

## Health and Social Behaviors

The health of individuals and their communities is determined by a variety of factors including biologic, environmental, social, and behavioral influences. This section provides an overview of selected surveys and statistics collected in Iowa to track the effects of these various influences on the health of Iowans. Introductions are provided individually for each of the surveys with links to more detailed information on survey methodology and additional data where available. Information on marriage, dissolutions, and crime statistics is included at the end of this section because it characterizes and contrasts the population dynamics that can affect health.

### *QUESTIONS TO CONSIDER WHEN USING SURVEY RESULTS...*

- What was the method used to conduct the survey, i.e., telephone, mail, personal interview?
- What is the response rate of those surveyed and what factors might influence who responds and who doesn't?
- Are the survey respondents representative of and thus generalizable to a particular population?
- Because a survey provides only estimates based on the sampled population, what is the possible variability of these estimates?
- Were the survey questions cross-sectional in that they represent attitudes, behaviors or disease status at one point in time?

## Behavioral Risk Factor Surveillance System (BRFSS)

The Behavioral Risk Factor Surveillance System (BRFSS) survey is conducted each year in Iowa, and in every other state, the District of Columbia, and Puerto Rico.

The Iowa BRFSS is an ongoing monthly telephone survey which is financially and technically supported by the Centers for Disease Control and Prevention (CDC). The statewide survey is a scientifically designed and validated method of collecting information. BRFSS collects health risk behavior information from 3,600 household telephone surveys, and is designed to collect information on nationally agreed upon topics and on additional areas of special interest to Iowa. Because the BRFSS is conducted annually the prevalence of these behaviors may be followed longitudinally. The risk behaviors surveyed (Iowa residents age 18 and over) are major contributors to illness, disability, and premature death.

The goal of the Iowa BRFSS is to provide data to initiate and guide health promotion and disease prevention programs. The BRFSS program achieves this goal by:

- 1) determining state specific prevalence of personal health behaviors related to the leading causes of premature death,
- 2) developing the capacity of the state health department to conduct credible telephone surveys, and
- 3) advancing the understanding that health-related behaviors are critical indices of health.

The BRFSS results tell health professionals what is really going on, and can be used as a measure of the effectiveness of various public health strategies.

### *BRFSS KEY AREAS...*

- Health Status
- Health Care Coverage
- Physical Inactivity
- Body Weight
- Smoking
- Alcohol Consumption
- Hypertension
- Cholesterol Awareness
- Colorectal Cancer Screening
- Diabetes
- Adult Immunizations
- Injury Control
- Women's Health
- HIV/AIDS

## Iowa Behavioral Risk Factor Surveillance Survey (BRFSS) 1997-1999

Item	Definition	Iowa			US Median <sup>1</sup>		
		1997 %	1998 %	1999 %	1997 %	1998 %	1999 %
Binge drinking	All respondents who reported having 5 or more alcoholic beverages in the past month on one or more occasions.	17.9	18.3	18.3	14.5	*	14.9
Chronic drinking	All respondents who reported an average of 2 or more drinks per day.	3.5	4.0	4.4	3.0	*	3.6
Current smoker	All respondents who reported smoking 100 cigarettes in their lifetime and currently smoking every day or some days.	23.1	23.4	23.5	23.2	22.9	22.6
Diabetes	All respondents who reported ever being diagnosed with diabetes (excluding gestational diabetes).	4.6	5.2	5.2	4.8	5.4	5.6
Blood pressure	All respondents who reported having their blood pressure checked within the past 2 years.	92.6	95.4	94.6	94.0	*	94.6
High blood pressure	All respondents who reported being told by a doctor, nurse, or other health professional they had high blood pressure.	23.4	24.8	24.2	23.0	*	23.9
Cholesterol	All respondents who reported having their cholesterol checked within the past 5 years.	66.1	67.5	67.3	69.1	*	69.1
High cholesterol	All respondents who reported being told by a doctor or other health professional that they had high cholesterol.	28.1	30.1	31.7	28.8	*	30.0
No insurance coverage	All respondents who reported currently not having any kind of health care coverage.	9.6	8.7	8.8	12.0	13.0	12.4
Mammogram	Female respondents ages 40 and older who reported having a mammogram within the past 2 years.	66.4	70.6	72.1	70.3	72.3	72.8
Pap Smear	All female respondents with a uterine cervix who reported having a Pap Smear within the past 3 years.	80.5	84.5	85.3	84.6	84.8	85.5
Obesity	All respondents who had a calculated body mass index greater than or equal to 30.0.	19.4	19.8	21.5	16.6	18.3	19.7
Overweight	All respondents who had a calculated body mass index between 25.0 and 29.0.	35.7	36.9	36.9	36.3	36.3	36.8
Sigmoidoscopy/ Colonoscopy	All respondents who reported ever having a sigmoidoscopy or colonoscopy.	32.7	32.0	36.2	32.4	*	33.7
Tested for HIV	Respondents between the ages of 18 and 65 who reported ever being tested for HIV.	30.8	27.7	33.9	42.6	40.0	42.8

<sup>1</sup>In the US, half of the 50 states fall above this point and half fall below.

\*Questions not asked at the national level during this year.

Source: Iowa Department of Public Health, BRFSS website: <http://www.cdc.gov/nccdphp/brfss/> **27**

# Iowa Adult Household Survey of Substance Use and Treatment Needs

*Center for Social and Behavioral Research*

*University of Northern Iowa*

The Iowa Adult Household Survey of Substance Use and Treatment Needs is based on a stratified random sampling of all Iowa households that could be reached by telephone. Interviewers at the University of Northern Iowa's Center for Social and Behavioral Research completed 1,891 interviews for the 1992-93 survey and 6,163 interviews for the 1997-98 survey. The main goals of the surveys were to develop estimates of the substance use and treatment needs of adult Iowans. Findings were weighted according to sampling strata to provide estimates reflecting the total adult population of Iowa. These estimates were calculated using the 1990 Census for the 1992-93 survey, and the 1997 Census estimates for the 1997-98 survey. The content of the questionnaire was based on the National Technical Center's standard treatment needs assessment instrument, prior question

## **IOWA RATES EXCEEDED REGIONAL AND NATIONAL RATES FOR...**

- Alcohol (Ever and recent use)
- Sedatives (Recent use)
- Stimulants (Ever using)

series utilized in the National Household Survey of Drug Abuse, and various single state surveys. The content areas of the questionnaire consisted of demographics, general health assessment, tobacco use, alcohol use, drug use, substance dependence and abuse assessment, substance use treatment, barriers to treatment, and physical and sexual abuse victimization.

## **COMPARED TO 5 YEARS AGO IN IOWA...**

- Rates of ever and current tobacco use were mostly unchanged.
- Rates for recent alcohol use declined slightly.
- Rates of ever and recent substance use in Iowa were largely unchanged.
- Rates for ever using stimulants declined slightly.

## Adult Household Survey of Substance Use & Treatment Needs

Item	Weighted Estimates of Total Iowa Adult Population					
	% Ever Used (At least once in lifetime)		% Recent Use (In 18 months prior to interview)		% Current Use (In 30 days prior to interview)	
	1992-93	1997-98	1992-93	1997-98	1992-93	1997-98
Tobacco	50.1	49.4	*	29.4	25.7	26.9
Smoked at least one cigarette	*	*	*	*	*	23.5
Used smokeless tobacco	*	*	*	*	*	2.8
Smoked cigars	*	*	*	*	*	2.2
Alcohol	94.2	92.2	77.1	70.9	*	54.1
<i>Frequency: Recent Users</i>			<i>% of Recent Users</i>			
Daily	*	*	5.9	4.9	*	*
Weekly	*	*	27.3	28.4	*	*
Monthly (1-3 days a month or less)	*	*	66.8	66.7	*	*
<i>Number of Drinks per Drinking Day: Recent Users</i>			<i>% of Recent Users</i>			
One	*	*	39.3	18.8	*	*
Two	*	*	27.8	22.8	*	*
Three-Four	*	*	21.0	30.0	*	*
Five or More	*	*	11.9	28.5	*	*
Marijuana	27.7	24.9	4.5	5.2	1.5	1.6
Hallucinogens	6.2	6.1	0.7	0.6	<0.1	0.1
Cocaine & Crack	6.5	6.4	0.5	0.9	0.3	0.1
Heroin & Other Opiates	2.1	2.0	0.2	0.4	0.1	0.0
Sedatives	6.0	3.1	0.5	0.7	0.3	0.2
Stimulants (includes methamphetamine and over-the-counter)	12.1	9.3	1.7	2.5	0.5	0.7

\*Data not available for this time period

Source: Center for Social and Behavioral Research,  
University of Northern Iowa

# Iowa Youth Tobacco Survey - 2000

The Iowa Youth Tobacco Survey (IYTS) supplies vital information that guides tobacco-use prevention programs. The survey results stand as a signpost to help evaluate current efforts to reduce tobacco use among younger Iowans. The Iowa Department of Public Health and the Centers for Disease Control and Prevention in Atlanta, along with many other organizations and school districts, implemented this survey in the spring of 2000. The IYTS used a random sample of classrooms from both public and private Iowa middle schools (with grades 6, 7, and 8) and high schools (with grades 9 through 12). The survey used a two-stage sampling method that selected schools and then classrooms within schools. All students in selected classrooms were eligible to take the survey. The survey was provided to 30 middle schools and 30 high schools. Twenty-six of the middle schools and 27 of the high schools participated. Within these schools, all second period classrooms were eligible for selection. Of the 2,108 eligible students in middle school classrooms, 1,834 (87%) completed usable questionnaires. Of the 1,934 sampled high school students, 1,445 (75%) completed usable questionnaires. The overall response rates, considering schools and students, were 75.4% for middle schools and 67.2% for high schools. The weighted data account for the number of students in the classrooms and schools and reduce nonresponse bias.

## LEVEL OF PARTICIPATION IN RANDOM SAMPLE OF 30 MIDDLE SCHOOLS AND 30 HIGH SCHOOLS IN IOWA ...

	School Level	Second-Period Students
Middle School	86%	87%
High School	90%	75%

### SELECTED RESULTS...

		Weighted Estimates			
		Males	Females	Total	
Respondents who reported using any tobacco products during the past 30 days.	Middle School	18%	15%	16%	
	High School	46%	32%	39%	
Respondents who reported smoking cigarettes during the past 30 days.	Middle School	11%	12%	12%	
	High School	34%	31%	33%	
Respondent who reported smoking cigarettes during the past 30 days who indicated they want to stop smoking cigarettes.	Middle School			46%	
	High School			51%	
Respondents who reported using any tobacco products during the past 30 days.	Weighted Estimates by Grade Level				
		6th	7th	8th	
		10%	17%	22%	
		9th	10th	11th	12th
		27%	41%	43%	48%

Since the sample was chosen to represent schools in Iowa, the weighted results estimate Iowa students' tobacco use in grades 6 through 12.

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## Iowa Youth Survey - 1999 (IYS)

The 1999 Iowa Youth Survey (IYS) was conducted by the Iowa Consortium for Substance Abuse Research and Evaluation, and was a joint project of the Iowa Department of Public Health's Division of Health promotion, Prevention, and Addictive Behaviors, The Iowa Department of Education, the Governor's Alliance on Substance Abuse (now the Office of Drug Control Policy), the Iowa Department of Human Rights, Criminal and Juvenile Justice Planning and Statistical Analysis Center, and the Higher Plain, Inc. (with funds from the Federal Department of Education).

The 1999 IYS was the ninth in a series of youth surveys that have been completed every three years since 1975. This survey was different from previous years in both the procedures that were used to implement the survey and the students that were asked to participate. The 1999 IYS sought participation from all school districts and all students in grades 6, 8 and 11, as well as those age 14-18 enrolled in alternative programs. Participation was voluntary and the schools varied in the extent to which they participated. At least some survey questionnaires were completed in 329 of Iowa's 375 school districts. A total of 85,552 students completed the survey.

The 1999 IYS questionnaire included questions about the students' behaviors and attitudes/beliefs, as well as their perceptions of their peer, family, school, and neighborhood/community environments. The survey is a self-administered questionnaire that relies on each student's ability to read and honestly respond to each question. Each questionnaire was reviewed for inconsistent responses. A total of 27 validity checks were made. There were 85,426 useable questionnaires.

We have provided selected data from this survey. Much more detailed information by county is available for all 172 survey questions at:

[www.state.ia.us/dhr/cjip/ythsurvey.html](http://www.state.ia.us/dhr/cjip/ythsurvey.html) or through the websites of the Iowa Department of Public Health, Iowa Department of Education, Office of Drug Control Policy, or Criminal and Juvenile Justice Planning.

### LEVEL OF PARTICIPATION...

Grade	Number Enrolled	Number Completed IYS	Percent Completed IYS
6	35,856	27,171	76%
8	38,003	30,248	80%
11	37,886	26,082	69%

## Iowa Youth Survey - 1999

Item	Definition	Unweighted % 6th Grade	Unweighted % 8th Grade	Unweighted % 11th Grade	Weighted % State
Substance Use Behaviors					
Tobacco	Percentage of students who reported smoking <b>cigarettes</b> during the past 30 days.	3	12	33	18
	Percentage of students who reported smoking <b>cigars</b> during the past 30 days.	1	4	13	7
	Percentage of students who reported using <b>smokeless tobacco</b> during the past 30 days.	0	2	10	4
Alcohol	Percentage of students who reported having 1 or more alcoholic drinks during the past 30 days.	6	22	48	26
	Percentage of students who reported having 5 or more alcoholic drinks in a row, within a couple of hours, during the past 30 days.	3	14	41	21
Marijuana	Percentage of students who reported using marijuana during the past 30 days	1	6	17	8
Inhalants	Percentage of students who reported sniffing glue, breathing the contents of gases or sprays in order to get high during the past 30 days.	1	3	2	2
Methamphetamines	Percentage of students who reported using methamphetamines during the past 30 days.	0	1	2	1
Cocaine	Percentage of students who reported using cocaine during the past 30 days.	0	1	2	1
Amphetamines	Percentage of students who reported using amphetamines (other than methamphetamines) during the past 30 days.	0	1	4	1
Steroid Pills/Shots	Percentage of students who reported taking steroid pills or shots without a doctor's prescription during the past 30 days.	0	1	1	1
Other Illegal Drugs	Percentage of students who reported using any other illegal drug during the past 30 days.	0	1	5	1

## Iowa Youth Survey - 1999 (continued)

Item	Definition		Unweighted %	Unweighted %	Unweighted %	Weighted %
			6th Grade	8th Grade	11th Grade	State
Other Behaviors	Percentage of students who spent money gambling in the past 12 months.		22	36	40	31
	Percentage of students who have ever tried to kill themselves.		7	12	14	11
	Percentage of students who have ever been involved in any sexually related behavior that they wish would not have happened.		6	12	30	17
Attitudes about self	I am accepting of those different than me (racially, culturally, socio-economically).	Strongly Agree	54	50	47	50
		Agree	39	43	45	42
		Disagree	5	5	6	5
		Strongly Disagree	2	2	2	2
	I can say "no" when someone wants me to do things I know are wrong or dangerous.	Strongly Agree	74	58	49	60
		Agree	21	34	42	33
		Disagree	3	6	7	6
		Strongly Disagree	2	2	2	2
	Violence is the worst way to solve problems.	Strongly Agree	63	43	34	46
		Agree	25	38	41	35
		Disagree	6	14	19	13
		Strongly Disagree	5	6	6	6
	It is against my values to have sex as a teenager.	Strongly Agree	65	43	18	41
		Agree	20	28	21	23
		Disagree	8	18	36	21
Strongly Disagree		7	11	25	15	
It is against my values to use alcohol and drugs as a teenager.	Strongly Agree	77	52	23	49	
	Agree	16	28	25	23	
	Disagree	4	14	35	19	
	Strongly Disagree	3	6	17	9	
Attitudes about alcohol	People feel more caring and giving after a few drinks of alcohol.	True/mostly true	12	20	40	25
		False/mostly false	88	81	60	76
	Drinking alcohol makes people more friendly.	True/mostly true	6	16	48	24
		False/mostly false	94	84	52	76
	It's fun to watch others act silly when they are drinking alcohol.	True/mostly true	20	43	72	46
		False/mostly false	81	57	28	54
	Alcoholic beverages make parties more fun.	True/mostly true	11	27	55	32
		False/mostly false	89	73	45	68

