

Pinal County Division of Public Health



*“Promoting the Health of Individuals
Families and the Community”*

COMMUNITY HEALTH PROFILE

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ABOUT THE COMMUNITY HEALTH PROFILE

The Document

The Pinal County Community Health Profile 2002 is not a comprehensive report, only a snapshot in time about the health status of Pinal County. Whenever possible, comparisons are made to see where Pinal County stands relative to the State of Arizona as a whole. Intended to be a work in progress, this document will be amended and updated annually. By doing this, current information about the issues that directly and indirectly affect the well-being of Pinal County's residents can be easily assessed.

Goal

The goal of making this information available to the general public is to deepen people's understanding of their community and facilitate continuing discussion about the health status of Pinal County. It is hoped that community groups and organizations will find this information useful in program planning and prioritizing health concerns.

INFORMATION AND CAUTIONS ABOUT THE DATA

United States Census

Every ten years, the US Census Bureau collects and compiles demographic, social, and economic information pertaining to the US population. Though some populations are not likely counted at census time (i.e., homeless people, undocumented immigrants), it is the best comprehensive information we have about the US population. This report uses the 2000 census data.

Statistics

Statistics are taken from reports compiled and reported annually by the Arizona Department of Health Services and the Pinal County Division of Public Health.

Small Numbers

In Pinal County, the number of cases and events are often small enough so that a slight increase may appear great. For instance, if there is one case of a disease one year and two the next, it may appear that the rate has doubled. While it is true that the rate has doubled among the population, it does not indicate a serious health problem for the community.

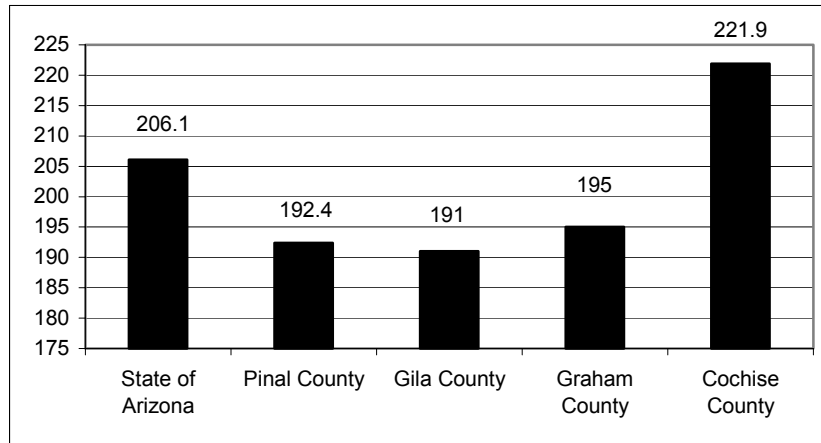
Drawing Conclusions and Making Comparisons

Though health data is a powerful tool for assessing the health of communities, it can be difficult to pinpoint exact causes responsible for health problems in a population. Even the best data gives an incomplete picture of the complex mix of factors responsible for health problems. Therefore, caution should be used in drawing conclusions about the true nature of the health problems presented in this document.

Comparing Pinal County to other rural counties in Arizona can be an interesting exercise, but it is important to remember the unique characteristics of Pinal County when doing so. Pinal County, in general, maintains a health status that is equal to other rural counties in Arizona. That is to say, Pinal County is no better or worse off in terms of overall health status when compared to its rural county neighbors. However, there are numerous issues at the base of health status that require further evaluation by public health professionals.

For example, like many rural counties in Arizona, Pinal County continues to experience a high death rate (mortality rate) due to cardiovascular disease. In comparison to its rural neighbors and the State of Arizona as a whole, death due to cardiovascular disease is high based on per capita populations.

**DEATH DUE TO CARDIOVASCULAR DISEASE IN 2000
PER 100,000 POPULATION**



As illustrated above, Pinal County in 2000 nearly equaled the cardiovascular death rate of the State of Arizona as a whole. Naturally, the next question is why? There are numerous complex factors at the base of this problem. However, it is well documented that chronic disease is a root cause of death attributable to cardiovascular disease. In addition, the onset of chronic disease has important behavioral issues (i.e., sedentary lifestyle, poor eating habits) that contribute to its onset. Therefore, it is important to approach the issue of improving county health status as a community effort that incorporates all levels of health and human services.

IMPORTANT TERMS

Provided below is a list of common terms used in epidemiology (health statistics) that will help the reader further understand the data provided in this document.

Age-Adjusted Rates:

These are rates that have undergone statistical transformation to allow for an improved comparison between groups that may differ in a characteristic that could affect or skew the presence of disease in a population.

Age-Specific Rates:

These are rates for specific age groups rather than the population as a whole. The denominator used to calculate the rate includes the population for the age group of interest rather than the population as a whole.

Case or Crude Rates:

These are rates that describe the number of reported cases/events in a population during a specific time period.

Incidence Rates:

Rates of "new" cases, events, or conditions occurring during a given time period.

Mean:

The average number.

Morbidity:

Measures of physical or psychological illness.

Mortality:

A measure of deaths occurring in a given population, location, or other group of interest during a specific time period.

Prevalence:

All cases of a disease or event present during a given time period.

Prevalence Rates:

Rates of all cases of disease or events present during a given time period.

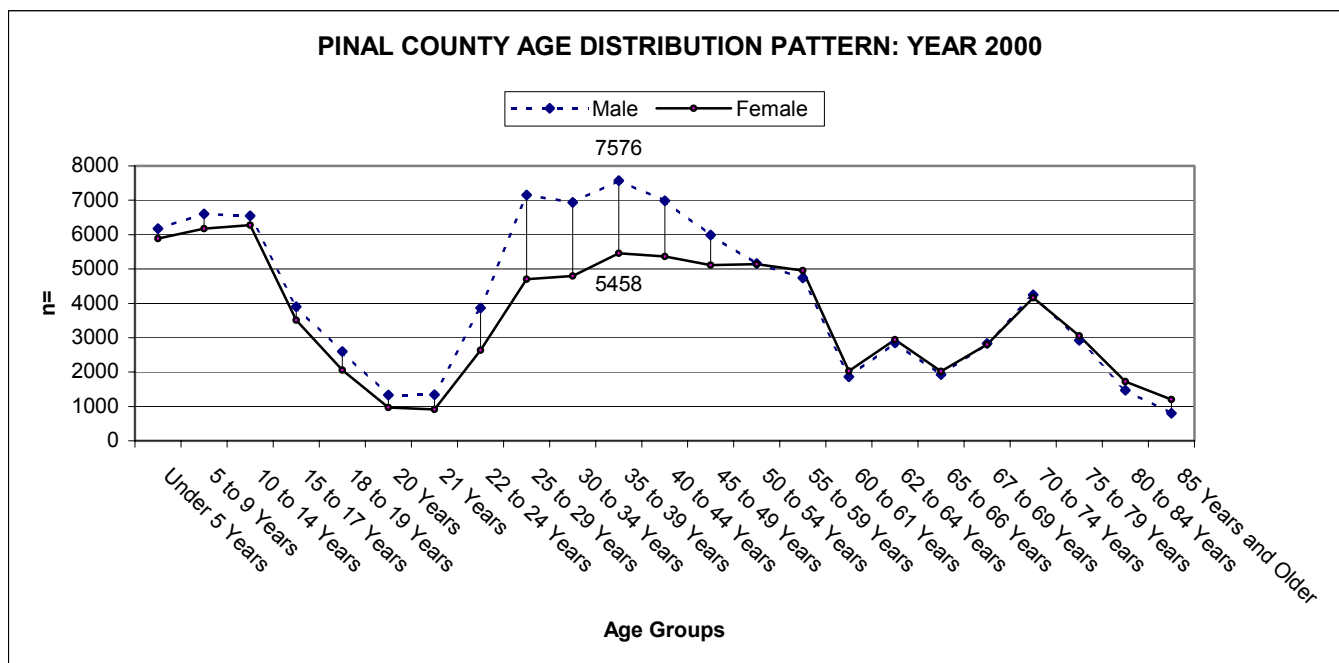
DEMOGRAPHIC INFORMATION

POPULATION¹

	<i>Pinal County</i>	<i>Arizona</i>
Population Size	179,727	5,130,632
Population Under 18 Years of Age	45,081	701,311

	<i>Pinal County</i>	<i>Arizona</i>
White	126,559	3,873,611
Hispanic	53,671	1,295,617
Native-American	14,034	255,879
African-American	4,958	158,873
Asian	1,086	92,236
Pacific Islander	146	6,733
Other ²	4,795	596,774

	<i>Pinal County</i>	<i>Arizona</i>
Individuals Living in Poverty ³	27,816	686,669

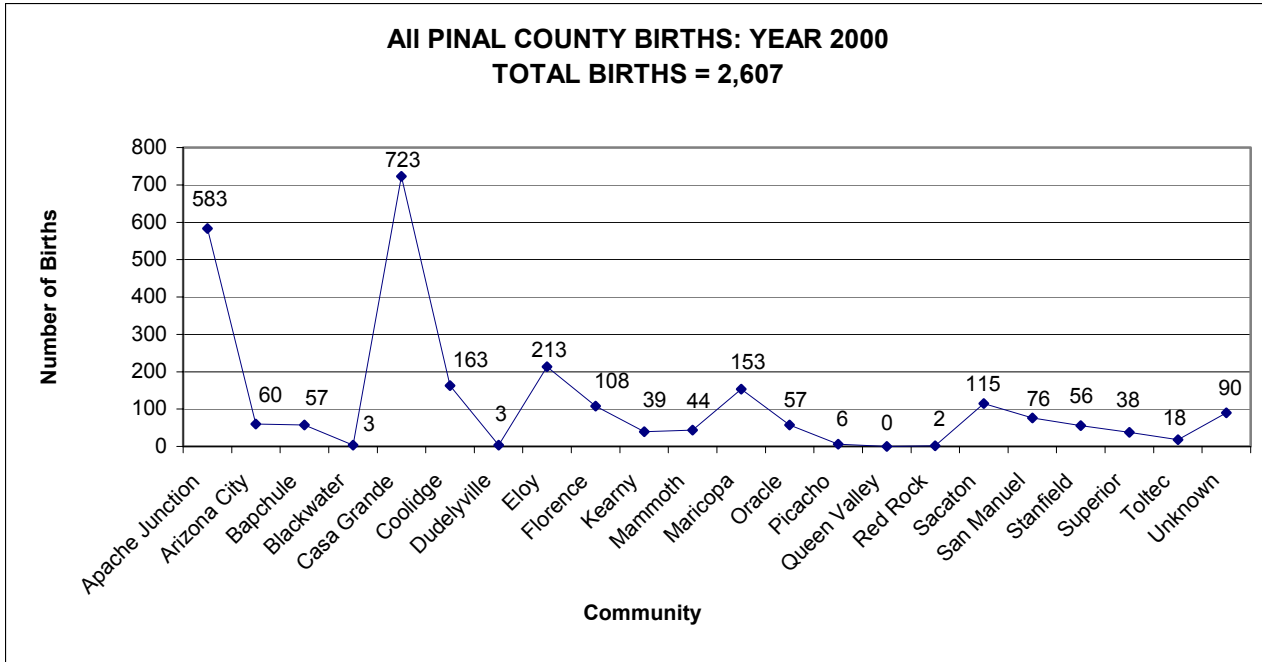


¹ Source: US Census Bureau, *Pinal County*, 2000.

