

Substance Abuse Data for Michigan 2002-2004 National Surveys on Drug Use and Health

Overview

In August 2006, The Substance Abuse and Mental Health Services Administration (SAMHSA) released a report entitled *Sub-state Estimates from the 2002-2004 National Survey on Drug Use and Health* (<http://oas.samhsa.gov/substate2k6/toc.cfm>). This report presents estimates of the prevalence of substance use or mental health problems in sub-state areas throughout the country during 2002-2004 based on the National Survey on Drug Use and Health (NSDUH).

NSDUH is an annual survey of the civilian, non-institutionalized population aged 12 or older. The data provided in this report for Michigan represent estimated population percentages with corresponding 95% confidence intervals for nine of the substance abuse related items in the NSDUH survey. Estimates of underage alcohol use among persons aged 12 to 20 and binge alcohol use are also included in this report.

NSDUH's sub-state areas were defined by states and are typically based on the substance abuse treatment planning areas specified in the Substance Abuse Prevention and Treatment (SAPT) Block Grant administered by SAMHSA. For Michigan, those sub-state regions were the 16 substance abuse regional coordinating agencies (CAs). To see a list of current CAs and the counties they serve, go to www.michigan.gov/mdch-bsaas. The 2004 census estimates were used in this report to calculate the CA population estimates corresponding to reported percentages.

Key Facts

Alcohol

- Alcohol is the most commonly used substance in the United States. Nationally, in 2002-2004, about half (50.38%) of Americans aged 12 or older reported past month use of alcohol. In Michigan, the rate was higher at 52.93% for an estimated 4,490,000 persons. ([Table C4](#))
- Binge alcohol use is defined as drinking five or more drinks on the same occasion (i.e., at the same time or within a couple hours of each other). On at least 1 day in the 30 days prior to the survey, binge alcohol use was reported by 22.81% of persons in the United States aged 12 or older. In Michigan, the rate of binge drinking was higher at 24.52% or an estimated 2,080,000 persons.
- The perceived risk of binge drinking was inversely related to the actual rates of binge drinking (the correlation was moderate at -0.65). That is, those who felt that there was not much risk in binge drinking tended to have higher rates of binge drinking; those who felt that binge drinking was a high risk tended to do less binge drinking. The perceived risk in the United States of having five or more drinks of alcohol once or twice a week was 41.71%. In Michigan, the perceived risk was lower at 38.65%.
- For those ages 12-20, the national rate of those who used alcohol in the past month was 28.72% with 19.25% reporting binge alcohol use during that time period. In Michigan, the rate of 12 to 20 years olds using alcohol during the last month was slightly higher at 30.47%

for an estimated 410,000 persons, and the rate that reported binge alcohol use was 20.79% for an estimated 280,000 persons (or about 1 out of every five of those aged 12-20). ([Table C5](#))

Illicit Drugs

- During 2002-2004, 8.13% of persons in the United States aged 12 or older had used an illicit drug in the past month. In Michigan, this rate was 9.18%, reflecting an estimated 779,000 persons. ([Table C1](#))
- Nationally, 3.64% of persons aged 12 or older used an illicit drug other than marijuana during the past month. In Michigan, the rate was 3.55% or an estimated 301,000 persons. Illicit drugs other than marijuana include cocaine (and crack), heroin, hallucinogens, inhalants, or any prescription-type psychotherapeutic used non-medically.
- Marijuana was the most commonly used illicit drug, and many of the areas having a high rates of illicit drug use reported similarly high rates of marijuana use. In 2002-2004, 6.12% of persons in the United States 12 or older used marijuana in the past month, and 10.71% used marijuana sometime during the past year. In Michigan, these rates were 7.31% and 12.54% respectively. The Michigan rates reflected an estimated 620,000 persons aged 12 or older used marijuana sometime during the past month and an estimated 1,064,000 persons used marijuana sometime during the past year. ([Table C2](#) and [Table C3](#))
- Among persons aged 12 or older in the United States, 39.3% perceived a great risk of using marijuana once a month during 2002-2004. In Michigan, the perception of great risk of using marijuana once a month was lower at 36.39. Most first users of marijuana were between the ages of 12 and 25. Less than 2% (1.78%) of persons aged 12 or older in the United States had used marijuana for the first time in 2002-2004. In Michigan, the rate of persons 12 or older who used marijuana for the first time was higher at 2.06% or an estimated 175,000 persons.
- The national prevalence rate for the use of cocaine in the past year among all persons aged 12 or older was 2.46%. In Michigan, this rate was higher at 2.56% or an estimated 217,000 persons.
- During the 2002-2004 period, an average of 4.76% of all persons aged 12 or older in the United States had used a pain reliever for non-medical use within the past year. In Michigan, the rate was higher at 5.33% for an estimated 452,000 persons.

Substance Dependence, Abuse, and Treatment Need

NSDUH includes a series of questions to assess the prevalence of substance use disorders (i.e., dependence on or abuse of a substance) in the past 12 months. Substances include alcohol and illicit drugs, such as marijuana, cocaine, heroin, hallucinogens, and inhalants, and the non-medical use of prescription-type psychotherapeutic drugs. These questions are used to classify persons as being dependent on or abusing specific substances based on criteria specified in the *Diagnostic and Statistical Manual of Mental Disorders*, 4th edition (DSM-IV) (American Psychiatric Association [APA], 1994). The questions on dependence ask about health and emotional problems, attempts to cut down on use, tolerance, withdrawal, and other

symptoms associated with substances used. The questions on abuse ask about problems at work, home, and school, problems with family or friends, physical danger, and trouble with the law due to substance use. Dependence reflects a more severe substance problem than abuse, and persons are classified with abuse of a particular substance only if they are not dependent on that substance.

- Nationally, 3.39% of residents showed alcohol dependence during the past year and 1.95% showed some illicit drug dependence. In Michigan, 3.71% or 315,000 persons showed alcohol dependence in the past year and 2.09% or 177,000 showed dependence on an illicit drug. ([Table C7](#))
- For those 12 years of age or older who indicated either dependence or abuse, it can be seen that nationally, 9.28% of the population aged 12 or older indicated being dependent on or abusing alcohol or an illicit drug sometime during the past year. In Michigan the rate was 9.88% for an estimated 838,000 residents; the majority of these persons indicated either being dependent or abused alcohol. ([Table C8](#))
- In the United States, 7.66% of the population was classified with being dependent on or having abused alcohol in the past year; for illicit drugs the rate was 2.99%. In Michigan 8.17% or an estimated 693,000 persons indicated being dependent or having abused alcohol in the past year and 3.15% or 267,000 persons indicated being dependent or abused illicit drugs during the past year.

