Gilpin County Health Status Report

January 2013

GILPIN COUNTY PUBLIC HEALTH AGENCY

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Health Priorities for Gilpin County

In 2011, the Gilpin County Public Health Coordinator met with key stakeholders in Gilpin County in order to determine each group's top three health priorities.

Priorities identified by the County Key Stakeholders

- Nutrition, Obesity/Overweight, Exercise
- Access to Healthcare
- Mental Health and Chronic Disease Prevention

Priorities identified by the Senior Wellness Program

- Nutrition, Obesity/Overweight, Exercise
- Access to Healthcare
- Chronic Disease Prevention

Priorities Identified by Gilpin County Commissioners

- Emergency Preparedness
- Immunizations
- Mental Health

Key Findings from the Community Health Status Report

TOBACCO: In Gilpin County, 23.6% of adults smoke, which is much higher than the smoking rate in Colorado of 16.9%. Children are also affected, with higher rates of exposure to secondhand smoke and pregnant mothers who smoke.

CARDIOVASCULAR DISEASE: Cardiovascular disease is the leading cause of death in Gilpin County and the age-adjusted mortality rates for these diseases are higher than those of Colorado.

GROWING SENIOR POPULATION: The total population of Gilpin County is expected to grow less than 2% every 5 years over the next 30 years, but the population age 65 and older is projected to grow between 75-150% by 2030.

CRIME: Adult and juvenile crime rates in Gilpin County are nearly twice the rates in Colorado. While the state data does not specify whether arrests are attributed to residents or visitors, the casino activity in Black Hawk and Central City is cited as the reason for high crime rates in Gilpin County. The Gilpin County Services Report shows that Gilpin County non-residents account for the majority of cases in Black Hawk and Central City.

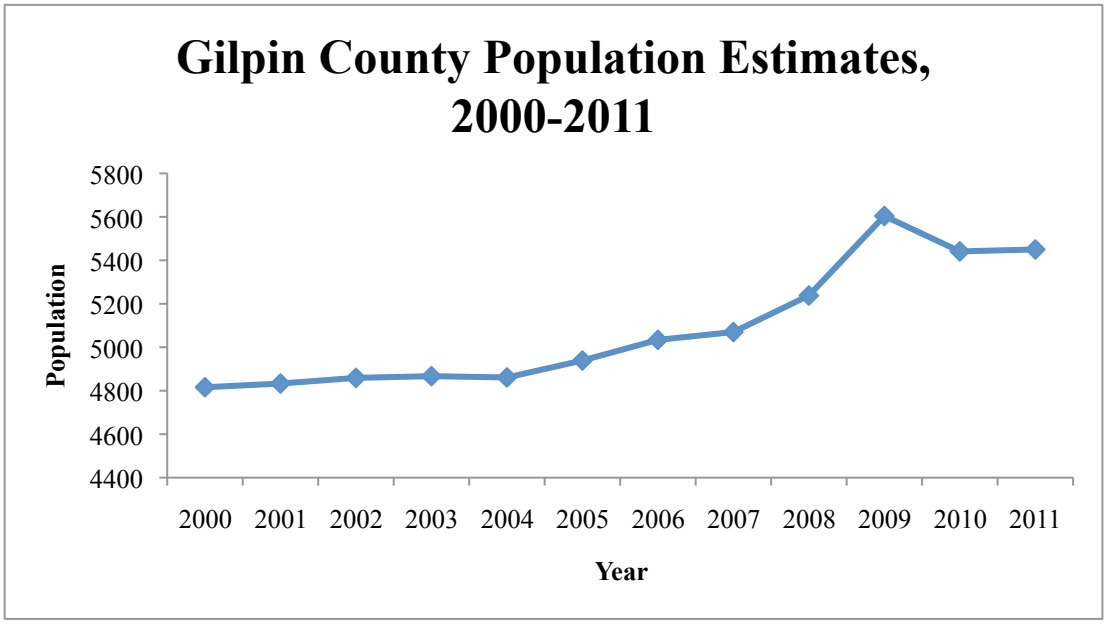
FALLS: Falls are the leading cause of hospitalization in both Gilpin County and Colorado.