² Note: Reflects changes in US Census data gathering in 2000 (i.e., self-identifies as more than one race).

³ Source: US Census Bureau, *Pinal County*, 2002.

BIRTHS⁴



Births⁵

	Pinal County Population	Total Births
1997	150,375	2,150
1998	157,675	2,231
1999	165,400	2,401
2000	179,727	2,607

Birth Rate (per 1,000 Population)

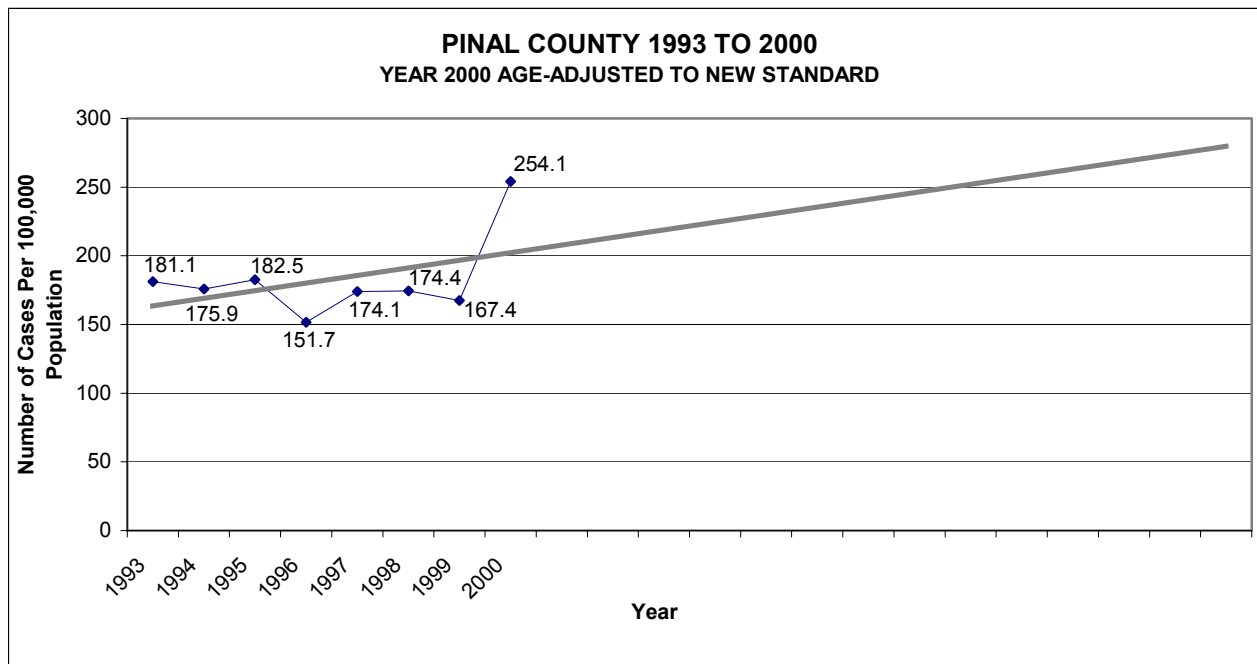
	1997	1998	1999	2000
Arizona	16.4	16.5	16.3	16.6
Pinal County	14.5	14.6	14.5	14.5

⁴ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 2000.

⁵ Source: *Ibid.*, 4.

MORTALITY AND MORBIDITY

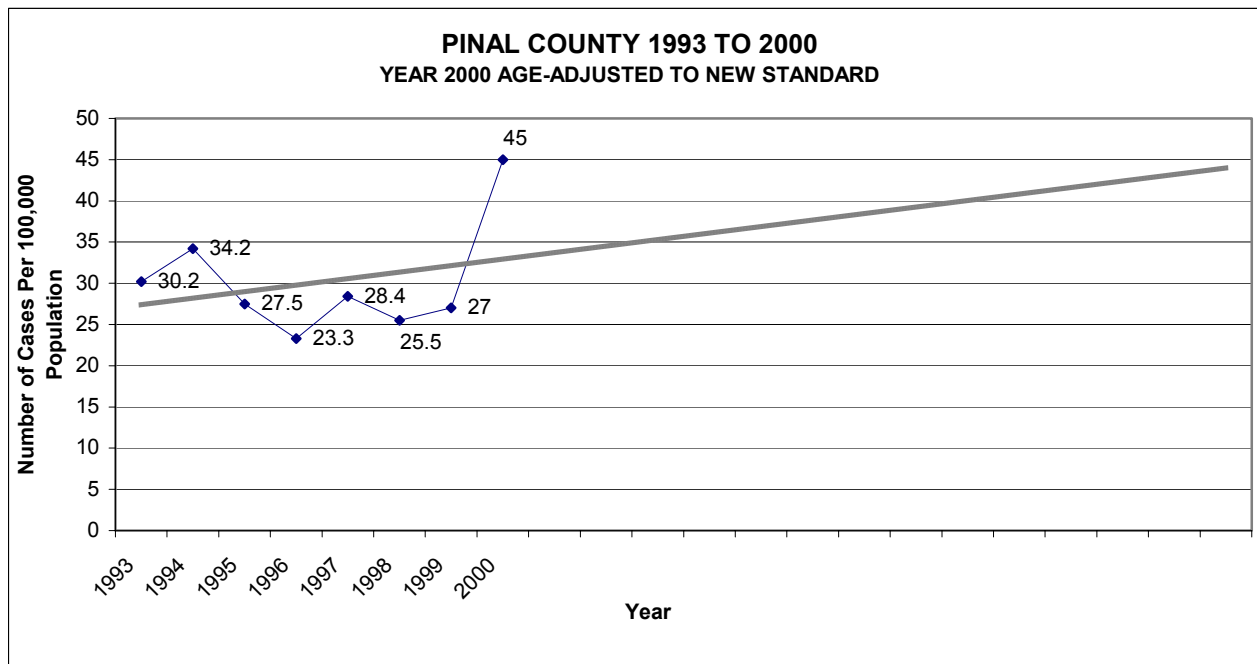
CARDIOVASCULAR DISEASE MORTALITY⁶



Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
196.2	192.4	180.2	171.9	166.9	167.3	161.4	276.1

⁶ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

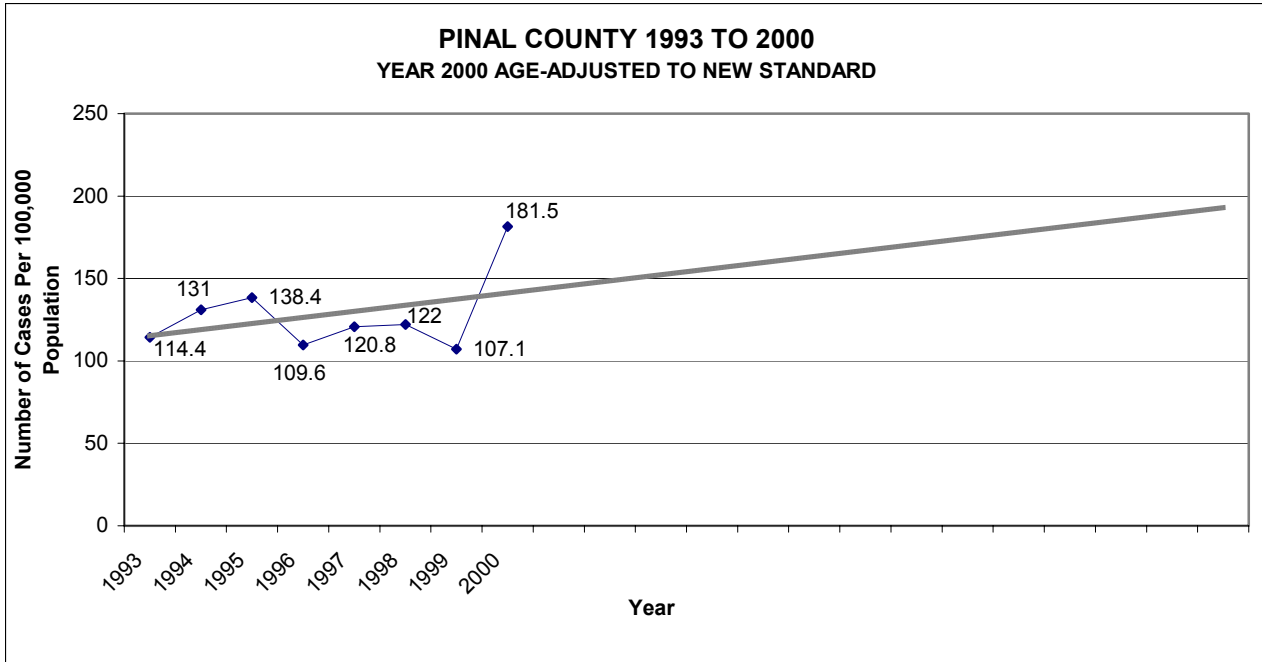
CEREBROVASCULAR DISEASE MORTALITY⁷



<i>Arizona Number of Cases per 100,000 Population</i>							
1993	1994	1995	1996	1997	1998	1999	2000
30.1	30.7	28.5	13.2	29.2	28.0	25.9	51.7

⁷ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

CANCER MORTALITY (All CANCERS)⁸

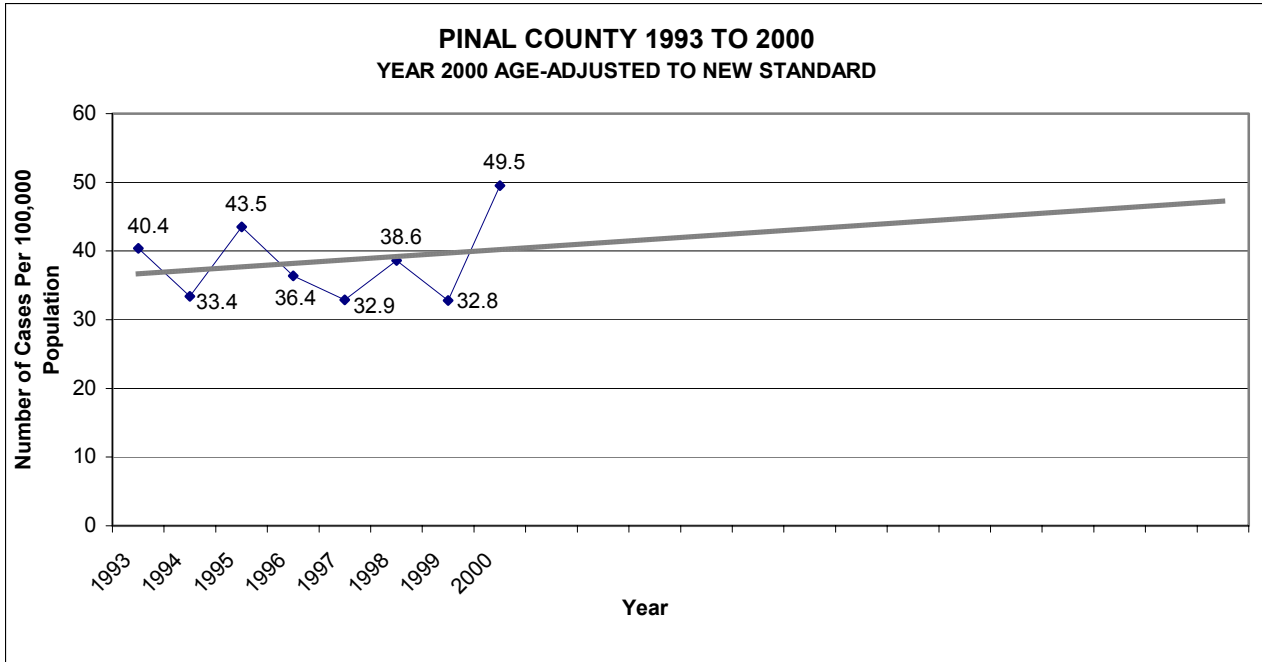


Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
130.7	132.3	121.7	119.3	120.8	114.2	113.1	170.4

Pinal County (181.5) higher than State of Arizona (170.4) number of cases per 100,000 population.

