



OKLAHOMA STATE DEPARTMENT OF HEALTH

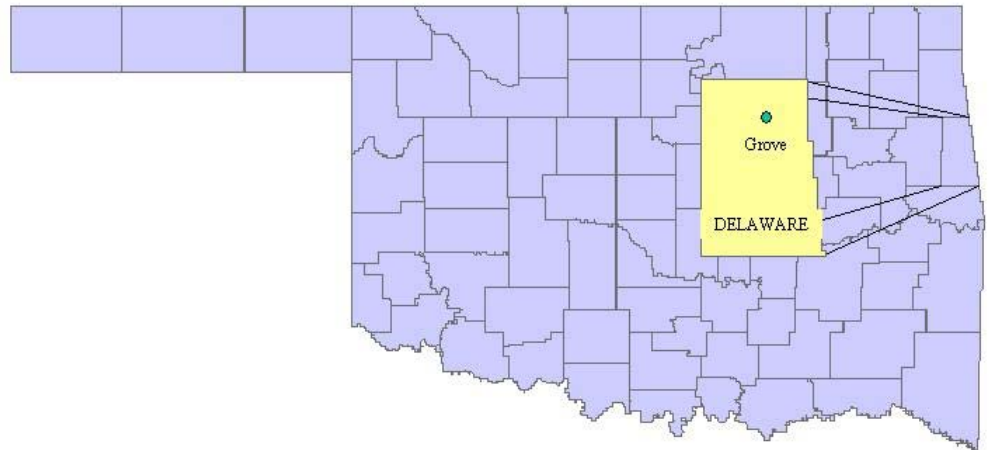
State of the County's Health Report

A Look Back To Move Forward

Delaware County

The state of Oklahoma has been in a downward health trend since the 1990's, until recently. Through the efforts of the state and county health departments, state and local governments and the individual communities the health of Oklahomans is looking up. However, we could do more to improve the health of the citizens of Oklahoma.

This report focuses on the health factors for the citizens of Delaware County. We will take a look back to discover what has been affecting the health of the citizens in order to move forward and make healthy, effective and safe changes for all.



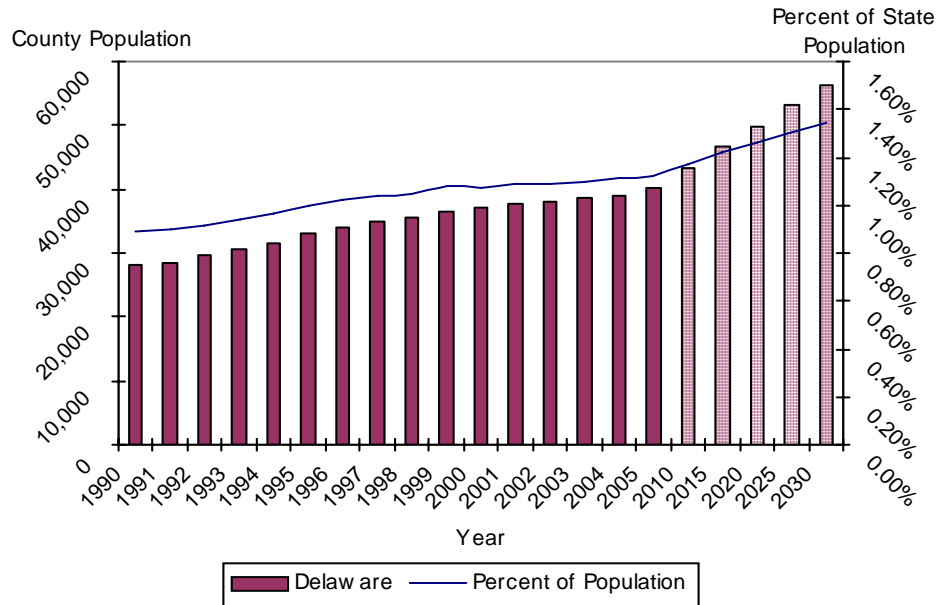
Inside this issue:

County Demographics	2	Physical Activity, Wellness & Diabetes	4
Top 10 Leading Causes of Death	2	Teen Pregnancy	5
Nutrition & Obesity	2	Poverty	5
Top 10 Leading Causes of Death Table	3	County Health Department Usage	6
Injury & Violence	4	Health Care Costs Summary	6
Tobacco use	4	Turning Point	7

Demographics

- Population estimates
 - 32% increase from 1990 to 2000 (28,070 to 37,077)
 - 5% increase from 2000 to 2004
 - Ranked 7th for growth in state
- 2000 Census
- Hispanic/Latino ethnicity = 2%
- Race
 - Whites = 70%
 - Native Americans = «Indian %»
 - Blacks = 0%
 - Other/Multiple = 7%
- Age
 - Under 5 = 6%
 - Over 64 = 18%
 - Median age = 40.8 years
- Housing units
 - Occupied = 14,838 (67%)
 - Vacant = 7,452 (33%)
- Disability (ages 21 to 64) = 28.0% national = 19.2% state = 21.5%
- Individuals below poverty = 18.3% national = 12.4% state = 14.7%

Delaware County Population Growth with Projections



* *Vital Statistics, Health Care Information Systems, OSDH & Centers for Disease Control*

Top 10 Leading Causes of Death

The top 10 leading causes of death table on the next page displays a broad picture of the causes of death in Delaware County. Since many health-related issues are unique to specific ages, this table provides causes of death by age group at a glance. The causes of death that are present across almost every age group have been highlighted. From 1983 to 1993 heart disease killed 1,494 people in Delaware County

and is still the leading cause of death among all age groups. According to the Centers for Disease Control, almost \$400,000 is spent on each heart disease-related death. With an average of 161.9 deaths a year, heart disease accounts for almost \$60 million a year in

Heart disease accounts for almost \$60 million a year in medical costs in Delaware County.

in Delaware County.

Alzheimer's disease and the complications associated with it have increased from the 11th ranked cause of death (1983-1993) to the 7th ranked cause of death in persons 65 and older accounting for a 469% increase in deaths.

* *Behavioral Risk Factor Surveillance System, Health Care Information System, OSDH & Health Affairs Journal, R. Strum, 2002*

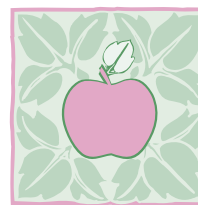
Nutrition and Obesity

With the United States coming in as the most obese country in the world, health care costs related to obesity and poor nutrition are on the rise.

Of the 292 million people in the United States, 129 million are overweight or obese according to their body mass index (BMI). The number of obese (BMI > 29) and overweight (BMI 25-29) Oklahomans has been increasing at the

same rate as the nation, and health care costs are reflecting this downward spiral of health. For persons under the age of 65, on average, health care costs are \$395 more for obese individuals and are even greater for persons over the age of 65.

In 2002-2004, 25.6%



**Sensible Foods – Sensible Portions
5 to 9 Fruits & Vegetables a Day**

(9,910) of people in Delaware County were considered obese which accounted for an additional \$3,914,450 in medical costs for the county. These costs are underestimated because they do not take into account the percentage of obese or overweight persons who are over the age of 65.