The definition of a person needing but not receiving treatment for an illicit drug use problem is that the person meets the criteria for abuse of or dependence on illicit drugs according to the DSM-IV, but has not received specialty treatment for an illicit drug problem in the past year. Specialty treatment is treatment received at a drug and alcohol rehabilitation facility (inpatient or outpatient), hospital (inpatient only), or mental health center.

- In 2002-2004, 7.27% of persons in the United States aged 12 or older needed treatment for alcohol use during the past year and did not receive it, 2.69% for those persons with an illicit drug use problem in the past year. In Michigan, 7.72% or an estimated 655,000 persons who needed treatment for alcohol use did not receive it; 2.72% or 231,000 persons for those with an illicit drug use problem in the past year. ([Table C9](#))

Tobacco

- About 29.81% of all persons in the United States aged 12 or older used tobacco in the past month. Tobacco is the second most commonly used substance in the United States next to alcohol. In Michigan, the rate of those using tobacco in the past month was 32.33% for an estimated 2,742,000 persons. ([Table C6](#))
- Because cigarettes are the major tobacco product, most of the areas with high tobacco use also had high rates of cigarettes. Nationally 25.46% of persons aged 12 or older indicated cigarette use during the past month. In Michigan, the rate was 28.17% or about 2,389,000 persons. Although, there is no detail regarding the amount of tobacco use, the survey indicated that 72.23% of those 12 or older in the United States perceived of great risk for smoking one or more packs of cigarettes per day. Michigan's rate of perceived risk was 71.13% or about 6,033,000 persons.

2002-2004 SubState Report of Substance Use
Section C: Tables of Model-Based Estimates for Substate Regions

Table C1. Any Illicit Drug Use in Past Month and Any Illicit Drug Use Other Than Marijuana in Past Month among Persons Aged 12 or Older

State / Substate Region (Substance Abuse Regional Coordinating Agencies - CAs)	Census 2004 Estimates For Persons Aged 12 and Older ^A	Any Illicit Drug Use in Past Month ¹				Any Illicit Drug Use Other Than Marijuana in Past Month ²			
		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C	
		Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval
National		8.13				3.64			
Michigan	8,482,352	9.18	8.53 - 9.87	779,000	724,000 - 837,000	3.55	3.19 - 3.94	301,000	271,000 - 334,000
Detroit Dept. of Health	717,778	12.06	9.97 - 14.52	87,000	72,000 - 104,000	3.77	2.84 - 5.00	27,000	20,000 - 36,000
Genesee County CMH	367,000	11.97	9.57 - 14.88	44,000	35,000 - 55,000	4.12	3.11 - 5.44	15,000	11,000 - 20,000
Kalamazoo CMH	409,926	10.13	8.35 - 12.23	42,000	34,000 - 50,000	3.73	2.97 - 4.68	15,000	12,000 - 19,000
Lakeshore Coord. Council	629,320	9.24	7.53 - 11.28	58,000	47,000 - 71,000	3.45	2.75 - 4.33	22,000	17,000 - 27,000
Macomb County CMH	696,759	8.59	7.10 - 10.37	60,000	49,000 - 72,000	3.19	2.52 - 4.03	22,000	18,000 - 28,000
Mid-South Sub Abuse Com.	899,533	8.65	7.22 - 10.33	78,000	65,000 - 93,000	3.64	2.94 - 4.50	33,000	26,000 - 40,000
network180	484,370	8.05	6.50 - 9.94	39,000	31,000 - 48,000	3.52	2.80 - 4.41	17,000	14,000 - 21,000
Northern MI S.A. Srv.	740,219	7.93	6.47 - 9.70	59,000	48,000 - 72,000	3.40	2.69 - 4.29	25,000	20,000 - 32,000
Oakland County Health Div.	1,019,263	8.31	6.96 - 9.90	85,000	71,000 - 101,000	2.98	2.35 - 3.76	30,000	24,000 - 38,000
Pathways to Healthy Living	178,653	11.66	8.99 - 14.99	21,000	16,000 - 27,000	3.89	2.97 - 5.07	7,000	5,000 - 9,000
Riverhaven Coord. Agency	303,589	8.06	6.15 - 10.49	24,000	19,000 - 32,000	3.56	2.73 - 4.63	11,000	8,000 - 14,000
Saginaw County Health Dpt.	175,416	8.22	6.26 - 10.72	14,000	11,000 - 19,000	3.39	2.59 - 4.42	6,000	5,000 - 8,000
SE MI Community Alliance	1,063,763	9.55	8.09 - 11.25	102,000	86,000 - 120,000	3.99	3.21 - 4.95	42,000	34,000 - 53,000
St. Clair County Hlth. Dpt.	260,158	7.66	5.96 - 9.80	20,000	16,000 - 25,000	3.29	2.51 - 4.31	9,000	7,000 - 11,000
Washtenaw Cmnty.Hlth.Org.	438,695	9.00	7.31 - 11.05	39,000	32,000 - 48,000	3.64	2.87 - 4.61	16,000	13,000 - 20,000
Western UP S.A. Srv.	97,910	7.46	5.51 - 10.02	7,000	5,000 - 10,000	3.47	2.60 - 4.62	3,000	3,000 - 5,000

¹ 'Any Illicit Drug' includes marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or any prescription-type psychotherapeutic used nonmedically.

² 'Any Illicit Drug Other Than Marijuana' includes cocaine (including crack), heroin, hallucinogens, inhalants, or any prescription-type psychotherapeutic used nonmedically.

^A 2004 census estimates provided by Library of Michigan, State Demographer, Ken Darga.

^B Substance Abuse estimated percentages, annual averages are calculated from research provided by SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health (NSDUH) - 2002, 2003, and 2004. <http://oas.samhsa.gov/substate2k6/SecC.htm>

^C Population estimates are rounded to nearest 1,000.

