Tarrant County

M. A. P.

Monitoring & Assessment Project

Community Health Report 2000-2001 Executive Summary

Tarrant County Public Health
Epidemiology and Health Information

Tarrant County
Monitoring & Assessment Project
Community Health Report
2000-2001
Executive Summary

TARRANT COUNTY
PUBLIC HEALTH

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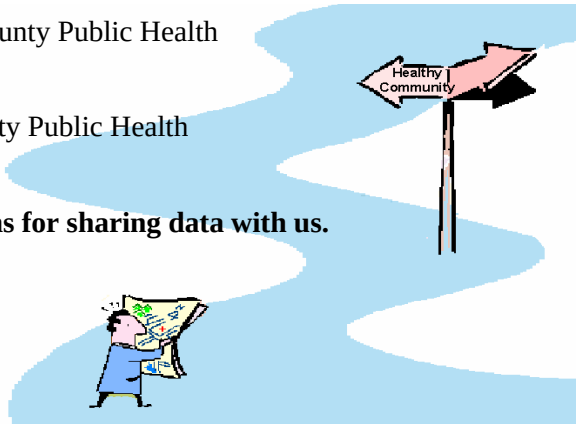
We thank our community partners and organizations for sharing data with us.



M.A.P Community Partners and Data Sources

We thank our community partners.

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Texas Behavioral Risk Factor Surveillance System*
Texas Commission on Alcohol and Drug Abuse*
Texas Commission on Environmental Quality*
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Texas Department of Protective & Regulatory Services*
Texas Department of Public Safety*
Texas Education Agency*
Texas Immunization Survey*
U.S. Census 2000*
U.S. Department of Health & Human Services*
United Way of Metropolitan Tarrant County
University of North Texas Health Science Center

*Data Source

Introduction

The Monitoring & Assessment Project is an initiative conducted by Tarrant County Public Health (TCPH) to construct a comprehensive community health profile. The purpose is to establish a baseline for accurate, periodic assessments of our community's progress toward health-related objectives. This effort reflects our mission to promote community health, prevent disease and injury, and assure a healthful and safe environment. The health indicators in this project are based on the Texas Strategic Health Status Indicators (TSHSI) project of the Texas Department of Health (TDH). TSHSI seeks to provide comparable, regularly updated data on the health status for all Texas counties. These indicators were adapted for Tarrant County and geocoded on a sub-county level using Geographic Information System (GIS) technology. To assess the health status of Tarrant County residents, these health indicators were matched to the Healthy People 2010 benchmarks, as well as compared with indicators for Texas and the nation.

The chosen indicators are divided into seven domains:

- **Domain I. Community Profile**
  - demographic and socioeconomic data, quality of life, health resources
- **Domain II. Maternal & Child Health**
  - infant mortality, child mortality, prenatal care, adolescent pregnancy, low birth weight, immunizations
- **Domain III. Chronic Diseases**
  - cardiovascular disease mortality, cancer mortality, diabetes mortality, chronic obstructive pulmonary disease mortality, stroke mortality, obesity morbidity, diabetes morbidity
- **Domain IV. Infectious Diseases**
  - Sexually Transmitted Diseases (STD), body fluid-borne pathogens, tuberculosis
- **Domain V. Environmental Health**
  - enteric diseases, hepatitis A, lead poisoning, air and water quality
- **Domain VI. Social & Mental Health**
  - suicide, substance abuse, child abuse and neglect, crime arrests, divorce, mental illness
- **Domain VII. Injury**
  - intentional injuries, unintentional injuries

Methodology

Health indicators used in this project were chosen with the input of community stakeholders who attended an initial meeting. Various sources of data for each indicator were explored. Pre-existing data from various sources were in different formats and at different stages of analysis. The report includes the latest and most pertinent data available to give a complete picture of the County's health status. Data for each indicator were analyzed using 2000 as the baseline rates and 2001 as comparison. The majority of the data were stratified according to sex, age, race\ethnicity, ZIP Code and city when available. The ZIP Code data were mapped using the Geographic