## Iowa Youth Survey - 1999 (continued)

Item	Definition		Unweighted %	Unweighted %	Unweighted %	Weighted %
			6th Grade	8th Grade	11th Grade	State
Attitudes about school	There are clear rules about what students can and cannot do.	Strongly Agree	60	41	27	42
		Agree	34	47	56	46
		Disagree	4	8	13	9
		Strongly Disagree	2	3	4	3
	Students caught drinking, smoking, or using an illegal drug are not allowed to participate in any extracurricular activity for some time period.	Strongly Agree	79	63	45	61
		Agree	16	28	40	28
		Disagree	3	6	11	7
		Strongly Disagree	3	4	5	4
	If I skipped school at least one of my parents/guardians would be notified.	Strongly Agree	66	50	32	48
		Agree	25	39	49	38
		Disagree	5	8	14	10
		Strongly Disagree	4	4	4	4
	Students in my school treat each other with respect.	Strongly Agree	26	11	5	14
		Agree	43	38	36	39
		Disagree	24	36	44	35
		Strongly Disagree	7	15	15	13
	I feel safe at school.	Strongly Agree	44	22	15	27
		Agree	42	54	64	54
		Disagree	10	16	15	14
		Strongly Disagree	4	7	5	6
	There is at least one adult at school who I could go to for help with a problem.	Strongly Agree	66	45	31	47
		Agree	27	42	50	40
		Disagree	4	8	13	8
		Strongly Disagree	3	5	6	5
Attitudes about family	In my home there are clear rules about what I can and cannot do.	Strongly Agree	62	45	32	46
		Agree	32	44	52	43
		Disagree	5	8	13	9
		Strongly Disagree	2	2	3	2
	I have a happy home.	Strongly Agree	60	44	34	45
		Agree	32	43	50	42
		Disagree	6	10	12	9
		Strongly Disagree	2	3	4	3
	There are people living in my home who have a serious alcohol or drug problem.	Strongly Agree	10	8	6	8
		Agree	8	9	10	9
		Disagree	17	22	26	22
		Strongly Disagree	65	61	59	61
I can get help and support when I need it from someone in my home.	Strongly Agree	68	48	34	49	
	Agree	26	40	49	39	
	Disagree	4	8	12	8	
	Strongly Disagree	3	5	6	4	
A parent/guardian knows where I am and who I am with, especially in the evening and on weekends.	Never	11	8	8	9	
	Sometimes	12	19	29	21	
	Often	14	23	31	23	
	Always	63	50	32	47	

## Iowa Youth Survey - 1999 (continued)

Item	Definition		Unweighted %	Unweighted %	Unweighted %	Weighted %	
			6th Grade	8th Grade	11th Grade	State	
Attitudes about community	My neighborhood is a safe place to live.	Strongly Agree	57	47	43	49	
		Agree	34	44	50	43	
		Disagree	6	7	5	6	
		Strongly Disagree	3	3	2	2	
	Adults in my neighborhood or community help me when I need help.	Strongly Agree	44	24	11	25	
		Agree	39	44	47	44	
		Disagree	12	22	30	22	
		Strongly Disagree	5	9	12	9	
	In your neighborhood or community how difficult do you think it would be for a kid your age to get...	...cigarettes.	Very hard	45	20	5	22
			Hard	23	24	8	18
			Easy	13	30	37	27
			Very easy	6	16	46	24
			Don't know	14	11	5	9
		...alcoholic beverages (beer, wine, liquor).	Very hard	45	19	5	22
			Hard	23	23	11	18
			Easy	14	31	43	30
			Very easy	6	17	38	21
			Don't know	13	10	4	9
		...marijuana (pot, grass, hash, bud, weed).	Very hard	65	40	11	37
			Hard	13	22	18	18
			Easy	5	15	35	19
			Very easy	3	9	23	12
			Don't know	14	15	13	14
		...methamphetamines (crack, ice).	Very hard	68	47	21	44
			Hard	12	22	28	21
			Easy	4	8	19	11
			Very easy	2	5	9	6
Don't know			15	18	23	19	
...amphetamines other than methamphetamines (like stimulants, uppers, speed).		Very hard	67	47	22	44	
		Hard	12	21	27	21	
		Easy	4	9	18	11	
		Very easy	2	5	9	6	
		Don't know	15	18	24	19	
...any other illegal drug (cocaine, etc.).		Very hard	67	47	23	44	
		Hard	12	21	27	20	
	Easy	4	9	19	11		
	Very easy	3	5	9	6		
	Don't know	14	18	23	18		
...a handgun.	Very hard	56	36	22	37		
	Hard	17	25	28	24		
	Easy	8	14	18	14		
	Very easy	5	8	9	7		
	Don't know	14	17	23	18		

## Substance Abuse Treatment

Substance abuse treatment is provided to all 99 counties in Iowa using funding from the Alcohol and Drug Abuse and Mental Health Services block grant, state substance abuse appropriations, and Medicaid. Iowa operates under a managed care system which is currently administered by Merit Behavioral Care of Iowa (MBCI). MBCI contracts with a total of 67 service providers in 22 service areas as represented on the map and listing on the next page. The 67 service providers include 34 who receive funding from both IDPH and Medicaid, and 33 who are funded through Medicaid only. Services are available to all Iowans regardless of their ability to pay or financial status through a sliding-fee schedule.

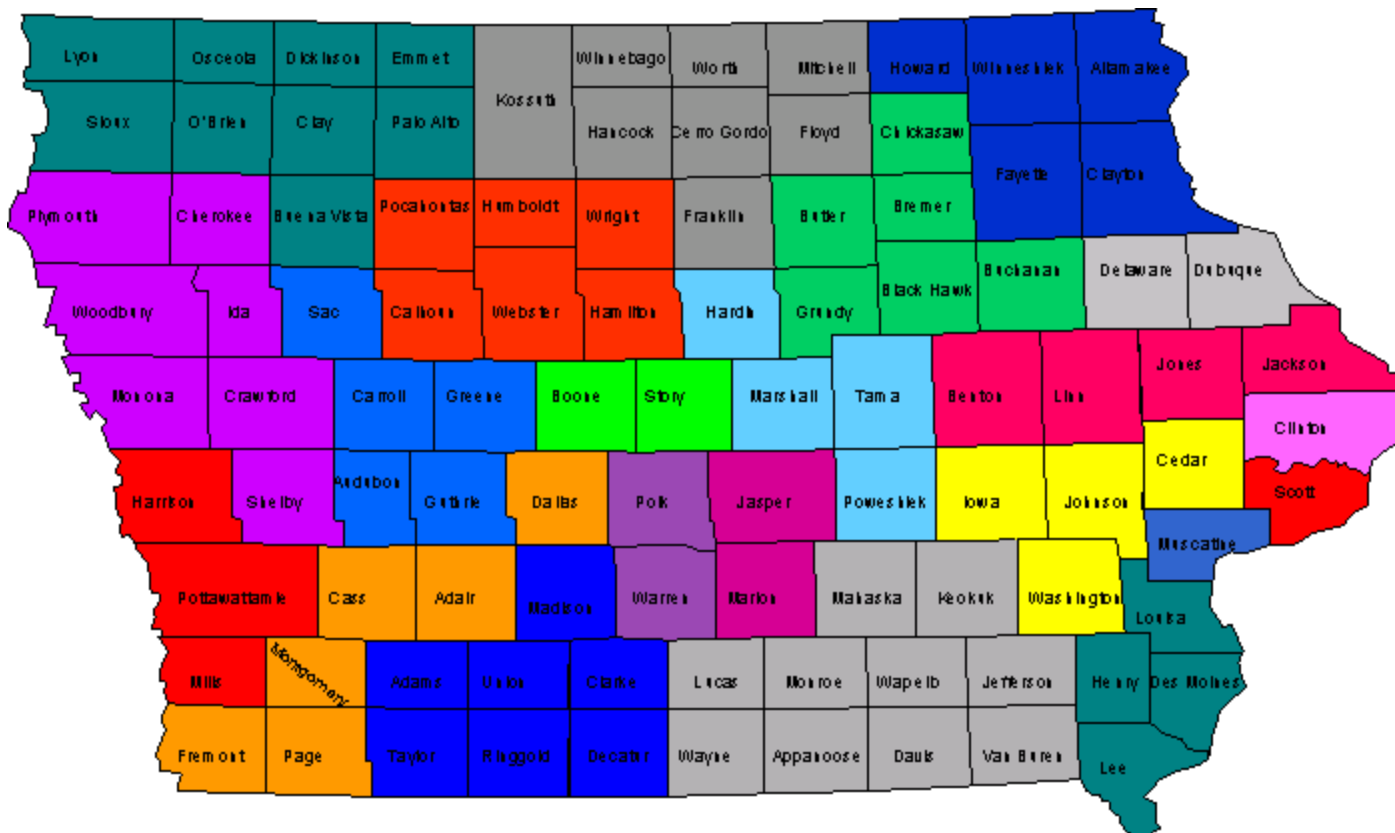
The tables on the following pages represent all admissions to substance abuse treatment programs regardless of source of funding for that specific client. The data for each county is divided by adult (18 and over) and adolescent (17 and under), and by primary substance of abuse.

The reporting period was for calendar years 1998, 1999, and 2000. The numbers reflect those identifying a county of residence in Iowa. Those identifying their residence outside of Iowa were not counted. The count is unduplicated with the following exceptions: a client was counted twice if their primary substance of abuse changed between admissions or if the client's age changed between admissions.

### STATE OF IOWA ADMISSIONS TOTALS FOR SUBSTANCE ABUSE TREATMENT...

	Alcohol	Marijuana	Other
1998	12,994	5,159	5,175
1999	14,102	5,433	5,129
2000	14,192	6,149	5,690

## Iowa's 22 Substance Abuse Treatment Areas



## Local Sites for Substance Abuse Treatment Areas

Adel	Council Bluffs	Hull	Monticello	Sibley
Albia	Cresco	Humboldt	Mt. Ayr	Sidney
Algona	Creston	Ida Grove	Mt. Pleasant	Sigorney
Ames	Davenport	Independence	Muscatine	Sioux City
Anamosa	Decorah	Indianola	New Hampton	Spencer
Atlantic	Denison	Iowa City	Newton	Spirit Lake
Audubon	Des Moines	Iowa Falls	Oelwein	Storm Lake
Bedford	DeWitt	Jefferson	Orient	Tama
Belle Plaine	Dubuque	Keokuk	Osceola	Tipton
Bettendorf	Eagle Grove	Keosauqua	Oskaloosa	Toledo
Bloomfield	Elkader	Knoxville	Ottumwa	Vinton
Burlington	Emmetsburg	Lamoni	Pella	Wapello
Carroll	Estherville	LeMars	Perry	Washington
Cedar Rapids	Fairfield	Lenox	Pocahontas	Waterloo
Centerville	Forest City	Leon	Postville	Waukon
Chariton	Fort Dodge	Logan	Red Oak	Waverly
Charles City	Ft. Madison	Manning	Rock Rapids	Webster City
Cherokee	Glenwood	Mapleton	Rockwell City	West Union
Clarinda	Greenfield	Maquoketa	Sac City	Winterset
Clinton	Grinnell	Marengo	Sergeant Bluff	
Corning	Guthrie Center	Marshalltown	Sheldon	
Corydon	Harlan	Mason City	Shenandoah	

## Substance Abuse Admissions by County 1998

County	Alcohol		Marijuana		Other	
	Adult	Adolescent	Adult	Adolescent	Adult	Adolescent
Adair	25	9	11	0	13	1
Adams	23	0	6	0	2	0
Allamakee	65	3	8	2	5	1
Appanoose	82	2	35	9	22	1
Audubon	17	0	2	0	5	0
Benton	99	5	17	10	6	0
Black Hawk	786	33	259	98	360	17
Boone	89	38	18	26	18	4
Bremer	91	7	14	32	13	2
Buchanan	78	3	22	7	8	1
Buena Vista	66	15	13	2	11	2
Butler	37	7	17	4	6	1
Calhoun	35	0	4	0	6	0
Carroll	86	8	14	7	18	1
Cass	73	7	18	6	19	2
Cedar	59	5	11	7	7	1
Cerro Gordo	265	15	107	45	112	11
Cherokee	42	4	8	3	19	1
Chickasaw	45	1	6	3	7	0
Clarke	44	1	11	3	34	1
Clay	56	12	11	7	16	2
Clayton	47	6	6	0	3	1
Clinton	283	14	67	40	59	0
Crawford	50	8	15	1	27	3
Dallas	104	15	24	17	46	7
Davis	22	1	2	2	3	0
Decatur	18	1	6	2	14	0
Delaware	64	16	16	5	2	3
Des Moines	91	9	31	19	72	4
Dickinson	76	6	13	10	5	1
Dubuque	490	41	154	71	65	4
Emmett	38	0	10	7	2	1
Fayette	190	10	23	2	15	0
Floyd	54	9	13	2	11	0
Franklin	23	0	3	5	3	2
Fremont	19	0	10	1	0	0
Greene	34	6	11	11	13	0
Grundy	18	4	2	1	3	1
Guthrie	51	5	21	4	24	0
Hamilton	60	4	7	3	10	0
Hancock	30	2	13	5	10	0
Hardin	49	2	9	3	7	0
Harrison	20	1	7	10	15	2
Henry	65	4	31	7	11	0
Howard	54	8	2	1	1	0
Humboldt	23	2	6	3	2	0
Ida	29	1	2	0	5	1
Iowa	54	17	16	7	14	0
Jackson	63	4	11	10	18	0
Jasper	115	11	52	30	60	15
Jefferson	75	9	11	13	8	4

**Substance Abuse Admissions by County (continued)  
1998**

County	Alcohol		Marijuana		Other	
	Adult	Adolescent	Adult	Adolescent	Adult	Adolescent
Johnson	671	24	125	70	109	5
Jones	65	5	23	7	13	0
Keokuk	43	6	2	3	7	0
Kossuth	50	4	18	3	9	1
Lee	146	10	63	17	25	1
Linn	970	52	265	116	281	15
Louisa	29	1	5	2	9	0
Lucas	23	4	13	4	29	2
Lyon	36	13	4	4	4	0
Madison	44	7	22	9	24	0
Mahaska	83	6	29	11	35	2
Marion	74	7	19	9	49	3
Marshall	132	5	37	14	78	3
Mills	29	5	10	1	10	0
Mitchell	17	1	4	4	0	0
Monona	40	3	8	1	22	1
Monroe	42	0	11	1	7	0
Montgomery	43	3	20	11	8	1
Muscatine	221	13	44	29	63	5
O'Brien	32	5	6	7	10	2
Osceola	14	9	1	7	3	1
Page	68	7	27	1	14	0
Palo Alto	49	3	5	0	8	0
Plymouth	77	3	16	4	13	1
Pocahontas	36	2	4	2	4	0
Polk	1,392	75	585	315	1,393	49
Pottawattamie	228	16	104	32	162	9
Poweshiek	56	4	20	3	21	2
Ringgold	8	1	0	0	1	0
Sac	26	2	7	1	7	2
Scott	1,089	52	236	182	530	11
Shelby	29	3	14	2	19	0
Sioux	56	12	35	2	14	1
Story	235	36	50	70	62	10
Tama	101	11	15	7	11	1
Taylor	16	4	5	1	1	1
Union	64	10	13	8	25	1
Van Buren	33	0	3	3	3	1
Wapello	235	17	102	35	85	4
Warren	59	12	22	26	54	8
Washington	45	3	15	8	6	0
Wayne	16	1	3	0	12	0
Webster	242	26	66	8	87	3
Winnebago	40	1	9	2	13	3
Winneshiek	88	11	13	4	4	2
Woodbury	436	24	146	87	301	13
Worth	38	2	2	1	9	0
Wright	41	3	8	2	22	2
<b>STATE</b>	<b>12,079</b>	<b>915</b>	<b>3,460</b>	<b>1,699</b>	<b>4,911</b>	<b>264</b>