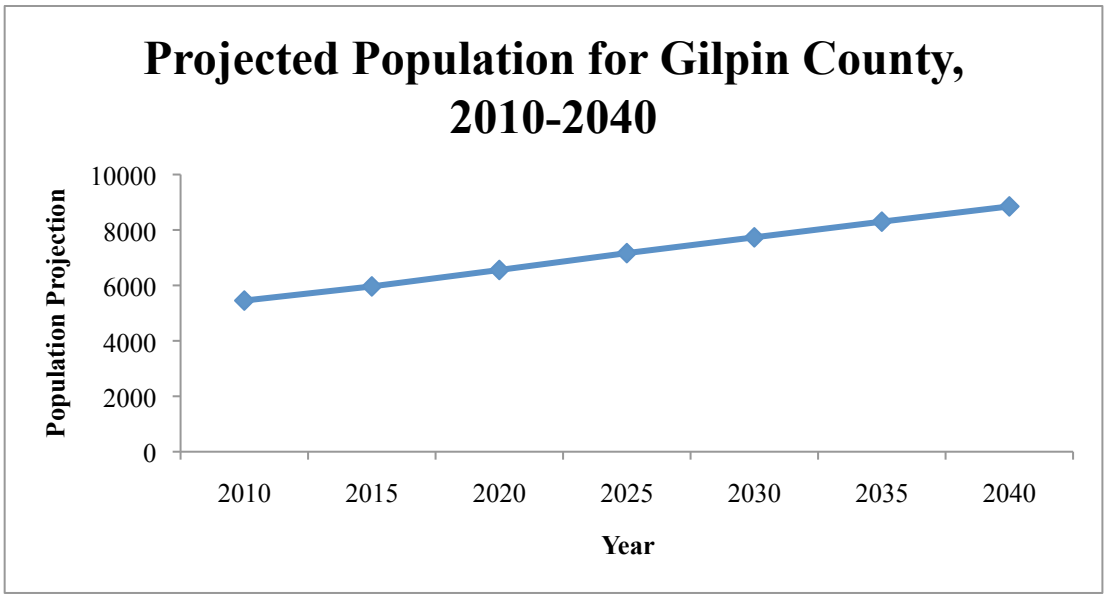
RADON: Average radon levels in Gilpin County are over 2.5 times the EPA recommended action limit. Radon is the second leading cause of lung cancer.