Top 10 Causes of Death by Age Group Delaware County 1993-2003

RANK	0-4	05-14	15-24	25-34	35-44	45-54	55-64	65+	All Ages
1	PERINATAL PERIOD 11	CONGENITAL ANOMALIES 2	UNINTENT. INJURY 33	UNINTENT. INJURY 24	UNINTENT. INJURY 35	CANCER 72	CANCER 207	HEART DISEASE 1500	HEART DISEASE 1782
2	CONGENITAL ANOMALIES 5	UNINTENT. INJURY 2	SUICIDE 8	CANCER 10	HEART DISEASE 32	HEART DISEASE 58	HEART DISEASE 181	CANCER 740	CANCER 1054
3	UNINTENT. INJURY 3	HEART DISEASE 1	HEART DISEASE 3	HEART DISEASE 6	CANCER 23	DIA BETES MELLITUS 17	BRONCHITIS/ EMPHYSEMA/ ASTHMA 27	BRONCHITIS/ EMPHYSEMA / ASTHMA 261	BRONCHITIS/ EMPHYSEMA/ ASTHMA 295
4	SIDS 2	INFLUENZA / PNEUMONIA 1	CANCER 2	SUICIDE 4	DIA BETES MELLITUS 10	UNINTENT. INJURY 16	DIA BETES MELLITUS 22	STROKE 256	STROKE 286
5	INFLUENZA / PNEUMONIA 1	OTHER 1	OTHER 3	HOMICIDE/ LEGAL 3	SUICIDE 6	LIVER DISEASE 14	UNINTENT. INJURY 21	INFLUENZA/ PNEUMONIA 104	UNINTENT. INJURY 196
6	MENINGOCOCC. INFECTION 1			NON-CANCEROUS TUMOR 2	LIVER DISEASE 5	SUICIDE 9	STROKE 18	DIA BETES MELLITUS 90	DIA BETES MELLITUS 140
7	OTHER INTESTINAL INFECTION 1			HIV 2	HIV 4	STROKE 7	KIDNEY DISEASE 7	ALZHEIMER'S DISEASE 74	INFLUENZA/ PNEUMONIA 117
8	SEPTICEMIA (BLOOD POISONING) 1			FOUR CAUSES TIED 1	STROKE 4	BRONCHITIS/ EMPHYSEMA / ASTHMA 6	A THERO- SCLEROSIS 6	UNINTENT. INJURY 62	ALZHEIMER'S DISEASE 79
9	OTHER 10			HOMICIDE/ LEGAL 3	HOMICIDE/ LEGAL 3	INFLUENZA / PNEUMONIA 6	LIVER DISEASE 6	A THERO- SCLEROSIS 53	A THERO- SCLEROSIS 61
10				CONGENITAL ANOMALIES 2	CONGENITAL ANOMALIES 2	HOMICIDE/ LEGAL 5	ALZHEIMER'S DISEASE 5	KIDNEY DISEASE 38	KIDNEY DISEASE 51

Data source: *Vital Statistics*, Health Care Information Division, Oklahoma State Department of Health
 Produced by: Injury Prevention Service, Oklahoma State Department of Health

Injury and Violence

Across the nation and the state of Oklahoma, unintentional and violence-related injuries are on the rise. Unintentional injuries account for the 4th leading cause of death in the United States and the 5th leading cause of death in Oklahoma from 1999-2002. For persons ages 1 to 44 in Oklahoma, unintentional injuries are the leading cause of death.

This trend does not change much in Delaware County. Unintentional injuries are the leading cause of death from ages 15 to 44.

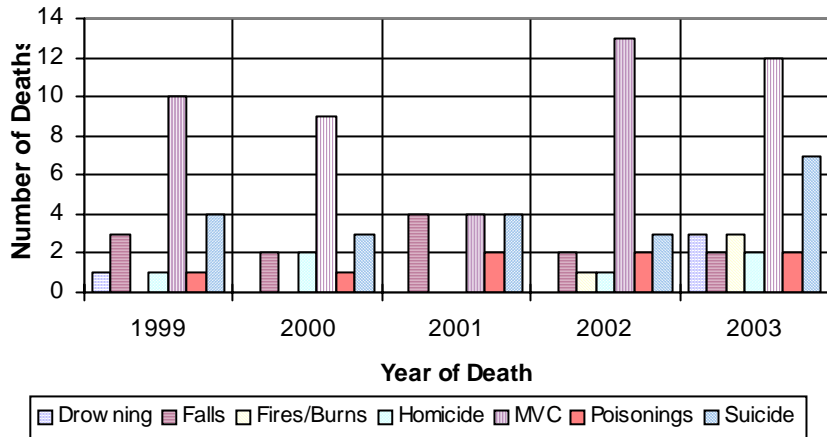
It is estimated that for every motor vehicle-related death \$1.1 million in economic costs are incurred. For Delaware County which has an average of 9.6 motor vehicle-related deaths a year,

that translates to almost \$11 million a year.

Violence-related injuries (homicide

and suicide) in Delaware County are ranked in the top 10 in four of the eight age groups (see Top 10 list on page 3).