⁸ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

LUNG CANCER MORTALITY⁹

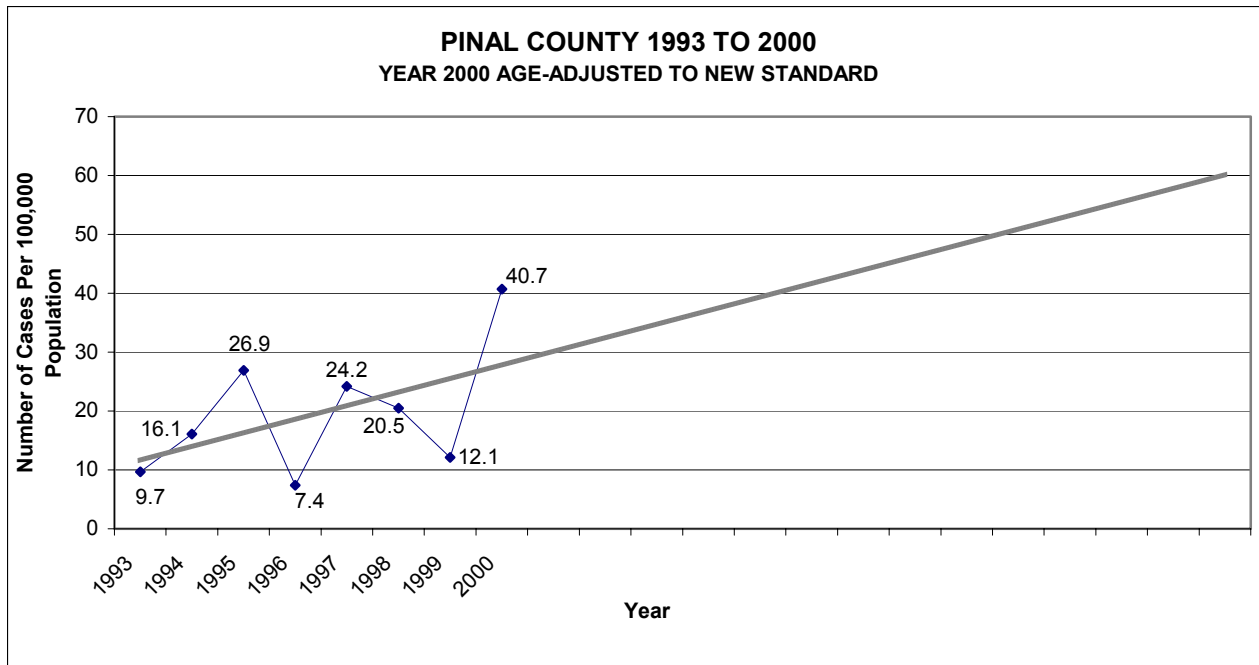


Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
37.2	33.3	34.1	33.5	32.2	31.8	32.3	46.1

Pinal County (49.5) higher than State of Arizona (46.1) number of cases per 100,000 population.

⁹ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

BREAST CANCER MORTALITY¹⁰

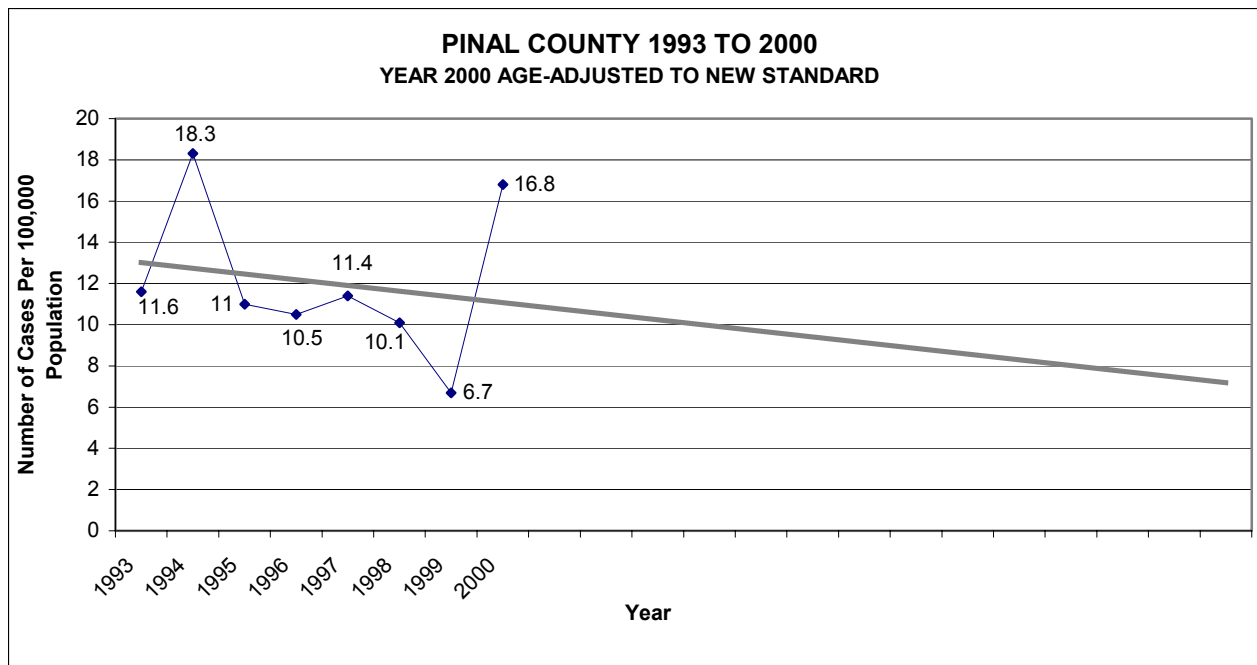


Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
21.6	21.4	17.2	17.2	19.3	18.2	17.1	25.4

Pinal County (40.7) higher than State of Arizona (25.4) number of cases per 100,000 population.

¹⁰ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

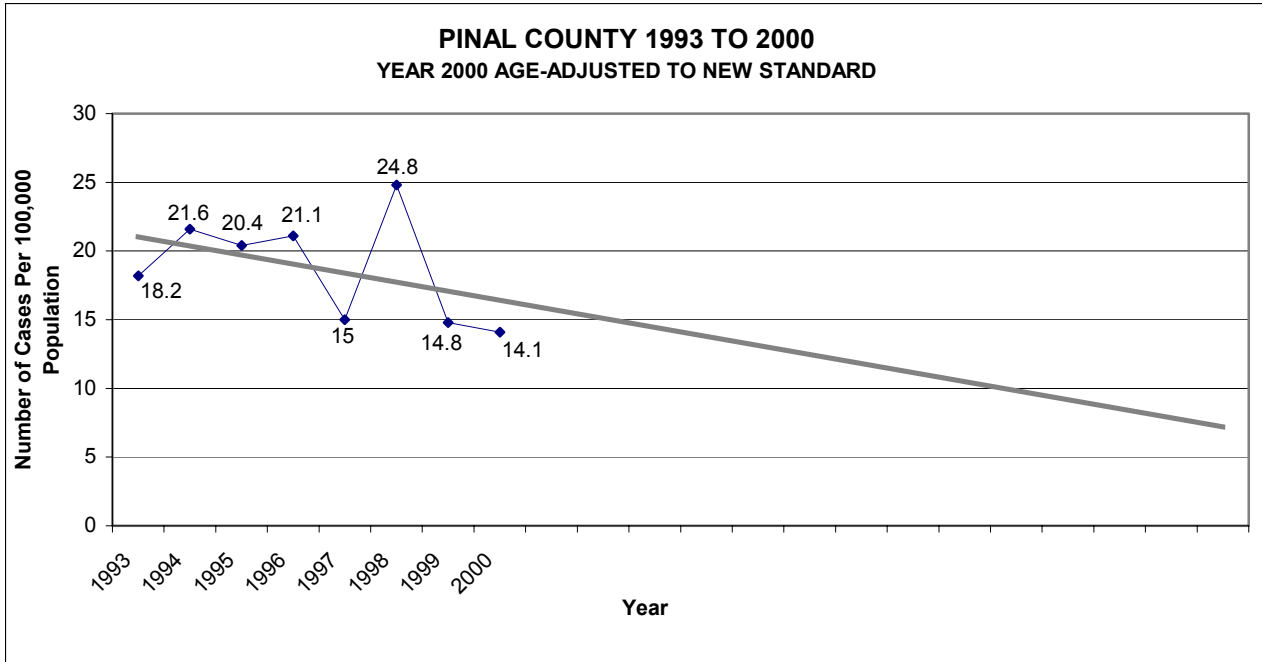
COLORECTAL CANCER MORTALITY¹¹



Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
13.2	12.9	11.5	11.7	10.7	11.1	10.0	17.0

¹¹ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

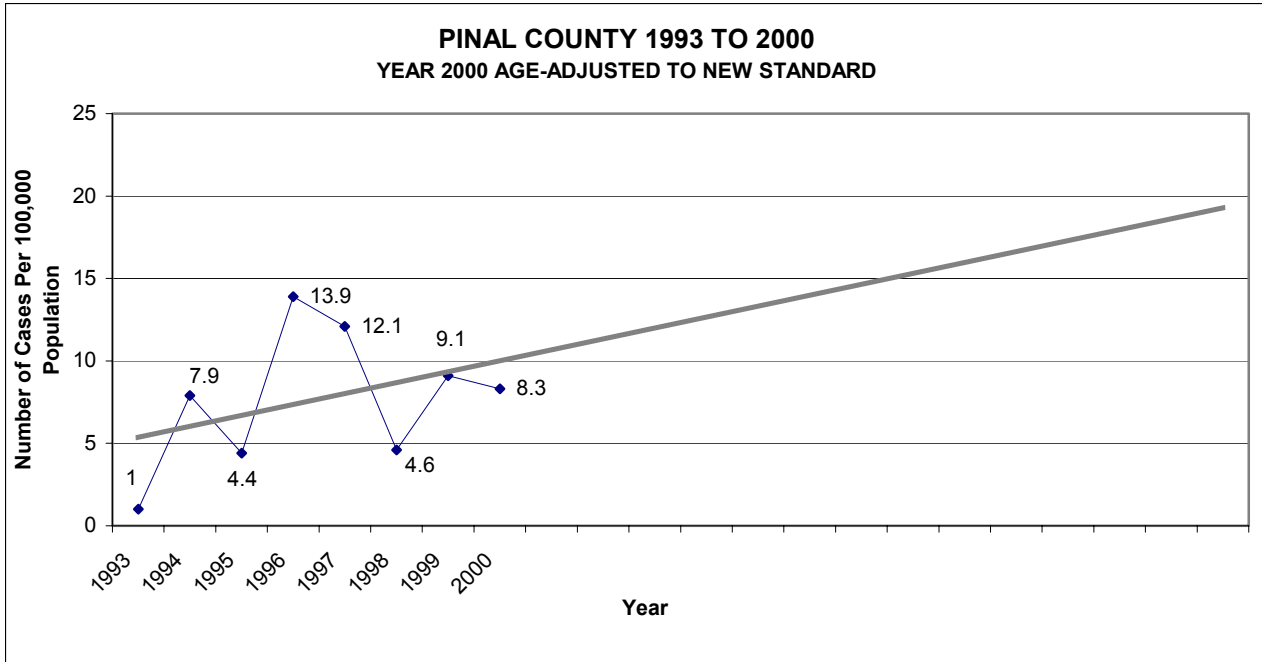
SUICIDE MORTALITY¹²



Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
18.5	20.0	19.5	16.3	16.9	17.0	14.6	14.6