Demographics/Who We Are

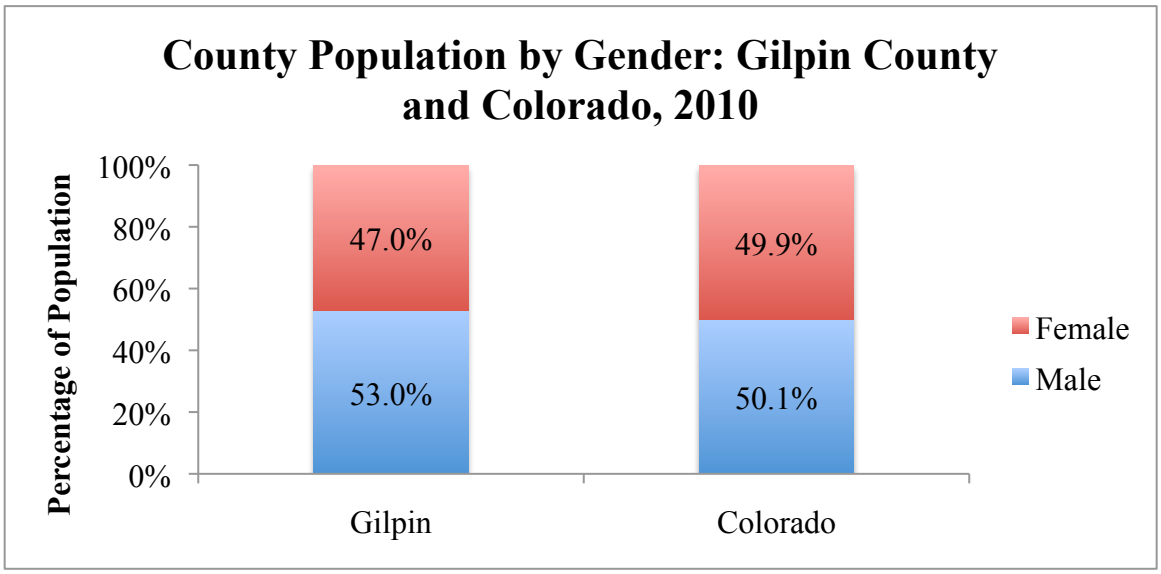
Population

In 2010, Gilpin County was home to a population of 5,441 residents. This represents 14.4% increase in the county's population since 2000, compared to a 16.9% increase in the state's population during the same period of time.[1] However, the population has decreased from 2009-2011. The population of Gilpin County is projected to grow between 1.3-1.9% annually from 2010-2040.