Injury and Violence-Related Deaths in Delaware County, 1999-2003



* *Vital Statistics*, Health Care Information Systems, OSDH & Centers for Disease Control

Tobacco Use

According to the 2005 State of the State's Health Report, tobacco use among Oklahomans has remained fairly stable from 1990 to 2002. Oklahoma has been consistently higher in its tobacco use than the nation and is 30% higher than the nation on the amount of tobacco consumed per capita (103 packs vs. 79 packs).

Tobacco use is no longer just the

problem of the individual but also the community as a whole. With health care costs on the rise, targeting areas such as tobacco use is an effective way to control those costs.

In 2002, the CDC estimated that a person that used tobacco accrued over \$3,300 in health care costs per year. According to the Be-

havioral Risk Factor Surveillance System, it is estimated that 29.5% (11,419) of people in Delaware County use tobacco of some sort. Medical costs accumulated by those persons are almost \$4 million a year for Delaware County.

“Medical costs accumulated by those persons are almost \$4 million a year for Delaware County”

* *Behavioral Risk Factor Surveillance System*, Health Care Information System, OSDH & American Diabetes Association, 2002

Physical Activity, Wellness and Diabetes

The increasing inactivity of the U.S. population is contributing to an increase in numerous poor health-related outcomes. Physical inactivity robs the body of precious energy needed to function properly, in turn health declines and rates of various chronic diseases escalate.

According to the 2002-2004 Behavioral Risk Factor Surveillance System (BRFSS), it is estimated that 41.5%

(16,064) of people in Delaware County had no leisure activity in the past month at the time they were surveyed.

The BRFSS also indicated that 10.7% (4,142) of Delaware County citizens have been diagnosed by a health professional as having dia-



Increase activity gradually. Moderate exercise for 30 minutes 5 days a week.

betes. In 2002, the per capita annual healthcare costs for people with diabetes was \$13,243 compared to \$2,560 for people without diabetes. Persons with diabetes accumulated health care costs of \$54,852,506.00 in one year for Delaware County.

Teen Pregnancy

While births to teen mothers (age 15 to 19) are on the decline in both the U.S. and Oklahoma, Oklahoma has moved up in rank from 13th to 8th in the country. In 1993 the rate of teen births

was 60.0 (per 1,000 15-19 year old females) in the U.S. and 66.6 in Oklahoma. In 2003, the rate decreased to 41.7 in the U.S. and 55.8 in Oklahoma, a decrease of

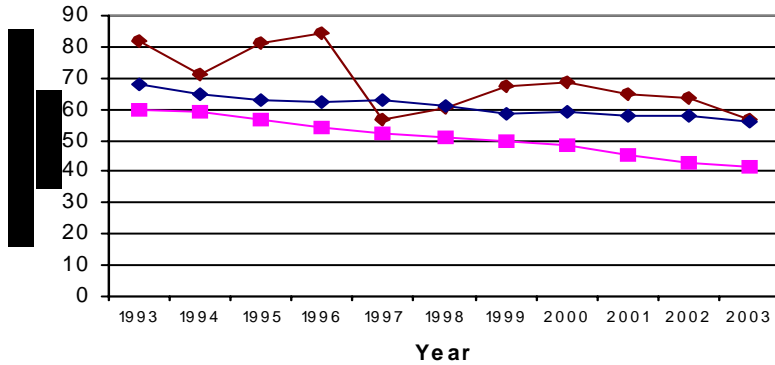
31% and 7%, respectively.

Children of teen mothers are more likely to display poor health and social outcomes than those of older mothers, such as premature birth, low birth weight, higher rates of abuse and neglect, and more likely to go to foster care or do poorly in school. Additionally, births to teen mothers accumulate \$3,200 a year for each teenage birth, which is passed on to citizens.

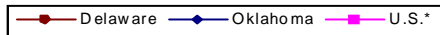
According to Oklahoma Vital Statistics, Delaware County had a teen birth rate of 56.6 in 2003 which was a 11% decrease from 2002 (63.6) and a 31% decrease since 1993 (81.8).

With an average of 79 births per year, teen pregnancy costs the citizens of Delaware County \$252,800.00 a year.