Information System (GIS). Hypothesis testing was performed on certain indicators to show any significant differences among Tarrant County, Texas and the United States in 2001, as well as between the years 2000 and 2001 for Tarrant County. The indicators chosen to be tested required that subset sample sizes were known and available for Tarrant County. Some of the indicators do not have the necessary information available for hypothesis testing. The statistical methods utilized for this project were one-sample binomial proportion tests and two-sample binomial proportion tests. The one-sample binomial proportion test was used to compare Tarrant County rates to that of Texas and the United States, whereas the two-sample binomial proportion test was performed on the Tarrant County data for comparison of the years 2000 and 2001. The assumptions for these tests were that the events for the comparison geographic areas and for the two years were independent. The statistical significance level used for testing was: $\alpha = 0.05$.

The information in this report provides an overall picture of the health status of Tarrant County residents. It identifies different areas that may require further exploration in order to address certain health issues. Research limitations include:

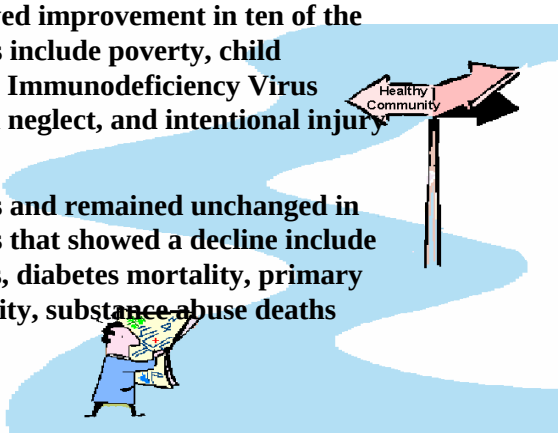
- Data are from different sources and might have been collected for reasons other than to show the health profile of the Tarrant County community;
- Data collection methods differ among organizations providing data;
- Criteria for data collection might have changed over the years

However, all the comparative data for each geographic jurisdiction and from year 2000 to 2001 were collected in the same fashion by each data source. A few of the indicators such as mental illness, chronic diseases morbidity and immunizations do not have adequate relevant data available for Tarrant County.

Results

The key findings in this project are as follows:

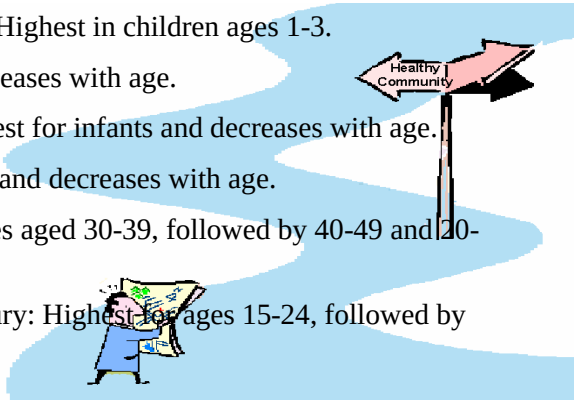
- **Overall, the health of Tarrant County is comparable to that of the state of Texas and the United States, and shows trends in most of the health indicators similar to that of the state and the nation (Table 1).**
- **By the year 2001, Tarrant County had met 20 percent of the corresponding Healthy People 2010 objectives for selected health indicators. These include lowered rates for adolescent pregnancy, diabetes mortality, hepatitis A, enteric diseases, and child abuse and neglect (Table 1).**
- **During the years of 2000 and 2001, Tarrant County showed improvement in ten of the health indicators. Health indicators that showed progress include poverty, child mortality, adolescent pregnancy, gonorrhea, new Human Immunodeficiency Virus (HIV) cases, hepatitis A, enteric diseases, child abuse and neglect, and intentional injury deaths.**
- **By contrast, health status declined in 10 health indicators and remained unchanged in 15 health indicators in this time period. Health indicators that showed a decline include unemployment, infant mortality, low birth weight infants, diabetes mortality, primary and secondary syphilis, hepatitis B, tuberculosis, air quality, substance abuse deaths and unintentional injury deaths.**