Source: Iowa Department of Public Health

## Substance Abuse Admissions by County 1999

County	Alcohol		Marijuana		Other	
	Adult	Adolescent	Adult	Adolescent	Adult	Adolescent
Adair	27	4	7	1	20	2
Adams	15	0	0	0	1	0
Allamakee	94	13	4	1	3	0
Appanoose	96	14	35	9	18	2
Audubon	30	2	6	0	4	0
Benton	77	8	27	3	12	2
Black Hawk	798	54	190	124	365	8
Boone	97	55	25	39	30	2
Bremer	94	15	23	23	19	1
Buchanan	95	8	13	8	21	1
Buena Vista	101	12	22	12	10	2
Butler	29	8	22	9	16	0
Calhoun	33	0	7	2	5	0
Carroll	66	3	15	0	20	2
Cass	70	11	18	3	22	1
Cedar	52	9	9	7	1	1
Cerro Gordo	344	28	115	76	129	8
Cherokee	46	2	16	6	21	1
Chickasaw	36	5	14	7	11	0
Clarke	37	3	15	5	15	1
Clay	77	8	15	9	18	1
Clayton	55	6	7	4	6	1
Clinton	311	18	45	37	72	3
Crawford	66	5	9	3	21	1
Dallas	106	9	27	26	51	1
Davis	27	3	7	0	0	0
Decatur	19	2	11	3	22	1
Delaware	75	18	14	12	7	0
Des Moines	82	13	53	29	64	1
Dickinson	63	11	5	16	13	0
Dubuque	661	43	167	84	89	7
Emmett	31	4	11	5	0	2
Fayette	187	13	25	5	27	1
Floyd	59	13	10	6	17	0
Franklin	27	6	8	6	8	1
Fremont	6	0	6	1	13	0
Greene	28	6	14	10	16	0
Grundy	22	8	5	4	3	0
Guthrie	48	6	7	6	25	7
Hamilton	64	6	11	5	8	0
Hancock	35	4	2	6	1	3
Hardin	78	9	14	7	9	0
Harrison	36	2	13	6	12	1
Henry	42	9	15	11	9	0
Howard	55	18	6	5	0	0
Humboldt	32	2	0	1	2	0
Ida	30	0	0	1	7	0
Iowa	76	8	14	12	15	1
Jackson	84	11	13	9	4	0
Jasper	103	21	58	32	76	2
Jefferson	82	8	17	17	29	0

**Substance Abuse Admissions by County (continued)**  
**1999**

County	Alcohol		Marijuana		Other	
	Adult	Adolescent	Adult	Adolescent	Adult	Adolescent
Johnson	697	35	144	51	98	5
Jones	87	16	14	15	11	6
Keokuk	43	7	14	5	5	0
Kossuth	35	6	24	5	7	1
Lee	128	12	57	13	39	1
Linn	1,060	63	324	153	246	13
Louisa	29	0	5	3	8	1
Lucas	33	4	9	5	19	0
Lyon	45	13	4	2	0	0
Madison	40	4	11	13	21	3
Mahaska	90	4	34	10	22	5
Marion	85	4	27	14	50	2
Marshall	126	8	44	19	53	4
Mills	22	4	7	4	14	1
Mitchell	21	1	2	1	1	0
Monona	37	2	9	1	7	0
Monroe	33	2	4	3	10	0
Montgomery	57	2	4	4	10	0
Muscatine	249	13	36	45	49	1
O'Brien	28	10	5	7	8	1
Osceola	17	8	0	5	3	1
Page	68	1	19	6	41	0
Palo Alto	42	2	6	1	5	3
Plymouth	101	10	10	3	10	0
Pocahontas	26	1	2	1	2	0
Polk	1,221	98	553	353	1,393	43
Pottawattamie	271	22	86	32	166	2
Poweshiek	67	4	17	3	26	0
Ringgold	18	1	1	2	5	1
Sac	33	1	10	1	5	0
Scott	1,282	72	240	166	451	8
Shelby	33	4	11	0	13	0
Sioux	79	17	23	6	18	2
Story	230	28	69	72	41	8
Tama	118	10	10	6	12	0
Taylor	22	1	5	0	12	1
Union	69	14	16	8	22	2
Van Buren	23	2	5	1	0	0
Wapello	319	20	144	37	127	6
Warren	56	7	30	21	49	5
Washington	56	9	21	14	16	2
Wayne	22	2	6	3	9	0
Webster	239	21	61	9	96	4
Winnebago	34	3	7	3	4	0
Winneshiek	100	10	10	5	3	0
Woodbury	481	24	167	69	303	8
Worth	31	4	6	2	11	1
Wright	39	6	10	3	12	0
<b>STATE</b>	<b>12,946</b>	<b>1,156</b>	<b>3,515</b>	<b>1,918</b>	<b>4,920</b>	<b>209</b>

Source: Iowa Department of Public Health

## Substance Abuse Admissions by County 2000

County	Alcohol		Marijuana		Other	
	Adult	Adolescent	Adult	Adolescent	Adult	Adolescent
Adair	39	6	6	3	18	0
Adams	13	5	5	2	13	0
Allamakee	67	16	6	7	2	0
Appanoose	103	12	34	12	24	5
Audubon	19	3	6	1	3	0
Benton	87	8	33	10	11	1
Black Hawk	778	58	250	156	380	9
Boone	65	60	18	34	44	10
Bremer	99	24	30	46	21	3
Buchanan	104	24	28	19	49	7
Buena Vista	85	14	18	7	10	1
Butler	52	16	13	13	13	1
Calhoun	59	3	9	2	11	0
Carroll	70	23	18	12	18	1
Cass	73	9	18	13	19	3
Cedar	56	9	9	16	9	3
Cerro Gordo	291	28	136	79	148	18
Cherokee	45	4	10	5	11	1
Chickasaw	33	9	16	17	10	0
Clarke	40	4	16	7	26	3
Clay	53	13	21	5	23	1
Clayton	56	11	9	3	4	1
Clinton	347	38	63	62	48	5
Crawford	69	6	16	4	19	2
Dallas	108	17	36	26	38	4
Davis	10	7	4	3	16	2
Decatur	16	4	4	3	23	1
Delaware	93	39	27	7	10	3
Des Moines	107	7	46	37	37	3
Dickinson	68	15	5	11	19	0
Dubuque	667	102	161	139	133	11
Emmett	28	6	9	1	4	1
Fayette	223	30	32	18	30	2
Floyd	61	23	17	9	18	1
Franklin	23	7	7	11	8	0
Fremont	11	0	6	0	8	1
Greene	34	5	5	8	7	2
Grundy	35	5	3	6	3	0
Guthrie	42	7	10	5	25	9
Hamilton	44	2	16	2	16	1
Hancock	38	5	12	13	11	2
Hardin	85	12	11	10	27	0
Harrison	23	3	5	8	13	1
Henry	63	11	18	19	11	1
Howard	58	16	8	4	5	0
Humboldt	28	2	8	2	3	0
Ida	18	2	2	0	2	0
Iowa	83	12	16	5	7	0
Jackson	84	12	16	12	12	3
Jasper	101	13	37	23	98	6
Jefferson	76	12	23	9	27	3

**Substance Abuse Admissions by County (continued)  
2000**

County	Alcohol		Marijuana		Other	
	Adult	Adolescent	Adult	Adolescent	Adult	Adolescent
Johnson	632	56	124	79	124	11
Jones	62	12	15	17	5	2
Keokuk	42	11	5	7	10	1
Kossuth	40	6	16	4	4	0
Lee	128	27	46	24	35	13
Linn	1,132	102	336	215	301	12
Louisa	31	5	12	5	8	2
Lucas	25	6	5	5	25	3
Lyon	33	17	4	9	1	0
Madison	30	6	15	15	21	6
Mahaska	76	8	32	10	37	2
Marion	72	11	18	14	28	1
Marshall	109	12	45	30	99	5
Mills	24	3	7	6	10	0
Mitchell	24	8	4	4	6	0
Monona	33	4	6	2	12	3
Monroe	27	5	12	4	10	1
Montgomery	56	5	16	9	28	3
Muscatine	214	27	64	66	56	3
O'Brien	24	12	5	2	6	1
Osceola	9	7	2	1	0	2
Page	60	14	26	2	50	3
Palo Alto	36	3	4	1	3	0
Plymouth	83	9	11	11	26	1
Pocahontas	27	3	2	3	8	0
Polk	1,091	142	486	476	1,428	65
Pottawattamie	240	27	111	45	274	16
Poweshiek	35	4	7	9	27	1
Ringgold	8	4	2	2	6	0
Sac	28	2	9	3	12	0
Scott	1,271	107	252	213	407	5
Shelby	34	7	8	1	12	1
Sioux	88	29	27	10	16	2
Story	219	59	62	47	62	14
Tama	93	13	14	4	21	1
Taylor	26	10	7	4	7	0
Union	51	8	22	6	38	4
Van Buren	6	4	3	5	1	3
Wapello	247	29	108	47	107	5
Warren	54	9	11	28	52	9
Washington	43	5	11	10	17	0
Wayne	18	5	4	4	18	1
Webster	179	21	72	34	82	10
Winnebago	52	7	5	2	6	2
Winneshiek	111	21	10	8	4	1
Woodbury	542	49	182	109	248	17
Worth	27	3	10	3	7	1
Wright	38	9	12	9	13	2
<b>STATE</b>	<b>12,460</b>	<b>1,732</b>	<b>3,599</b>	<b>2,550</b>	<b>5,323</b>	<b>367</b>

Source: Iowa Department of Public Health

# Childhood Lead Poisoning

*Iowa Department of Public Health  
Bureau of Lead Poisoning Prevention*

Childhood lead poisoning has significant effects on the health of children and on community health. Lead has adverse effects on nearly all organ systems in the body. It is especially harmful to the developing brains and nervous systems of children under the age of 6 years. At very high blood lead levels, children can have severe brain damage or even die. At blood lead levels as low as 10 micrograms per deciliter ( $\mu\text{g}/\text{dL}$ ), children's intelligence, hearing, and growth are affected. In a community, the presence of lead-poisoned children can be associated with an increase in the number of children with developmental deficits and learning disorders. This places an unnecessary and expensive burden on the educational system. The presence of lead-poisoned children also requires substantial community public health resources for medical and environmental case management services.

Most cases of childhood lead poisoning are caused by lead-based paint, which is found in most homes built before 1960. Young children who live in pre-1960 homes become lead-poisoned when they put paint chips or exterior soil in their mouths or when they get house dust and soil on their hands and put their hands in their mouths.

Although lead poisoning can cause serious health problems — including death — most lead-poisoned children demonstrate no visible symptoms. This makes it much more important to have an effective program to prevent childhood lead poisoning.

Since 1992, the Iowa Department of Public Health (IDPH) has *recommended* that all children in Iowa under the age of six years be tested for lead poisoning. In addition, state and federal laws *require* that all children under the age of 6 and covered by Medicaid be tested for lead poisoning. In spite of this, the statewide testing rates among children covered by Medicaid and children who are not covered by Medicaid are virtually identical.

**Since 1992, the Iowa Department of Public Health has recommended that all children in Iowa under age 6 be tested for lead poisoning.**

In Iowa, blood lead testing is conducted by the Title V Child Health Program, by local health departments, and by many private physicians. *Iowa Administrative Code* 641-1.2(1) “e” and 641-3.5(1) “a” requires the results of all blood lead testing done on children and adults to be reported to IDPH. The IDPH childhood blood lead level surveillance system tracks all testing in the state. Thus, blood lead testing results collected as required by Medicaid, as well as those collected from voluntary testing of non-Medicaid children are reported to IDPH.

In the following tables, data are presented for children who were born in calendar year 1992, 1993, and 1994 and who received at least one blood lead test before their sixth birthday. Children followed for blood lead poisoning may be tested multiple times. The test that is presented in the following tables reflects the highest blood lead level for any particular child (excluding blood capillary levels  $\geq 20$   $\mu\text{g/dL}$ ).

For each county, the number of children receiving a blood lead test and the percent of these children who were identified with blood lead levels greater than or equal to 10 micrograms per deciliter ( $\mu\text{g/dL}$ ), 15  $\mu\text{g/dL}$ , 20  $\mu\text{g/dL}$ , and 25  $\mu\text{g/dL}$  are presented. A blood lead level of 10  $\mu\text{g/dL}$  has been identified by the Centers for Disease Control and Prevention as the threshold for lead poisoning in children. Additional data, such as the percent of children in each birth cohort who were tested for lead poisoning, may be found at the web site for the Iowa Department of Public Health Bureau of Lead Poisoning Prevention: <http://www.idph.state.ia.us/eh.htm>

#### **KEY ISSUES IN BLOOD LEAD POISONING...**

- *Lead has adverse effects on nearly all organ systems in the body.*
- *At blood lead levels as low as 10 micrograms per deciliter ( $\mu\text{g/dL}$ ), children’s intelligence, hearing, and growth are affected.*
- *Most cases of childhood lead poisoning are caused by lead-based paint.*

**Blood Lead Poisoning in Children - 1992***Children Born 1/1/92 - 12/31/92 and Tested Before Age Six Years*

COUNTY	Number of Children Tested	Number of Children with Elevated Levels	%>=10 µg/dL	%>=15 µg/dL	%>=20 µg/dL	%>=25 µg/dL
Adair	13	1	7.7	0.0	0.0	0.0
Adams	6	1	16.7	0.0	0.0	0.0
Allamakee	28	5	17.9	10.7	3.6	3.6
Appanoose	69	15	21.7	10.1	0.0	0.0
Audubon	27	3	11.1	3.7	0.0	0.0
Benton	80	5	6.3	2.5	1.3	1.3
Black Hawk	1,052	210	20.0	8.4	3.7	2.7
Boone	108	19	17.6	6.5	2.8	2.8
Bremer	91	9	9.9	5.5	1.1	1.1
Buchanan	56	13	23.2	3.6	0.0	0.0
Buena Vista	46	3	6.5	2.2	0.0	0.0
Butler	41	8	19.5	9.8	2.4	2.4
Calhoun	29	3	10.3	3.4	0.0	0.0
Carroll	79	10	12.7	2.5	0.0	0.0
Cass	73	8	11.0	4.1	1.4	1.4
Cedar	82	20	24.4	6.1	2.4	1.2
Cerro Gordo	133	7	5.3	0.8	0.0	0.0
Cherokee	34	8	23.5	5.9	2.9	2.9
Chickasaw	13	2	15.4	0.0	0.0	0.0
Clarke	20	3	15.0	0.0	0.0	0.0
Clay	23	2	8.7	0.0	0.0	0.0
Clayton	39	5	12.8	2.6	2.6	2.6
Clinton	516	67	13.0	4.7	1.7	0.8
Crawford	31	4	12.9	3.2	0.0	0.0
Dallas	116	11	9.5	3.4	2.6	0.9
Davis	39	5	12.8	2.6	0.0	0.0
Decatur	19	3	15.8	10.5	0.0	0.0
Delaware	26	3	11.5	3.8	0.0	0.0
Des Moines	411	77	18.7	6.1	1.9	0.7
Dickinson	7	1	14.3	0.0	0.0	0.0
Dubuque	968	111	11.5	3.7	1.1	0.7
Emmet	15	4	26.7	20.0	0.0	0.0
Fayette	44	9	20.5	2.3	2.3	0.0
Floyd	36	3	8.3	0.0	0.0	0.0
Franklin	41	10	24.4	12.2	4.9	0.0
Fremont	2	0	0.0	0.0	0.0	0.0
Greene	56	5	8.9	1.8	1.8	1.8
Grundy	45	8	17.8	8.9	0.0	0.0
Guthrie	45	7	15.6	2.2	0.0	0.0
Hamilton	45	1	2.2	0.0	0.0	0.0
Hancock	30	5	16.7	3.3	0.0	0.0
Hardin	130	27	20.8	8.5	1.5	0.8
Harrison	29	2	6.9	3.4	0.0	0.0
Henry	130	18	13.8	3.8	2.3	1.5
Howard	38	7	18.4	2.6	0.0	0.0
Humboldt	29	3	10.3	3.4	0.0	0.0
Ida	23	5	21.7	8.7	0.0	0.0
Iowa	73	10	13.7	4.1	1.4	1.4
Jackson	189	16	8.5	4.2	1.1	0.5
Jasper	81	16	19.8	1.2	0.0	0.0
Jefferson	37	4	10.8	5.4	0.0	0.0