¹² Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

TUBERCULOSIS MORBIDITY¹³

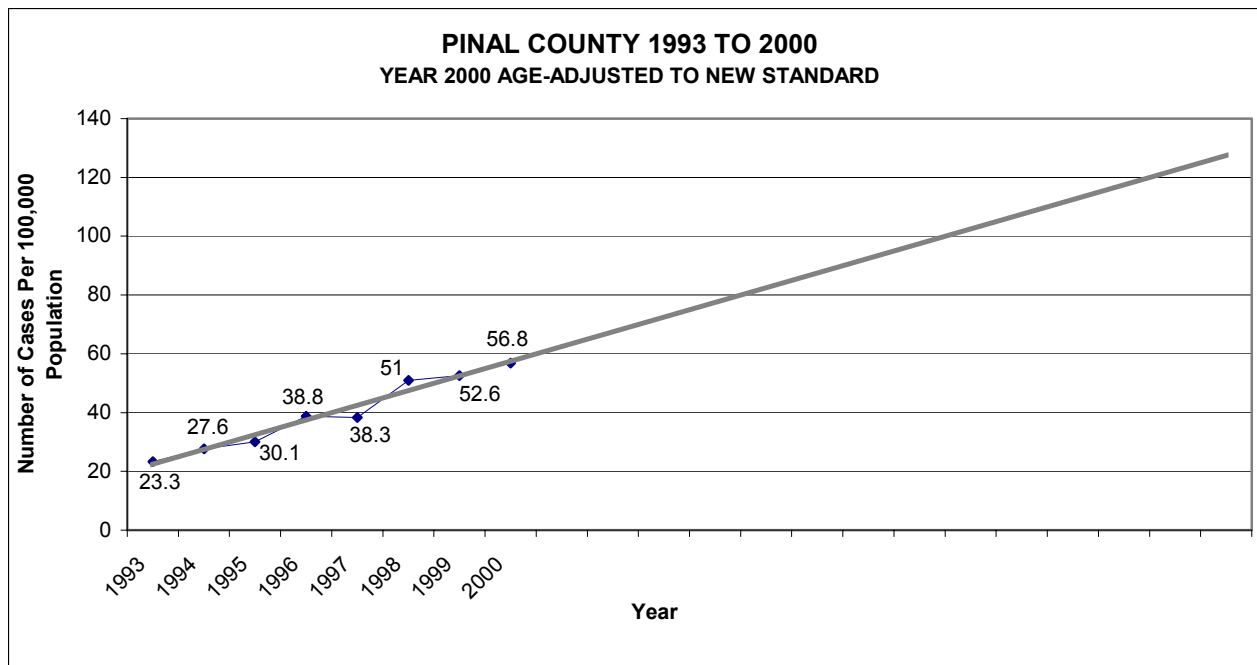


Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
5.8	6.2	7.6	6.3	6.4	5.4	5.3	5.1

Pinal County (8.3) higher than State of Arizona (5.1) number of cases per 100,000 population.

¹³ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

VALLEY FEVER MORBIDITY¹⁴

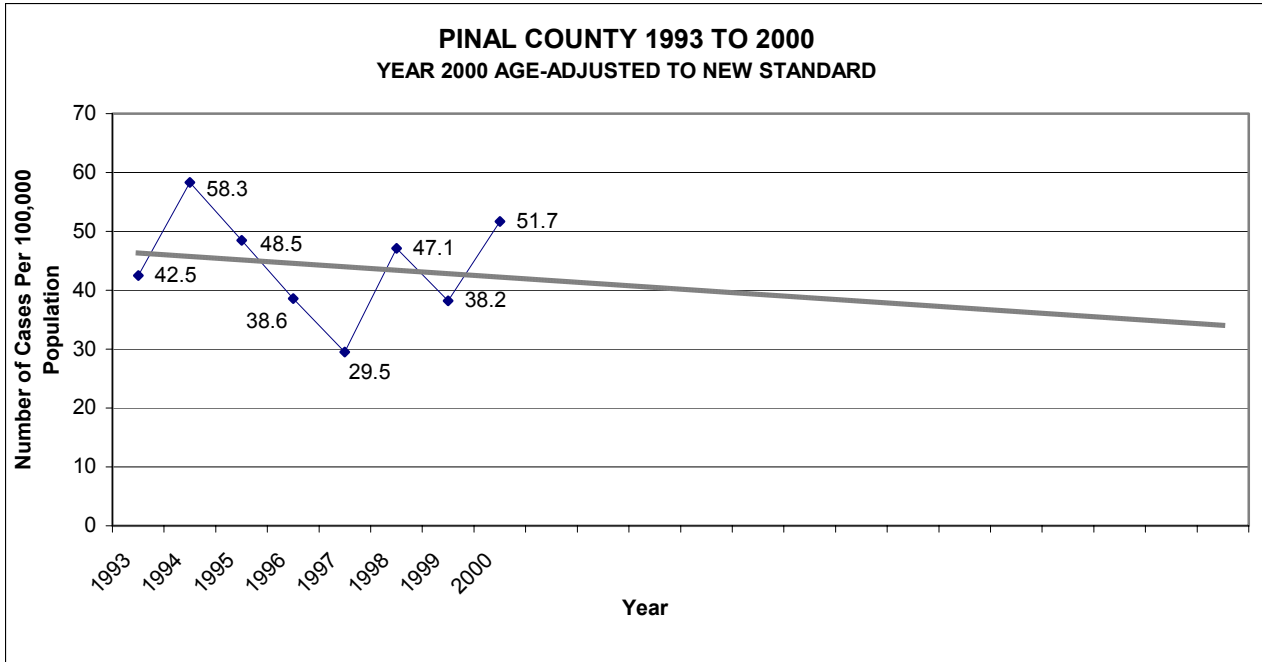


Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
N/D	14.3	14.8	14.7	20.8	30.4	36.8	37.4

Pinal County (56.8) higher than State of Arizona (37.4) number of cases per 100,000 population.

¹⁴ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

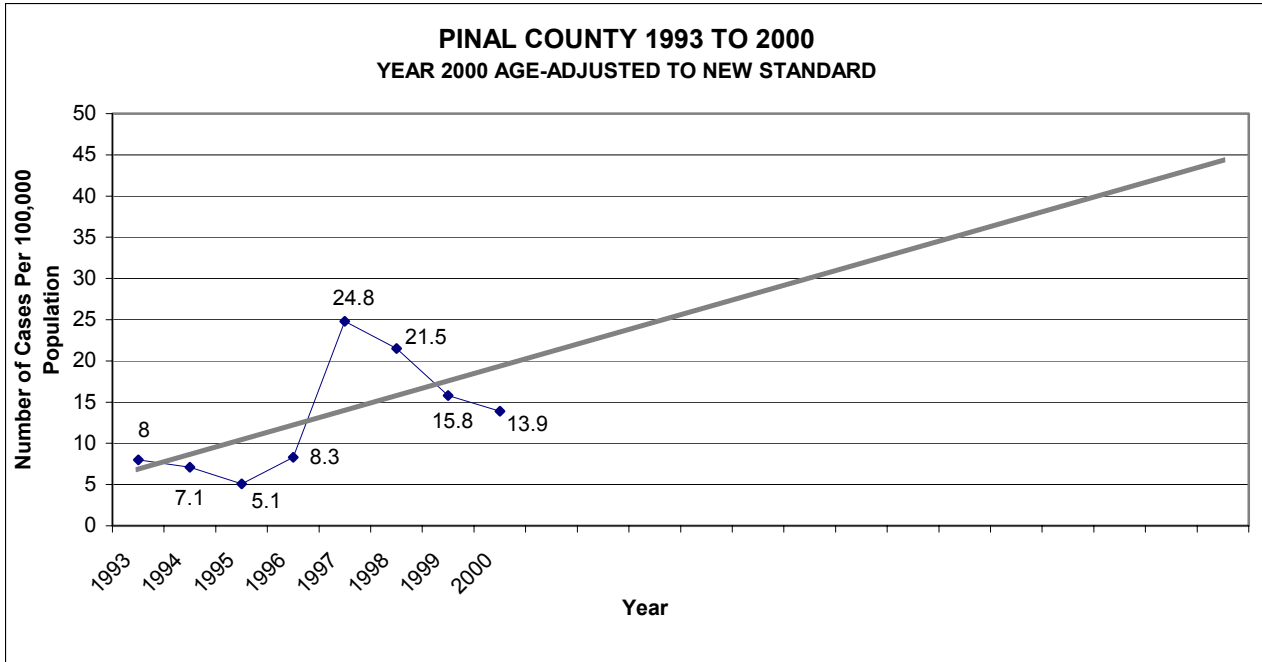
GONORRHEA MORBIDITY¹⁵



Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
105.8	89.3	48.5	83.0	82.6	88.3	86.8	80.0

¹⁵ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

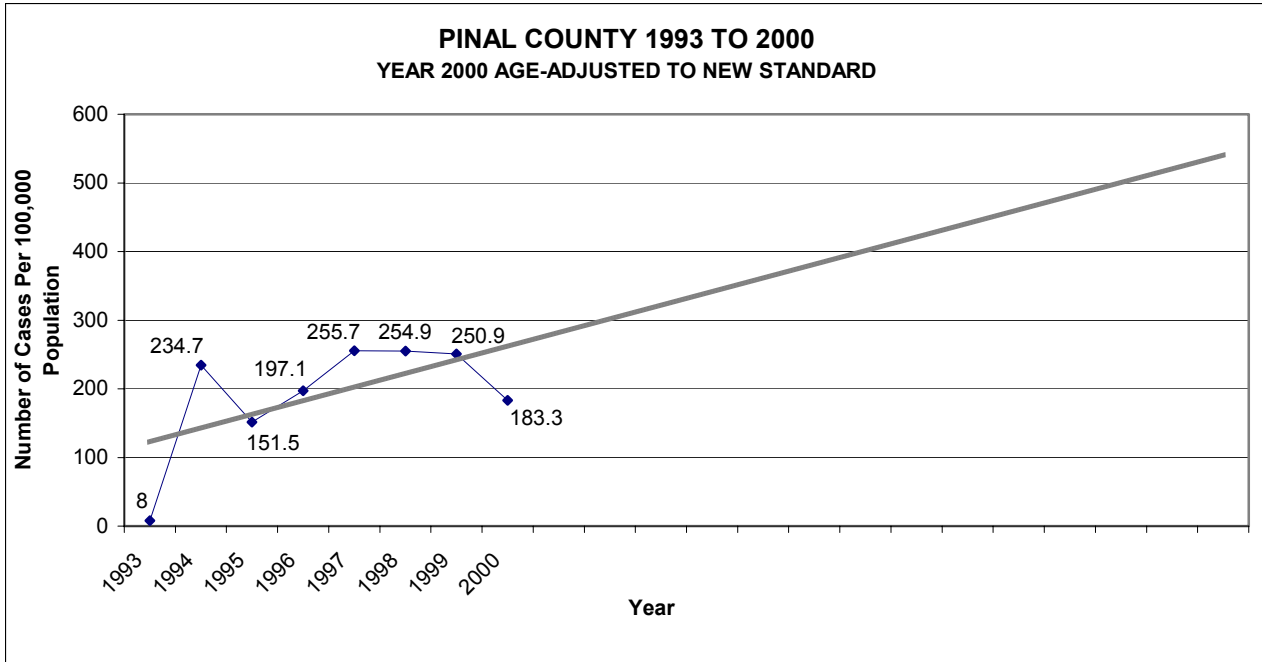
SYPHILLIS MORBIDITY¹⁶



Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
14.1	10.4	9.9	10.4	13.0	21.5	16.8	16.6