- **There are notable differences between males and females in 25 indicators. Males performed poorer than females in most of these indicators except, poverty level in single parent household, median earning and educational attainment by Asians and chlamydia rates (Table 3).**
- **Comparison between races revealed that rates for Whites were lower than Blacks, Hispanics and other races in most of the indicators except for all cause mortality, Years of Potential Life Lost (YPLL), heart disease mortality, all cancer mortality, child abuse/neglect and divorce (Table 4). For most indicators, rates for Hispanics were lower than Blacks except with the teen pregnancy rate.**

Tarrant County indicators with age sensitivity include:

- Percent below poverty level: Higher proportion of children (under 18) than adults live in homes below poverty level.
- All-cause mortality rate: High for infants, reaches a lowest point in ages 5-14, increases with age and highest for 75 and older.
- Infant mortality rate: Highest for mothers 40 years and older, followed by ages15-17 and lowest for women ages 30-34.
- Child mortality rate: Lowest in ages 5-9, followed by 10-14 and 1-4.
- Prenatal care in the first trimester of pregnancy: lowest in mothers under 15 and increases with age.
- Low birth weight infants: Highest in women under 15 and lowest in women 30-34 years.
- Teen pregnancy rate: Increases with mother's age.
- Chronic diseases rates: Generally increases with age except obesity which is highest in ages 40-59.
- Common bacterial sexually transmitted diseases rate: Syphilis is highest for ages 30-39, followed by 20-29; chlamydia and gonorrhea rates are highest for ages 20-29, followed by 10-19 and 30-39.
- Body fluid-borne pathogens rates: Hepatitis B and C increases with age and is highest for ages 40-49 followed by 30-39; HIV is highest for ages 30-39, followed by 20-29.
- Tuberculosis rate: Highest for 30-39, followed by 40-49 and 20-29.
- Enteric disease rates: Tend to be more common in children than adults.
- Elevated lead level in children: Highest in children ages 1-3.
- Substance abuse death rate: Increases with age.
- Child Abuse and Neglect: Highest for infants and decreases with age.
- Crime arrest: Highest for 18-24 and decreases with age.
- Divorce rate: Highest for couples aged 30-39, followed by 40-49 and 20-29.
- Homicide and unintentional injury: Highest for ages 15-24, followed by 25-34 and 35-44



ZIP Code Distribution of Tarrant County Health Indicators

Community Profile: The highest rates for poverty, low per capita income, unemployment, disadvantaged students, low educational attainment, limited English proficiency and linguistic isolation, single parents household, all cause mortality and YPLL are concentrated in and around central Tarrant County ZIP Codes.

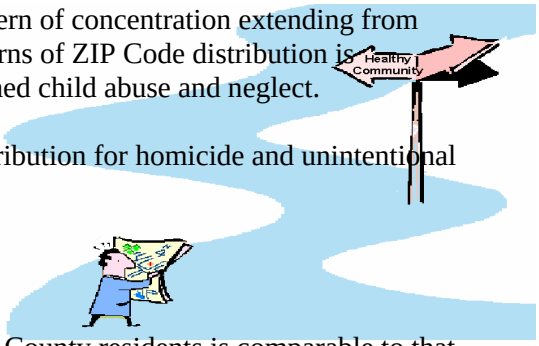
Maternal and Child Health: Low prenatal care in the first trimester of pregnancy is concentrated in the east Tarrant County ZIP Codes adjacent to the border of Dallas County; Low birth weight and teen pregnancy are concentrated in and around central Tarrant County ZIP Codes. Independent school districts from southwest through central to east Tarrant County have immunization rates below 65%.