2002-2004 SubState Report of Substance Use
Section C: Tables of Model-Based Estimates for Substate Regions

Table C2. Marijuana Use in Past Month, Average Annual Rate of First Use of Marijuana, and Perceptions of Great Risk of Smoking Marijuana Once a Month among Persons Aged 12 or Older

State / Substate Region (Substance Abuse Regional Coordinating Agencies - CAs)	Census 2004 Estimates For Persons Aged 12 and Older ^A	Marijuana Use in Past Month				Average Annual Rate of First Use of Marijuana ¹				Perceptions of Great Risk of Smoking Marijuana Once a Month			
		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C	
		Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval
National		6.12				1.78				39.30			
Michigan	8,482,352	7.31	6.72 - 7.94	620,000	570,000 - 673,000	2.06	1.91 - 2.21	175,000	162,000 - 187,000	36.39	35.10 - 37.70	3,087,000	2,977,000 - 3,198,000
Detroit Dept. of Health	717,778	9.12	7.42 - 11.16	65,000	53,000 - 80,000	2.15	1.74 - 2.66	15,000	12,000 - 19,000	42.85	39.13 - 46.66	308,000	281,000 - 335,000
Genesee County CMH	367,000	9.23	7.24 - 11.70	34,000	27,000 - 43,000	2.31	1.83 - 2.93	8,000	7,000 - 11,000	37.34	33.02 - 41.88	137,000	121,000 - 154,000
Kalamazoo CMH	409,926	7.94	6.41 - 9.79	33,000	26,000 - 40,000	2.29	1.85 - 2.84	9,000	8,000 - 12,000	38.41	34.48 - 42.50	157,000	141,000 - 174,000
Lakeshore Coord. Council	629,320	7.88	6.31 - 9.80	50,000	40,000 - 62,000	2.16	1.79 - 2.60	14,000	11,000 - 16,000	39.83	36.19 - 43.58	251,000	228,000 - 274,000
Macomb County CMH	696,759	7.00	5.62 - 8.69	49,000	39,000 - 61,000	1.87	1.52 - 2.30	13,000	11,000 - 16,000	34.69	30.92 - 38.67	242,000	215,000 - 269,000
Mid-South Sub Abuse Com.	899,533	6.67	5.50 - 8.07	60,000	49,000 - 73,000	2.61	2.17 - 3.13	23,000	20,000 - 28,000	33.36	30.04 - 36.86	300,000	270,000 - 332,000
network180	484,370	6.04	4.76 - 7.64	29,000	23,000 - 37,000	2.21	1.78 - 2.74	11,000	9,000 - 13,000	38.00	33.87 - 42.32	184,000	164,000 - 205,000
Northern MI S.A. Srv.	740,219	6.66	5.37 - 8.24	49,000	40,000 - 61,000	2.15	1.78 - 2.60	16,000	13,000 - 19,000	38.11	34.26 - 42.12	282,000	254,000 - 312,000
Oakland County Health Div.	1,019,263	7.24	5.97 - 8.77	74,000	61,000 - 89,000	1.78	1.47 - 2.16	18,000	15,000 - 22,000	29.74	26.52 - 33.17	303,000	270,000 - 338,000
Pathways to Healthy Living	178,653	9.11	6.86 - 12.00	16,000	12,000 - 21,000	2.62	1.94 - 3.54	5,000	3,000 - 6,000	36.96	31.88 - 42.35	66,000	57,000 - 76,000
Riverhaven Coord. Agency	303,589	6.32	4.73 - 8.40	19,000	14,000 - 26,000	1.70	1.30 - 2.22	5,000	4,000 - 7,000	38.18	33.12 - 43.52	116,000	101,000 - 132,000
Saginaw County Health Dpt.	175,416	6.56	4.81 - 8.88	12,000	8,000 - 16,000	1.92	1.43 - 2.57	3,000	3,000 - 5,000	40.86	35.70 - 46.22	72,000	63,000 - 81,000
SE MI Community Alliance	1,063,763	7.06	5.86 - 8.49	75,000	62,000 - 90,000	1.79	1.50 - 2.13	19,000	16,000 - 23,000	36.77	33.53 - 40.14	391,000	357,000 - 427,000
St. Clair County Hlth. Dpt.	260,158	6.22	4.69 - 8.20	16,000	12,000 - 21,000	1.67	1.27 - 2.20	4,000	3,000 - 6,000	41.63	36.56 - 46.87	108,000	95,000 - 122,000
Washtenaw Cmnty.Hlth.Org	438,695	7.59	6.09 - 9.42	33,000	27,000 - 41,000	1.97	1.50 - 2.58	9,000	7,000 - 11,000	29.59	25.92 - 33.54	130,000	114,000 - 147,000
Western UP S.A. Srv.	97,910	5.83	4.17 - 8.08	6,000	4,000 - 8,000	1.45	1.00 - 2.10	1,000	1,000 - 2,000	39.49	33.84 - 45.43	39,000	33,000 - 44,000

¹ Average Annual Rate = 100 * [(Number of Marijuana Initiates in past 24 months)/((Number of Marijuana Initiates in past 24 months * 0.5) + Number of persons who never used marijuana)]/2. Both the computation components, Number of Marijuana Initiates in past 24 months and Number of persons who never used marijuana, are based on a survey-weighted hierarchical Bayes estimation approach. Note that the age group is based on a respondent's age at the time of the interview, not his or her age at first use. The prediction intervals for Average Annual Rate of First Use of Marijuana use a simultaneous solution for First Use of Marijuana and Never Used Marijuana outcomes, which had random effects that were allowed to be correlated across the two outcomes. The associated Markov Chain Monte Carlo chains were used to calculate the posterior variance.

^A 2004 census estimates provided by Library of Michigan, State Demographer, Ken Darga.

^B Substance Abuse estimated percentages, annual averages are calculated from research provided by SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health (NSDUH) - 2002, 2003, and 2004. <http://oas.samhsa.gov/substate2k6/SecC.htm>

^C Population estimates are rounded to nearest 1,000.

2002-2004 SubState Report of Substance Use
Section C: Tables of Model-Based Estimates for Substate Regions

Table C3. Marijuana Use in Past Year, Cocaine Use in Past Year, and Nonmedical Use of Pain Relievers in Past Year among Persons Aged 12 or Older

