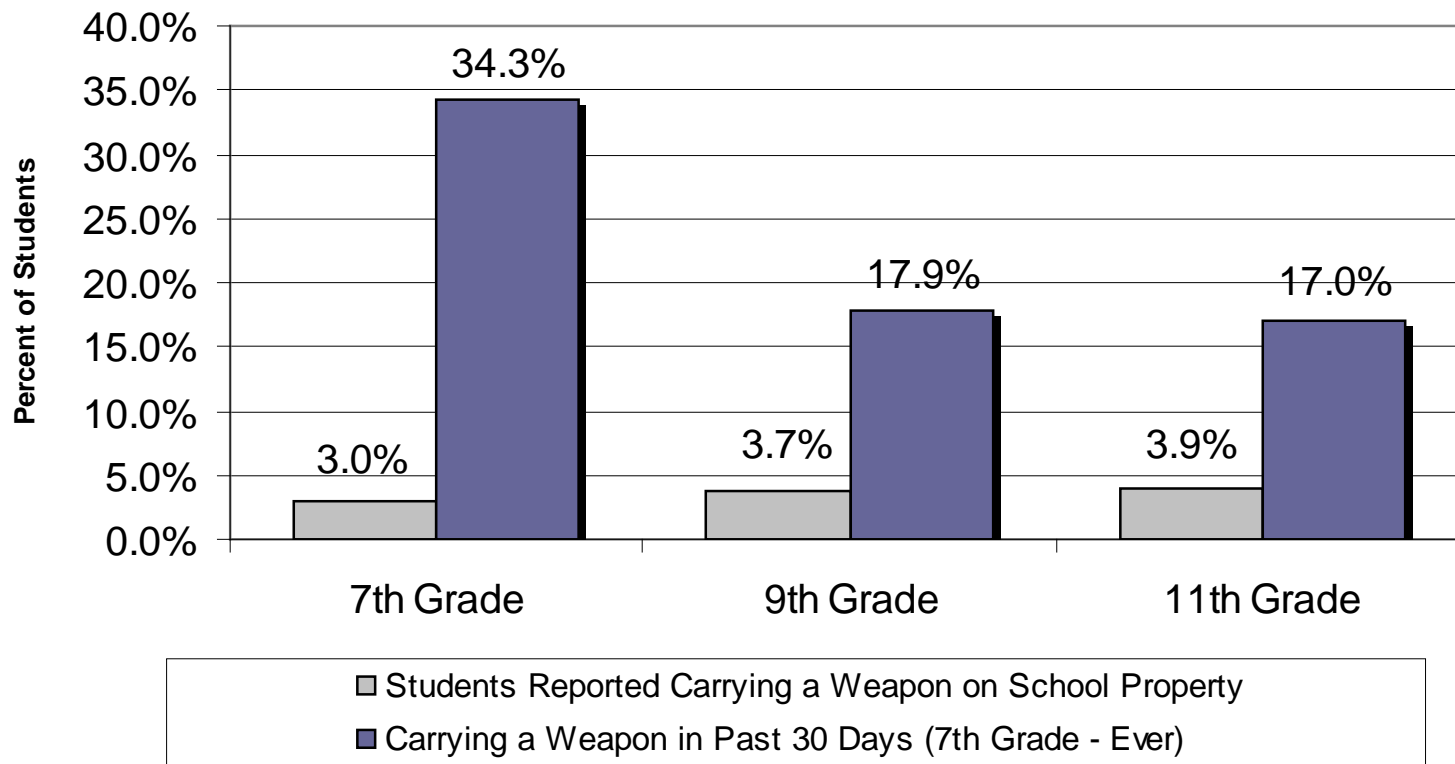
Source: Michigan Profile for Healthy Youth, 2008