Chronic Diseases: No observable pattern of ZIP Code distribution for heart disease mortality, cancer mortality, stroke mortality, diabetes mortality and chronic lower respiratory disease mortality.

Infectious Diseases: The highest rates for early syphilis, chlamydia, gonorrhea, HIV and tuberculosis are found in and around ZIP Codes in central Tarrant County. High rates of syphilis are also found in east Tarrant County ZIP Codes close to the border of Tarrant and Dallas counties.

Environmental Health: Childhood elevated blood lead is concentrated in central Tarrant County ZIP Codes. There is no observable pattern of ZIP Code distribution for shigellosis, campylobacteriosis, *E. coli* 0157:H7, salmonellosis and Hepatitis A.

Social and Mental Health: Crime arrest rates show a pattern of concentration extending from central towards south Tarrant County ZIP Codes. No patterns of ZIP Code distribution is observed with suicide, substance abuse deaths and confirmed child abuse and neglect.



Injury: There was no observable pattern of ZIP Code distribution for homicide and unintentional injury deaths.

Conclusion and Recommendation:

Although the overall picture of the health status of Tarrant County residents is comparable to that of the state of Texas and the nation, it still falls short of national objectives in many areas. In areas such as all cause mortality rate, infant mortality, prenatal care in the first trimester of pregnancy, heart disease mortality, all cancer mortality, diabetes mortality, tuberculosis rate, campylobacteriosis, salmonellosis, e.coli 0157:H7 and lead poisoning in children, Tarrant County rates are not as good as the state of Texas and /or the nation. There is a need to explore these areas further to identify factors influencing their rates in Tarrant County. Special efforts should be made to target health promotion and education programs designed to mitigate these health issues for Blacks, Hispanics and others and also to residents of ZIP Codes in central and east Tarrant County.

Finally, the M.A.P. Community Health Report establishes a baseline for most of these indicators in Tarrant County. There is a need for subsequent reports in future years, particularly focusing on the more salient indicators to monitor our progress toward meeting the 2010 national objectives.

Table 1: Comparison of 2001Tarrant County Health Indicators with Texas and the United States and Healthy People 2010 Objectives

Demographic	Tarrant County	Texas	U.S.	Healthy People 2010 Objectives
2000-2001 Population Change	2.8%	2.3%	1.6%	NA
Percent Below Poverty level	10.6%	15.5%	12.4%	NA
Per capita Income	$22,548	$19,617	$21,587	NA
Unemployment Rate	4.5%	6.0%	5.7%	NA
Percent Disadvantaged Students	23.9%	31.1%	25.0%	NA
Educational Attainment: % Completed High School or Above	81.3%	75.7%	80.4%	90.0%
Limited English Proficiency	10.5%	13.9%	8.1%	NA
Linguistic Isolation	6.8%	8.1%	4.7%	NA
*All Cause Mortality Rate (per 100,000 pop.)	913.5	884.9	869.0	NA
Years of Potential Life Lost (YPLL)	69.5	70.5	NA	NA
Maternal and Child Health	**Tarrant County**	**Texas**	**U.S.**	**Healthy People 2010 Objectives**
*Infant Mortality Rate (per 1,000 live births)	7.4	6.0	6.9	4.5
Child Mortality (per 100,000 children ages 1-4 and 5-9)	41.5 ?12.2	24.6	NA	18.6 (1-4 years) 14.3 (5-9 years)
*Prenatal Care in the First Trimester	78.5%	77.7%	83.0%	90.0%
Percent of Low Birth Weight Infants	7.7%	7.6%	7.7%	5.0%
Adolescent Pregnancy Rate (per 1,000 female ages 15-17)	?40.57	NA	NA	43.0
Immunization Rate at Age 2 (2000 rates)	73.9%	70.3%	71.0%	95.0%
Chronic Diseases	**Tarrant County**	**Texas**	**U.S.**	**Healthy People 2010 Objectives**
*Heart Disease Mortality Rate (per 100,000 pop.)	264.1	257.3	347.7	166.0
*All Cancer Mortality Rate (per 100,000 pop.)	191.9	192.4	195.8	159.9
Stroke Mortality (per 100,000 pop.)	78.8	64.5	57.9	48.0
*Diabetes Mortality Rate (per 100,000 pop.)	?28.4	31.4	25.2	45.0
Chronic Lower Respiratory Disease Mortality (per 100,000 pop.)	?50.0	46.6	44.0	60.0
Percent Obese	22.6%	23.8%	20.95	15.0%
Percent Diabetic	7.0%	7.1%	6.5%	25 per 1,000 pop.