State / Substate Region (Substance Abuse Regional Coordinating Agencies - CAs)	Census 2004 Estimates For Persons Aged 12 and Older ^A	Marijuana Use in Past Year				Cocaine Use in Past Year				Nonmedical Use of Pain Relievers in Past Year			
		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C	
		Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval
National		10.71				2.46				4.76			
Michigan	8,482,352	12.54	11.78 - 13.34	1,064,000	999,000 - 1,132,000	2.56	2.24 - 2.93	217,000	190,000 - 249,000	5.33	4.83 - 5.87	452,000	410,000 - 498,000
Detroit Dept. of Health	717,778	14.98	12.66 - 17.64	108,000	91,000 - 127,000	3.53	2.40 - 5.16	25,000	17,000 - 37,000	3.98	3.03 - 5.22	29,000	22,000 - 37,000
Genesee County CMH	367,000	14.62	12.07 - 17.62	54,000	44,000 - 65,000	2.88	2.10 - 3.93	11,000	8,000 - 14,000	6.31	4.92 - 8.07	23,000	18,000 - 30,000
Kalamazoo CMH	409,926	14.48	12.23 - 17.07	59,000	50,000 - 70,000	2.92	2.18 - 3.91	12,000	9,000 - 16,000	6.03	4.92 - 7.38	25,000	20,000 - 30,000
Lakeshore Coord. Council	629,320	12.34	10.49 - 14.45	78,000	66,000 - 91,000	2.34	1.79 - 3.07	15,000	11,000 - 19,000	5.41	4.43 - 6.59	34,000	28,000 - 41,000
Macomb County CMH	696,759	11.86	9.91 - 14.14	83,000	69,000 - 99,000	2.39	1.80 - 3.16	17,000	13,000 - 22,000	5.43	4.31 - 6.83	38,000	30,000 - 48,000
Mid-South Sub Abuse Com.	899,533	12.20	10.50 - 14.13	110,000	94,000 - 127,000	2.45	1.89 - 3.16	22,000	17,000 - 28,000	5.37	4.45 - 6.47	48,000	40,000 - 58,000
network180	484,370	11.84	9.80 - 14.23	57,000	47,000 - 69,000	2.63	1.98 - 3.48	13,000	10,000 - 17,000	5.14	4.03 - 6.52	25,000	20,000 - 32,000
Northern MI S.A. Srv.	740,219	11.97	10.17 - 14.05	89,000	75,000 - 104,000	2.23	1.71 - 2.92	17,000	13,000 - 22,000	5.85	4.71 - 7.25	43,000	35,000 - 54,000
Oakland County Health Div.	1,019,263	12.12	10.38 - 14.11	124,000	106,000 - 144,000	2.47	1.89 - 3.23	25,000	19,000 - 33,000	4.64	3.76 - 5.70	47,000	38,000 - 58,000
Pathways to Healthy Living	178,653	13.97	11.23 - 17.26	25,000	20,000 - 31,000	2.56	1.90 - 3.46	5,000	3,000 - 6,000	6.33	4.86 - 8.20	11,000	9,000 - 15,000
Riverhaven Coord. Agency	303,589	10.80	8.58 - 13.50	33,000	26,000 - 41,000	2.26	1.66 - 3.06	7,000	5,000 - 9,000	5.53	4.22 - 7.21	17,000	13,000 - 22,000
Saginaw County Health Dpt.	175,416	10.75	8.31 - 13.80	19,000	15,000 - 24,000	2.57	1.86 - 3.54	5,000	3,000 - 6,000	4.85	3.67 - 6.37	9,000	6,000 - 11,000
SE MI Community Alliance	1,063,763	12.37	10.59 - 14.41	132,000	113,000 - 153,000	2.51	1.96 - 3.21	27,000	21,000 - 34,000	5.66	4.61 - 6.94	60,000	49,000 - 74,000
St. Clair County Hlth. Dpt.	260,158	11.36	9.12 - 14.06	30,000	24,000 - 37,000	2.28	1.71 - 3.04	6,000	4,000 - 8,000	4.58	3.47 - 6.03	12,000	9,000 - 16,000
Washtenaw Cmnty.Hlth.Org	438,695	12.96	10.88 - 15.37	57,000	48,000 - 67,000	2.45	1.85 - 3.23	11,000	8,000 - 14,000	6.00	4.75 - 7.54	26,000	21,000 - 33,000
Western UP S.A. Srv.	97,910	8.80	6.61 - 11.62	9,000	6,000 - 11,000	2.08	1.52 - 2.85	2,000	1,000 - 3,000	5.10	3.78 - 6.83	5,000	4,000 - 7,000

^A 2004 census estimates provided by Library of Michigan, State Demographer, Ken Darga.

^B Substance Abuse estimated percentages, annual averages are calculated from research provided by SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health (NSDUH) - 2002, 2003, and 2004. <http://oas.samhsa.gov/substate2k6/SecC.htm>

^C Population estimates are rounded to nearest 1,000.

2002-2004 SubState Report of Substance Use
Section C: Tables of Model-Based Estimates for Substate Regions

Table C4. Alcohol Use in Past Month, Binge Alcohol Use in Past Month, and Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week among Persons Aged 12 or Older

State / Substate Region (Substance Abuse Regional Coordinating Agencies - CAs)	Census 2004 Estimates For Persons Aged 12 and Older ^A	Alcohol Use in Past Month				Binge Alcohol Use in Past Month ¹				Perceptions of Great Risk of Having Five or More Drinks of an Alcoholic Beverage Once or Twice a Week			
		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C	
		Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval
National		50.38				22.81				41.71			
Michigan	8,482,352	52.93	51.51 - 54.34	4,490,000	4,369,000 - 4,609,000	24.52	23.41 - 25.66	2,080,000	1,986,000 - 2,177,000	38.65	37.32 - 39.99	3,278,000	3,166,000 - 3,392,000
Detroit Dept. of Health	717,778	39.44	35.58 - 43.43	283,000	255,000 - 312,000	22.64	19.82 - 25.74	163,000	142,000 - 185,000	49.02	45.39 - 52.66	352,000	326,000 - 378,000
Genesee County CMH	367,000	52.18	47.59 - 56.74	192,000	175,000 - 208,000	24.67	21.46 - 28.19	91,000	79,000 - 103,000	39.76	35.92 - 43.72	146,000	132,000 - 160,000
Kalamazoo CMH	409,926	54.47	50.30 - 58.58	223,000	206,000 - 240,000	27.59	24.61 - 30.77	113,000	101,000 - 126,000	36.66	33.10 - 40.37	150,000	136,000 - 165,000
Lakeshore Coord. Council	629,320	50.80	47.02 - 54.57	320,000	296,000 - 343,000	23.42	20.81 - 26.25	147,000	131,000 - 165,000	39.47	36.04 - 43.00	248,000	227,000 - 271,000
Macomb County CMH	696,759	58.23	54.31 - 62.06	406,000	378,000 - 432,000	25.91	23.00 - 29.04	181,000	160,000 - 202,000	36.14	32.87 - 39.54	252,000	229,000 - 275,000
Mid-South Sub Abuse Com.	899,533	51.08	47.48 - 54.66	459,000	427,000 - 492,000	23.19	20.70 - 25.88	209,000	186,000 - 233,000	35.35	32.04 - 38.81	318,000	288,000 - 349,000
network180	484,370	52.10	47.77 - 56.40	252,000	231,000 - 273,000	24.32	21.39 - 27.52	118,000	104,000 - 133,000	41.07	37.14 - 45.11	199,000	180,000 - 218,000
Northern MI S.A. Srv.	740,219	52.03	47.76 - 56.26	385,000	354,000 - 416,000	27.32	24.45 - 30.40	202,000	181,000 - 225,000	35.37	32.00 - 38.90	262,000	237,000 - 288,000
Oakland County Health Div.	1,019,263	59.25	55.78 - 62.64	604,000	569,000 - 638,000	24.00	21.59 - 26.58	245,000	220,000 - 271,000	38.91	35.73 - 42.18	397,000	364,000 - 430,000
Pathways to Healthy Living	178,653	56.04	49.97 - 61.93	100,000	89,000 - 111,000	28.50	24.56 - 32.80	51,000	44,000 - 59,000	35.92	31.27 - 40.86	64,000	56,000 - 73,000
Riverhaven Coord. Agency	303,589	48.80	43.42 - 54.21	148,000	132,000 - 165,000	24.94	21.54 - 28.68	76,000	65,000 - 87,000	36.63	32.43 - 41.05	111,000	98,000 - 125,000
Saginaw County Health Dpt.	175,416	52.52	46.81 - 58.17	92,000	82,000 - 102,000	24.17	20.64 - 28.09	42,000	36,000 - 49,000	38.62	34.22 - 43.21	68,000	60,000 - 76,000
SE MI Community Alliance	1,063,763	53.73	50.19 - 57.22	572,000	534,000 - 609,000	22.51	20.17 - 25.03	239,000	215,000 - 266,000	38.43	35.27 - 41.70	409,000	375,000 - 444,000
St. Clair County Hlth. Dpt.	260,158	52.25	46.77 - 57.68	136,000	122,000 - 150,000	25.32	21.77 - 29.23	66,000	57,000 - 76,000	38.56	34.25 - 43.06	100,000	89,000 - 112,000
Washtenaw Cmnty.Hlth.Org	438,695	62.52	58.39 - 66.48	274,000	256,000 - 292,000	25.99	23.03 - 29.18	114,000	101,000 - 128,000	38.18	34.44 - 42.06	167,000	151,000 - 185,000
Western UP S.A. Srv.	97,910	47.39	41.00 - 53.86	46,000	40,000 - 53,000	24.45	20.79 - 28.52	24,000	20,000 - 28,000	33.80	29.30 - 38.61	33,000	29,000 - 38,000