Student Perceptions of School Work, 2008



Source: Michigan Profile for Healthy Youth, 2008

Student Carrying a Gun, Knife or Club on School Property or in Past 30 Days

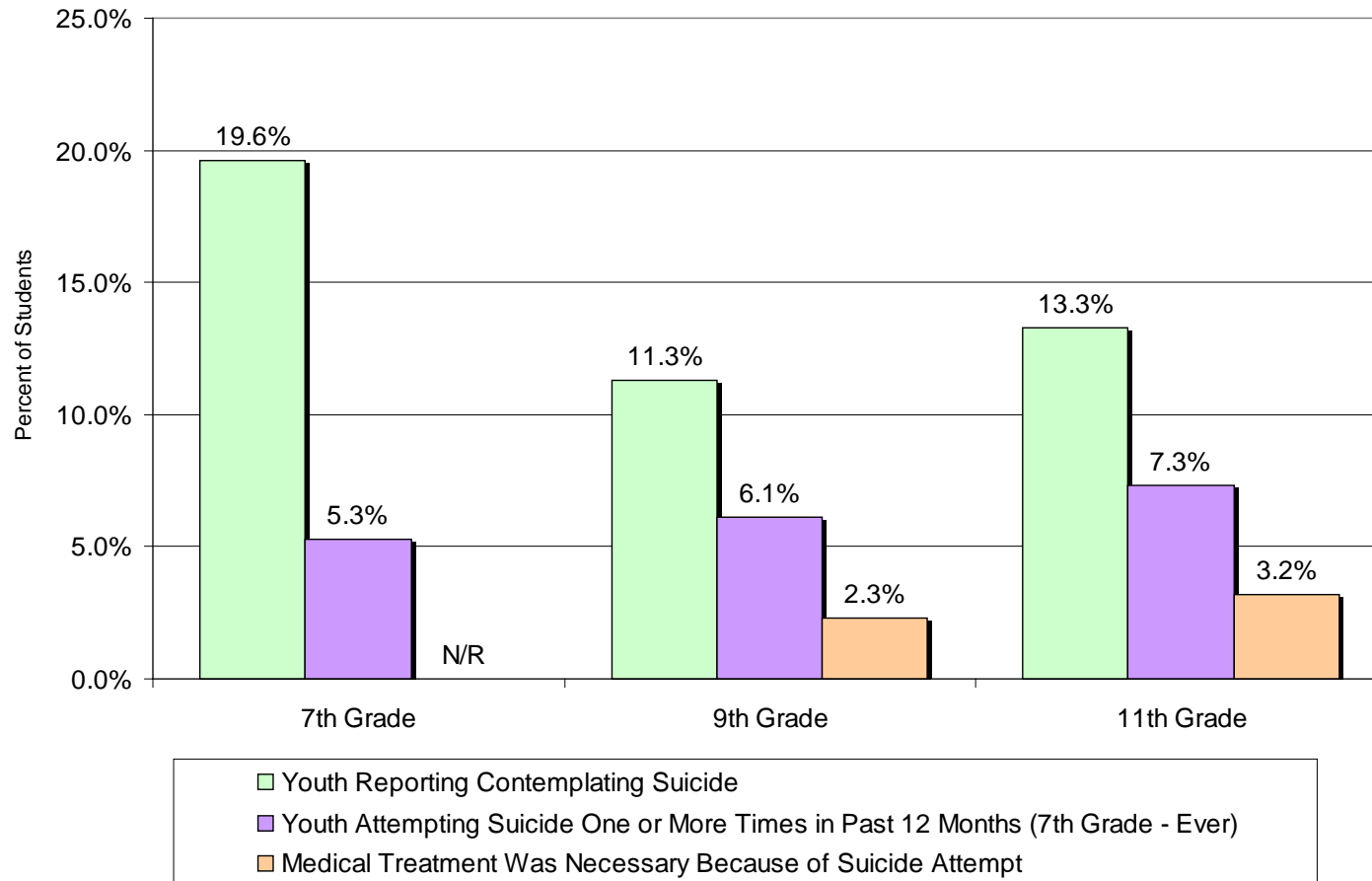


Source: Michigan Profile for Healthy Youth, 2008

Self-Inflicted Harm: Students and Young Adults

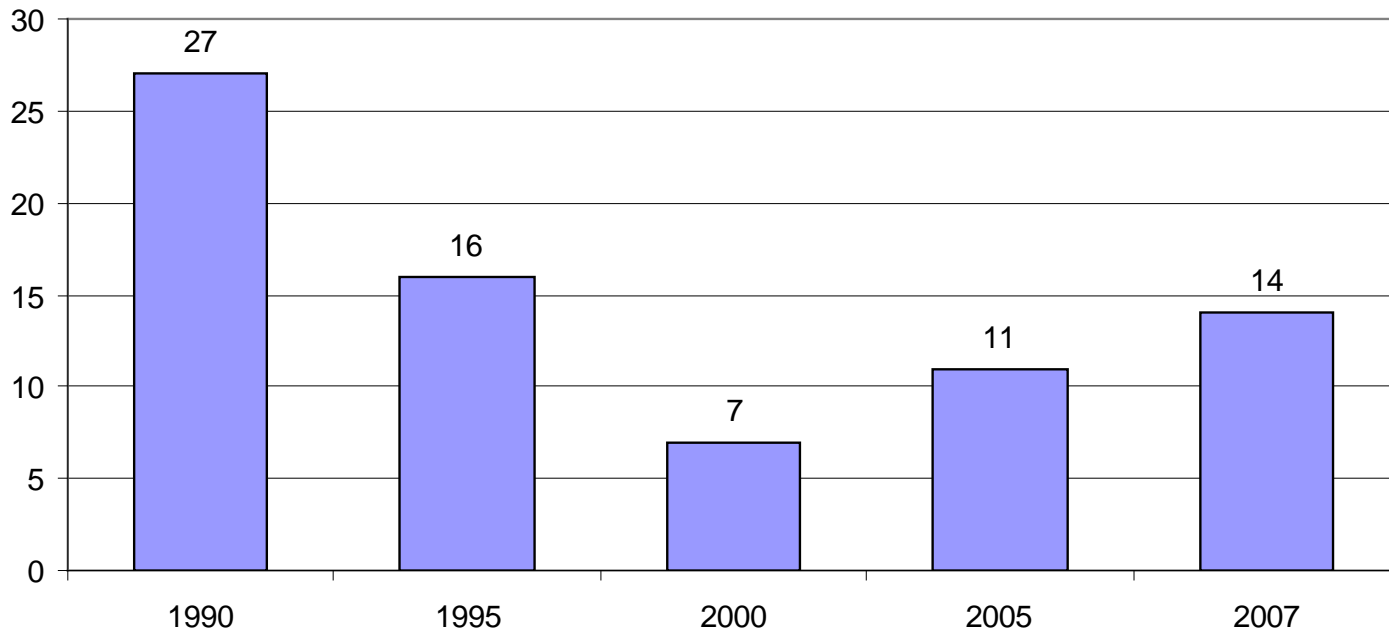
- While the reported number of youth contemplating suicide decreased between 7th to 11th grades, the number who reported attempting suicide increased.
- Among persons under age 25, the number of suicides decreased from 1990 through 2000, but, increased since that time.
- The rate of suicide among persons under age 25 in Oakland County has been significantly lower than the statewide rate since 1990.

Profile of Suicidal Behaviors Reported by Youth, 2008



Intentional Self-Harm (Suicide) Deaths, Oakland County, 1990-2007

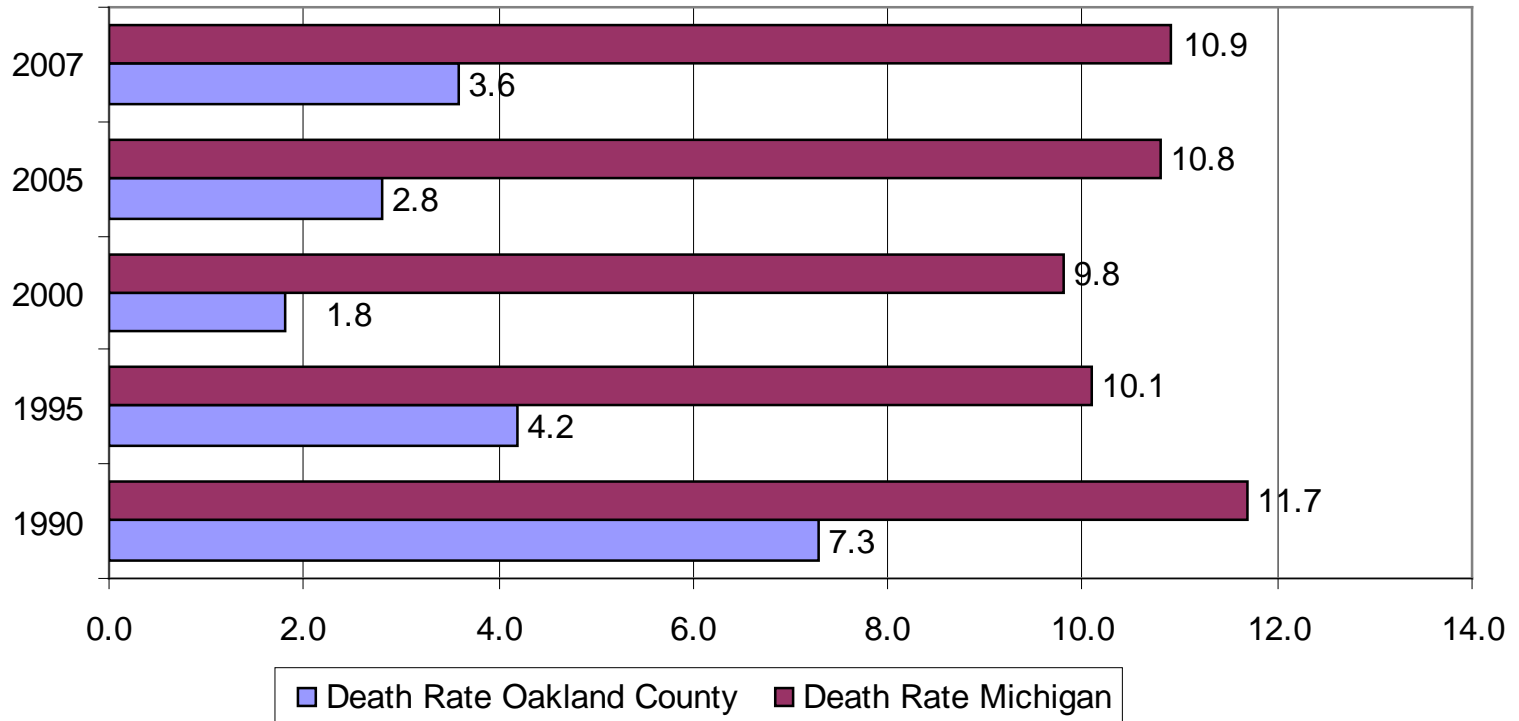
Age Under 25 Years



Source: Vital Records & Health Statistics, MDCH

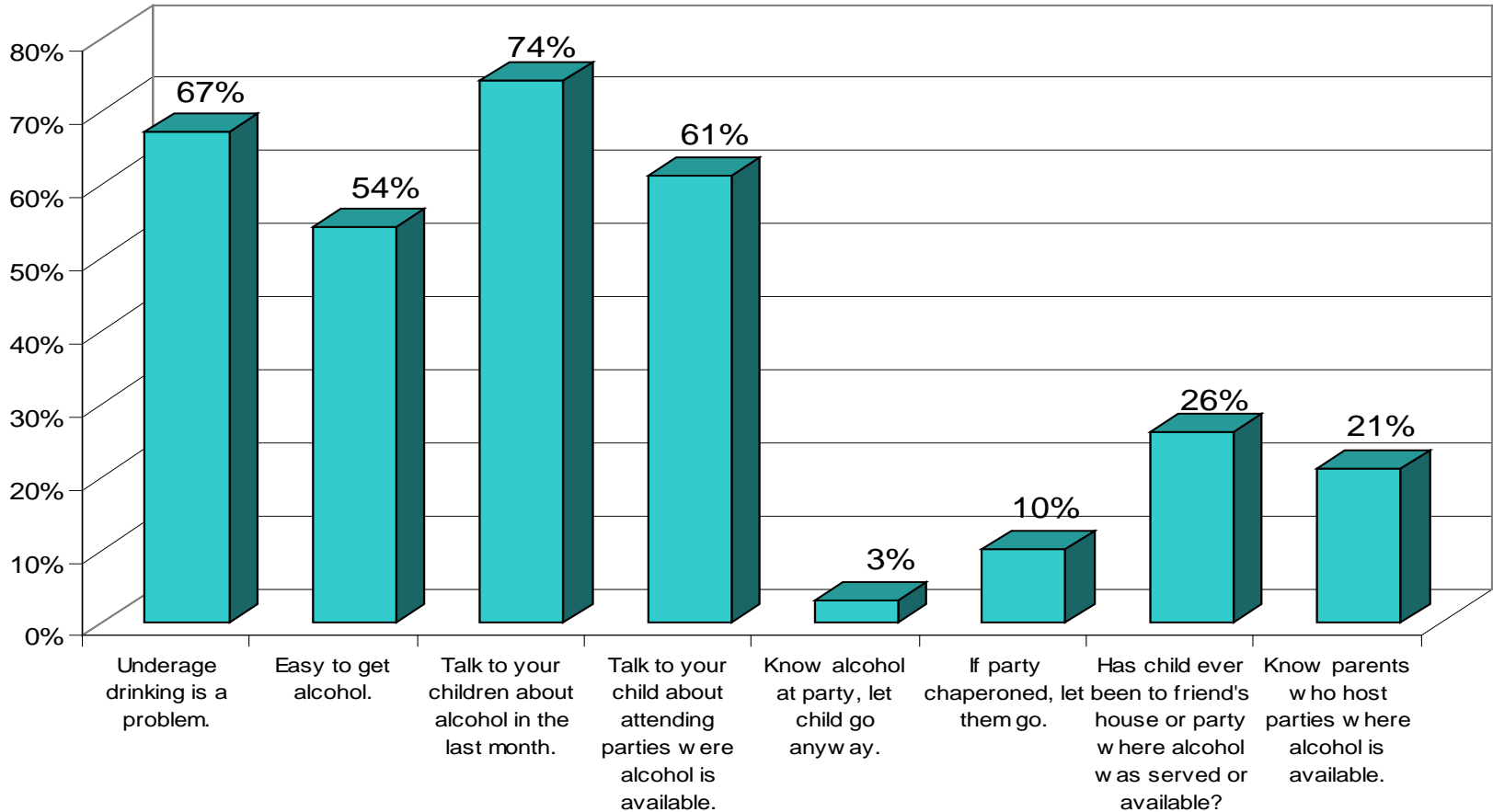
Intentional Self-Harm (Suicide) Death Rates, Oakland County and Michigan, 1990-2007