* $p<0.05$

?Tarrant County Health Indicators that met the 2010 Objectives

NA – Not Available

Table 1: Comparison of 2001Tarrant County Health Indicators with Texas and the United States and Healthy People 2010 Objectives Cont.

Infectious Diseases	Tarrant County	Texas	U.S.	Healthy People 2010 Objectives
Chlamydia Rate (per 100,000 pop.)	271.1	334.5	243.3	3.0
Gonorrhea Rate (per 100,000 pop.)	151.1	144.0	112.6	19.0
Syphilis Rate (per 100,000 pop.)	2.7	2.3	2.2	0.2
HIV (per 100,000 pop.)	12.9	19.9	12.3	1
Hepatitis B Rate (per 100,000 pop.)	**13.5 **19.8	3.3	2.8	2.4 (19-24 years) 5.1 (25-39 years)
Hepatitis C Rate (per 100,000 pop.)	**111.2	2.3	1.4	1.0
*Tuberculosis Rate (per 100,000 pop.)	7.3	7.7	5.6	1.0
Environmental Health	**Tarrant County**	**Texas**	**U.S.**	**Healthy People 2010 Objectives**
*Campylobacteriosis Rate (per 100,000 pop.)	?2.1	0.6	NA	12.3
*Salmonellosis Rate (per 100,000 pop.)	6.9	10.7	13.2	6.8
*Escherichia coli 0157:H7 Rate (per 100,000 pop.)	?0.4	@@	1.1	1.0
Listeria monocytogenes Rate (per 100,000 pop.)	?0.2	0.1	0.2	0.25
Hepatitis A Rate (per 100,000 pop.)	7.9	5.5	3.7	4.5
*Lead Poisoning in Children Rate (per 1,000 children <15 years)	<0.1%	2.7%	NA	Total Elimination
Fluoridated Water	?97.1%	NA	NA	95.0%
Public Water System	93.8%	97.0%	NA	NA
Social and Mental Health	**Tarrant County**	**Texas**	**U.S.**	**Healthy People 2010 Objectives**
Suicide Rate (per 100,000 pop.)	10.0	10.9	10.3	5.0
Substance Abuse Deaths (per 100,000 pop.)	59.1	67.1	NA	NA
Driving While Intoxicated Accidental Deaths (per 100,000 pop.) (2000)	2.70	4.94	5.92	4.0
Average Age of First Use of Alcohol (years)	11.6	13.8	NA	16.1
Child Abuse/Neglect Rate (per 1,000 children)	5.5	7.2	12.4	11.1
Crime Arrest (per 1,000 pop.)	63.4	48.5	NA	NA
Divorce Rate (per 1,000 pop.)	5.2	3.9	NA	NA
Homicide Rate (per 100,000 pop.)	6.5	6.4	6.9	3.0
Unintentional Injury Rate (per 100,000 pop.)	33.1	39.3	34.3	20.8

* $p<0.05$
** include chronic and acute cases
?Tarrant County Health Indicators that met the 2010 Objectives
NA – Not Available
@@ Numbers too small for rate calculation