**Blood Lead Poisoning in Children - 1992 (continued)***Children Born 1/1/92 - 12/31/92 and Tested Before Age Six Years*

COUNTY	Number of Children Tested	Number of Children with Elevated Levels	%>=10 µg/dL	%>=15 µg/dL	%>=20 µg/dL	%>=25 µg/dL
Johnson	138	9	6.5	1.4	1.4	1.4
Jones	79	14	17.7	3.8	2.5	1.3
Keokuk	54	12	22.2	9.3	5.6	5.6
Kossuth	41	9	22.0	7.3	0.0	0.0
Lee	341	52	15.2	3.8	1.8	0.9
Linn	1,435	161	11.2	4.8	1.6	1.1
Louisa	43	5	11.6	4.7	2.3	2.3
Lucas	61	25	41.0	24.6	8.2	8.2
Lyon	27	2	7.4	3.7	0.0	0.0
Madison	32	3	9.4	6.3	0.0	0.0
Mahaska	107	22	20.6	9.3	0.9	0.9
Marion	60	6	10.0	3.3	3.3	3.3
Marshall	290	81	27.9	10.7	2.1	1.0
Mills	4	0	0.0	0.0	0.0	0.0
Mitchell	22	3	13.6	0.0	0.0	0.0
Monona	29	6	20.7	6.9	3.4	3.4
Monroe	39	7	17.9	5.1	0.0	0.0
Montgomery	31	3	9.7	0.0	0.0	0.0
Muscatine	117	19	16.2	5.1	1.7	1.7
O'Brien	36	6	16.7	2.8	0.0	0.0
Osceola	5	1	20.0	20.0	0.0	0.0
Page	10	2	20.0	0.0	0.0	0.0
Palo Alto	10	1	10.0	10.0	0.0	0.0
Plymouth	76	14	18.4	6.6	0.0	0.0
Pocahontas	10	1	10.0	10.0	0.0	0.0
Polk	621	34	5.5	1.8	0.6	0.5
Pottawattamie	63	8	12.7	6.3	0.0	0.0
Poweshiek	51	12	23.5	13.7	5.9	2.0
Ringgold	16	3	18.8	6.3	6.3	0.0
Sac	29	5	17.2	3.4	3.4	0.0
Scott	1,227	301	24.5	11.6	5.0	3.4
Shelby	14	2	14.3	7.1	0.0	0.0
Sioux	86	15	17.4	1.2	0.0	0.0
Story	340	13	3.8	0.6	0.0	0.0
Tama	101	31	30.7	7.9	0.0	0.0
Taylor	21	6	28.6	4.8	0.0	0.0
Union	29	5	17.2	0.0	0.0	0.0
Van Buren	25	7	28.0	12.0	4.0	4.0
Wapello	343	59	17.2	5.5	1.7	0.9
Warren	61	0	0.0	0.0	0.0	0.0
Washington	117	22	18.8	10.3	4.3	0.9
Wayne	32	9	28.1	21.9	6.3	3.1
Webster	89	9	10.1	6.7	2.2	2.2
Winnebago	22	1	4.5	0.0	0.0	0.0
Winneshiek	49	10	20.4	4.1	0.0	0.0
Woodbury	444	85	19.1	5.4	1.4	1.1
Worth	16	2	12.5	6.3	0.0	0.0
Wright	39	5	12.8	2.6	0.0	0.0
<b>STATE</b>	<b>12,325</b>	<b>1,910</b>	<b>15.5</b>	<b>5.9</b>	<b>2.1</b>	<b>1.3</b>

Source: Iowa Department of Public Health,  
Bureau of Lead Poisoning Prevention

**Blood Lead Poisoning in Children - 1993***Children Born 1/1/93 - 12/31/93 and Tested Before Age Six Years*

<b>COUNTY</b>	<b>Number of Children Tested</b>	<b>Number of Children with Elevated Levels</b>	<b>%&gt;=10 µg/dL</b>	<b>%&gt;=15 µg/dL</b>	<b>%&gt;=20 µg/dL</b>	<b>%&gt;=25 µg/dL</b>
Adair	33	2	6.1	0.0	0.0	0.0
Adams	16	4	25.0	0.0	0.0	0.0
Allamakee	45	3	6.7	2.2	0.0	0.0
Appanoose	73	15	20.6	2.7	0.0	0.0
Audubon	25	3	12.0	4.0	4.0	4.0
Benton	80	3	3.8	0.0	0.0	0.0
Black Hawk	1,005	190	18.9	6.5	2.2	1.2
Boone	137	21	15.3	5.1	2.2	0.7
Bremer	135	14	10.4	5.2	0.0	0.0
Buchanan	66	7	10.6	4.6	0.0	0.0
Buena Vista	47	8	17.0	4.3	0.0	0.0
Butler	78	8	10.3	2.6	0.0	0.0
Calhoun	23	6	26.1	4.4	0.0	0.0
Carroll	91	7	7.7	4.4	1.1	0.0
Cass	101	10	9.9	1.0	0.0	0.0
Cedar	75	17	22.7	6.7	0.0	0.0
Cerro Gordo	169	13	7.7	1.8	0.6	0.6
Cherokee	63	15	23.8	9.5	0.0	0.0
Chickasaw	21	2	9.5	4.8	0.0	0.0
Clarke	28	4	14.3	7.1	0.0	0.0
Clay	32	4	12.5	3.1	0.0	0.0
Clayton	53	4	7.6	5.7	1.9	0.0
Clinton	511	57	11.2	5.1	3.3	1.8
Crawford	50	2	4.0	2.0	0.0	0.0
Dallas	139	22	15.8	4.3	2.2	1.4
Davis	44	6	13.6	4.6	0.0	0.0
Decatur	25	3	12.0	12.0	4.0	4.0
Delaware	38	6	15.8	7.9	2.6	0.0
Des Moines	408	81	19.9	6.4	1.7	0.7
Dickinson	10	1	10.0	10.0	0.0	0.0
Dubuque	1,062	87	8.2	3.4	1.0	0.5
Emmet	13	2	15.4	7.7	0.0	0.0
Fayette	37	6	16.2	2.7	2.7	0.0
Floyd	57	6	10.5	5.3	1.8	1.8
Franklin	49	10	20.4	4.1	2.0	2.0
Fremont	9	1	11.1	0.0	0.0	0.0
Greene	59	9	15.3	8.5	3.4	0.0
Grundy	89	13	14.6	1.1	1.1	1.1
Guthrie	38	7	18.4	5.3	0.0	0.0
Hamilton	70	8	11.4	1.4	0.0	0.0
Hancock	28	1	3.6	0.0	0.0	0.0
Hardin	136	20	14.7	7.4	0.0	0.0
Harrison	44	3	6.8	2.3	0.0	0.0
Henry	82	10	12.2	3.7	2.4	1.2
Howard	57	12	21.1	8.8	1.8	0.0
Humboldt	51	3	5.9	2.0	0.0	0.0
Ida	32	6	18.8	3.1	0.0	0.0
Iowa	86	13	15.1	4.7	0.0	0.0
Jackson	204	12	5.9	1.0	0.5	0.5
Jasper	93	8	8.6	1.1	0.0	0.0
Jefferson	43	10	23.3	11.6	4.7	0.0

**Blood Lead Poisoning in Children - 1993 (continued)***Children Born 1/1/93 - 12/31/93 and Tested Before Age Six Years*

COUNTY	Number of Children Tested	Number of Children with Elevated Levels	%≥10 µg/dL	%≥15 µg/dL	%≥20 µg/dL	%≥25 µg/dL
Johnson	212	13	6.1	2.4	0.9	0.9
Jones	93	16	17.2	8.6	1.1	1.1
Keokuk	83	17	20.5	9.6	2.4	2.4
Kossuth	81	9	11.1	1.2	1.2	0.0
Lee	288	45	15.6	6.6	0.7	0.7
Linn	1,344	145	10.8	4.5	1.3	0.9
Louisa	49	6	12.2	2.0	2.0	0.0
Lucas	89	26	29.2	12.4	4.5	3.4
Lyon	38	6	15.8	7.9	0.0	0.0
Madison	29	2	6.9	0.0	0.0	0.0
Mahaska	142	24	16.9	2.8	0.7	0.7
Marion	64	6	9.4	4.7	0.0	0.0
Marshall	341	79	23.2	8.8	1.2	0.9
Mills	15	1	6.7	0.0	0.0	0.0
Mitchell	23	5	21.7	4.4	0.0	0.0
Monona	33	1	3.0	3.0	0.0	0.0
Monroe	60	10	16.7	5.0	0.0	0.0
Montgomery	28	4	14.3	3.6	0.0	0.0
Muscatine	129	16	12.4	3.1	0.8	0.0
O'Brien	45	3	6.7	2.2	0.0	0.0
Osceola	8	1	12.5	0.0	0.0	0.0
Page	15	2	13.3	6.7	0.0	0.0
Palo Alto	14	1	7.1	0.0	0.0	0.0
Plymouth	69	7	10.1	0.0	0.0	0.0
Pocahontas	20	2	10.0	0.0	0.0	0.0
Polk	868	61	7.0	2.0	0.8	0.6
Pottawattamie	58	6	10.3	3.5	1.7	0.0
Poweshiek	50	9	18.0	6.0	2.0	2.0
Ringgold	13	2	15.4	15.4	0.0	0.0
Sac	38	6	15.8	5.3	0.0	0.0
Scott	1,537	270	17.6	6.8	1.7	1.2
Shelby	33	2	6.1	0.0	0.0	0.0
Sioux	118	14	11.9	2.5	1.7	1.7
Story	389	21	5.4	1.5	0.0	0.0
Tama	87	24	27.6	8.1	0.0	0.0
Taylor	23	1	4.4	0.0	0.0	0.0
Union	38	10	26.3	2.6	2.6	2.6
Van Buren	34	5	14.7	2.9	0.0	0.0
Wapello	415	70	16.9	5.1	1.2	1.0
Warren	72	4	5.6	1.4	0.0	0.0
Washington	141	24	17.0	5.0	0.7	0.7
Wayne	45	10	22.2	8.9	2.2	0.0
Webster	123	14	11.4	1.6	0.0	0.0
Winnebago	40	3	7.5	0.0	0.0	0.0
Winneshiek	83	13	15.7	2.4	1.2	1.2
Woodbury	507	91	18.0	4.9	1.6	1.2
Worth	25	4	16.0	8.0	4.0	4.0
Wright	42	5	11.9	0.0	0.0	0.0
<b>STATE</b>	<b>14,051</b>	<b>1,901</b>	<b>13.5</b>	<b>4.6</b>	<b>1.2</b>	<b>0.8</b>

Source: Iowa Department of Public Health,  
Bureau of Lead Poisoning Prevention

**Blood Lead Poisoning in Children - 1994***Children Born 1/1/94 - 12/31/94 and Tested Before Age Six Years*

COUNTY	Number of Children Tested	Number of Children with Elevated Levels	%>=10 µg/dL	%>=15 µg/dL	%>=20 µg/dL	%>=25 µg/dL
Adair	67	8	11.9	6.0	3.0	0.0
Adams	15	4	26.7	13.3	6.7	0.0
Allamakee	60	10	16.7	8.3	1.7	1.7
Appanoose	85	13	15.3	2.4	0.0	0.0
Audubon	41	6	14.6	2.4	0.0	0.0
Benton	57	4	7.0	3.5	3.5	3.5
Black Hawk	1,049	161	15.3	6.4	2.5	1.2
Boone	149	20	13.4	3.4	0.0	0.0
Bremer	144	23	16.0	3.5	0.0	0.0
Buchanan	82	7	8.5	3.7	0.0	0.0
Buena Vista	51	6	11.8	3.9	0.0	0.0
Butler	77	6	7.8	2.6	2.6	1.3
Calhoun	30	6	20.0	13.3	3.3	3.3
Carroll	74	11	14.9	5.4	4.1	2.7
Cass	75	14	18.7	8.0	1.3	0.0
Cedar	77	18	23.4	5.2	3.9	3.9
Cerro Gordo	250	19	7.6	0.8	0.0	0.0
Cherokee	55	9	16.4	3.6	0.0	0.0
Chickasaw	35	5	14.3	8.6	0.0	0.0
Clarke	23	2	8.7	0.0	0.0	0.0
Clay	62	8	12.9	3.2	0.0	0.0
Clayton	70	9	12.9	2.9	0.0	0.0
Clinton	501	61	12.2	5.4	1.6	0.8
Crawford	85	4	4.7	1.2	1.2	1.2
Dallas	153	18	11.8	3.3	1.3	0.7
Davis	55	7	12.7	5.5	3.6	1.8
Decatur	33	5	15.2	9.1	3.0	0.0
Delaware	57	4	7.0	3.5	1.8	0.0
Des Moines	352	53	15.1	3.7	0.9	0.0
Dickinson	12	1	8.3	8.3	0.0	0.0
Dubuque	934	78	8.4	4.0	1.8	1.0
Emmet	12	2	16.7	8.3	0.0	0.0
Fayette	65	11	16.9	12.3	3.1	1.5
Floyd	79	8	10.1	2.5	0.0	0.0
Franklin	63	9	14.3	1.6	1.6	1.6
Fremont	4	2	50.0	25.0	0.0	0.0
Greene	70	8	11.4	2.9	0.0	0.0
Grundy	80	7	8.8	2.5	1.3	0.0
Guthrie	36	5	13.9	8.3	2.8	0.0
Hamilton	73	4	5.5	1.4	0.0	0.0
Hancock	54	3	5.6	1.9	0.0	0.0
Hardin	120	26	21.7	8.3	0.8	0.8
Harrison	47	5	10.6	0.0	0.0	0.0
Henry	81	8	9.9	2.5	0.0	0.0
Howard	42	5	11.9	2.4	0.0	0.0
Humboldt	72	10	13.9	6.9	0.0	0.0
Ida	41	12	29.3	9.8	0.0	0.0
Iowa	73	10	13.7	4.1	1.4	1.4
Jackson	212	27	12.7	3.3	0.9	0.5
Jasper	158	16	10.1	3.8	1.3	1.3
Jefferson	54	3	5.6	1.9	0.0	0.0

**Blood Lead Poisoning in Children - 1994 (continued)***Children Born 1/1/94 - 12/31/94 and Tested Before Age Six Years*

COUNTY	Number of Children Tested	Number of Children with Elevated Levels	%>=10 µg/dL	%>=15 µg/dL	%>=20 µg/dL	%>=25 µg/dL
Johnson	226	7	3.1	1.8	0.9	0.4
Jones	94	16	17.0	4.3	0.0	0.0
Keokuk	65	13	20.0	6.2	3.1	3.1
Kossuth	98	7	7.1	1.0	0.0	0.0
Lee	254	38	15.0	4.7	1.6	0.8
Linn	1,052	90	8.6	2.9	1.2	0.7
Louisa	82	13	15.9	1.2	0.0	0.0
Lucas	102	31	30.4	13.7	5.9	1.0
Lyon	48	8	16.7	8.3	2.1	0.0
Madison	30	4	13.3	6.7	3.3	0.0
Mahaska	134	21	15.7	3.7	0.7	0.0
Marion	99	5	5.1	2.0	0.0	0.0
Marshall	351	79	22.5	6.8	1.7	1.4
Mills	11	2	18.2	18.2	18.2	0.0
Mitchell	38	4	10.5	0.0	0.0	0.0
Monona	50	8	16.0	0.0	0.0	0.0
Monroe	53	6	11.3	1.9	0.0	0.0
Montgomery	47	6	12.8	4.3	2.1	2.1
Muscatine	264	36	13.6	6.1	1.5	0.8
O'Brien	29	7	24.1	0.0	0.0	0.0
Osceola	5	0	0.0	0.0	0.0	0.0
Page	27	5	18.5	3.7	0.0	0.0
Palo Alto	18	2	11.1	5.6	0.0	0.0
Plymouth	88	6	6.8	2.3	2.3	1.1
Pocahontas	14	1	7.1	0.0	0.0	0.0
Polk	1,346	79	5.9	2.2	0.5	0.4
Pottawattamie	55	7	12.7	7.3	5.5	0.0
Poweshiek	68	10	14.7	1.5	0.0	0.0
Ringgold	23	3	13.0	8.7	4.3	0.0
Sac	26	6	23.1	11.5	3.8	3.8
Scott	1,525	234	15.3	6.3	1.8	1.0
Shelby	62	0	0.0	0.0	0.0	0.0
Sioux	105	11	10.5	4.8	2.9	1.0
Story	431	24	5.6	1.4	0.2	0.0
Tama	119	30	25.2	11.8	2.5	0.8
Taylor	27	4	14.8	3.7	0.0	0.0
Union	49	7	14.3	4.1	4.1	2.0
Van Buren	30	6	20.0	3.3	0.0	0.0
Wapello	365	64	17.5	4.9	1.6	1.1
Warren	94	3	3.2	0.0	0.0	0.0
Washington	146	15	10.3	3.4	1.4	0.7
Wayne	59	13	22.0	10.2	1.7	1.7
Webster	182	20	11.0	3.8	0.5	0.0
Winnebago	59	3	5.1	0.0	0.0	0.0
Winneshiek	107	10	9.3	2.8	0.0	0.0
Woodbury	468	85	18.2	6.8	1.9	1.5
Worth	46	3	6.5	4.3	2.2	2.2
Wright	70	8	11.4	2.9	0.0	0.0
<b>STATE</b>	<b>14,987</b>	<b>1,841</b>	<b>12.3</b>	<b>4.4</b>	<b>1.3</b>	<b>0.7</b>