Age Under 25 Years



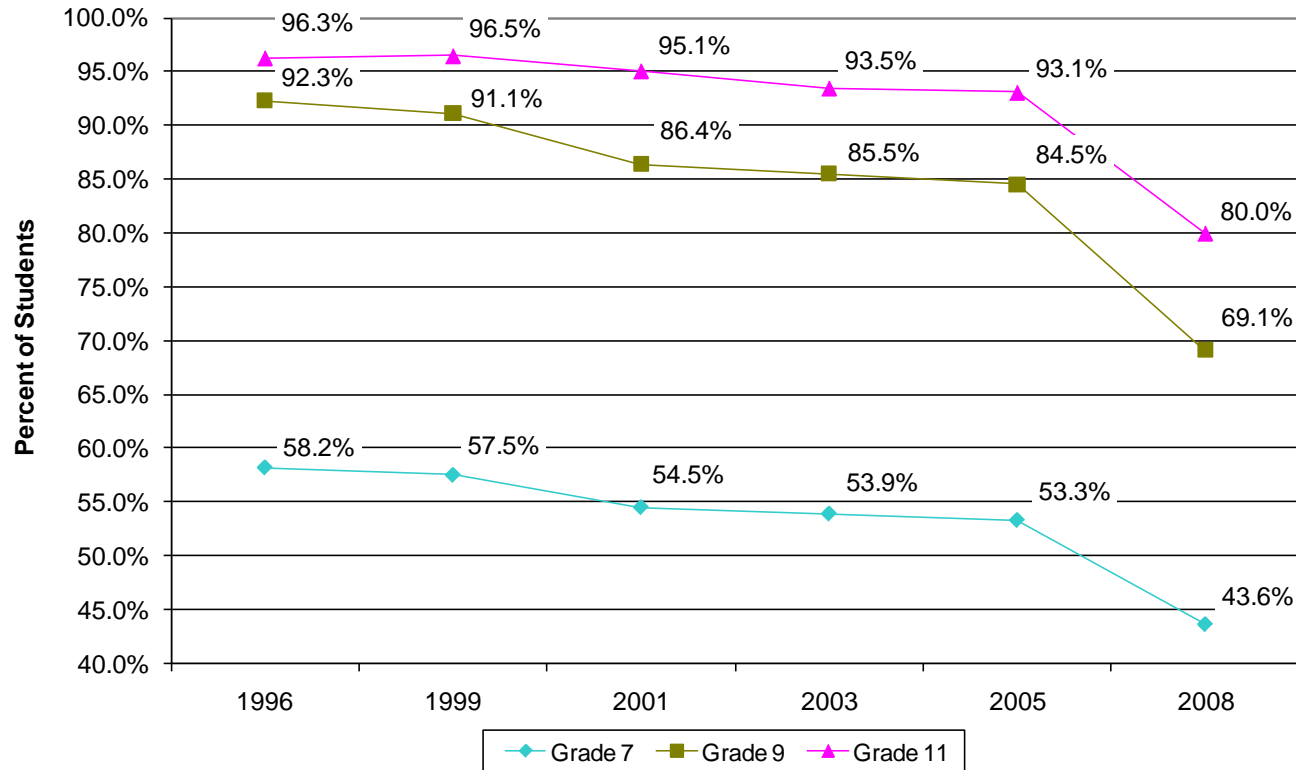
Source: Vital Records & Health Statistics, MDCH

Parental Perceptions of Alcohol Use, Oakland County, 2006



Source: Oakland County Parent Survey Regarding Underage Alcohol Use, 2006

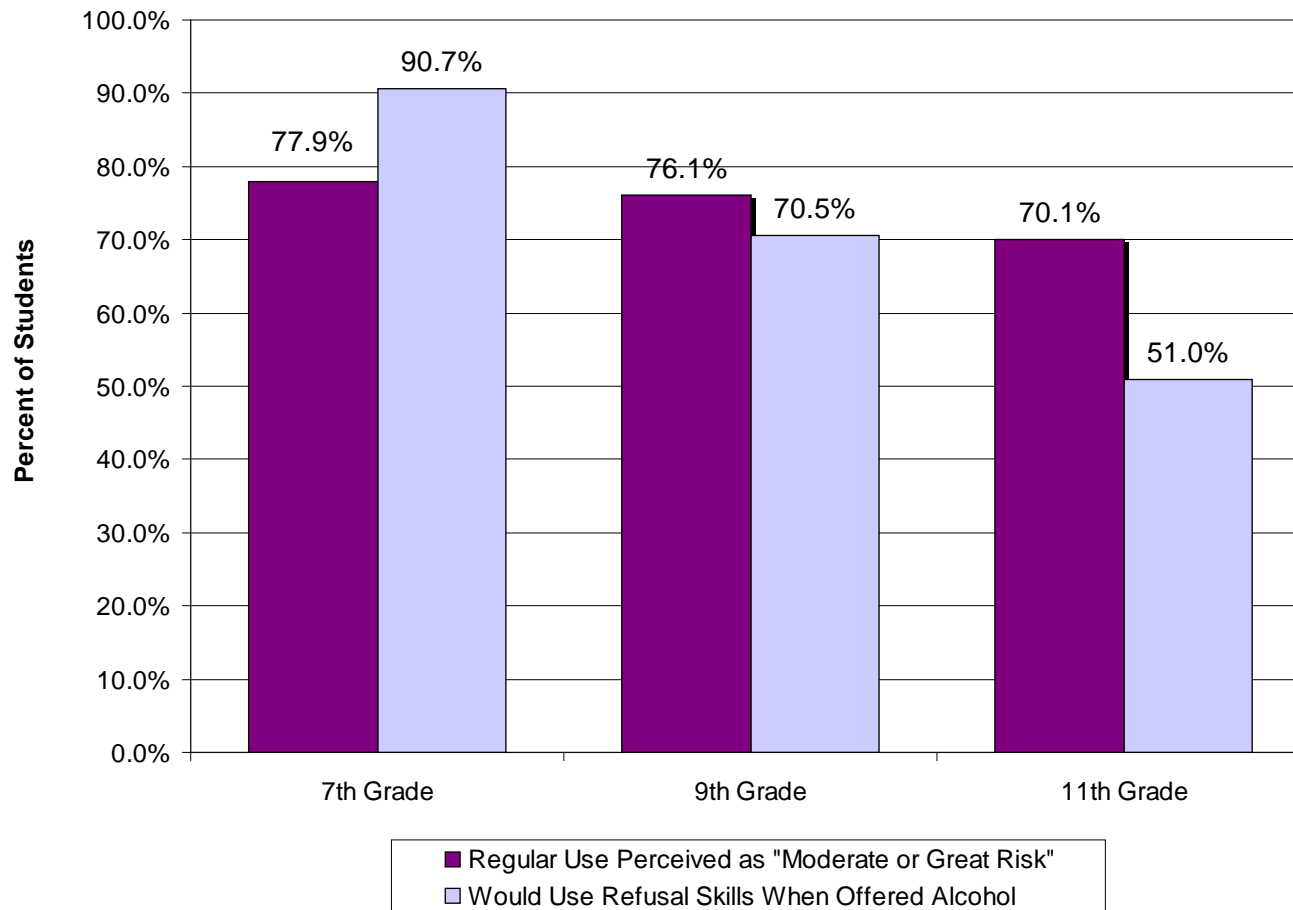
Perceived Availability of Obtaining Alcohol (Easy Access) among Oakland County Students, 1996-2008



Note: 1996-2005 ATOD even grade estimates (8th, 10th, 12th) were evenly divided to create odd grade estimates (7th, 9th, 11th) to be comparable with the 2008 Michigan Profile for Healthy Youth.