¹ 'Binge Alcohol Use' is defined as drinking five or more drinks on the same occasion (i.e., at the same time or within a couple of hours of each other) on at least 1 day in the past 30 days.

^A 2004 census estimates provided by Library of Michigan, State Demographer, Ken Darga.

^B Substance Abuse estimated percentages, annual averages are calculated from research provided by SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health (NSDUH) - 2002, 2003, and 2004. <http://oas.samhsa.gov/substate2k6/SecC.htm>

^C Population estimates are rounded to nearest 1,000.

2002-2004 SubState Report of Substance Use
Section C: Tables of Model-Based Estimates for Substate Regions

Table C5. Alcohol Use in Past Month and Binge Alcohol Use in Past Month among Persons Aged 12 to 20,

State / Substate Region (Substance Abuse Regional Coordinating Agencies - CAs)	Census 2004 Estimates For Persons Aged 12 to 20 ^A	Alcohol Use in Past Month				Binge Alcohol Use in Past Month ¹			
		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C	
		Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval
National		28.72				19.25			
Michigan	1,345,751	30.47	29.28 - 31.69	410,000	394,000 - 426,000	20.79	19.75 - 21.86	280,000	266,000 - 294,000
Detroit Dept. of Health	131,782	21.31	18.46 - 24.48	28,000	24,000 - 32,000	11.70	9.72 - 14.03	15,000	13,000 - 18,000
Genesee County CMH	58,245	30.88	27.17 - 34.86	18,000	16,000 - 20,000	21.46	18.25 - 25.06	12,000	11,000 - 15,000
Kalamazoo CMH	67,551	34.85	31.10 - 38.80	24,000	21,000 - 26,000	26.79	23.45 - 30.41	18,000	16,000 - 21,000
Lakeshore Coord. Council	106,662	31.40	28.18 - 34.81	33,000	30,000 - 37,000	20.84	18.14 - 23.82	22,000	19,000 - 25,000
Macomb County CMH	96,561	32.77	29.14 - 36.62	32,000	28,000 - 35,000	22.52	19.45 - 25.92	22,000	19,000 - 25,000
Mid-South Sub Abuse Com.	149,109	29.40	26.25 - 32.77	44,000	39,000 - 49,000	19.25	16.56 - 22.26	29,000	25,000 - 33,000
network180	81,193	29.44	25.93 - 33.20	24,000	21,000 - 27,000	19.25	16.37 - 22.51	16,000	13,000 - 18,000
Northern MI S.A. Srv.	113,448	36.29	32.86 - 39.85	41,000	37,000 - 45,000	26.70	23.57 - 30.09	30,000	27,000 - 34,000
Oakland County Health Div.	148,694	29.71	26.54 - 33.09	44,000	39,000 - 49,000	20.92	18.20 - 23.92	31,000	27,000 - 36,000
Pathways to Healthy Living	25,451	36.76	31.89 - 41.91	9,000	8,000 - 11,000	26.34	22.17 - 30.99	7,000	6,000 - 8,000
Riverhaven Coord. Agency	45,147	32.55	28.04 - 37.41	15,000	13,000 - 17,000	23.45	19.72 - 27.64	11,000	9,000 - 12,000
Saginaw County Health Dpt.	28,785	31.09	26.22 - 36.43	9,000	8,000 - 10,000	22.03	17.91 - 26.79	6,000	5,000 - 8,000
SE MI Community Alliance	163,129	29.41	26.61 - 32.38	48,000	43,000 - 53,000	19.05	16.63 - 21.73	31,000	27,000 - 35,000
St. Clair County Hlth. Dpt.	40,062	29.94	25.61 - 34.66	12,000	10,000 - 14,000	22.01	18.36 - 26.16	9,000	7,000 - 10,000
Washtenaw Cmnty.Hlth.Org.	75,065	32.90	28.95 - 37.10	25,000	22,000 - 28,000	22.20	18.66 - 26.19	17,000	14,000 - 20,000
Western UP S.A. Srv.	14,867	28.81	24.00 - 34.14	4,000	4,000 - 5,000	22.73	18.89 - 27.09	3,000	3,000 - 4,000

¹ 'Binge Alcohol Use' is defined as drinking five or more drinks on the same occasion (i.e., at the same time or within a couple of hours of each other) on at least 1 day in the past 30 days.

^A 2004 census estimates provided by Library of Michigan, State Demographer, Ken Darga.

^B Substance Abuse estimated percentages, annual averages are calculated from research provided by SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health (NSDUH) - 2002, 2003, and 2004. <http://oas.samhsa.gov/substate2k6/SecC.htm>

^C Population estimates are rounded to nearest 1,000.