Source: Iowa Department of Public Health,  
Bureau of Lead Poisoning Prevention

## Marriages 1997-1999

TOTAL	Number	Crude <sup>1</sup>
State of Iowa	65,547	7.6

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>Counties with Average Population &lt;10,000</b>	Adair	127	5.2	Lucas	187	6.8
	Adams	96	7.3	Monroe	175	7.3
	Audubon	115	5.6	Osceola	156	7.5
	Clarke	169	6.8	Pocahontas	179	6.8
	Davis	205	8.1	Ringgold	107	6.7
	Decatur	179	7.2	Taylor	150	7.0
	Fremont	203	8.7	Van Buren	176	7.5
	Howard	207	7.2	Wayne	162	8.1
	Ida	155	6.5	Worth	132	5.7
	<b>Group Totals</b>					
Number:	2,880					
Crude:	7.0					

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>Counties with Average Population 10,000 to 20,000</b>	Allamakee	315	7.5	Henry	423	7.0
	Appanoose	362	8.9	Humboldt	193	6.2
	Buena Vista	429	7.3	Iowa	276	5.9
	Butler	267	5.7	Jefferson	385	7.6
	Calhoun	208	6.1	Jones	403	6.7
	Cass	308	7.0	Keokuk	236	6.9
	Cedar	325	6.0	Kossuth	369	6.9
	Cherokee	283	7.1	Louisa	227	6.3
	Chickasaw	1,787	44.4	Lyon	231	6.4
	Clay	340	6.5	Madison	400	9.6
	Clayton	405	7.2	Mills	246	5.7
	Crawford	338	6.8	Mitchell	195	5.9
	Delaware	353	6.4	Monona	168	5.5
	Dickinson	425	8.8	Montgomery	290	8.2
	Emmet	259	8.0	O'Brien	302	6.8
	Floyd	301	6.1	Page	327	6.3
	Franklin	201	6.2	Palo Alto	215	7.2
	Greene	215	7.1	Poweshiek	333	5.9
	Grundy	216	5.9	Sac	250	7.0
	Guthrie	249	7.2	Shelby	297	7.7
	Hamilton	328	6.8	Tama	412	7.7
	Hancock	228	6.3	Union	316	8.4
	Hardin	377	6.9	Winnebago	274	7.6
	Harrison	306	6.7	Wright	247	5.9
	<b>Group Totals</b>					
	Number:	15,840				
Crude:	7.6					

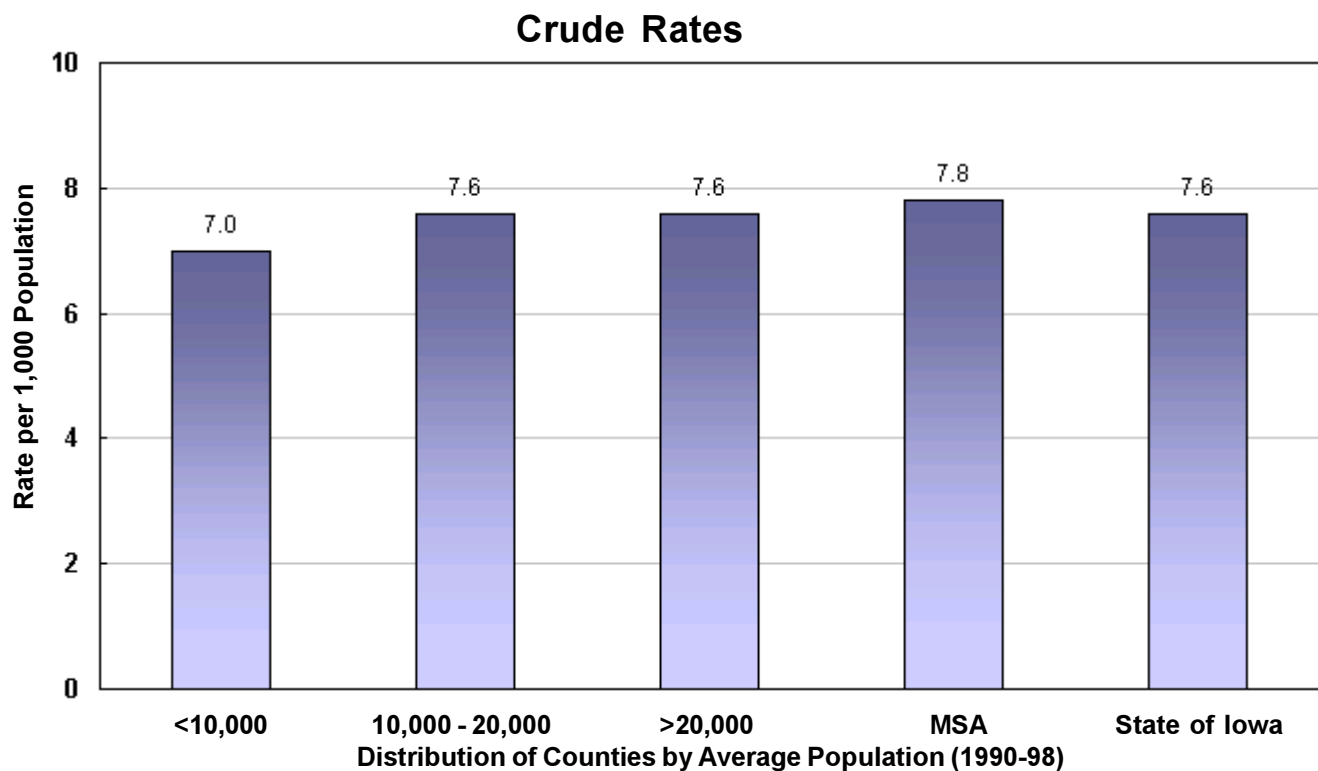
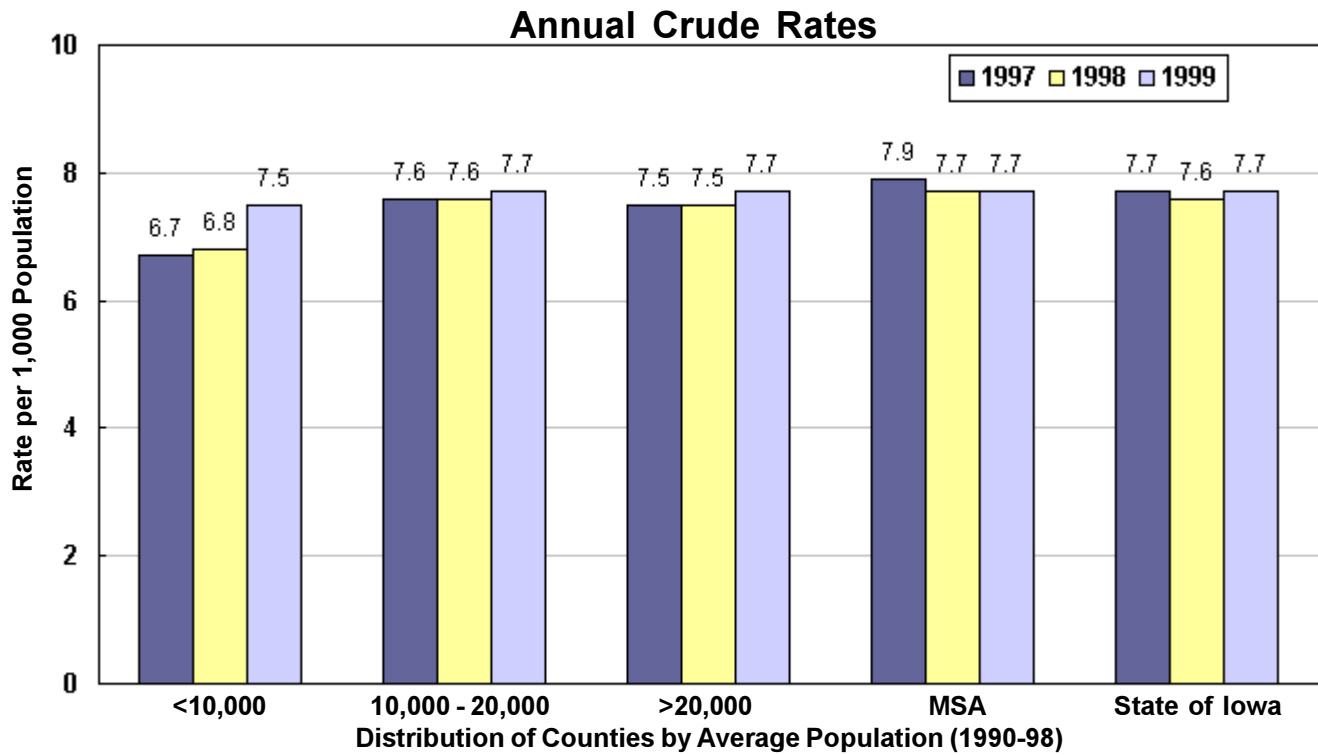
	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>Counties with Average Population &gt;20,000</b>	Benton	438	5.7	Mahaska	542	8.3
	Boone	528	6.7	Marion	740	7.9
	Bremer	527	7.5	Marshall	964	8.3
	Buchanan	484	7.6	Muscatine	1,163	9.4
	Carroll	457	7.1	Plymouth	425	5.7
	Cerro Gordo	1,003	7.3	Sioux	677	7.2
	Clinton	1,243	8.3	Story	1,526	6.8
	Des Moines	1,043	8.3	Wapello	929	8.7
	Fayette	405	6.2	Washington	429	6.8
	Jackson	446	7.4	Webster	929	8.0
	Jasper	750	6.9	Winneshiek	429	6.8
	Lee	1,014	8.8			
	<b>Group Totals</b>					
	Number:	17,091				
Crude:	7.6					

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>MSA Counties</b>	Black Hawk	2,839	7.8	Polk	8,760	8.1
	Dallas	764	6.9	Pottawattamie	2,273	8.8
	Dubuque	2,205	8.3	Scott	3,820	8.0
	Johnson	1,983	6.4	Warren	797	6.6
	Linn	4,101	7.5	Woodbury	2,194	7.2
	<b>Group Totals</b>					
Number:	29,736					
Crude:	7.8					

<sup>1</sup>Rates per 1,000 population

Source: Iowa Department of Public Health, Vital Statistics

## Marriages 1997-1999



## Dissolutions 1997-1999

TOTAL	Number	Crude <sup>1</sup>
State of Iowa	29,329	3.4

	County			County		
	Number	Crude <sup>1</sup>	County	Number	Crude <sup>1</sup>	
<b>Counties with Average Population &lt;10,000</b>	Adair	78	3.2	Lucas	115	4.2
	Adams	34	2.6	Monroe	105	4.4
	Audubon	52	2.5	Osceola	41	2.0
	Clarke	63	2.5	Pocahontas	75	2.8
	Davis	89	3.5	Ringgold	59	3.7
	Decatur	75	3.0	Taylor	63	3.0
	Fremont	74	3.2	Van Buren	93	3.9
	Howard	68	2.3	Wayne	74	3.7
	Ida	71	3.0	Worth	66	2.8
	<b>Group Totals</b>					
Number: 1,295						
Crude: 3.1						

	County			County		
	Number	Crude <sup>1</sup>	County	Number	Crude <sup>1</sup>	
<b>Counties with Average Population 10,000 to 20,000</b>	Allamakee	85	2.0	Henry	256	4.3
	Appanoose	116	2.9	Humboldt	99	3.2
	Buena Vista	202	3.5	Iowa	132	2.8
	Butler	104	2.2	Jefferson	228	4.5
	Calhoun	79	2.3	Jones	233	3.8
	Cass	170	3.9	Keokuk	42	1.2
	Cedar	144	2.7	Kossuth	111	2.1
	Cherokee	103	2.6	Louisa	127	3.6
	Chickasaw	129	3.2	Lyon	50	1.4
	Clay	182	3.5	Madison	166	4.0
	Clayton	137	2.4	Mills	158	3.6
	Crawford	195	4.0	Mitchell	94	2.8
	Delaware	133	2.4	Monona	89	2.9
	Dickinson	194	4.0	Montgomery	169	4.8
	Emmet	94	2.9	O'Brien	110	2.5
	Floyd	172	3.5	Page	194	3.7
	Franklin	95	2.9	Palo Alto	71	2.4
	Greene	105	3.5	Poweshiek	223	4.0
	Grundy	116	3.2	Sac	106	3.0
	Guthrie	126	3.6	Shelby	122	3.1
Hamilton	183	3.8	Tama	161	3.0	
Hancock	75	2.1	Union	151	4.0	
Hardin	176	3.2	Winnebago	118	3.3	
Harrison	175	3.8	Wright	115	2.7	
<b>Group Totals</b>						
Number: 6,615						
Crude: 3.2						