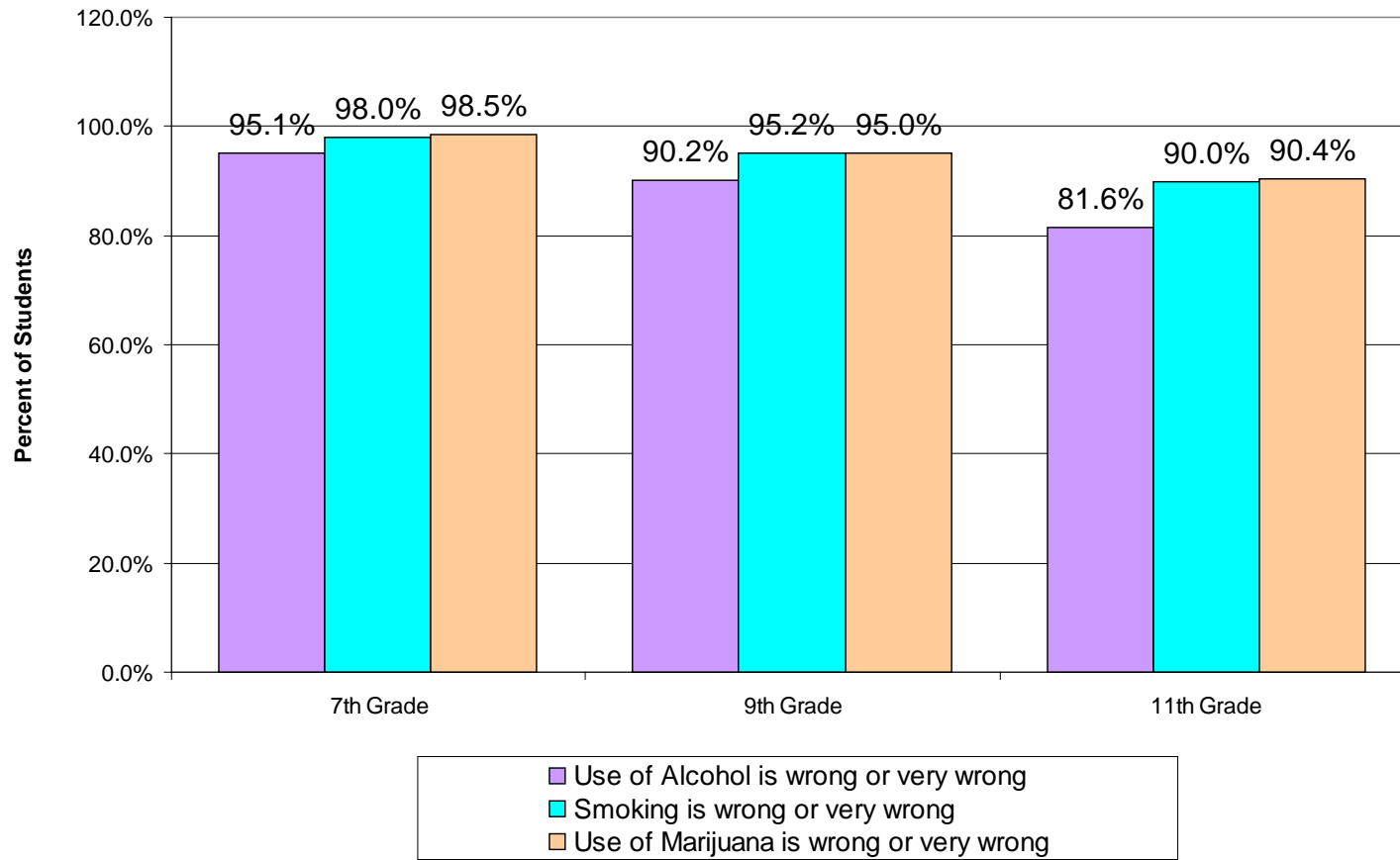
Source: Michigan Alcohol Tobacco and Other Drug Survey, 1996-2005.

Perceived Risk of Alcohol Use and Refusal Skills, Oakland County Students, 2008



Source: Michigan Profile for Healthy Youth, 2008.

Students Perceive that Parents Feel Regular Use of Alcohol, Smoking, or Marijuana is Wrong or Very Wrong, Oakland County, 2008

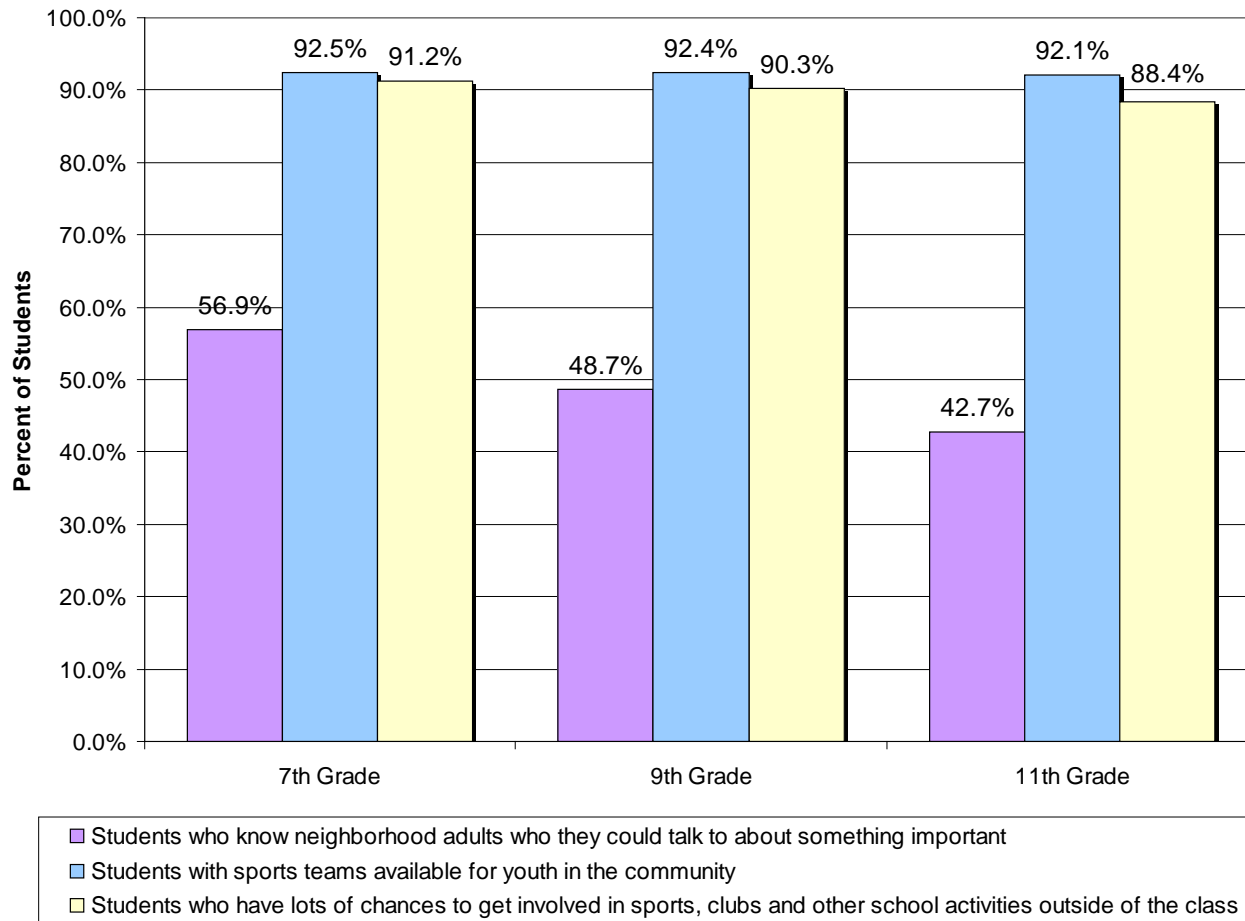


Source: Michigan Profile for Healthy Youth, 2008.