Table 2: Tarrant County Health Indicators that Improved Between 2000 and 2001

Indicator	2000	2001
Percent of Population Below Poverty level	10.6%	9.7%
Child Mortality(per 100,000 children ages 1-14)	26.0	17.6
Adolescent Pregnancy (per 1,000 female ages 15-19)	82.23	73.12
Gonorrhea (per 100,000 pop.)	187.7	151.1
New HIV cases (per 100,000 pop.)	24.9	12.9
Hepatitis A (per 100,000 pop.)	9.6	7.9
Enteric Diseases (per 100,000 pop.):		
• Campylobacteriosis Rate	3.5	2.1
• Salmonellosis Rate	10.9	6.9
• Escherichia coli 0157:H7 Rate	0.8	0.4
• Listeria monocytogenes Rate	0.1	0.2
• Shigellosis	17.6	3.1
Child Abuse and Neglect (per 1,000 children ages 0-17)	6.4	5.5
Intentional Injury Deaths (per 100,000 pop.)	31.2	33.1

Table 3: 2001 Tarrant County Health Indicators with Gender Differences

Indicators	Male	Female
Percent Below Poverty Level in Single Parent Households	11.0%	22.8%
Median Earning	$31,096	$20,757
Educational Attainment by the Asian race	91.3%	68.6%
All Cause Mortality Rate (per 100,000 pop.)	1,041.5	810.7
YPLL Rate (per 100,000 pop. Ages 0-75)	87.0	52.3
Heart Disease Mortality Rate (per 100,000 pop.)	305.6	230.7
All Cancer Mortality (per 100,000 pop.)	233.3	165.0
Stroke Mortality (per 100,000 pop.)	81.0	74.2
Chronic Lower Respiratory Disease Mortality (per 100,000 pop.)	67.3	39.3
Percent Overweight	43.8%	31.0%
Percent Obesity	28.5%	18.7%
Percent Diabetes	9.4%	5.5%
Chlamydia Rate (per 100,000 pop.)	114.7	425.2
Hepatitis C (per 100,000 pop.)	129.6	93.1
New HIV Infection Rate (per 100,000 pop.)	17.5	8.4
Tuberculosis Rate (per 100,000 pop.)	10.7	4.0
Hepatitis A Rate (per 100,000 pop.)	9.4	6.6
Suicide Rate (per 100,000 pop.)	16.6	4.0
Percent Children and Adolescent clients receiving Mental Health Services	70.7%	29.3%
Substance Abuse Death Rate (per 100,000 pop.)	105.1	60.0
Percent in Substance Abuse Treatment	54.8%	45.2%
Adult Crime Arrest Rate (per 100,000 pop.)	107.3	32.5
Youth Crime Arrest Rate (per 100,000 pop.)	63.9	32.6
Homicide Rate (per 100,000 pop.)	9.7	3.3
Unintentional Injury Death Rate (per 100,000 pop.)	47.5	20.4