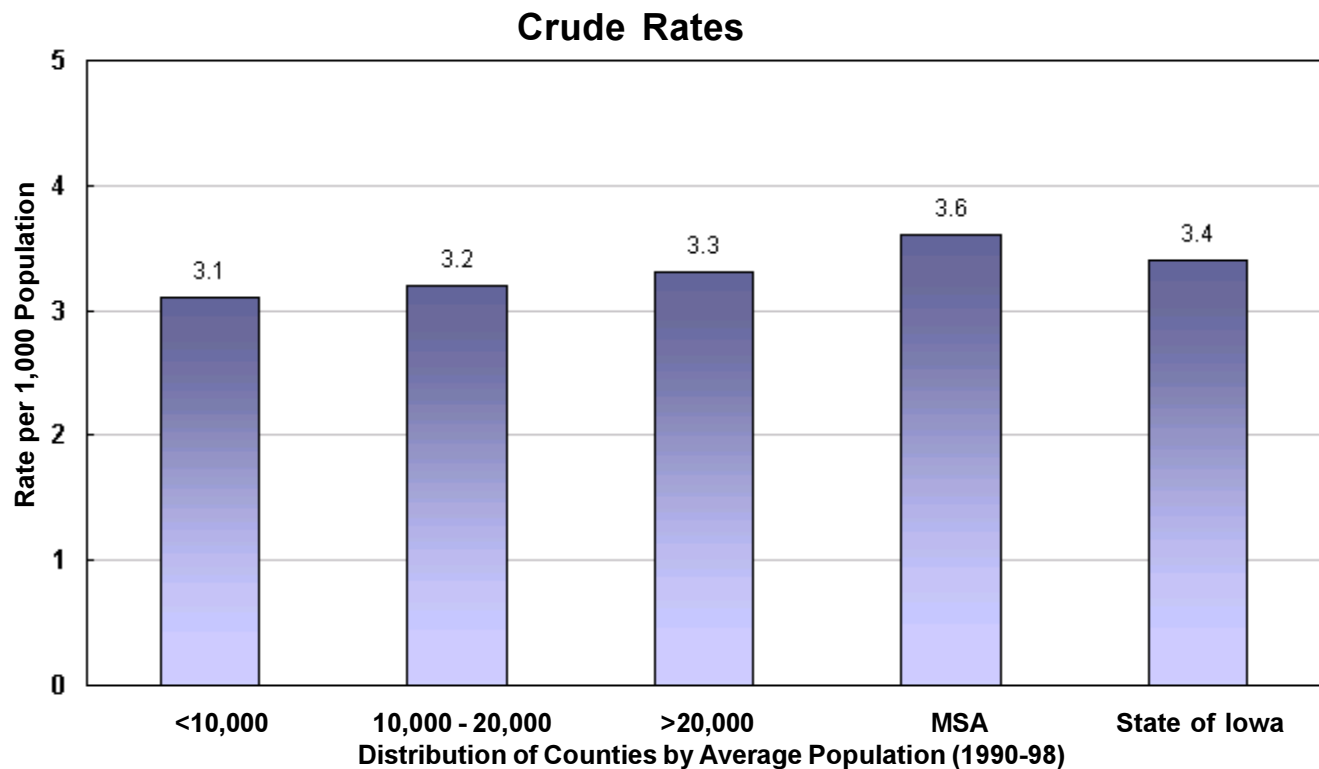
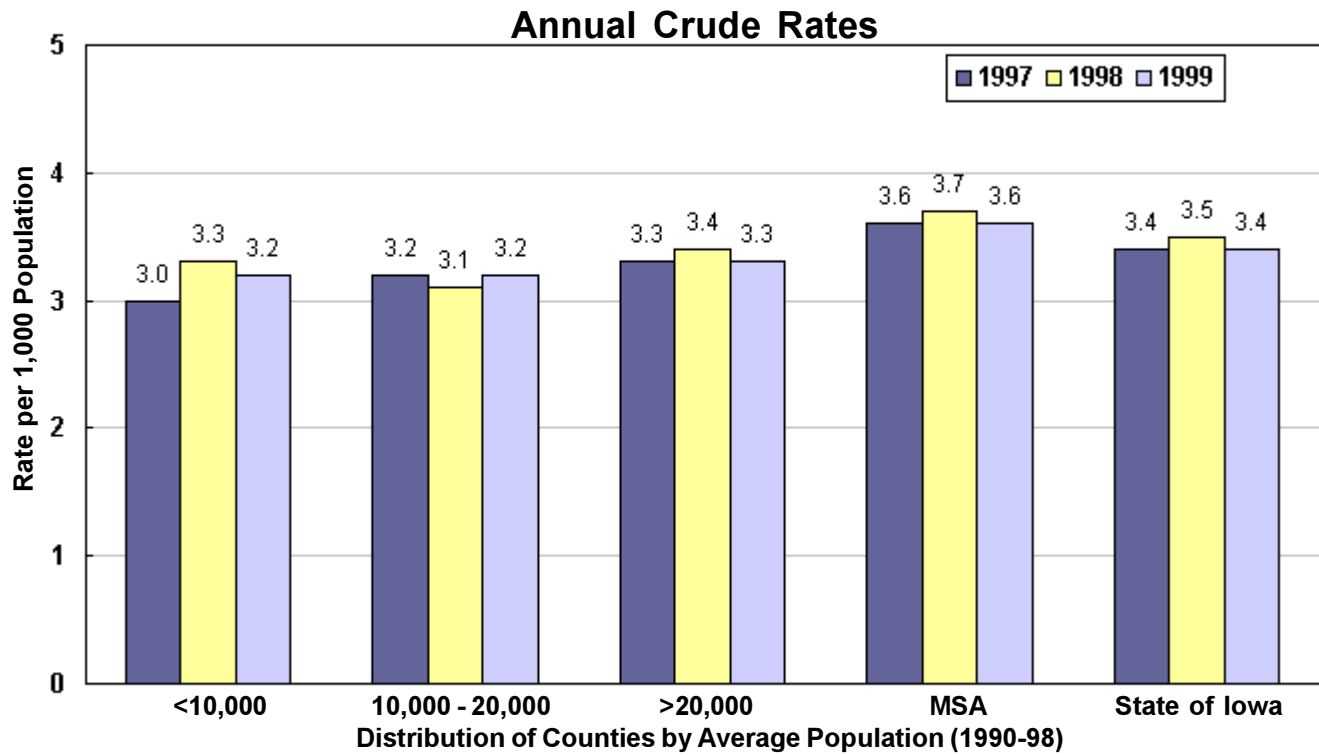
	County			County		
	Number	Crude <sup>1</sup>	County	Number	Crude <sup>1</sup>	
<b>Counties with Average Population &gt;20,000</b>	Benton	225	3.0	Mahaska	284	4.3
	Boone	332	4.2	Marion	336	3.6
	Bremer	192	2.7	Marshall	470	4.0
	Buchanan	168	2.6	Muscatine	623	5.1
	Carroll	201	3.1	Plymouth	215	2.9
	Cerro Gordo	443	3.2	Sioux	153	1.6
	Clinton	483	3.2	Story	541	2.4
	Des Moines	559	4.4	Wapello	476	4.5
	Fayette	201	3.1	Washington	189	3.0
	Jackson	167	2.8	Webster	531	4.6
	Jasper	202	1.9	Winneshiek	129	2.1
	Lee	378	3.3			
	<b>Group Totals</b>					
Number: 7,498						
Crude: 3.3						

	County			County		
	Number	Crude <sup>1</sup>	County	Number	Crude <sup>1</sup>	
<b>MSA Counties</b>	Black Hawk	842	2.3	Polk	4,412	4.1
	Dallas	230	2.1	Pottawattamie	1,229	4.8
	Dubuque	855	3.2	Scott	1,851	3.9
	Johnson	864	2.8	Warren	334	2.8
	Linn	1,943	3.5	Woodbury	1,361	4.5
<b>Group Totals</b>						
Number: 13,921						
Crude: 3.6						

<sup>1</sup>Rates per 1,000 population

Source: Iowa Department of Public Health, Vital Statistics

## Dissolutions 1997-1999



## Domestic Abuse Cases<sup>2</sup> 1997-1999

TOTAL	Number	Crude <sup>1</sup>
State of Iowa	19,872	2.3

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>Counties with Average Population &lt;10,000</b>	Adair	8	0.3	Lucas	18	0.7
	Adams	12	0.9	Monroe	27	1.1
	Audubon	*	*	Osceola	25	1.2
	Clarke	22	0.9	Pocahontas	22	0.8
	Davis	4	0.2	Ringgold	2	0.1
	Decatur	*	*	Taylor	9	0.4
	Fremont	11	0.5	Van Buren	45	1.9
	Howard	51	1.8	Wayne	32	1.6
	Ida	*	*	Worth	38	1.6
	<b>Group Totals</b>					
Number:	327					
Crude:	0.8					

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>Counties with Average Population 10,000 to 20,000</b>	Allamakee	*	*	Henry	107	1.8
	Appanoose	126	3.1	Humboldt	31	1.0
	Buena Vista	188	3.2	Iowa	14	0.3
	Butler	*	*	Jefferson	92	1.8
	Calhoun	58	1.7	Jones	65	1.1
	Cass	43	1.0	Keokuk	25	0.7
	Cedar	51	0.9	Kossuth	44	0.8
	Cherokee	71	1.8	Louisa	71	2.0
	Chickasaw	9	0.2	Lyon	16	0.4
	Clay	95	1.8	Madison	11	0.3
	Clayton	8	0.1	Mills	*	*
	Crawford	110	2.2	Mitchell	31	0.9
	Delaware	6	0.1	Monona	147	4.9
	Dickinson	*	*	Montgomery	147	4.2
	Emmet	50	1.5	O'Brien	60	1.3
	Floyd	52	1.1	Page	120	2.3
	Franklin	14	0.4	Palo Alto	40	1.3
	Greene	18	0.6	Poweshiek	45	0.8
	Grundy	26	0.7	Sac	40	1.1
	Guthrie	5	0.1	Shelby	20	0.5
Hamilton	30	0.6	Tama	92	1.7	
Hancock	29	0.8	Union	13	0.3	
Hardin	73	1.3	Winnebago	22	0.6	
Harrison	75	1.6	Wright	43	1.0	
<b>Group Totals</b>						
Number:	2,436					
Crude:	1.2					

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>Counties with Average Population &gt;20,000</b>	Benton	70	0.9	Mahaska	21	0.3
	Boone	197	2.5	Marion	215	2.3
	Bremer	60	0.9	Marshall	517	4.4
	Buchanan	20	0.3	Muscatine	561	4.6
	Carroll	46	0.7	Plymouth	85	1.1
	Cerro Gordo	407	2.9	Sioux	27	0.3
	Clinton	37	0.2	Story	206	0.9
	Des Moines	537	4.3	Wapello	173	1.6
	Fayette	105	1.6	Washington	29	0.5
	Jackson	13	0.2	Webster	95	0.8
	Jasper	82	0.8	Winneshiek	46	0.7
	Lee	426	3.7			
	<b>Group Totals</b>					
Number:	3,975					
Crude:	1.8					

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>MSA Counties</b>	Black Hawk	1,200	3.3	Polk	3,798	3.5
	Dallas	96	0.9	Pottawattamie	1,038	4.0
	Dubuque	1,117	4.2	Scott	2,224	4.7
	Johnson	665	2.2	Warren	175	1.5
	Linn	874	1.6	Woodbury	1947	6.4
<b>Group Totals</b>						
Number:	13,134					
Crude:	3.4					

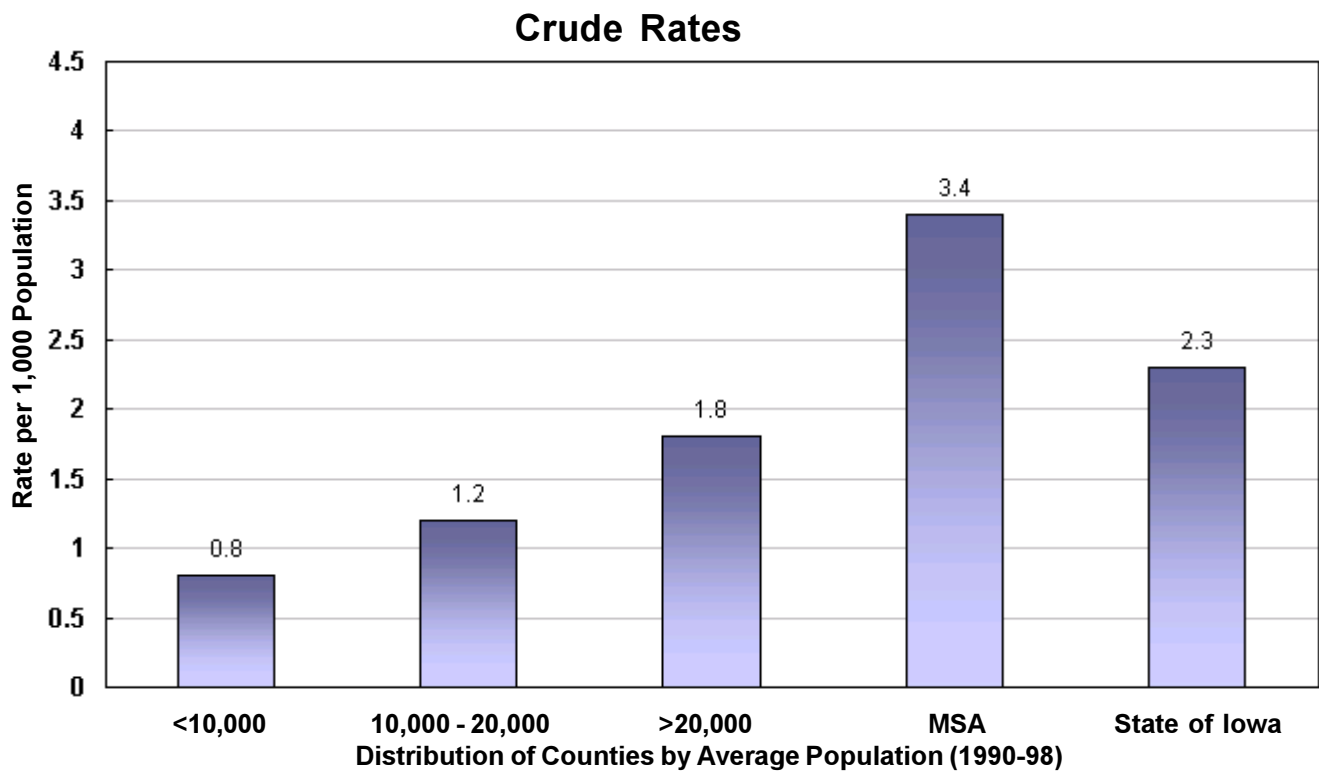
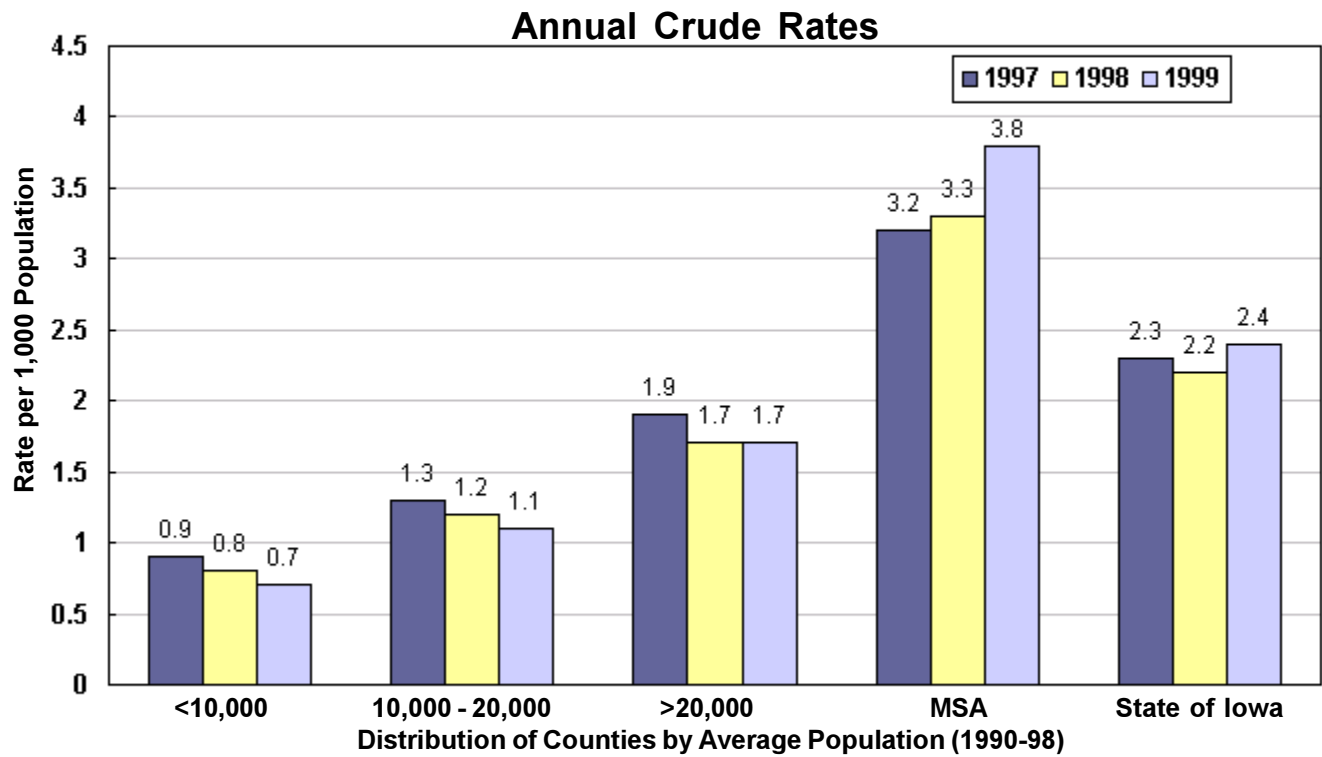
<sup>1</sup>Rates per 1,000 population

\*Number of events is less than 3

<sup>2</sup>Crime data may be incomplete due to selective reporting by counties and jurisdictions.