Student Perceptions of Community Involvement: Community-based Protective Factors

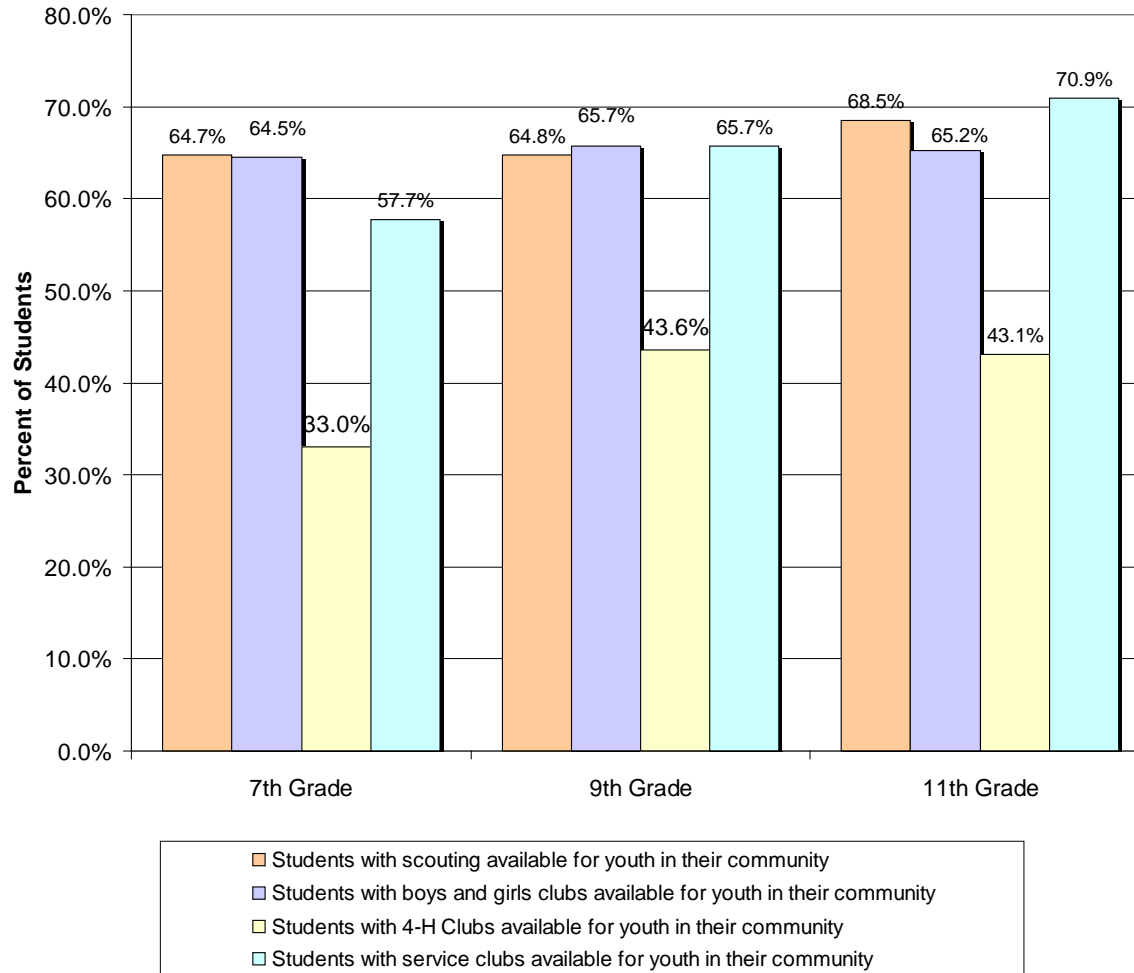
- Reliance on neighborhood adults, other than parents, decreases with age.
- Levels of availability of sports activities and clubs is high.
- Neighborhood-based support tends to decrease with age.