Table 4: 2001 Tarrant County Health Indicators by Race/Ethnicity

Demographic	Whites	Blacks	^Hispanics	?Asians	Others
2000-2001 Percent Population Change	0.9%	3.6%	7.4%	NA	7.6%
Percent of Population Below Poverty level	7.2%	20.5%	19.1%	12.2%	20.4%
Per capita Income	$27,764	$15,823	$11,938	$18,291	$11,593
Unemployment Rate	3.6%	8.6%	6.6%	4.0%	4.9%
Educational Attainment: % Completed High School or Above	85.8%	80.3%	46.5%	79.5%	44.1%
All Cause Mortality Rate (per 100,000 pop.)	911.0	1180.4	683.3	NA	453.0
Years of Potential Life Lost (YPLL)	74.3	108.4	52.5	NA	32.2
Maternal and Child Health	**Whites**	**Blacks**	**Hispanics**	**Asians**	**Others**
Infant Mortality Rate (per 1,000 live births)	6.5	12.5	7.1	NA	3.7
Child Mortality (per 100,000 children ages 1-14)	32.0	47.0	35.3	NA	@@
Prenatal Care in the First Trimester	86.6%	74.2%	68.9%	NA	78.9%
Percent of Low Birth Weight Infants	6.7%	13.5%	6.9%	NA	6.8%
Teen Pregnancy Rate (per 1,000 female ages 15-19)	29.0	61.7	76.2	NA	21.9
Chronic Diseases	**Whites**	**Blacks**	**Hispanics**	**Asians**	**Others**
Heart Disease Mortality Rate (per 100,000 pop.)	263.3	342.1	214.5	NA	117.8
All Cancer Mortality Rate (per 100,000 pop.)	190.6	273.2	133.3	NA	128.9
Stroke Mortality (per 100,000 pop.)	77.3	109.1	52.6	NA	@@
Diabetes Mortality Rate (per 100,000 pop.)	24.0	62.5	44.1	NA	@@
Chronic Lower Respiratory Disease Mortality (per 100,000 pop.)	53.6	49.5	@@	NA	@@
Percent Obese	21.5%	35.5%	20.8%	NA	16.7%
Percent Diabetic	7.5%	9.1%	5.3%	NA	0.0%
Infectious Diseases	**Whites**	**Blacks**	**Hispanics**	**Asians**	**Others**
Chlamydia Rate (per 100,000 pop.)	68.6	680.7	298.1	NA	97.8
Gonorrhea Rate (per 100,000 pop.)	27.4	683.8	82.6	NA	598.4
Syphilis Rate (per 100,000 pop.)	2.7	30.3	4.2	NA	0.0
HIV (per 100,000 pop.)	9.3	41.0	7.8	NA	@@
Hepatitis B Rate (per 100,000 pop.)	2.5	7.7	2.0	NA	25.9
Hepatitis C Rate (per 100,000 pop.)	51.1	98.5	24.8	NA	24.5
Tuberculosis Rate (per 100,000 pop.)	3.7	22.1	8.8	NA	4.3

@@ Numbers too small for rate calculation

^ People of Hispanic origin are also counted with other races

? People of Asian origin are included in other races where health indicators for Asians are not available

Table 4: 2001 Tarrant County Health Indicators by Race\Ethnicity Contd.

Environmental Health	**Whites**	**Blacks**	**Hispanics**	**?Asians**	**Others**
Campylobacteriosis Rate (per 100,000 pop.)	1.6	@@	3.9	NA	@@
Salmonellosis Rate (per 100,000 pop.)	4.3	3.8	6.0	NA	8.6
Escherichia coli 0157:H7 Rate (per 100,000 pop.)	0.39	@@	0.0	NA	0.0
Shigellosis Rate (per 100,000 pop.)	0.7	@@	8.4	NA	@@
Hepatitis A Rate (per 100,000 pop.)	3.3	23.2	9.5	NA	@@
Lead Poisoning in Children Rate (per 1,000 children <15 years)	0.3	1.0	1.6	NA	2.0
Social and Mental Health	**Whites**	**Blacks**	**Hispanics**	**Asians**	**Others**
Suicide Rate (per 100,000 pop.)	12.4	4.6	3.6	NA	10.1
Percent in Mental Health Services	62.4%	23.6%	6.0%	NA	1.4%
Substance Abuse Deaths (per 100,000 pop.)	101.4	104.2	@@	NA	@@
Percent in Substance Abuse Treatment	57.5%	26.3%	14.7%	NA	1.5%
Child Abuse/Neglect Rate (per 1,000 children)	10.2	4.7	4.9	NA	2.2
Crime Arrest (per 1,000 pop.)	74.3	158.1	80.4	NA	10.7
Divorce Rate (per 1,000 pop.)	12.2	9.5	4.3	NA	5.3
Injury	**Whites**	**Blacks**	**Hispanics**	**Asians**	**Others**
Homicide Rate (per 100,000 pop.)	4.5	12.3	10.0	NA	@@
Unintentional Injury Rate (per 100,000 pop.)	34.1	36.8	26.1	NA	@@

@@ Numbers too small for rate calculation

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This community health report is issued by the
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Tarrant County Public Health

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