Source: Department of Public Safety, Uniform Crime Report

## Domestic Abuse Cases 1997-1999



## Driving Under the Influence Arrests<sup>2</sup> 1997-1999

TOTAL	Number	Crude <sup>1</sup>
State of Iowa	39,578	4.6

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>Counties with Average Population &lt;10,000</b>	Adair	93	3.8	Lucas	72	2.6
	Adams	42	3.2	Monroe	74	3.1
	Audubon	22	1.1	Osceola	129	6.2
	Clarke	174	7.0	Pocahontas	91	3.4
	Davis	97	3.8	Ringgold	41	2.5
	Decatur	113	4.6	Taylor	21	1.0
	Fremont	26	1.1	Van Buren	93	3.9
	Howard	181	6.3	Wayne	50	2.5
	Ida	15	0.6	Worth	166	7.2
	<b>Group Totals</b>					
Number:	1,500					
Crude:	3.6					

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>Counties with Average Population 10,000 to 20,000</b>	Allamakee	48	1.1	Henry	264	4.4
	Appanoose	167	4.1	Humboldt	105	3.4
	Buena Vista	484	8.3	Iowa	168	3.6
	Butler	27	0.6	Jefferson	234	4.6
	Calhoun	198	5.8	Jones	180	3.0
	Cass	298	6.8	Keokuk	72	2.1
	Cedar	260	4.8	Kossuth	108	2.0
	Cherokee	139	3.5	Louisa	345	9.6
	Chickasaw	26	0.6	Lyon	125	3.5
	Clay	354	6.8	Madison	30	0.7
	Clayton	72	1.3	Mills	41	0.9
	Crawford	284	5.8	Mitchell	109	3.3
	Delaware	155	2.8	Monona	258	8.5
	Dickinson	146	3.0	Montgomery	131	3.7
	Emmet	270	8.3	O'Brien	217	4.9
	Floyd	73	1.5	Page	249	4.8
	Franklin	145	4.5	Palo Alto	144	4.8
	Greene	47	1.6	Poweshiek	149	2.6
	Grundy	190	5.2	Sac	124	3.5
	Guthrie	33	1.0	Shelby	36	0.9
Hamilton	313	6.5	Tama	273	5.1	
Hancock	81	2.2	Union	75	2.0	
Hardin	234	4.3	Winnebago	96	2.7	
Harrison	323	7.0	Wright	211	5.0	
<b>Group Totals</b>						
Number:	8,111					
Crude:	3.9					

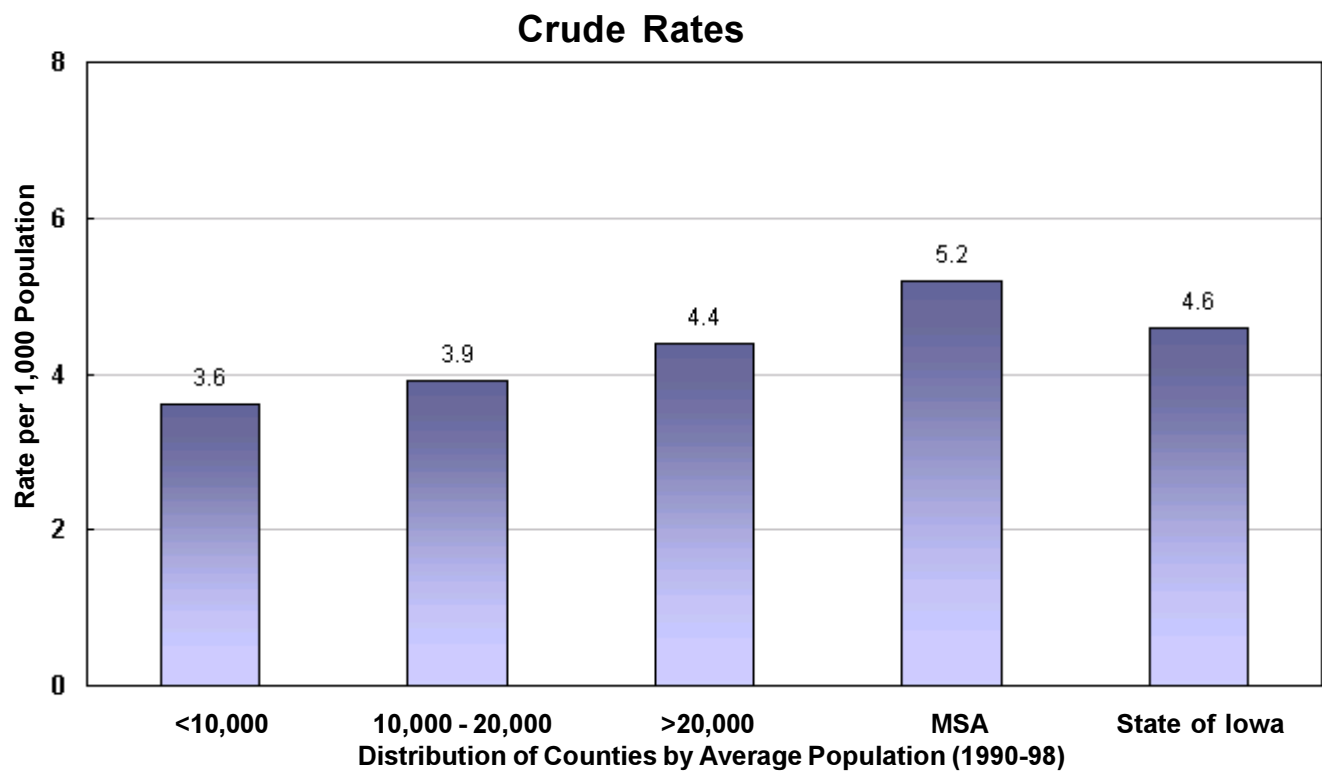
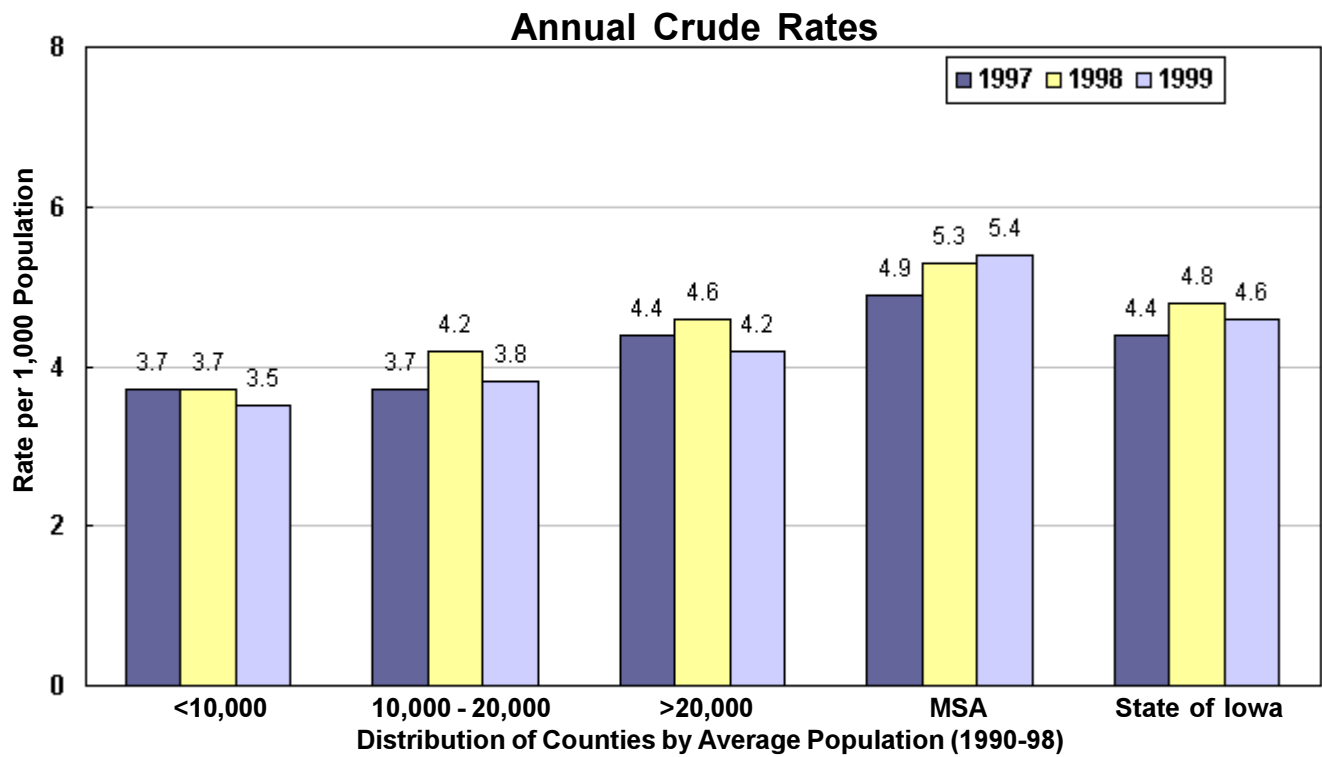
	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>Counties with Average Population &gt;20,000</b>	Benton	236	3.1	Mahaska	360	5.5
	Boone	256	3.3	Marion	447	4.8
	Bremer	262	3.7	Marshall	546	4.7
	Buchanan	389	6.1	Muscatine	830	6.7
	Carroll	293	4.5	Plymouth	222	3.0
	Cerro Gordo	687	5.0	Sioux	169	1.8
	Clinton	173	1.2	Story	1,359	6.0
	Des Moines	769	6.1	Wapello	575	5.4
	Fayette	289	4.4	Washington	144	2.3
	Jackson	177	2.9	Webster	532	4.6
	Jasper	355	3.3	Winneshiek	230	3.7
	Lee	578	5.0			
	<b>Group Totals</b>					
	Number:	9,878				
Crude:	4.4					

	County			County		
	Number	Crude <sup>1</sup>	Number	Crude <sup>1</sup>		
<b>MSA Counties</b>	Black Hawk	1,935	5.3	Polk	5,303	4.9
	Dallas	407	3.7	Pottawattamie	924	3.6
	Dubuque	1,582	6.0	Scott	2,153	4.5
	Johnson	3,090	10.0	Warren	429	3.6
	Linn	1,868	3.4	Woodbury	2,398	7.9
<b>Group Totals</b>						
Number:	20,089					
Crude:	5.2					

<sup>1</sup>Rates per 1,000 population<sup>2</sup>Crime data may be incomplete due to selective reporting by counties and jurisdictions.

Source: Department of Public Safety, Uniform Crime Report

## Driving Under the Influence Arrests 1997-1999



## Juvenile Arrests<sup>2</sup> 1997-1999

TOTAL	Number	Crude <sup>1</sup>
State of Iowa	71,487	8.3

	County	Number	Crude <sup>1</sup>		County	Number	Crude <sup>1</sup>
<b>Counties with Average Population &lt;10,000</b>	Adair	32	1.3	<b>Counties with Average Population 10,000 to 20,000</b>	Lucas	154	5.6
	Adams	44	3.3		Monroe	53	2.2
	Audubon	26	1.3		Osceola	215	10.3
	Clarke	71	2.9		Pocahontas	9	0.3
	Davis	36	1.4		Ringgold	*	*
	Decatur	3	0.1		Taylor	*	*
	Fremont	*	*		Van Buren	64	2.7
	Howard	299	10.3		Wayne	41	2.0
	Ida	9	0.4		Worth	37	1.6
	<b>Group Totals</b>						
Number: 1,094							
Crude: 2.7							

	County	Number	Crude <sup>1</sup>		County	Number	Crude <sup>1</sup>
<b>Counties with Average Population 10,000 to 20,000</b>	Allamakee	27	0.6	<b>Counties with Average Population &gt;20,000</b>	Henry	370	6.2
	Appanoose	653	16.1		Humboldt	111	3.6
	Buena Vista	764	13.1		Iowa	58	1.2
	Butler	5	0.1		Jefferson	278	5.5
	Calhoun	51	1.5		Jones	73	1.2
	Cass	298	6.8		Keokuk	3	0.1
	Cedar	221	4.1		Kossuth	474	8.9
	Cherokee	288	7.3		Louisa	125	3.5
	Chickasaw	18	0.4		Lyon	208	5.8
	Clay	620	11.9		Madison	21	0.5
	Clayton	11	0.2		Mills	*	*
	Crawford	161	3.3		Mitchell	212	6.4
	Delaware	395	7.1		Monona	301	9.9
	Dickinson	18	0.4		Montgomery	273	7.7
	Emmet	31	1.0		O'Brien	463	10.4
	Floyd	261	5.3		Page	380	7.3
	Franklin	250	7.7		Palo Alto	118	3.9
	Greene	25	0.8		Poweshiek	162	2.9
	Grundy	102	2.8		Sac	85	2.4
	Guthrie	7	0.2		Shelby	39	1.0
Hamilton	380	7.9	Tama	354	6.6		
Hancock	179	5.0	Union	83	2.2		
Hardin	569	10.3	Winnebago	147	4.1		
Harrison	168	3.7	Wright	201	4.8		

	County	Number	Crude <sup>1</sup>		County	Number	Crude <sup>1</sup>
<b>Counties with Average Population &gt;20,000</b>	Benton	83	1.1	<b>MSA Counties</b>	Mahaska	633	9.6
	Boone	512	6.5		Marion	376	4.0
	Bremer	402	5.7		Marshall	2,208	19.0
	Buchanan	509	8.0		Muscatine	2,324	18.9
	Carroll	438	6.8		Plymouth	422	5.7
	Cerro Gordo	1,799	13.0		Sioux	204	2.2
	Clinton	269	1.8		Story	1,454	6.5
	Des Moines	2,151	17.1		Wapello	1,001	9.4
	Fayette	302	4.6		Washington	4	0.1
	Jackson	495	8.2		Webster	980	8.4
	Jasper	385	3.5		Winneshiek	320	5.1
	Lee	1,678	14.5				