2002-2004 SubState Report of Substance Use
Section C: Tables of Model-Based Estimates for Substate Regions

Table C6. Cigarette Use in Past Month, Any Tobacco Product Use in Past Month, and Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day among Persons Aged 12 or Older

State / Substate Region (Substance Abuse Regional Coordinating Agencies - CAs)	Census 2004 Estimates For Persons Aged 12 and Older ^A	Cigarette Use in Past Month				Any Tobacco Product Use in Past Month ¹				Perceptions of Great Risk of Smoking One or More Packs of Cigarettes Per Day			
		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C	
		Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval
National		25.46				29.81				72.23			
Michigan	8,482,352	28.17	26.94 - 29.43	2,389,000	2,285,000 - 2,496,000	32.33	31.02 - 33.67	2,742,000	2,631,000 - 2,856,000	71.13	69.88 - 72.34	6,033,000	5,927,000 - 6,136,000
Detroit Dept. of Health	717,778	30.67	27.44 - 34.10	220,000	197,000 - 245,000	33.40	30.02 - 36.96	240,000	215,000 - 265,000	72.91	70.04 - 75.61	523,000	503,000 - 543,000
Genesee County CMH	367,000	29.34	25.91 - 33.02	108,000	95,000 - 121,000	32.88	29.28 - 36.70	121,000	107,000 - 135,000	70.25	66.81 - 73.48	258,000	245,000 - 270,000
Kalamazoo CMH	409,926	30.24	26.95 - 33.75	124,000	110,000 - 138,000	35.37	31.85 - 39.06	145,000	131,000 - 160,000	70.82	67.94 - 73.55	290,000	279,000 - 302,000
Lakeshore Coord. Council	629,320	28.21	25.36 - 31.23	178,000	160,000 - 197,000	31.83	28.67 - 35.15	200,000	180,000 - 221,000	70.91	68.00 - 73.66	446,000	428,000 - 464,000
Macomb County CMH	696,759	26.99	24.04 - 30.16	188,000	168,000 - 210,000	31.20	27.89 - 34.73	217,000	194,000 - 242,000	71.25	68.21 - 74.11	496,000	475,000 - 516,000
Mid-South Sub Abuse Com.	899,533	29.56	26.83 - 32.45	266,000	241,000 - 292,000	34.45	31.32 - 37.73	310,000	282,000 - 339,000	68.15	65.28 - 70.89	613,000	587,000 - 638,000
network180	484,370	26.72	23.72 - 29.95	129,000	115,000 - 145,000	30.40	27.16 - 33.84	147,000	132,000 - 164,000	72.62	69.52 - 75.52	352,000	337,000 - 366,000
Northern MI S.A. Srv.	740,219	28.67	25.65 - 31.90	212,000	190,000 - 236,000	33.81	30.48 - 37.30	250,000	226,000 - 276,000	68.89	65.75 - 71.86	510,000	487,000 - 532,000
Oakland County Health Div.	1,019,263	24.52	21.94 - 27.30	250,000	224,000 - 278,000	28.67	25.88 - 31.64	292,000	264,000 - 322,000	73.85	71.13 - 76.40	753,000	725,000 - 779,000
Pathways to Healthy Living	178,653	30.77	26.93 - 34.90	55,000	48,000 - 62,000	36.53	31.81 - 41.53	65,000	57,000 - 74,000	70.17	66.47 - 73.63	125,000	119,000 - 132,000
Riverhaven Coord. Agency	303,589	30.14	26.39 - 34.17	92,000	80,000 - 104,000	34.98	30.73 - 39.48	106,000	93,000 - 120,000	68.15	64.43 - 71.66	207,000	196,000 - 218,000
Saginaw County Health Dpt.	175,416	27.75	24.20 - 31.61	49,000	42,000 - 55,000	32.10	28.09 - 36.40	56,000	49,000 - 64,000	70.32	66.66 - 73.72	123,000	117,000 - 129,000
SE MI Community Alliance	1,063,763	29.21	26.51 - 32.06	311,000	282,000 - 341,000	33.10	30.27 - 36.06	352,000	322,000 - 384,000	71.66	68.94 - 74.24	762,000	733,000 - 790,000
St. Clair County Hlth. Dpt.	260,158	30.43	26.69 - 34.44	79,000	69,000 - 90,000	34.61	30.57 - 38.89	90,000	80,000 - 101,000	68.32	64.71 - 71.71	178,000	168,000 - 187,000
Washtenaw Cmnty.Hlth.Org	438,695	23.10	20.37 - 26.07	101,000	89,000 - 114,000	26.63	23.49 - 30.01	117,000	103,000 - 132,000	74.59	71.68 - 77.28	327,000	314,000 - 339,000
Western UP S.A. Srv.	97,910	28.02	23.99 - 32.44	27,000	23,000 - 32,000	33.50	29.05 - 38.27	33,000	28,000 - 37,000	69.74	65.90 - 73.33	68,000	65,000 - 72,000

¹ Any Tobacco product includes cigarettes, smokeless tobacco (i.e., chewing tobacco or snuff), cigars, or pipe tobacco.

^A 2004 census estimates provided by Library of Michigan, State Demographer, Ken Darga.

^B Substance Abuse estimated percentages, annual averages are calculated from research provided by SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health (NSDUH) - 2002, 2003, and 2004. <http://oas.samhsa.gov/substate2k6/SecC.htm>

^C Population estimates are rounded to nearest 1,000.

2002-2004 SubState Report of Substance Use
Section C: Tables of Model-Based Estimates for Substate Regions

Table C7. Alcohol Dependence in Past Year and Any Illicit Drug Dependence in Past Year among Persons Aged 12 or Older