¹⁶ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

CHLAMYDIA MORBIDITY¹⁷

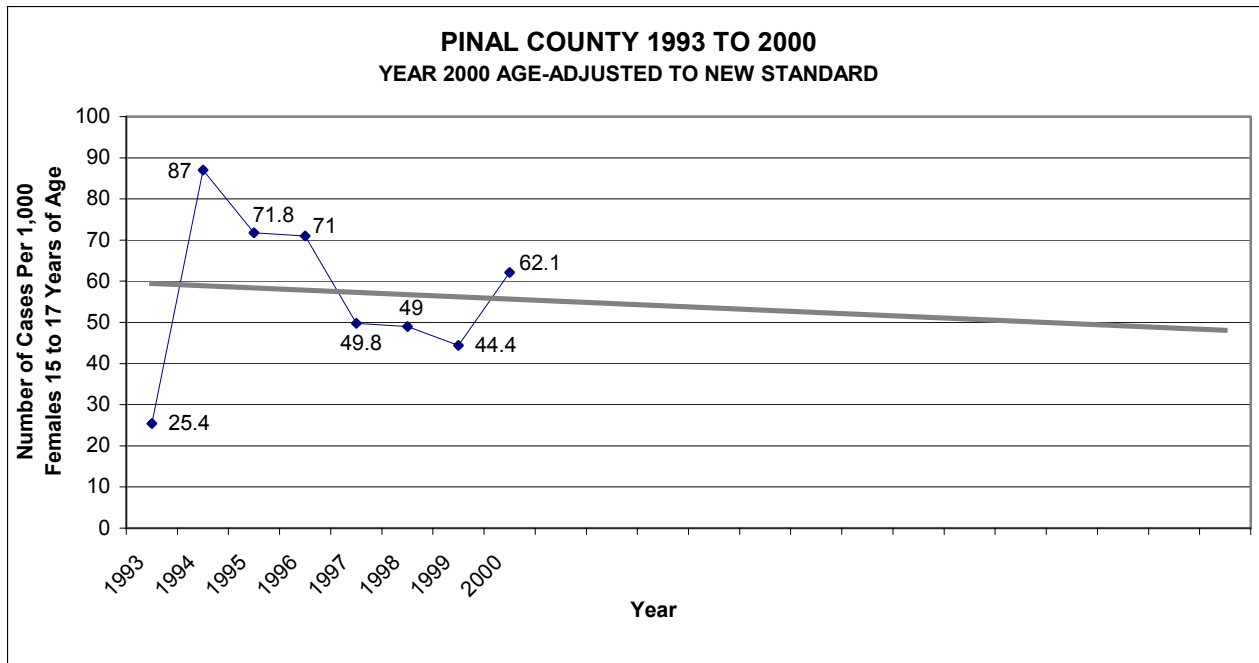


Arizona Number of Cases per 100,000 Population							
1993	1994	1995	1996	1997	1998	1999	2000
N/D	228.3	240.3	197.1	255.7	254.9	250.9	234.9

¹⁷ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

MATERNAL HEALTH

ADOLESCENT PREGNANCY¹⁹

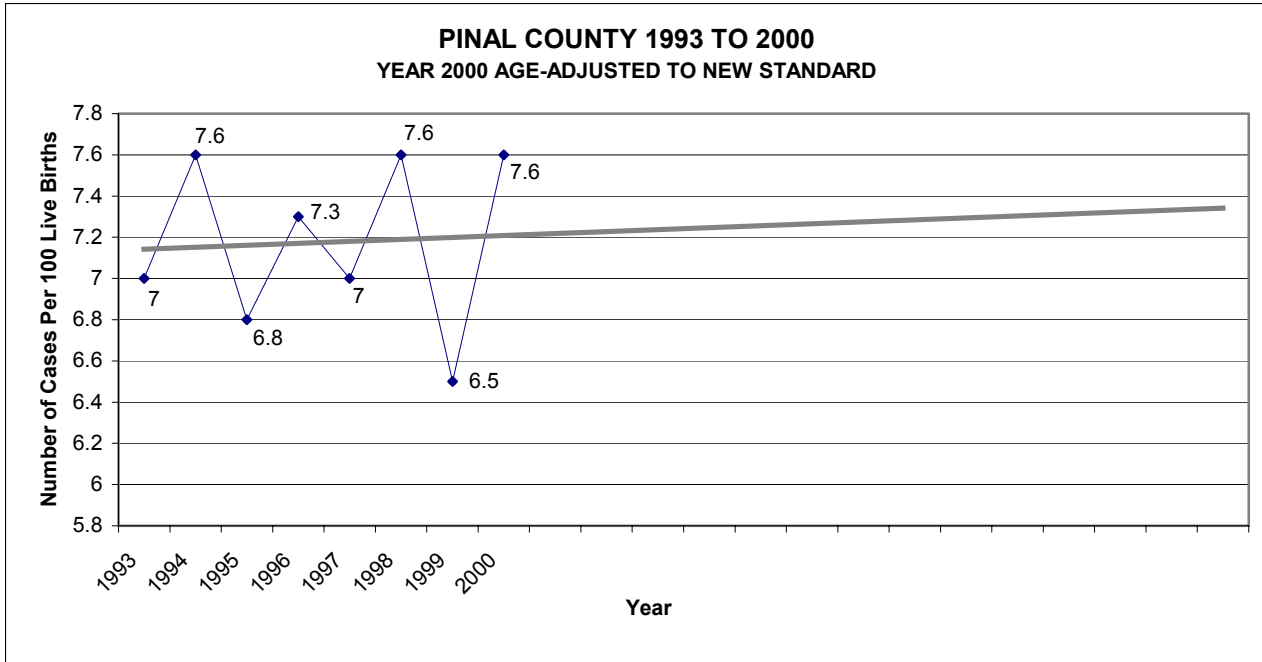


Arizona Number of Cases per 1,000 Females 15 to 17 Years of Age							
1993	1994	1995	1996	1997	1998	1999	2000
18.8	65.4	61.6	59.4	44.6	46.9	40.2	48.1

Pinal County (62.1) higher than State of Arizona (48.1) number of cases per 1,000 females 15 to 17 years of age.

¹⁹ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

LOW BIRTH WEIGHT BABIES²⁰

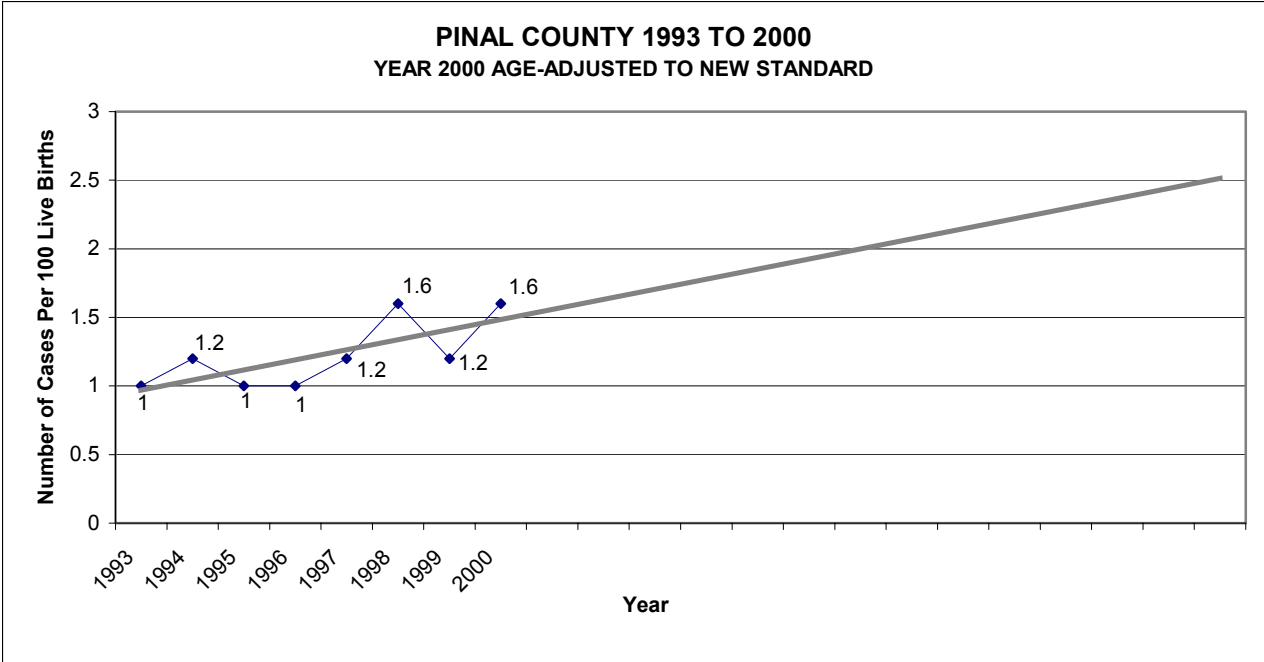


Arizona Number of Cases per 100 Live Births							
1993	1994	1995	1996	1997	1998	1999	2000
6.7	6.8	6.8	6.8	6.9	6.8	7.0	7.2

Pinal County (7.6) higher than State of Arizona (7.2) number of cases per 100 live births.