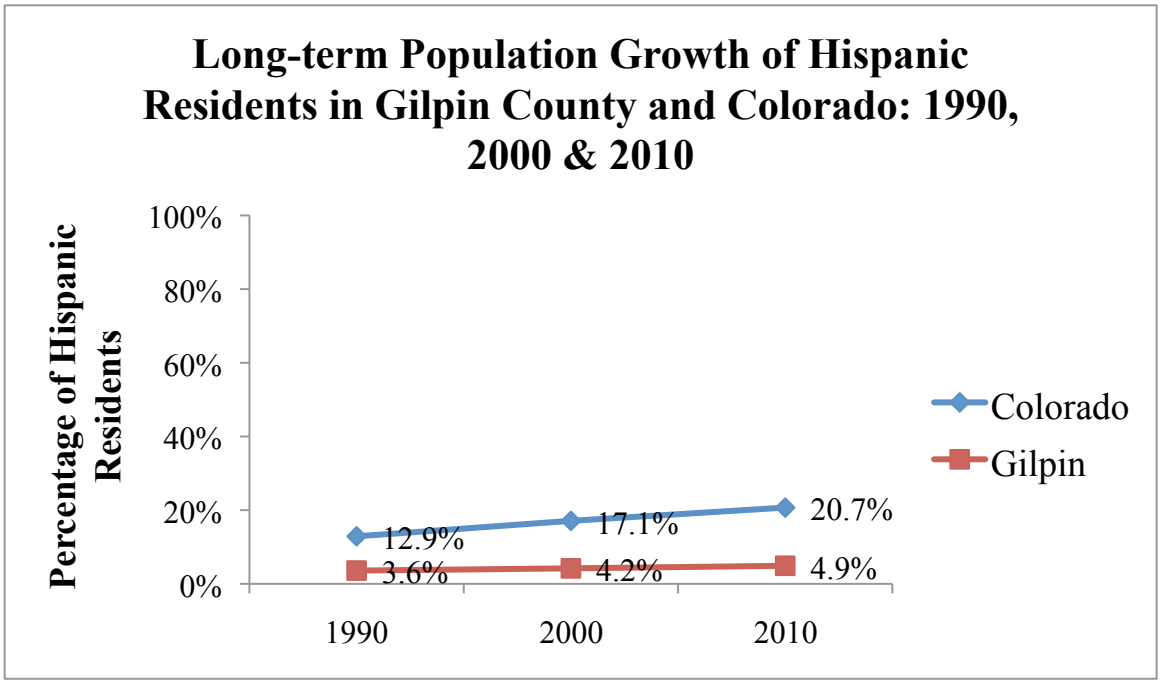


Gender

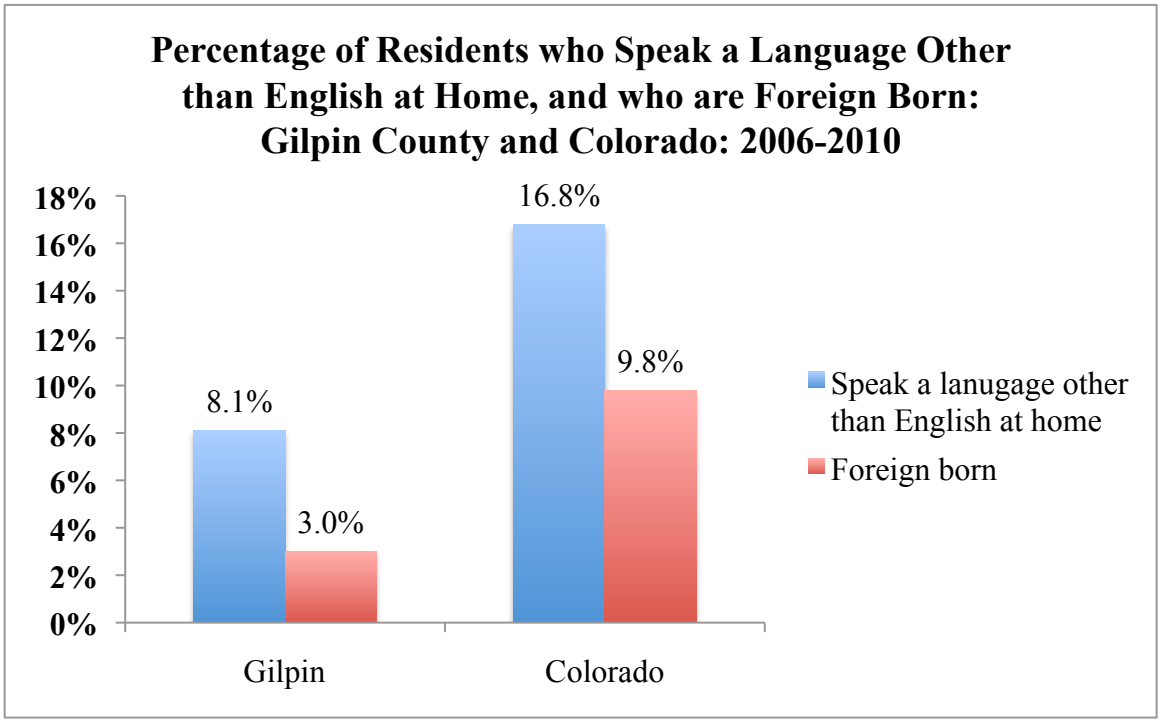


Race & Ethnicity

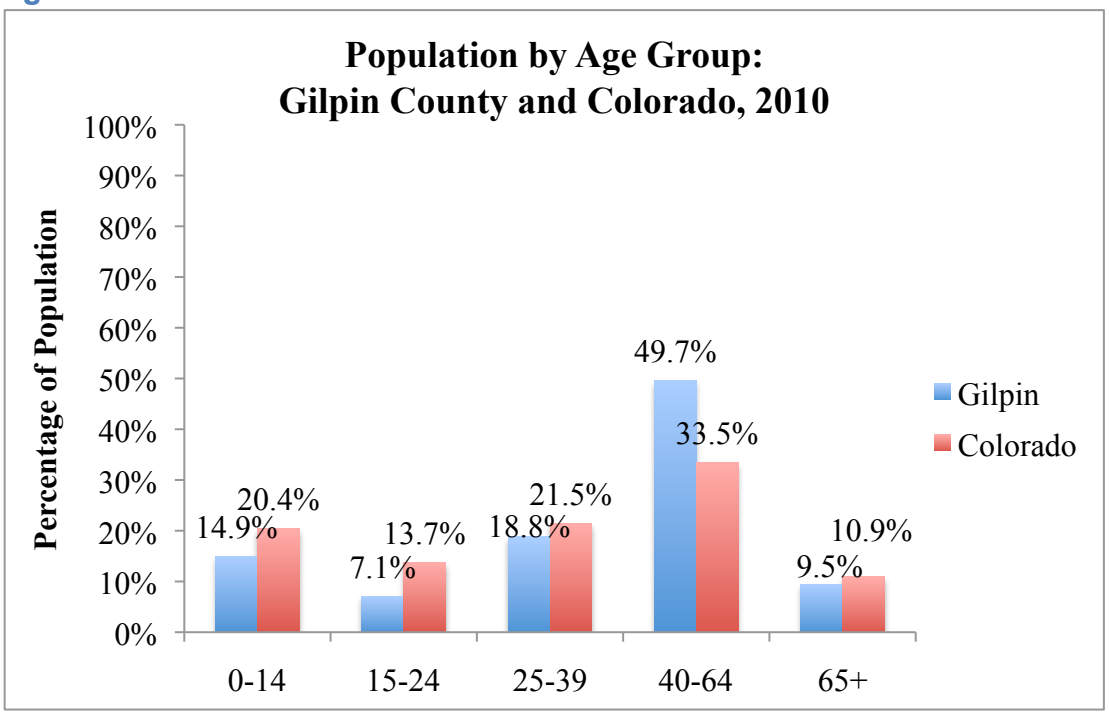
	White	Hispanic	Black	American Indian or Alaska Native	Asian
Gilpin	94.8%	4.9%	0.5%	0.8%	1.4%
Colorado	81.3%	20.7%	4.0%	1.1%	2.8%