Student Perceptions of Community Protective Factors, Oakland County, 2008

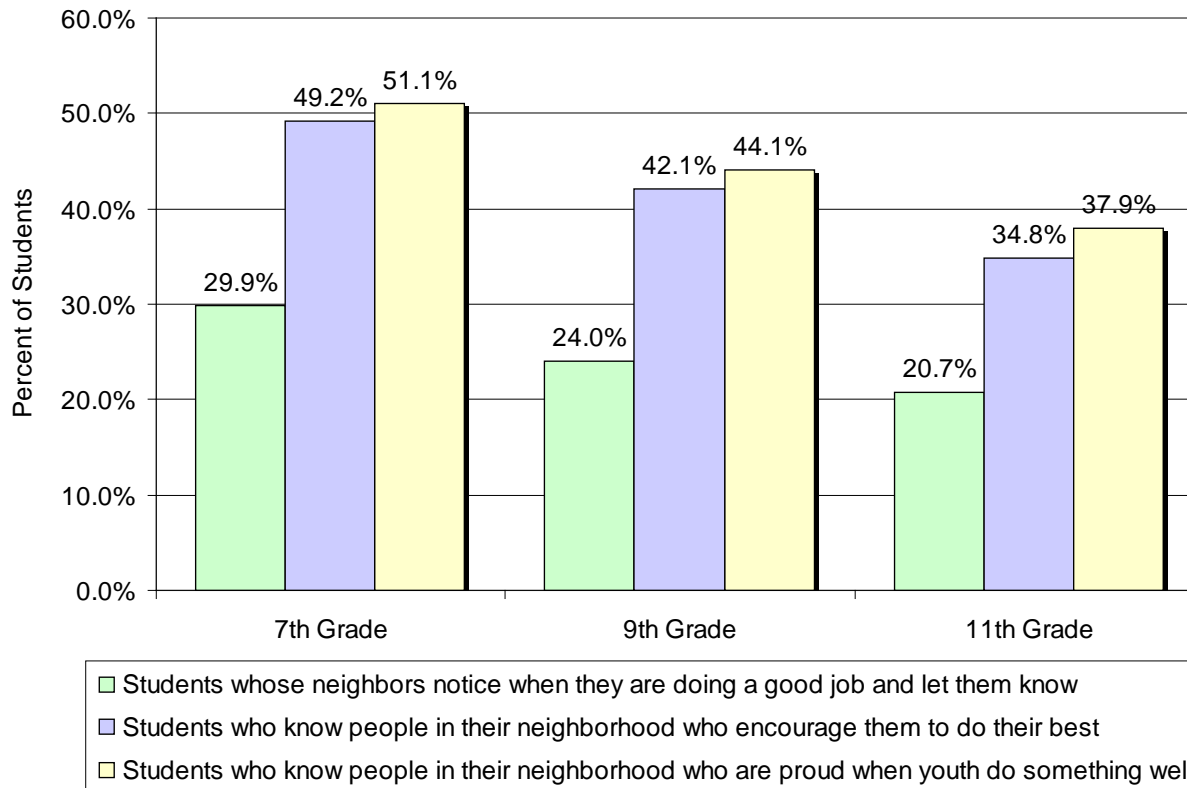


Source: Michigan Profile for Healthy Youth, 2008

Student Perceptions of Community Protective Factors, Oakland County, 2008



Student Perceptions of Community Protective Factors, Oakland County, 2008

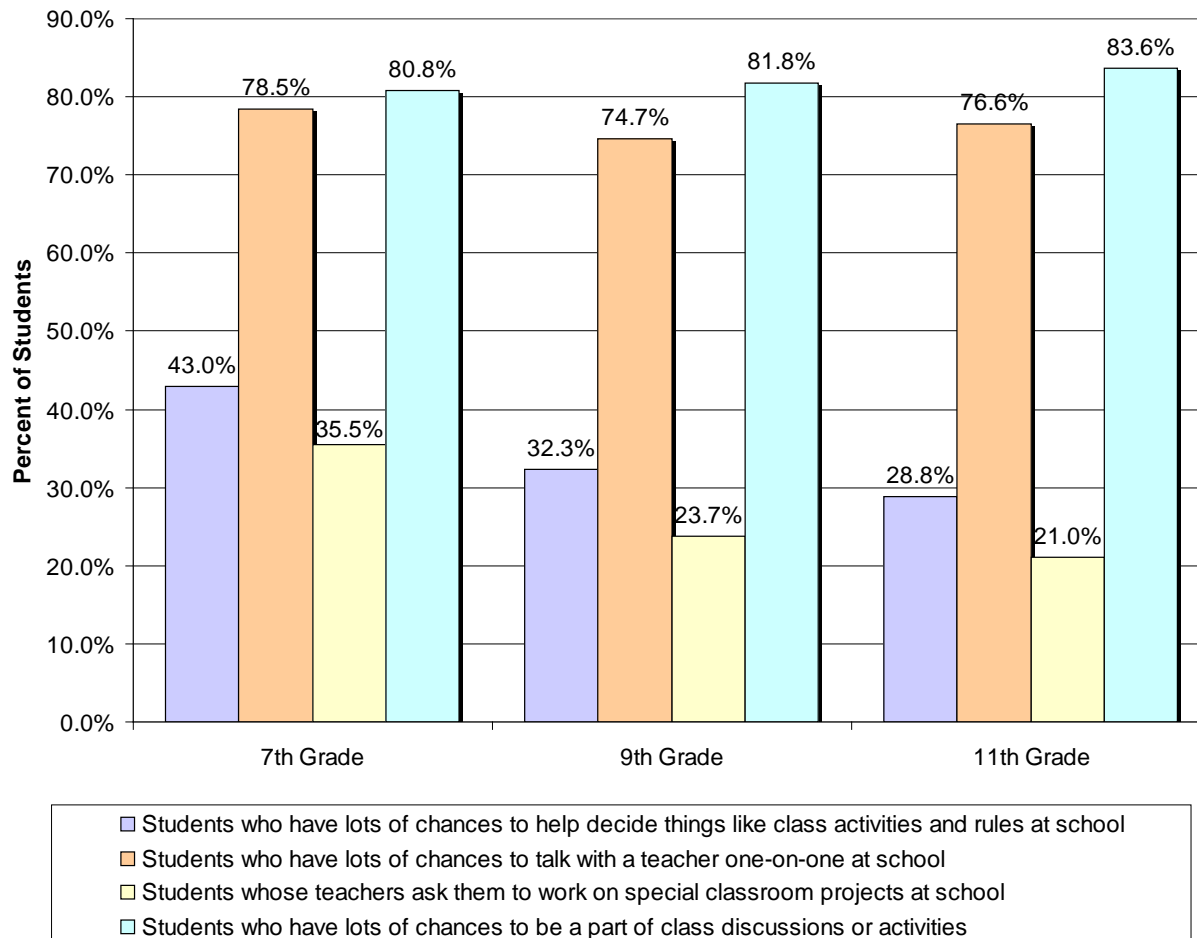


Source: Michigan Profile for Healthy Youth, 2008

Student Perceptions of School-based Protective Factors

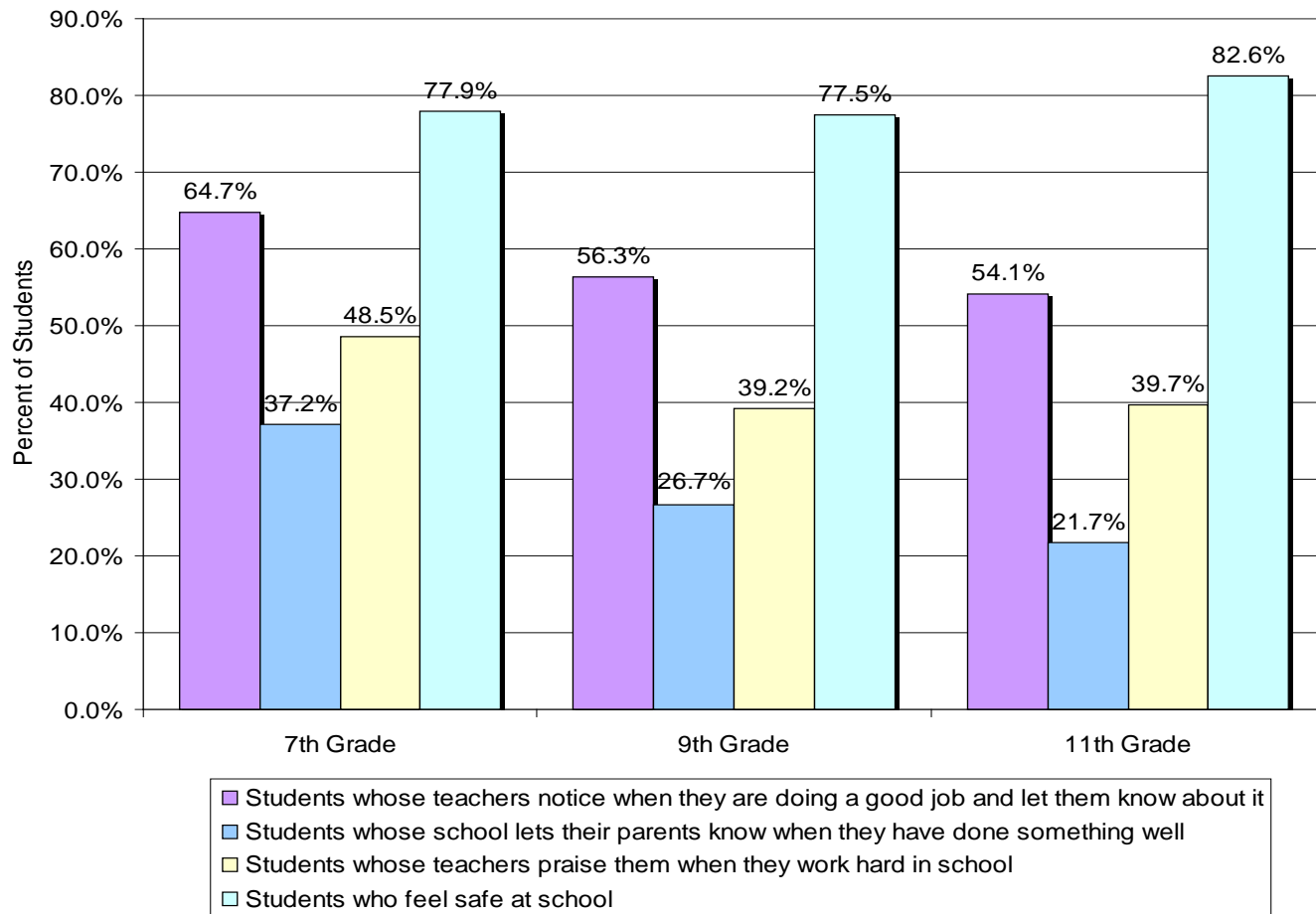
- Students have lots of chances to get involved in sports, clubs, and other school activities outside the classroom.
- Students have lots of chances to talk with a teacher one-on-one at school.
- Most teachers notice when a student does a good job and lets them know about it.
- Most students feel safe at school.