²⁰ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

VERY LOW BIRTH WEIGHT BABIES²¹

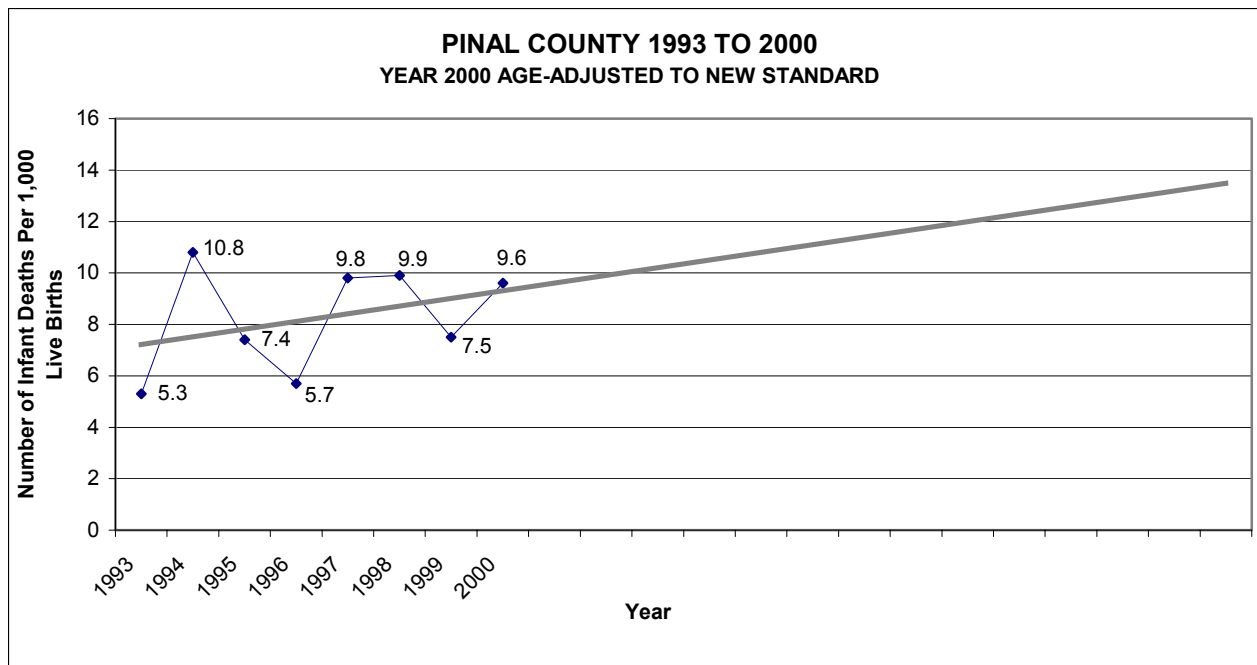


Arizona Number of Cases per 100 Live Births							
1993	1994	1995	1996	1997	1998	1999	2000
1.2	1	1.2	1.2	1.2	1.1	1.2	1.3

Pinal County (1.6) higher than State of Arizona (1.3) number of cases per 100 live births.

²¹ Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

INFANT MORTALITY²²



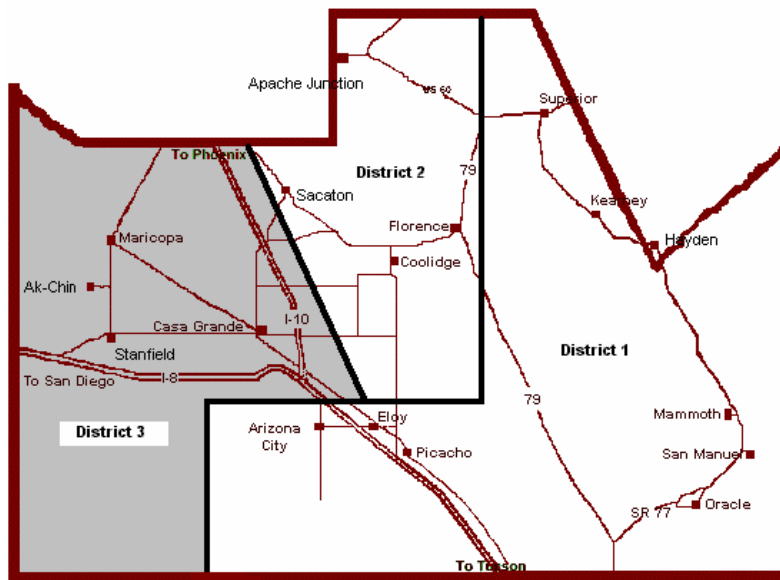
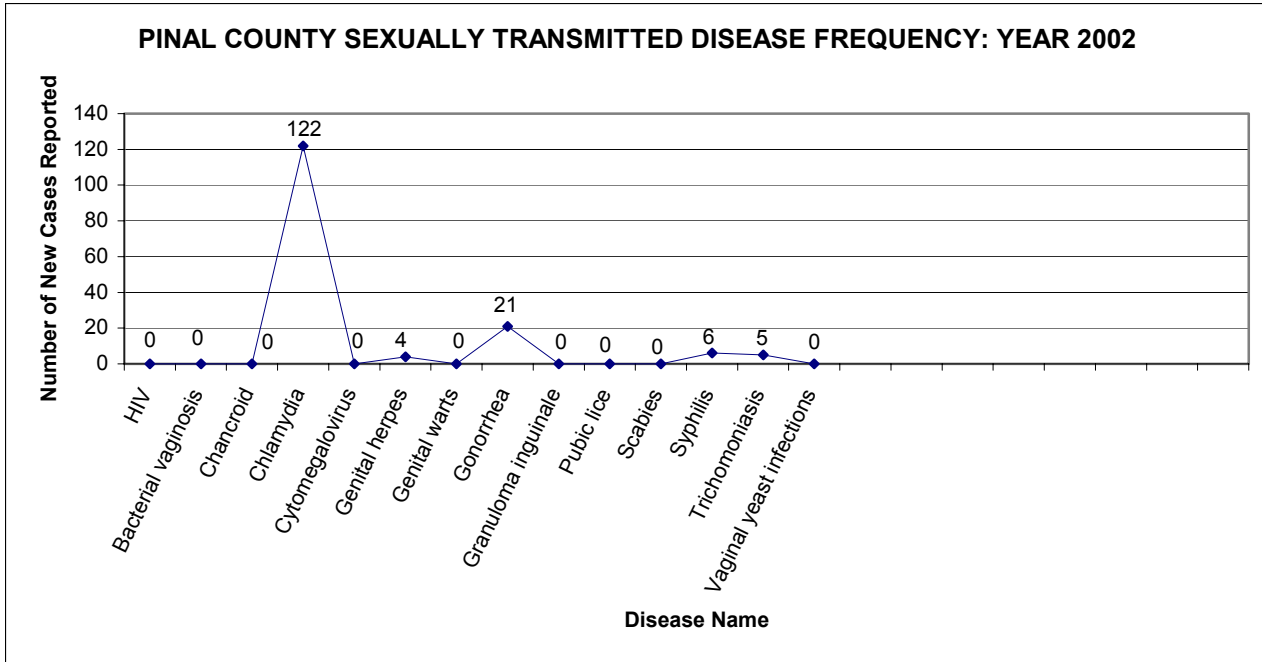
Arizona Number of Cases per 1,000 Live Births							
1993	1994	1995	1996	1997	1998	1999	2000
5.3	10.8	7.4	5.7	7.2	7.6	6.8	6.7

Pinal County (9.6) higher than State of Arizona (6.7) number of cases per 1,000 live births.

²² Source: Arizona Department of Health Services, *Arizona Health Status and Vital Statistics*, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1993 – 2000.

DISEASE FREQUENCY

SEXUALLY TRANSMITTED DISEASES²⁷



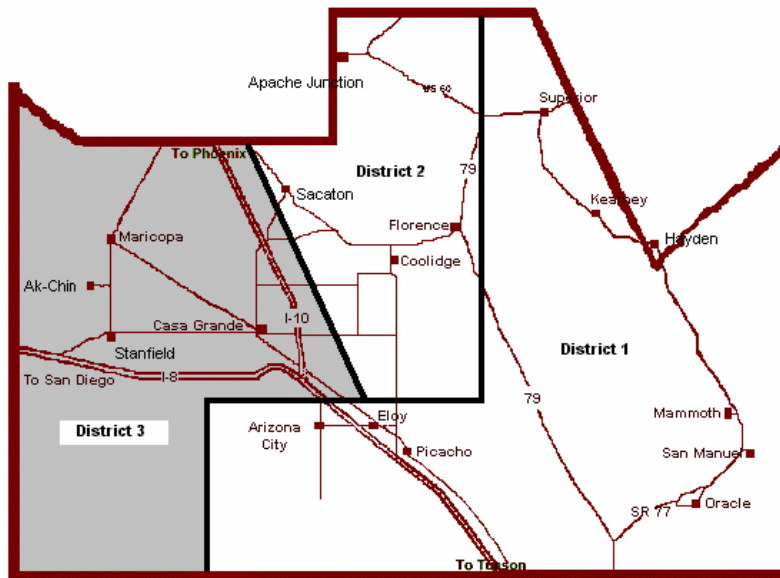
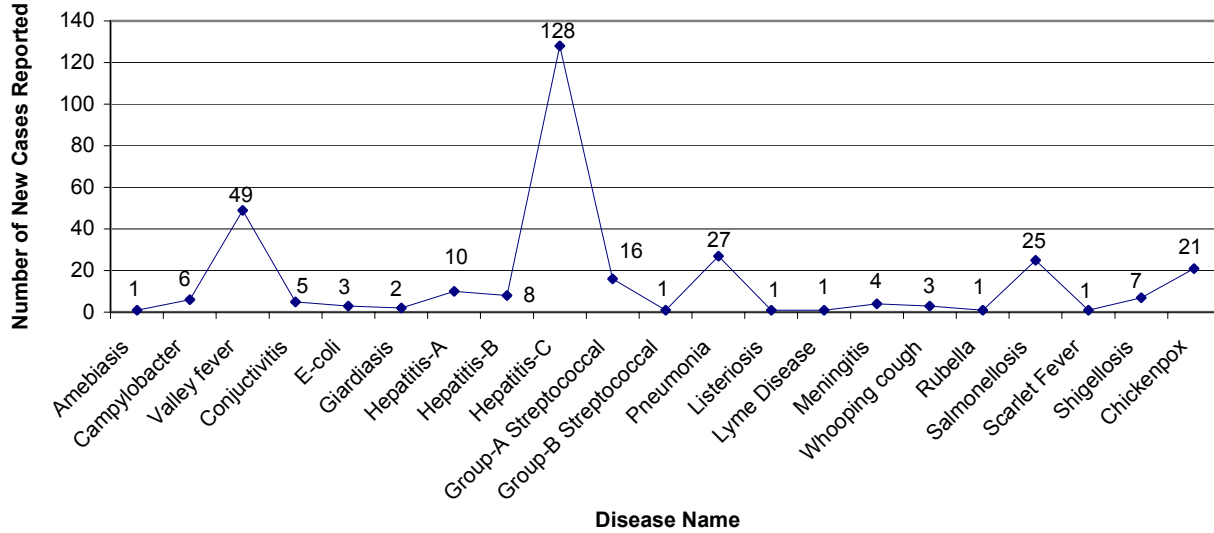
Chlamydia

Pinal County District 3 reported 54%(n=66) of new Chlamydia cases.

²⁷ Source: Pinal County Division of Public Health, *Sexually Transmitted Disease Report YTD August, 2002*.

COMMUNICABLE DISEASES²⁸

PINAL COUNTY COMMUNICABLE DISEASE FREQUENCY: YEAR 2002



Hepatitis-C

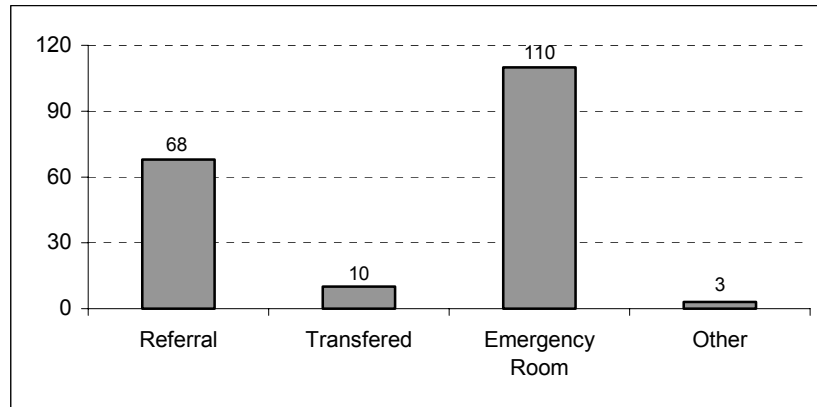
Pinal County District 3 reported 60% (n=77) of new Hepatitis-C cases.