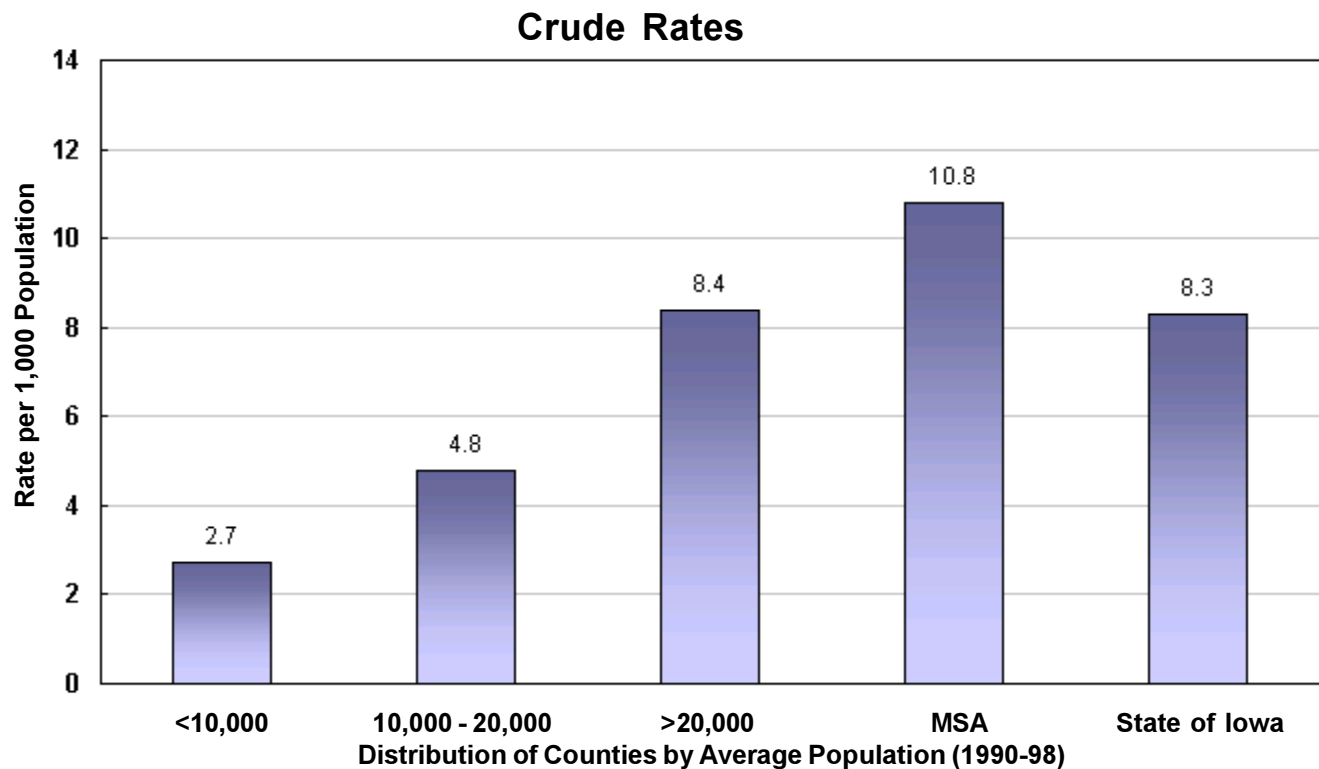
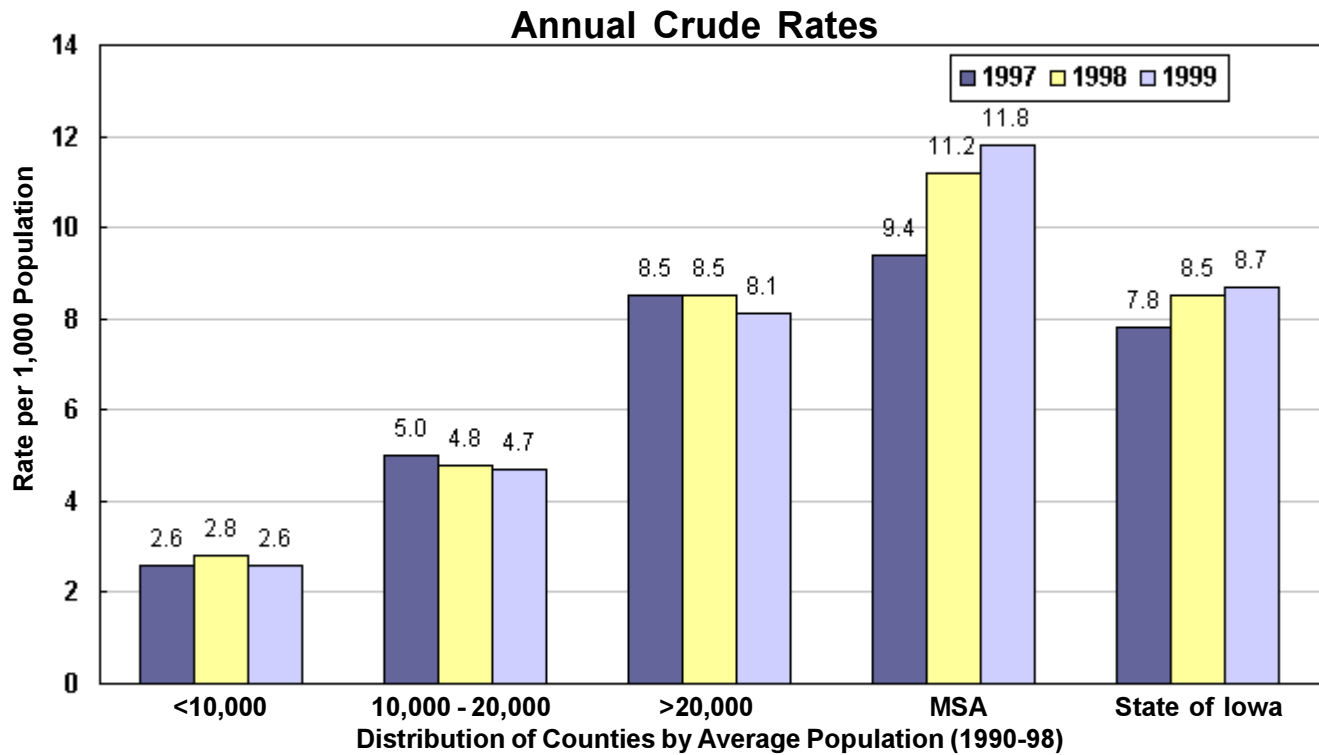
	County	Number	Crude <sup>1</sup>		County	Number	Crude <sup>1</sup>
<b>MSA Counties</b>	Black Hawk	4,606	12.7	<b>Group Totals</b>	Polk	7,896	7.3
	Dallas	412	3.7		Pottawattamie	3,382	13.1
	Dubuque	3,247	12.3		Scott	8,002	16.8
	Johnson	2,847	9.2		Warren	498	4.1
	Linn	2,239	4.1		Woodbury	8,273	27.1
Number: 41,402							
Crude: 10.8							

<sup>1</sup>Rates per 1,000 population  
\*Number of events is less than 3

<sup>2</sup>Crime data may be incomplete due to selective reporting by counties and jurisdictions.

Source: Department of Public Safety, Uniform Crime Report

## Juvenile Arrests 1997-1999



## Juvenile Vandalism<sup>2</sup> 1997-1999

TOTAL	Number	Crude <sup>1</sup>
State of Iowa	4,127	0.5

	County	Number	Crude <sup>1</sup>		County	Number	Crude <sup>1</sup>
<b>Counties with Average Population &lt;10,000</b>	Adair	5	0.2	<b>Counties with Average Population &gt;20,000</b>	Lucas	17	0.6
	Adams	*	*		Monroe	*	*
	Audubon	*	*		Osceola	5	0.2
	Clarke	4	0.2		Pocahontas	*	*
	Davis	*	*		Ringgold	*	*
	Decatur	*	*		Taylor	*	*
	Fremont	*	*		Van Buren	*	*
	Howard	35	1.2		Wayne	3	0.1
	Ida	*	*		Worth	*	*
	<u>Group Totals</u>					<u>Group Totals</u>	
Number:	77						
Crude:	0.2						

	County	Number	Crude <sup>1</sup>		County	Number	Crude <sup>1</sup>
<b>Counties with Average Population 10,000 to 20,000</b>	Allamakee	*	*	<b>Counties with Average Population &gt;20,000</b>	Henry	24	0.4
	Appanoose	38	0.9		Humboldt	3	0.1
	Buena Vista	113	1.9		Iowa	3	0.1
	Butler	*	*		Jefferson	19	0.4
	Calhoun	4	0.1		Jones	*	*
	Cass	12	0.3		Keokuk	*	*
	Cedar	28	0.5		Kossuth	90	1.7
	Cherokee	22	0.6		Louisa	*	*
	Chickasaw	*	*		Lyon	6	0.2
	Clay	125	2.4		Madison	*	*
Clayton	*	*	Mills	*	*		
Crawford	*	*	Mitchell	13	0.4		
Delaware	25	0.5	Monona	6	0.2		
Dickinson	*	*	Montgomery	27	0.8		
Emmet	*	*	O'Brien	27	0.6		
Floyd	16	0.3	Page	23	0.4		
Franklin	6	0.2	Palo Alto	8	0.3		
Greene	6	0.2	Poweshiek	8	0.1		
Grundy	3	0.1	Sac	6	0.2		
Guthrie	*	*	Shelby	*	*		
Hamilton	44	0.9	Tama	32	0.6		
Hancock	23	0.6	Union	9	0.2		
Hardin	20	0.4	Winnebago	17	0.5		
Harrison	6	0.1	Wright	10	0.2		
<u>Group Totals</u>				<u>Group Totals</u>			
Number:	825						
Crude:	0.4						

	County	Number	Crude <sup>1</sup>		County	Number	Crude <sup>1</sup>
<b>Counties with Average Population &gt;20,000</b>	Benton	*	*	<b>MSA Counties</b>	Mahaska	50	0.8
	Boone	49	0.6		Marion	40	0.4
	Bremer	10	0.1		Marshall	94	0.8
	Buchanan	45	0.7		Muscatine	95	0.8
	Carroll	63	1.0		Plymouth	20	0.3
	Cerro Gordo	149	1.1		Sioux	34	0.4
	Clinton	14	0.1		Story	78	0.3
	Des Moines	83	0.7		Wapello	31	0.3
	Fayette	4	0.1		Washington	*	*
	Jackson	28	0.5		Webster	78	0.7
Jasper	32	0.3	Winneshiek	13	0.2		
Lee	161	1.4					
<u>Group Totals</u>				<u>Group Totals</u>			
Number:	1,171						
Crude:	0.5						

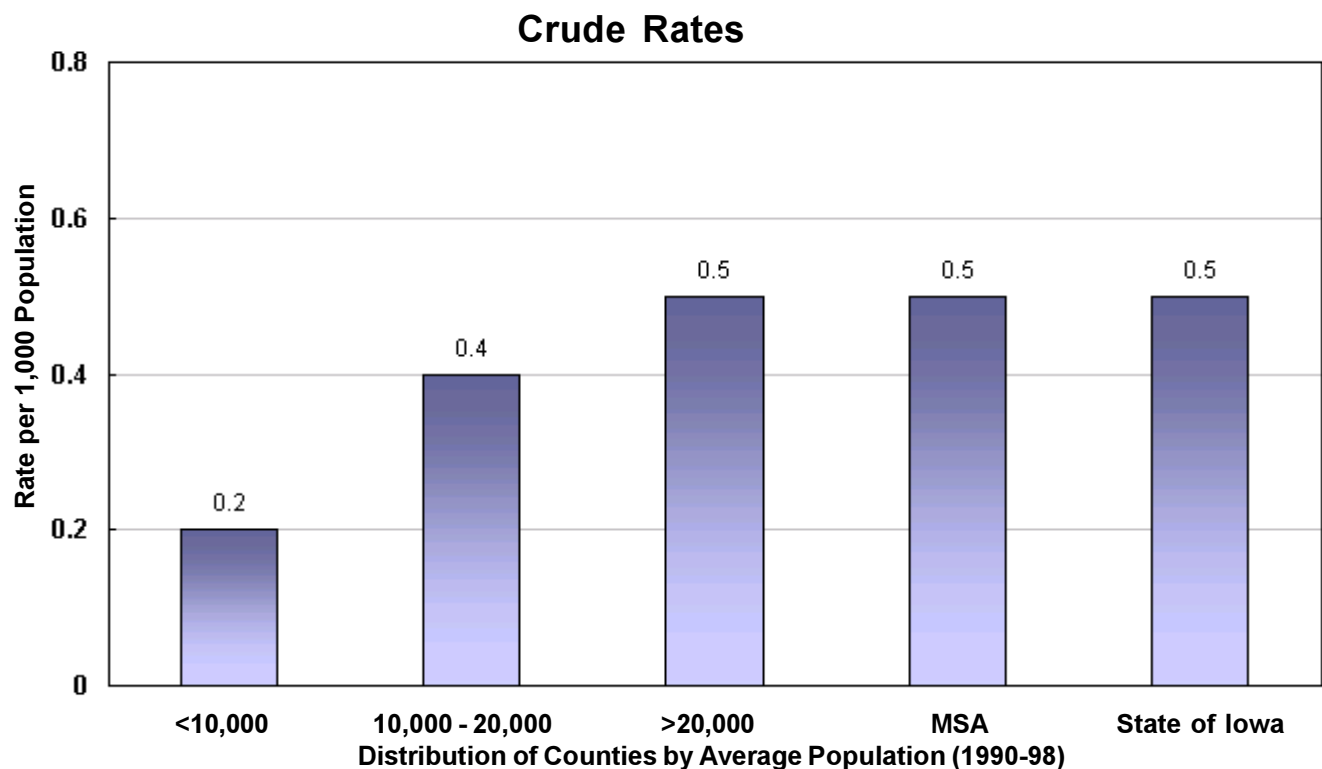
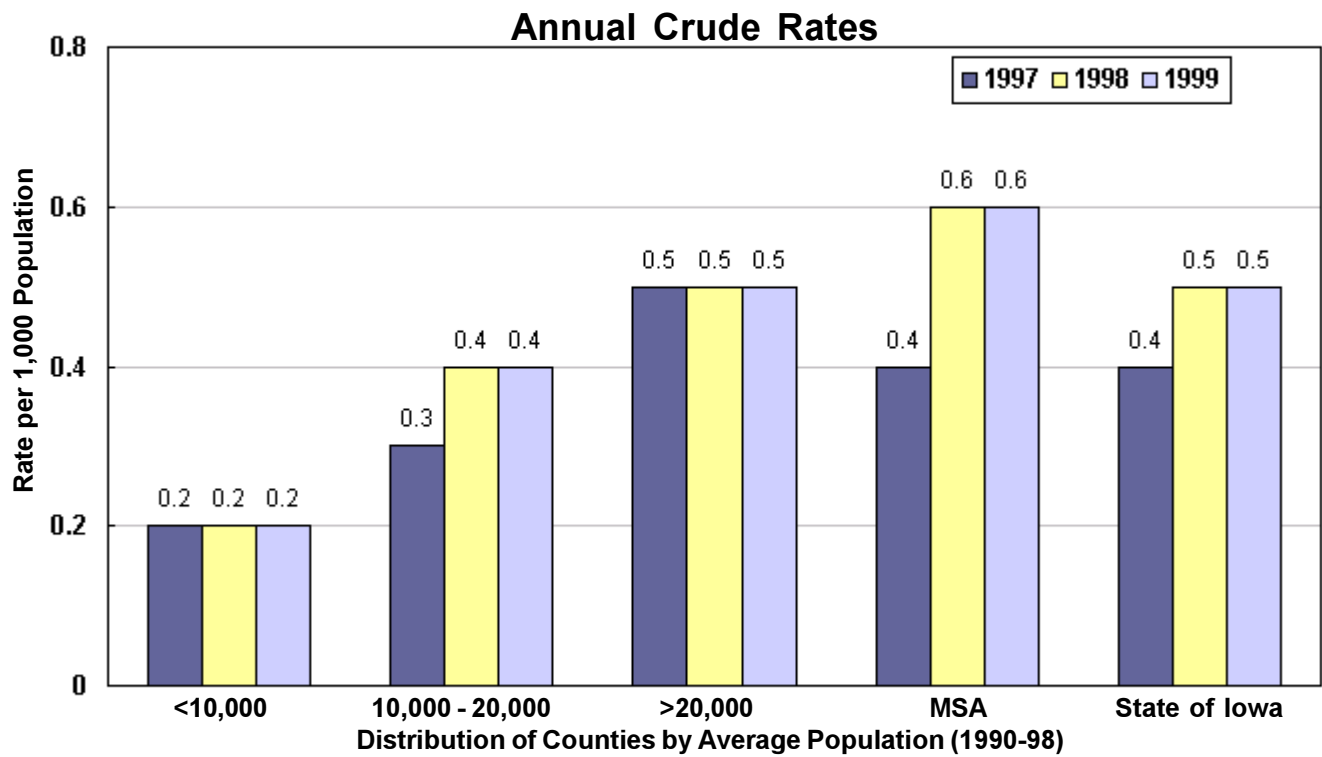
	County	Number	Crude <sup>1</sup>		County	Number	Crude <sup>1</sup>
<b>MSA Counties</b>	Black Hawk	267	0.7	<b>MSA Counties</b>	Polk	516	0.5
	Dallas	29	0.3		Pottawattamie	205	0.8
	Dubuque	42	0.2		Scott	357	0.8
	Johnson	172	0.6		Warren	30	0.2
	Linn	131	0.2		Woodbury	305	1.0
<u>Group Totals</u>				<u>Group Totals</u>			
Number:	2,054						
Crude:	0.5						

<sup>1</sup>Rates per 1,000 population  
\*Number of events is less than 3

<sup>2</sup>Crime data may be incomplete due to selective reporting by counties and jurisdictions.

Source: Department of Public Safety, Uniform Crime Report

## Juvenile Vandalism 1997-1999



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