Student Perceptions of School Protective Factors, Oakland County, 2008



Source: Michigan Profile for Healthy Youth, 2008

Student Perceptions of School Protective Factors, Oakland County, 2008

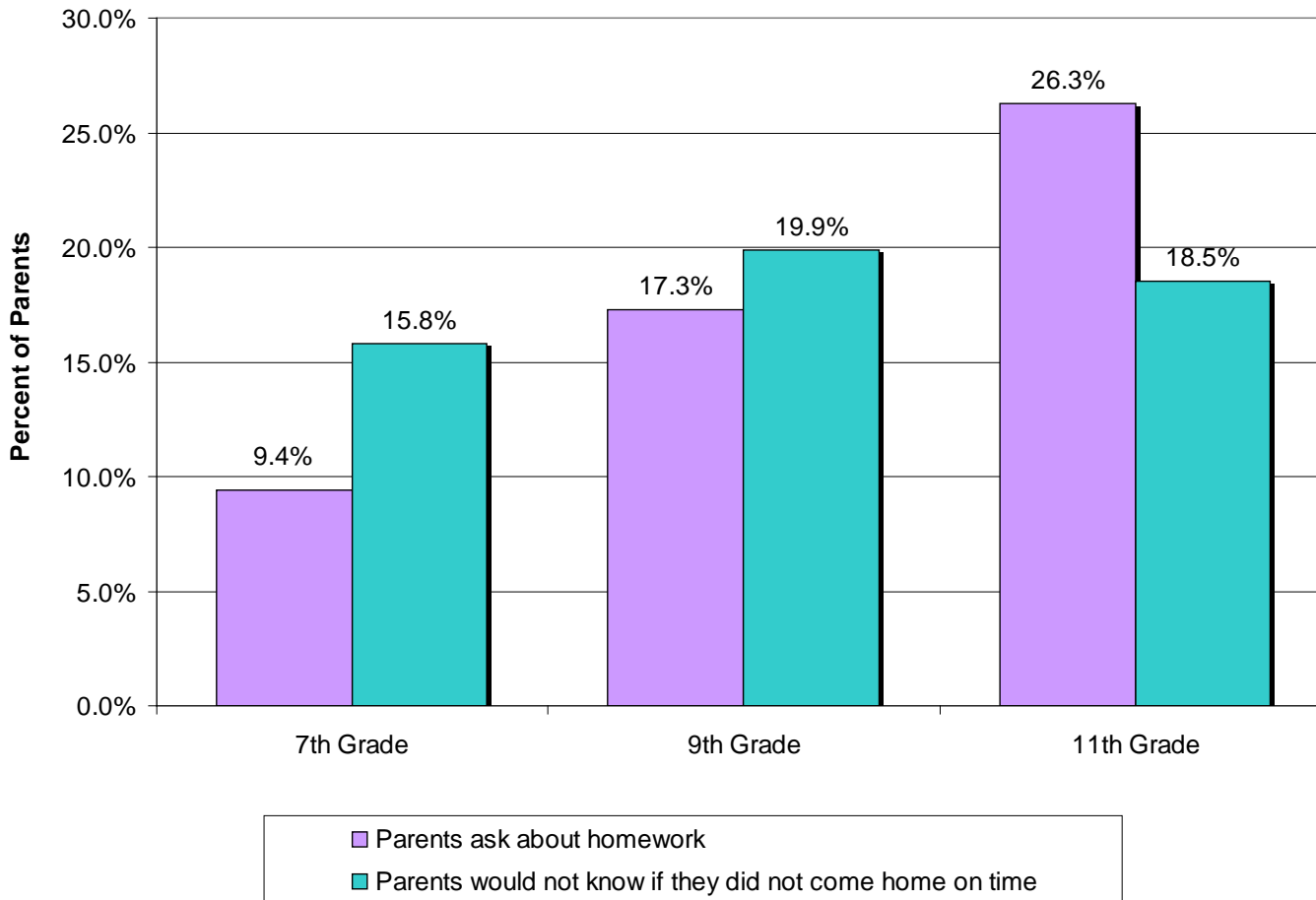


Source: Michigan Profile for Healthy Youth, 2008

Student Perceptions of Family-based Protective Factors

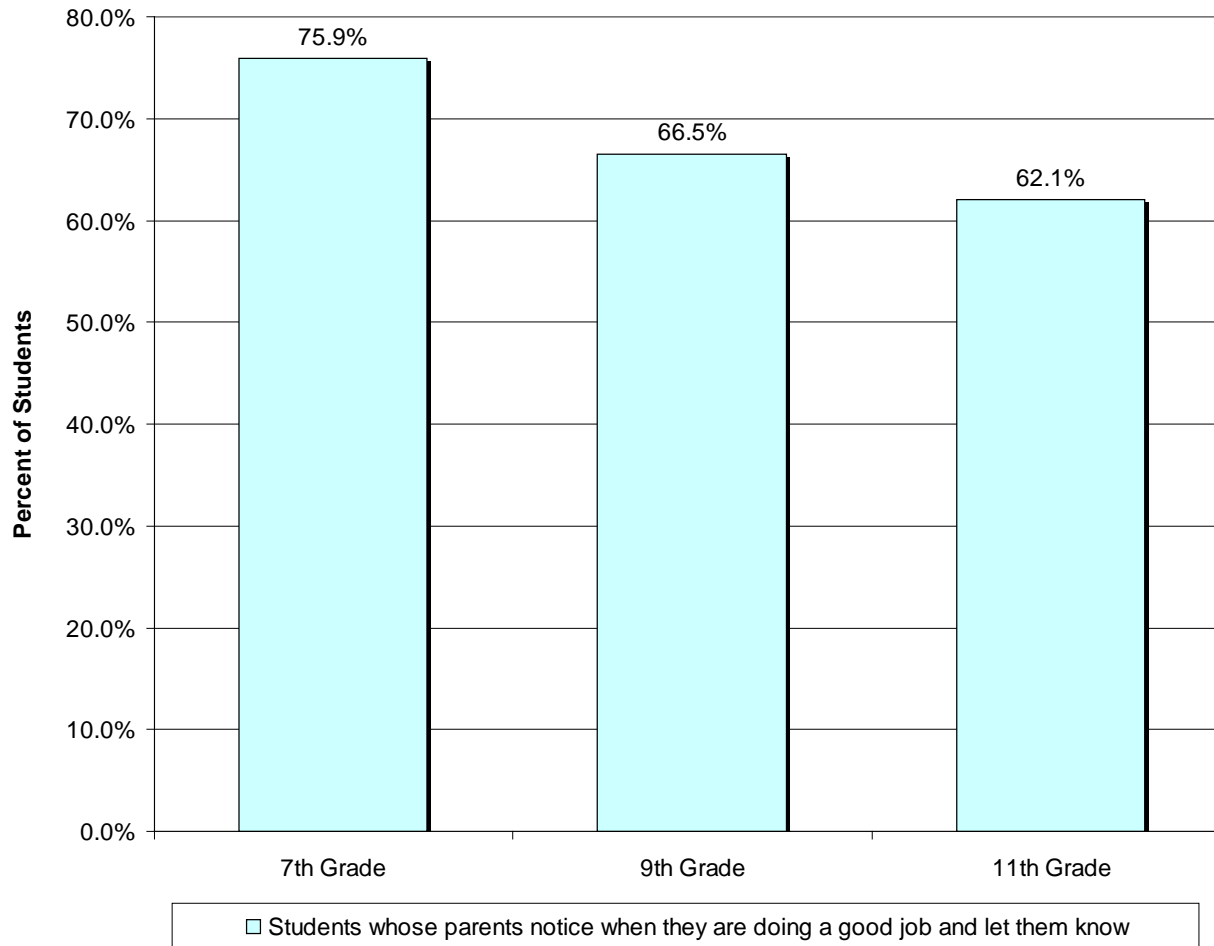
- Parent interest in homework increases with age.
- Parental praise and involvement decreases with age.
- Time spent with parents decreases with age.

Student Perceptions of Parent Involvement, Oakland County, 2008



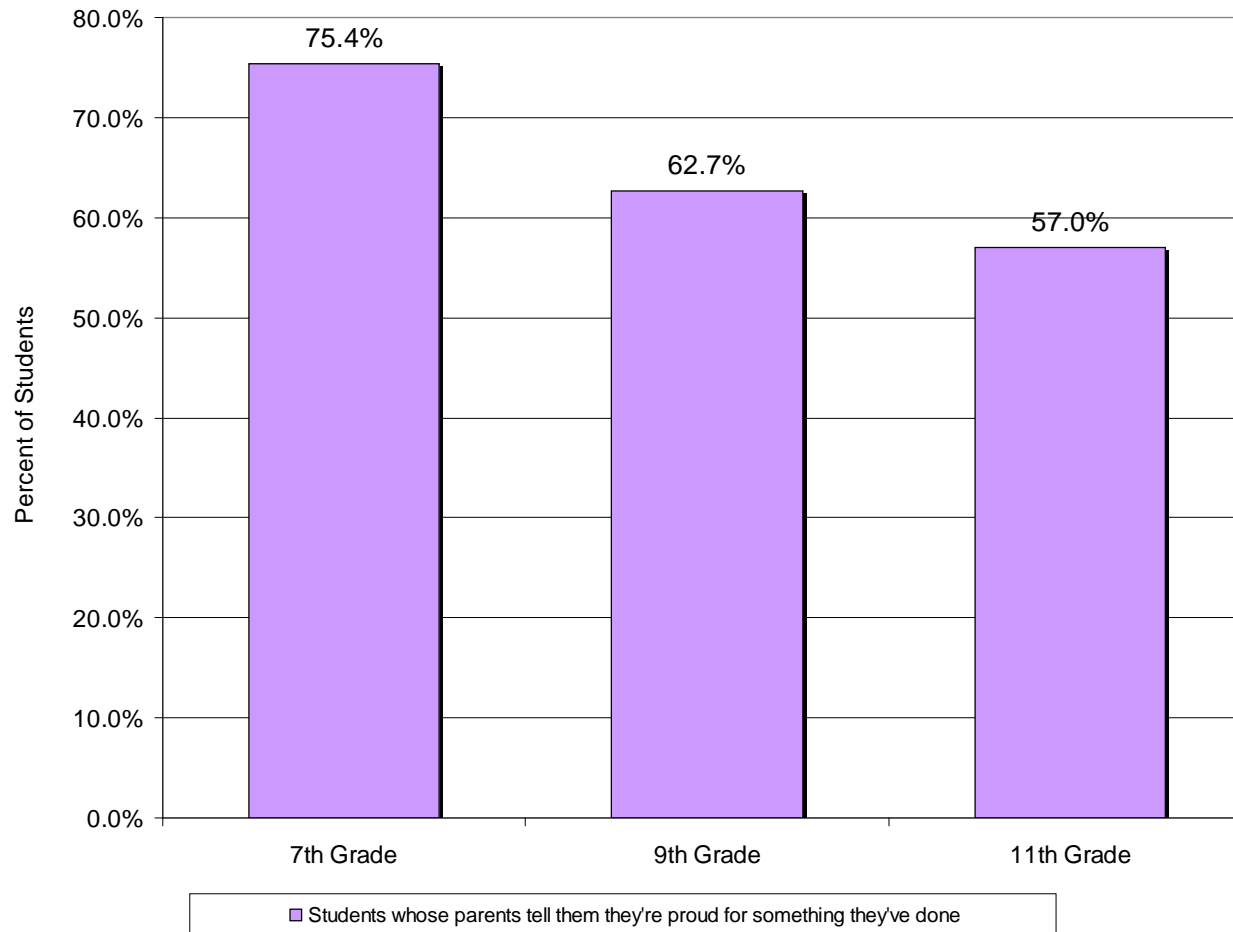
Source: Michigan Profile for Healthy Youth, 2008