²⁸ Source: Pinal County Division of Public Health, *Communicable Disease Report YTD August, 2002*.

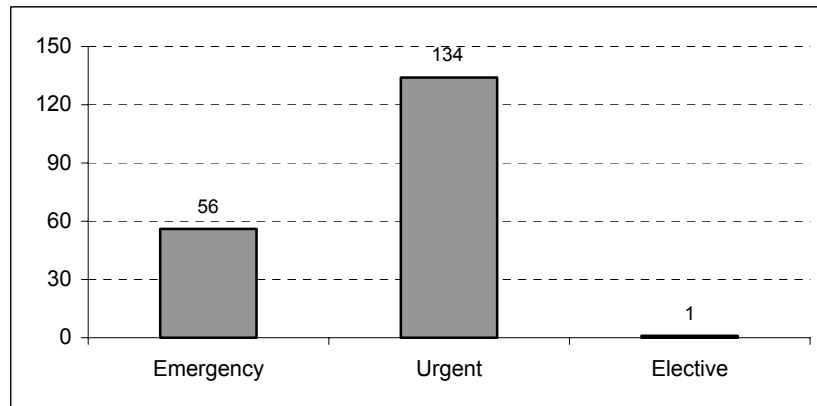
HEALTH ISSUES

ASTHMA²⁹

PINAL COUNTY 2000: BY SOURCE OF ADMISSION



PINAL COUNTY 2000: BY ADMISSION TYPE



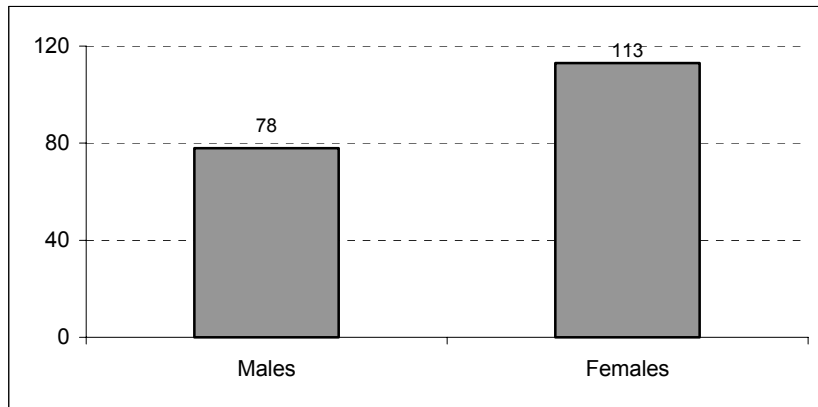
PINAL COUNTY 2000: BY HOSPITAL

Arizona Heart Hospital	1
Casa Grande Region Medical Hospital	55
Chandler Community	3
Cobre Valley Community	2
Columbia Northwest	4
Desert Samaritan	5
Maricopa Medical Center	3
Mesa General	2
Mesa Lutheran	3
St. Mary's Health Center	1
Tucson Heart Hospital	1
Tucson Medical Center	7
University Medical Center	2
Valley Lutheran	9
Unknown	93

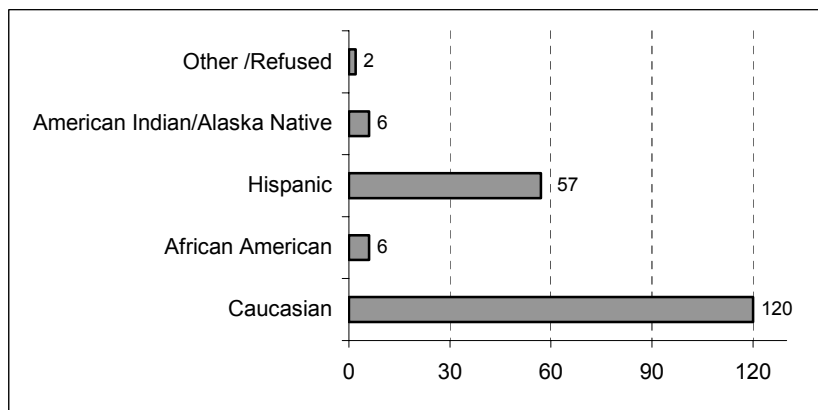
²⁹ Source: Arizona Department of Health Services, *Pinal County Asthma Report*, Office of Prevention and Health Promotion, 2000.

ASTHMA³⁰

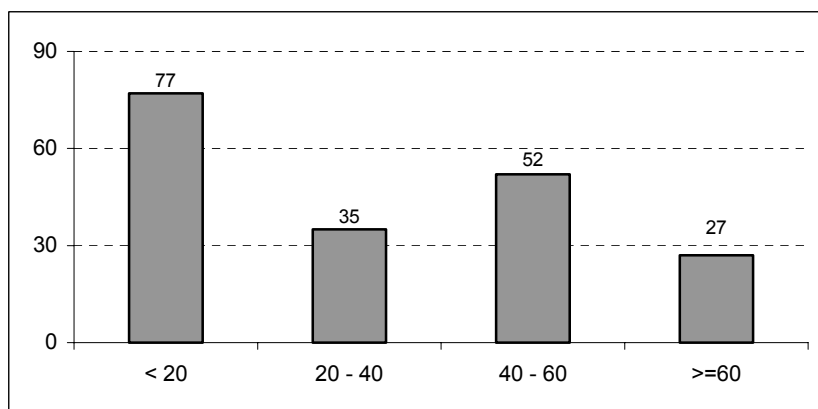
PINAL COUNTY 2000: BY GENDER



PINAL COUNTY 2000: BY RACE/ETHNICITY



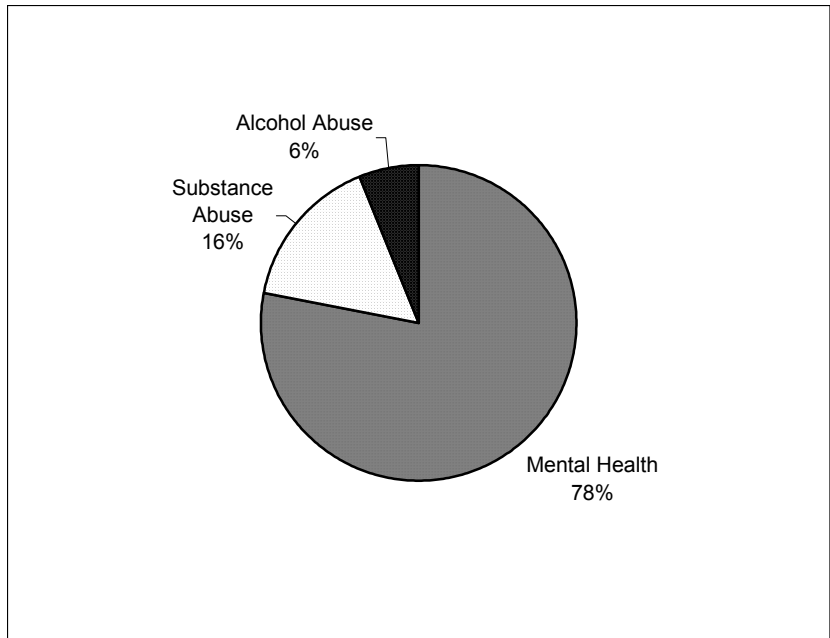
PINAL COUNTY 2000: BY AGE GROUP



³⁰ Source: Arizona Department of Health Services, *Pinal County Asthma Report*, Office of Prevention and Health Promotion, 2000.

BEHAVIORAL HEALTH³¹

PINAL COUNTY BEHAVIORAL HEALTH SERVICES BY TYPE: 2000



PINAL COUNTY BEHAVIORAL HEALTH SERVICES: NUMBER OF SERVICES PROVIDED DURING FISCAL YEAR 2001-2002³²

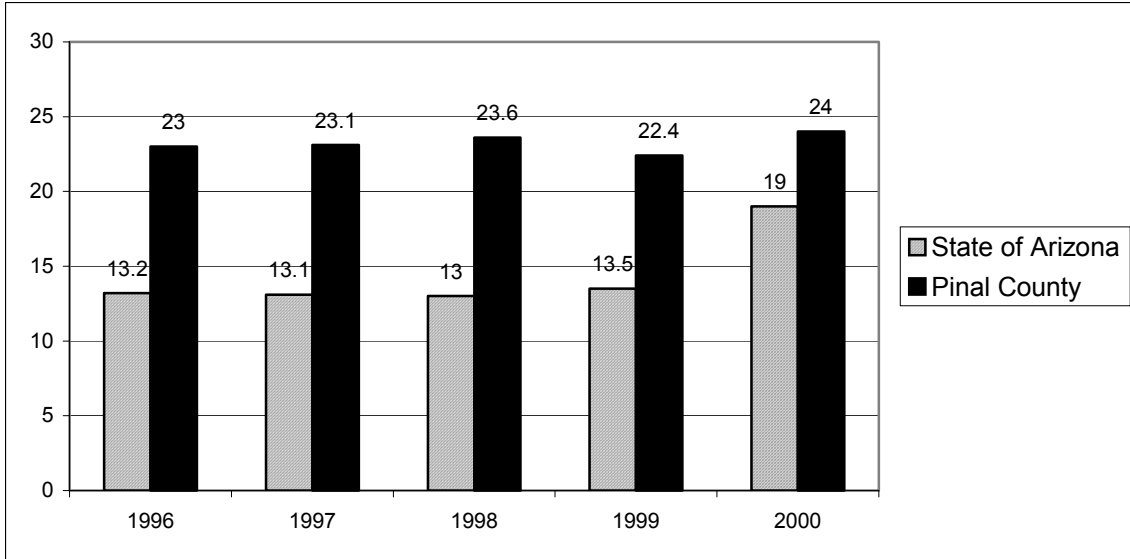
Region	Pinal County Population In 2000	Total Number of Population Covered by AHCCCS	AHCCCS Population Provided Behavioral Health Services	Non-AHCCCS Population	Non-AHCCCS Population Provided Behavioral Health Services	Total Pinal County Population Provided Behavioral Health Services
Pinal County	179,727	27,758	2,461	128,020	1,787	4,248

³¹ Source: Pinal/Gila Behavioral Health Association, *Active Client Analysis*, 2002.

³² Source: Pinal/Gila Behavioral Health Association, *AHCCCS Enrolled Served Report*, 2002.