State / Substate Region (Substance Abuse Regional Coordinating Agencies - CAs)	Census 2004 Estimates For Persons Aged 12 and Older ^A	Alcohol Dependence in Past Year				Any Illicit Drug Dependence in Past Year ¹			
		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C	
		Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval
National		3.39				1.95			
Michigan	8,482,352	3.71	3.30 - 4.17	315,000	280,000 - 354,000	2.09	1.82 - 2.41	177,000	154,000 - 204,000
Detroit Dept. of Health	717,778	4.79	3.62 - 6.31	34,000	26,000 - 45,000	3.19	2.26 - 4.49	23,000	16,000 - 32,000
Genesee County CMH	367,000	3.59	2.71 - 4.74	13,000	10,000 - 17,000	2.25	1.66 - 3.03	8,000	6,000 - 11,000
Kalamazoo CMH	409,926	4.56	3.51 - 5.91	19,000	14,000 - 24,000	2.17	1.63 - 2.87	9,000	7,000 - 12,000
Lakeshore Coord. Council	629,320	3.46	2.72 - 4.40	22,000	17,000 - 28,000	1.90	1.43 - 2.53	12,000	9,000 - 16,000
Macomb County CMH	696,759	3.61	2.79 - 4.65	25,000	19,000 - 32,000	1.77	1.33 - 2.34	12,000	9,000 - 16,000
Mid-South Sub Abuse Com.	899,533	3.65	2.91 - 4.58	33,000	26,000 - 41,000	1.93	1.48 - 2.52	17,000	13,000 - 23,000
network180	484,370	4.25	3.27 - 5.53	21,000	16,000 - 27,000	2.26	1.70 - 3.01	11,000	8,000 - 15,000
Northern MI S.A. Srv.	740,219	3.37	2.62 - 4.33	25,000	19,000 - 32,000	1.73	1.31 - 2.27	13,000	10,000 - 17,000
Oakland County Health Div.	1,019,263	3.39	2.67 - 4.30	35,000	27,000 - 44,000	2.28	1.74 - 2.99	23,000	18,000 - 30,000
Pathways to Healthy Living	178,653	3.73	2.77 - 5.01	7,000	5,000 - 9,000	1.95	1.42 - 2.67	3,000	3,000 - 5,000
Riverhaven Coord. Agency	303,589	3.34	2.50 - 4.47	10,000	8,000 - 14,000	1.68	1.22 - 2.31	5,000	4,000 - 7,000
Saginaw County Health Dpt.	175,416	3.45	2.55 - 4.65	6,000	4,000 - 8,000	1.86	1.32 - 2.62	3,000	2,000 - 5,000
SE MI Community Alliance	1,063,763	3.67	2.87 - 4.68	39,000	31,000 - 50,000	1.98	1.52 - 2.56	21,000	16,000 - 27,000
St. Clair County Hlth. Dpt.	260,158	3.08	2.28 - 4.13	8,000	6,000 - 11,000	1.78	1.31 - 2.42	5,000	3,000 - 6,000
Washtenaw Cmnty.Hlth.Org	438,695	3.40	2.58 - 4.47	15,000	11,000 - 20,000	2.13	1.59 - 2.84	9,000	7,000 - 12,000
Western UP S.A. Srv.	97,910	3.45	2.51 - 4.73	3,000	2,000 - 5,000	1.76	1.27 - 2.43	2,000	1,000 - 2,000

NOTE: Dependence is based on the definition found in the 4th edition of the *Diagnostic and Statistical Manual of Mental Disorders* (DSM-IV).

¹ Any Illicit Drug¹ includes marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or any prescription-type psychotherapeutic used nonmedically.

^A 2004 census estimates provided by Library of Michigan, State Demographer, Ken Darga.

^B Substance Abuse estimated percentages, annual averages are calculated from research provided by SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health (NSDUH) - 2002, 2003, and 2004. <http://oas.samhsa.gov/substate2k6/SecC.htm>

^C Population estimates are rounded to nearest 1,000.

NOTE: Percentage estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

2002-2004 SubState Report of Substance Use
Section C: Tables of Model-Based Estimates for Substate Regions

Table C8. Alcohol Dependence or Abuse in Past Year, Any Illicit Drug Dependence or Abuse in Past Year, and Dependence on or Abuse of Any Illicit Drug or Alcohol in Past Year among Persons Aged 12 or Older

State / Substate Region (Substance Abuse Regional Coordinating Agencies - CAs)	Census 2004 Estimates For Persons Aged 12 and Older ^A	Alcohol Dependence or Abuse in Past Year				Any Illicit Drug Dependence or Abuse in Past Year ¹				Dependence on or Abuse of Any Illicit Drug or Alcohol in Past Year ¹			
		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C	
		Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval
National		7.66				2.99				9.28			
Michigan	8,482,352	8.17	7.54 - 8.84	693,000	640,000 - 750,000	3.15	2.81 - 3.54	267,000	238,000 - 300,000	9.88	9.20 - 10.61	838,000	780,000 - 900,000
Detroit Dept. of Health	717,778	8.31	6.75 - 10.19	60,000	48,000 - 73,000	4.08	3.07 - 5.41	29,000	22,000 - 39,000	11.24	9.33 - 13.48	81,000	67,000 - 97,000
Genesee County CMH	367,000	8.02	6.49 - 9.87	29,000	24,000 - 36,000	3.45	2.64 - 4.48	13,000	10,000 - 16,000	10.14	8.46 - 12.11	37,000	31,000 - 44,000
Kalamazoo CMH	409,926	9.95	8.36 - 11.81	41,000	34,000 - 48,000	3.18	2.52 - 4.00	13,000	10,000 - 16,000	11.38	9.69 - 13.31	47,000	40,000 - 55,000
Lakeshore Coord. Council	629,320	8.07	6.78 - 9.58	51,000	43,000 - 60,000	3.20	2.53 - 4.04	20,000	16,000 - 25,000	9.63	8.20 - 11.28	61,000	52,000 - 71,000
Macomb County CMH	696,759	7.99	6.62 - 9.60	56,000	46,000 - 67,000	3.00	2.35 - 3.81	21,000	16,000 - 27,000	10.14	8.56 - 11.98	71,000	60,000 - 83,000
Mid-South Sub Abuse Com.	899,533	8.37	7.08 - 9.88	75,000	64,000 - 89,000	2.99	2.40 - 3.71	27,000	22,000 - 33,000	9.82	8.44 - 11.40	88,000	76,000 - 103,000
network180	484,370	9.08	7.54 - 10.89	44,000	37,000 - 53,000	3.09	2.42 - 3.94	15,000	12,000 - 19,000	10.38	8.75 - 12.27	50,000	42,000 - 59,000
Northern MI S.A. Srv.	740,219	8.58	7.18 - 10.23	64,000	53,000 - 76,000	2.99	2.36 - 3.78	22,000	17,000 - 28,000	9.98	8.50 - 11.68	74,000	63,000 - 86,000
Oakland County Health Div.	1,019,263	7.58	6.32 - 9.07	77,000	64,000 - 92,000	3.32	2.64 - 4.17	34,000	27,000 - 43,000	9.20	7.81 - 10.80	94,000	80,000 - 110,000
Pathways to Healthy Living	178,653	8.94	7.23 - 11.00	16,000	13,000 - 20,000	3.04	2.30 - 4.02	5,000	4,000 - 7,000	10.53	8.61 - 12.81	19,000	15,000 - 23,000
Riverhaven Coord. Agency	303,589	7.95	6.40 - 9.83	24,000	19,000 - 30,000	2.94	2.22 - 3.88	9,000	7,000 - 12,000	9.12	7.45 - 11.13	28,000	23,000 - 34,000
Saginaw County Health Dpt.	175,416	7.69	6.15 - 9.58	13,000	11,000 - 17,000	3.06	2.33 - 4.02	5,000	4,000 - 7,000	9.30	7.52 - 11.44	16,000	13,000 - 20,000
SE MI Community Alliance	1,063,763	7.77	6.50 - 9.27	83,000	69,000 - 99,000	2.81	2.21 - 3.56	30,000	24,000 - 38,000	9.45	8.02 - 11.12	101,000	85,000 - 118,000
St. Clair County Hlth. Dpt.	260,158	7.22	5.82 - 8.92	19,000	15,000 - 23,000	2.81	2.14 - 3.67	7,000	6,000 - 10,000	8.38	6.82 - 10.26	22,000	18,000 - 27,000
Washtenaw Cmnty.Hlth.Org.	438,695	7.77	6.35 - 9.47	34,000	28,000 - 42,000	3.17	2.45 - 4.08	14,000	11,000 - 18,000	9.47	7.88 - 11.35	42,000	35,000 - 50,000
Western UP S.A. Srv.	97,910	7.21	5.67 - 9.14	7,000	6,000 - 9,000	2.75	2.06 - 3.66	3,000	2,000 - 4,000	9.00	7.25 - 11.12	9,000	7,000 - 11,000

NOTE: Dependence or abuse is based on definitions found in the 4th edition of the *Diagnostic and Statistical Manual of Mental Disorders* (DSM-IV).