Rate of Live Births to Teen Mothers, Ages 15-19, 1993 to 2003



*2003 U.S. data is preliminary



Note: 16 births to a mother 10-14 years of age occurred during the 11 year period.

Poverty

* U.S. Census Bureau

As the nation advances in technology and the ability to detect and prevent disease at an earlier stage, persons that are impoverished carry a large burden of poor health outcomes. Higher incidences of unplanned or unwanted pregnancies, teen pregnancy, inadequate prenatal care, higher rates of low-birth-weight babies, infant deaths and low immunization rates are all associated with poverty along with a myriad of other adverse health outcomes.

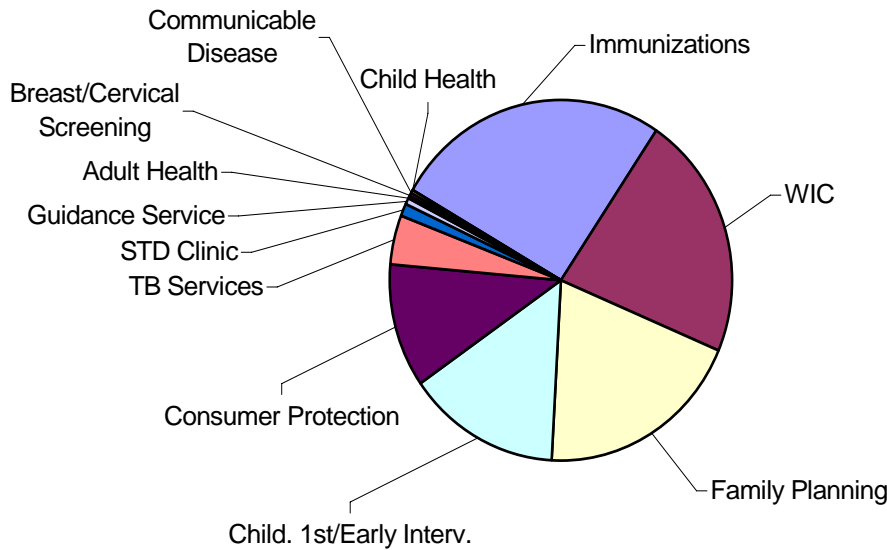
According to the 2000 census, 18.3% of persons in Delaware County for whom poverty status was known had an income below what was needed to live at the federal poverty level. Delaware County is 24% above the state (14.7%) and 47% above the nation (12.4%) for persons with incomes below the federal poverty level.

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Income to Poverty Ratio, Delaware County, 2000 Census

Poverty level	Total	50% below	51% to 99% below	poverty level to 149% above	150% to 199% above	200% and above
Population	36,625	2,279	4,411	5,046	4,808	20,081
Cumulative Population		2,279	6,690	11,736	16,544	36,625
% of Total	100.0%	6.2%	12.0%	13.8%	13.1%	54.8%
Cumulative %		6.2%	18.3%	32.0%	45.2%	100.0%

Attended Appointments for Delaware County Health Department, State Fiscal Year 04



Health Care Costs Summary

Cardiovascular Disease (Heart Disease)

- Average 162 deaths a year
- \$369,476.69 per death
- Total— \$59,855,223.78 a year

Obesity

- 25.6% of population (9,910)
- \$395.00 in additional medical costs per person
- Total—\$3,914,450.00

Motor Vehicle-Related Injury Death

- Average 9.6 deaths per year
- \$1,120,000.00 in economic costs per death
- Total—\$10,752,000.00 a year

Tobacco Use

- 29.5% of population (11,419)
- \$3,300.00 in health care costs
- Total—\$37,682,700.00 a year

Diabetes

- 10.7% of population (4,142)
- \$13,243.00 in healthcare costs a year
- Total—\$54,852,506.00 a year

Teen Pregnancy

- Average of 79 births to teen mothers per year
- \$3,200.00 in costs for each birth a year
- Total— \$252,800.00 a year



Grand Total for Delaware County:

\$167,309,679.78

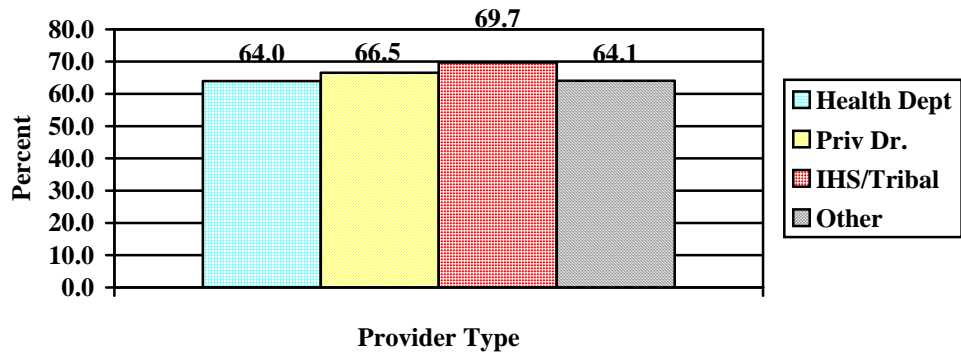
OK By One - State Immunization Data

* 2 Year-old Immunization Survey, Immunization Service, OSDH

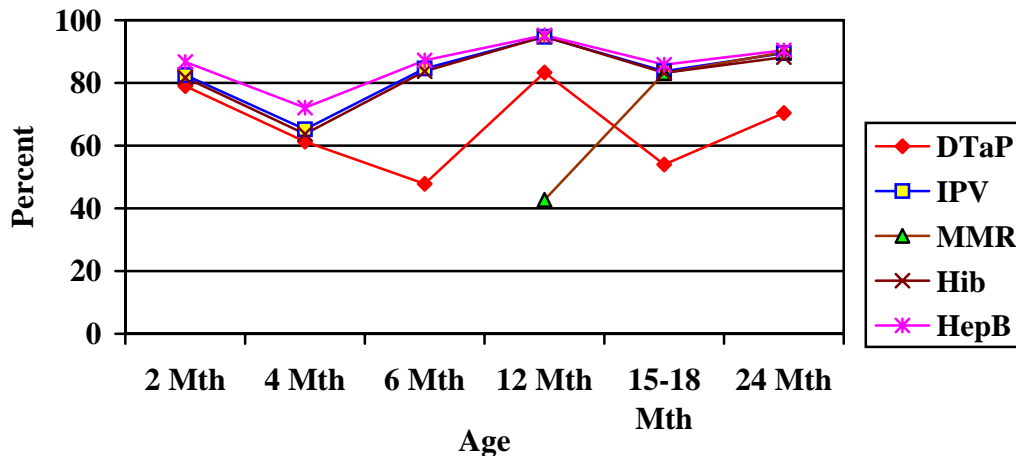
2003-04 Immunization Coverage Rates



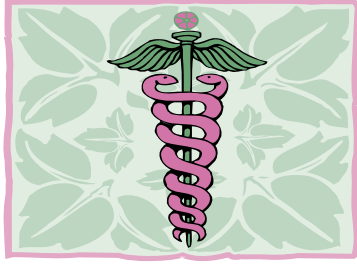
4:3:1:3:3 Coverage by Location of Shots, Oklahoma, 2004



Oklahoma Children On Schedule by Antigen, 2004



**Note: County level data will be available soon.



**OKLAHOMA STATE
DEPARTMENT OF HEALTH**

Community Health Services
Community Development Service

1000 NE 10th St, Rm 508
Oklahoma City, OK 73117
Phone: 405-271-6127
Fax: 405-271-1225

Delaware County Health Department
Highway 59th West
PO Box drawer 370
Jay, Oklahoma 74346
918-253-4511

Looking Back to Move Forward

Report compiled by:
Miriam McGaugh, M.S.
Community Development Service, OSDH
Kelly Baker, MPH
Health Care Information Systems, OSDH

The Oklahoma Turning Point Initiative is public health improvement in action. The success of the Turning Point process involves a partnership between the state and county departments of health, local communities, and policy-makers. The Oklahoma Turning point engine is fueled by a community-based decision making process whereby local communities tap into the capacities, strengths, and vision of their citizens to create and promote positive, sustainable changes in the public health system, and the public's health.



*Oklahoma Community Partners
in Public Health Innovation*