DIABETES³²

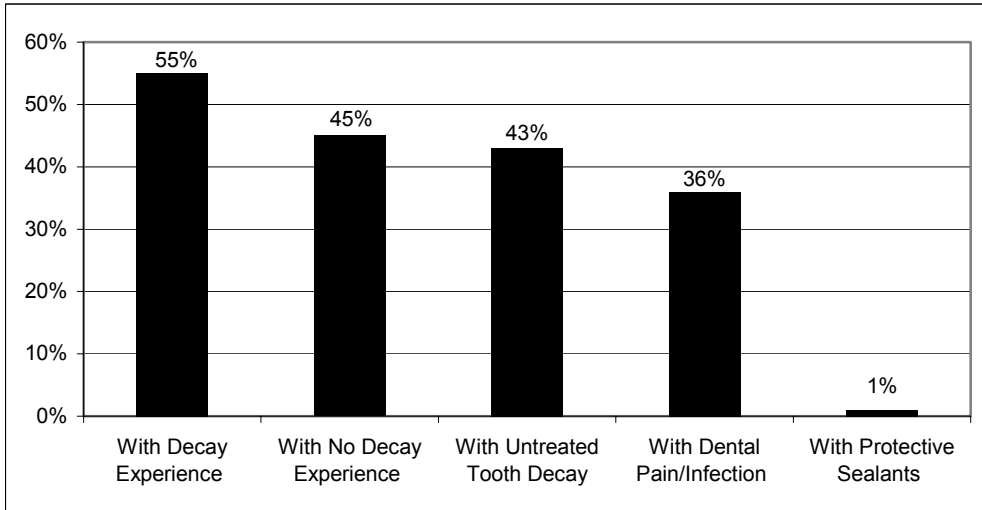
DIABETES MORTALITY RATES: PINAL COUNTY
PER 100,000 POPULATION



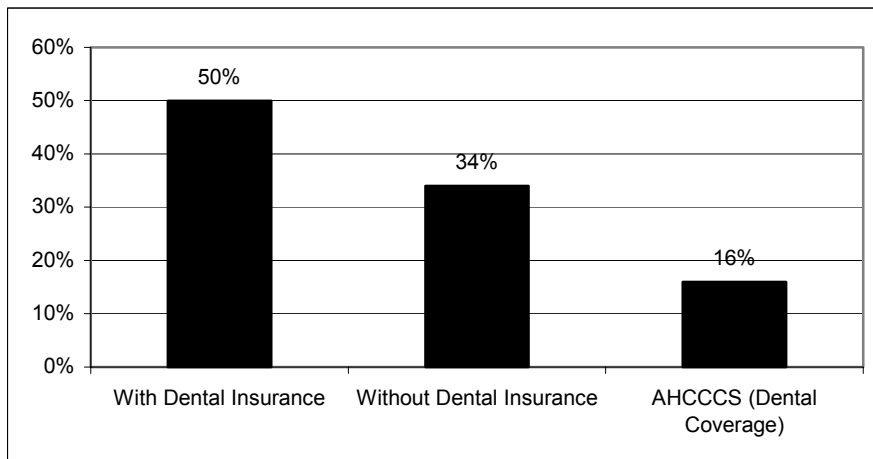
³² Source: Arizona Department of Health Services, Arizona Health Status and Vital Statistics, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1996 – 2000.

ORAL HEALTH³³

CHILDREN 6 – 8 YEARS OF AGE WITH DENTAL PROBLEMS: PINAL COUNTY
YEAR 2000



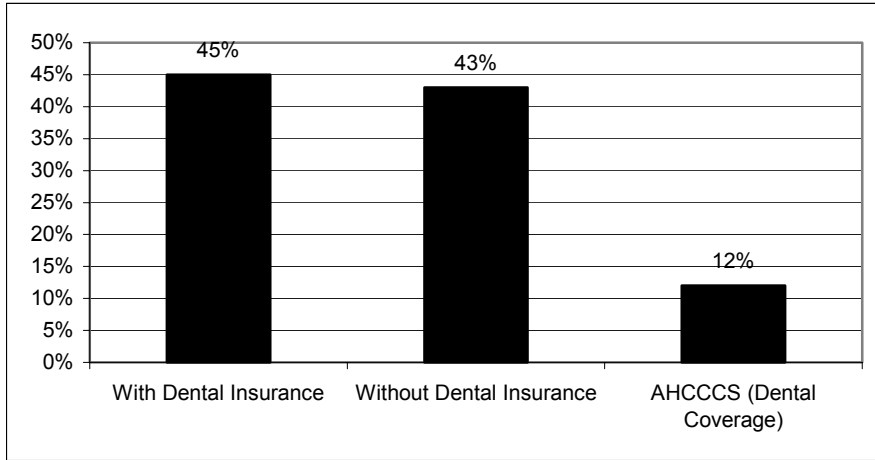
CHILDREN 2 – 17 YEARS OF AGE WITH DENTAL INSURANCE COVERAGE: PINAL COUNTY
YEAR 2000



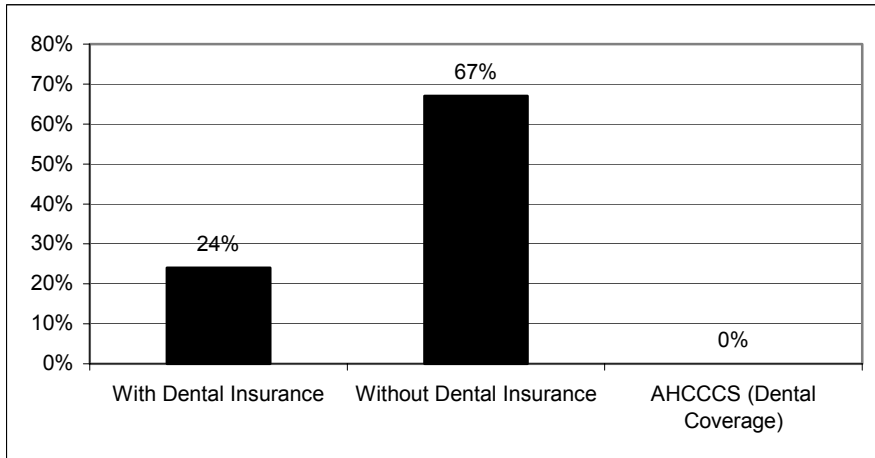
³³ Source: Arizona Department of Health Services, *Arizona Community Oral Health Profile*, Bureau of Community and Family Health, Office of Oral Health, 2000.

ORAL HEALTH³⁴

**ADULTS 18 – 60 YEARS OF AGE WITH DENTAL INSURANCE COVERAGE: PINAL COUNTY
YEAR 2000**



**ADULTS 60+ YEARS OF AGE WITH DENTAL INSURANCE COVERAGE: PINAL COUNTY
YEAR 2000**



³⁴ Source: Arizona Department of Health Services, *Arizona Community Oral Health Profile*, Bureau of Community and Family Health, Office of Oral Health, 2000.

PRIMARY CARE³⁵

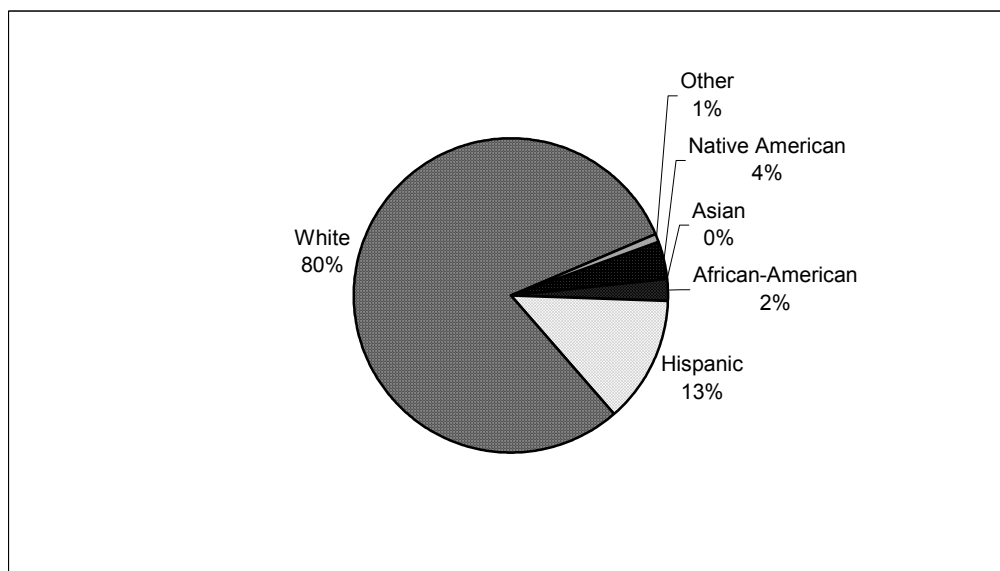
PINAL COUNTY 2002: HEALTH INSURANCE

	Pinal County	Arizona
Unemployed	5.1%	4.7%
“Uninsured” Births	4.6%	5.9%
AHCCCS Enrollees	15%	12.9%
Medicare Beneficiaries	12%	11.2%

PINAL COUNTY 2002: HEALTH CARE PROVIDERS

	Pinal County	Arizona
Primary Care Providers	130	6,911
Ratio – Population : Provider	1,437 : 1	770:1
Nurse Practitioners	29	1,800
Physician Assistants	31	867
Registered Nurses	379	16,578
Midwives	3	193
Dentists	43	2,485
Emergency Medical Technicians	359	9,696

PINAL COUNTY 2000: AMBULATORY CARE FOR SENSITIVE CONDITIONS BY RACE³⁶



³⁵ Source: Arizona Department of Health Services, *Pinal County Primary Care Area*, Office of Health Systems Development, 2002.

³⁶ Source: Arizona Department of Health Services, *Pinal County Ambulatory Care by Race*, Office of Health Systems Development, 2000.

HEALTH COMPARISON

HEALTHY PEOPLE 2010

Subject	Healthy People 2010 Target Objective³⁷	Pinal County Rate for 2001³⁸	Pinal County 5-Year Median 1996 - 2000⁴⁰
Cardiovascular Disease Mortality per 100,000 Population	166	236.9	174.1
Cerebrovascular Disease Mortality per 100,000 Population	48	38.3	27
Cancer Mortality per 100,000 Population	159.9	161.2	120.8
Lung Cancer Mortality per 100,000 Population	44.9	38.3	36.4
Breast Cancer Mortality per 100,000 Population	23.3	21	20.5
Colorectal Cancer Mortality per 100,000 Population	13.9	16.1	10.5
Diabetes Mortality per 100,000 Population	45	56	23.1
Asthma Mortality per 100,000 Population	*	54.4	50.1
Gonorrhea Morbidity – Number of Cases per 100,000 Population	19	36.1	38.6
Syphilis Morbidity – Number of Cases per 100,000 Population	0.2	30	15.8
Chlamydia Morbidity – Number of Cases per 100,000 Population	3.0	205.6	250.9
Tuberculosis Morbidity – Number of Cases per 100,000 Population	1.0	5.8	8.3
Adolescent Pregnancy – Number of Cases per 1,000 Females 15 to 17 Years of Age	43	53.1	49.8
Low Birth Weight Babies – Number of Cases per 100 Live Births	5.0	7.2	7.3
Very Low Birth Weight Babies – Number of Cases per 100 Live Births	0.9	1.1	1.2
Infant Mortality – Number of Infant Deaths per 1,000 Live Births	4.5	8.2	9.6

* Healthy People 2010 Target Objective for Asthma mortality is based on a per million rate and varies by age group.

³⁷ Source: U.S. Department of Health and Human Services, Healthy People 2010, Washington D.C.:U.S. Government Printing Office, 2000.

³⁸ Source: Arizona Department of Health Services, Arizona Health Status and Vital Statistics, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 2001.

⁴⁰ Source: Arizona Department of Health Services, Arizona Health Status and Vital Statistics, Public Health Services, Bureau of Public Health Statistics, Office of Epidemiology, 1997 – 2001.