¹ 'Any Illicit Drug' includes marijuana/hashish, cocaine (including crack), heroin, hallucinogens, inhalants, or any prescription-type psychotherapeutic used nonmedically.

None of the CA percentages differed significantly (p<0.05) from the state percentage.

^A 2004 census estimates provided by Library of Michigan, State Demographer, Ken Darga.

^B Substance Abuse estimated percentages, annual averages are calculated from research provided by SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health (NSDUH) - 2002, 2003, and 2004. <http://oas.samhsa.gov/substate2k6/SecC.htm>

^C Population estimates are rounded to nearest 1,000.

NOTE: Percentage estimates are based on a survey-weighted hierarchical Bayes estimation approach, and the 95 percent prediction (credible) intervals are generated by Markov Chain Monte Carlo techniques.

2002-2004 SubState Report of Substance Use
Section C: Tables of Model-Based Estimates for Substate Regions

Table C9. Needing But Not Receiving Treatment for Alcohol Use in Past Year and Needing But Not Receiving Treatment for Illicit Drug Use in Past Year among Persons Aged 12 or Older

State / Substate Region (Substance Abuse Regional Coordinating Agencies - CAs)	Census 2004 Estimates For Persons Aged 12 and Older ^A	Needing But Not Receiving Treatment for Alcohol Use in Past Year ¹				Needing But Not Receiving Treatment for Illicit Drug Use in Past Year ²			
		Percent of Population ^B		Estimated Population ^C		Percent of Population ^B		Estimated Population ^C	
		Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval	Point Estimate	95% Confidence Interval
National		7.27				2.69			
Michigan	8,482,352	7.72	7.11 - 8.38	655,000	603,000 - 711,000	2.72	2.43 - 3.04	231,000	206,000 - 258,000
Detroit Dept. of Health	717,778	7.69	6.25 - 9.42	55,000	45,000 - 68,000	3.73	2.84 - 4.88	27,000	20,000 - 35,000
Genesee County CMH	367,000	7.49	6.06 - 9.23	27,000	22,000 - 34,000	2.91	2.28 - 3.70	11,000	8,000 - 14,000
Kalamazoo CMH	409,926	9.21	7.69 - 10.98	38,000	32,000 - 45,000	2.80	2.23 - 3.51	11,000	9,000 - 14,000
Lakeshore Coord. Council	629,320	7.58	6.30 - 9.10	48,000	40,000 - 57,000	2.68	2.16 - 3.32	17,000	14,000 - 21,000
Macomb County CMH	696,759	7.52	6.21 - 9.08	52,000	43,000 - 63,000	2.51	2.00 - 3.16	17,000	14,000 - 22,000
Mid-South Sub Abuse Com.	899,533	7.99	6.79 - 9.39	72,000	61,000 - 84,000	2.59	2.10 - 3.20	23,000	19,000 - 29,000
network180	484,370	8.59	7.15 - 10.28	42,000	35,000 - 50,000	2.86	2.27 - 3.61	14,000	11,000 - 17,000
Northern MI S.A. Srv.	740,219	7.94	6.58 - 9.54	59,000	49,000 - 71,000	2.53	2.04 - 3.14	19,000	15,000 - 23,000
Oakland County Health Div.	1,019,263	7.28	6.11 - 8.65	74,000	62,000 - 88,000	2.71	2.20 - 3.34	28,000	22,000 - 34,000
Pathways to Healthy Living	178,653	8.11	6.55 - 10.00	14,000	12,000 - 18,000	2.60	1.99 - 3.38	5,000	4,000 - 6,000
Riverhaven Coord. Agency	303,589	7.47	6.00 - 9.27	23,000	18,000 - 28,000	2.46	1.90 - 3.16	7,000	6,000 - 10,000
Saginaw County Health Dpt.	175,416	7.22	5.76 - 9.02	13,000	10,000 - 16,000	2.60	1.99 - 3.39	5,000	3,000 - 6,000
SE MI Community Alliance	1,063,763	7.47	6.26 - 8.89	79,000	67,000 - 95,000	2.54	2.02 - 3.20	27,000	21,000 - 34,000
St. Clair County Hlth. Dpt.	260,158	6.90	5.52 - 8.60	18,000	14,000 - 22,000	2.31	1.80 - 2.97	6,000	5,000 - 8,000
Washtenaw Cmnty.Hlth.Org	438,695	7.68	6.32 - 9.30	34,000	28,000 - 41,000	2.62	2.08 - 3.31	11,000	9,000 - 15,000
Western UP S.A. Srv.	97,910	6.99	5.55 - 8.77	7,000	5,000 - 9,000	2.36	1.80 - 3.09	2,000	2,000 - 3,000

¹ 'Needing But Not Receiving Treatment' refers to respondents classified as needing treatment for alcohol, but not receiving treatment for an alcohol problem at a specialty facility (i.e., drug and alcohol rehabilitation facilities [inpatient or outpatient], hospitals [inpatient only], and mental health centers).

² 'Needing But Not Receiving Treatment' refers to respondents classified as needing treatment for illicit drugs, but not receiving treatment for an illicit drug problem at a specialty facility (i.e., drug and alcohol rehabilitation facilities [inpatient or outpatient], hospitals [inpatient only], and mental health centers). Illicit Drugs include marijuana/hashish, cocaine (including crack), inhalants, hallucinogens, heroin, or prescription-type psychotherapeutic (nonmedical use).

^A 2004 census estimates provided by Library of Michigan, State Demographer, Ken Darga.

^B Substance Abuse estimated percentages, annual averages are calculated from research provided by SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health (NSDUH) - 2002, 2003, and 2004. <http://oas.samhsa.gov/substate2k6/SecC.htm>

^C Population estimates are rounded to nearest 1,000.