Student Perceptions of Family Protective Factors, Oakland County, 2008



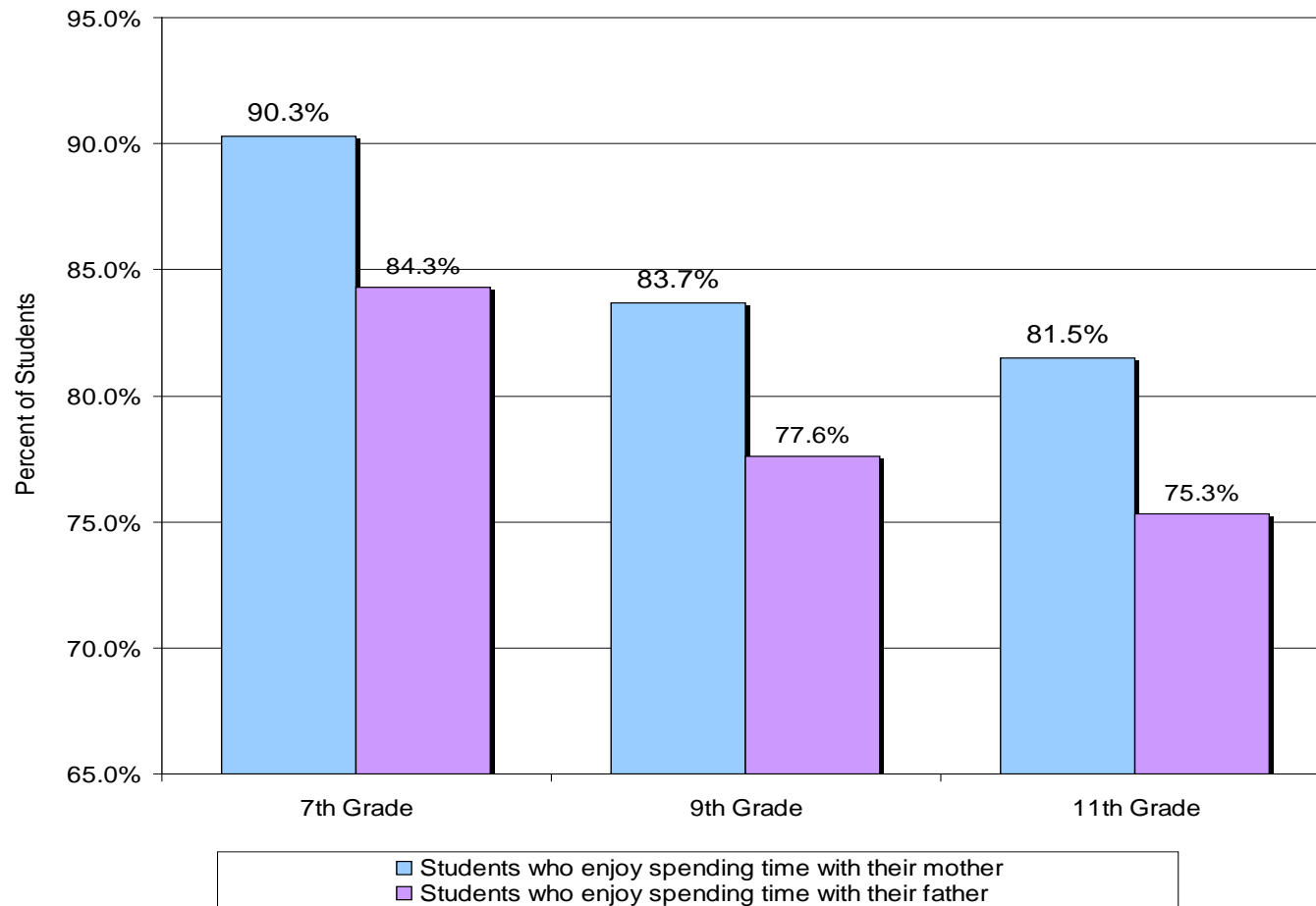
Source: Michigan Profile for Healthy Youth, 2008

Student Perceptions of Family Protective Factors, Oakland County, 2008



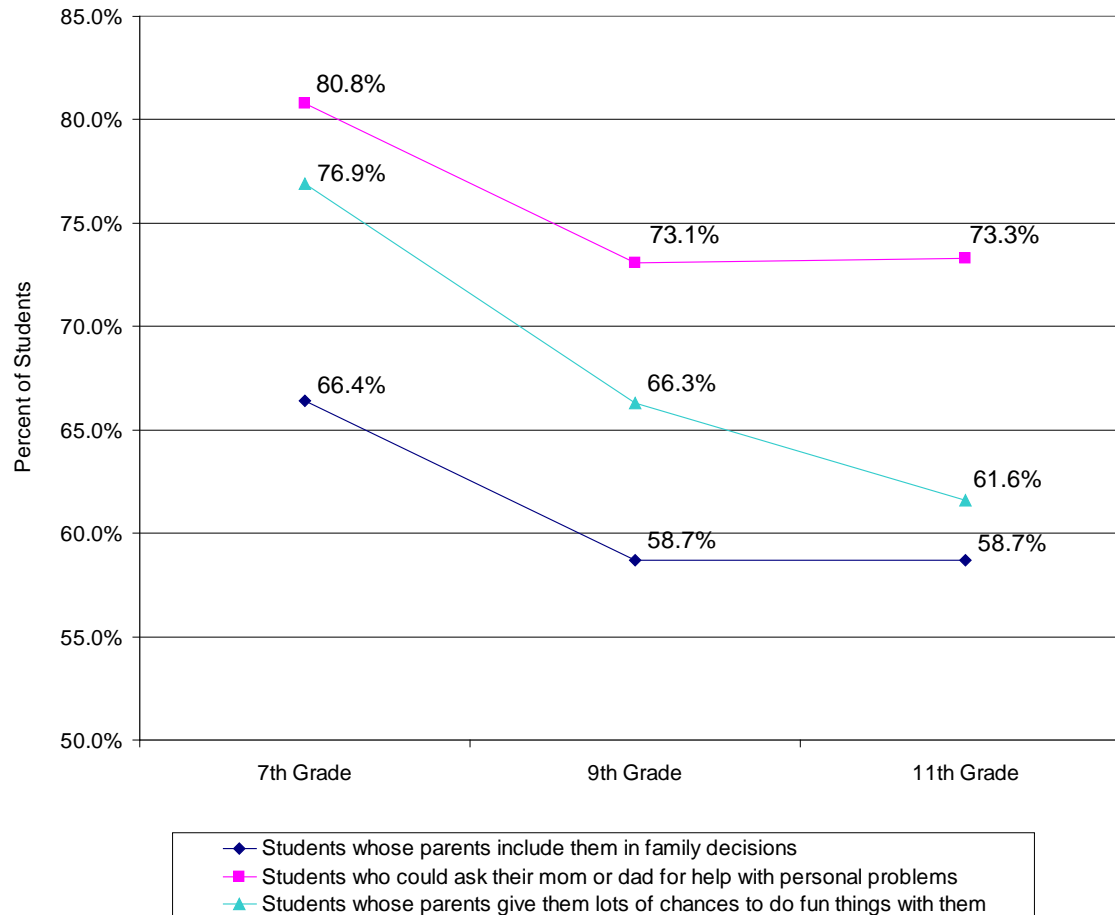
Source: Michigan Profile for Healthy Youth, 2008

Student Perceptions of Family Protective Factors, Oakland County, 2008



Source: Michigan Profile for Healthy Youth, 2008

Student Perceptions of Family Protective Factors, Oakland County, 2008



Source: Michigan Profile for Healthy Youth, 2008

Questions?

Want more information?

Contact:

Gary Petroni, Director
Center for Population Health

313.873.9302

gpetroni@ameritech.net