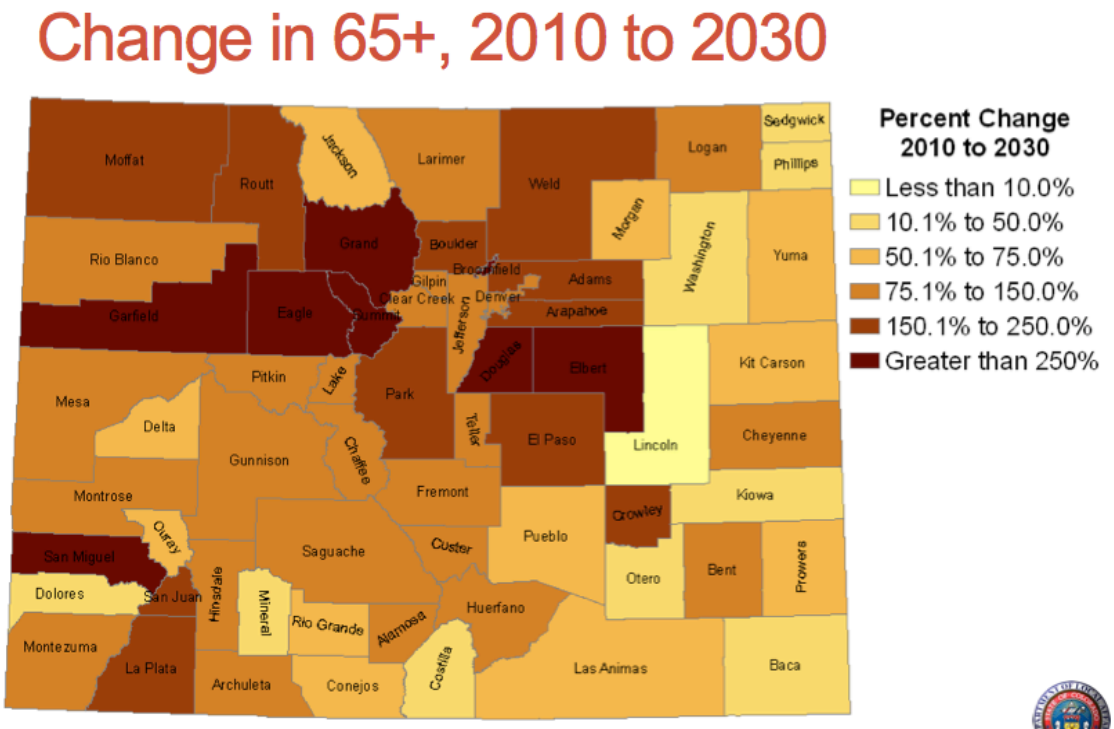


Language & Foreign Born



Age





Source: State Demography Office, US Census Bureau

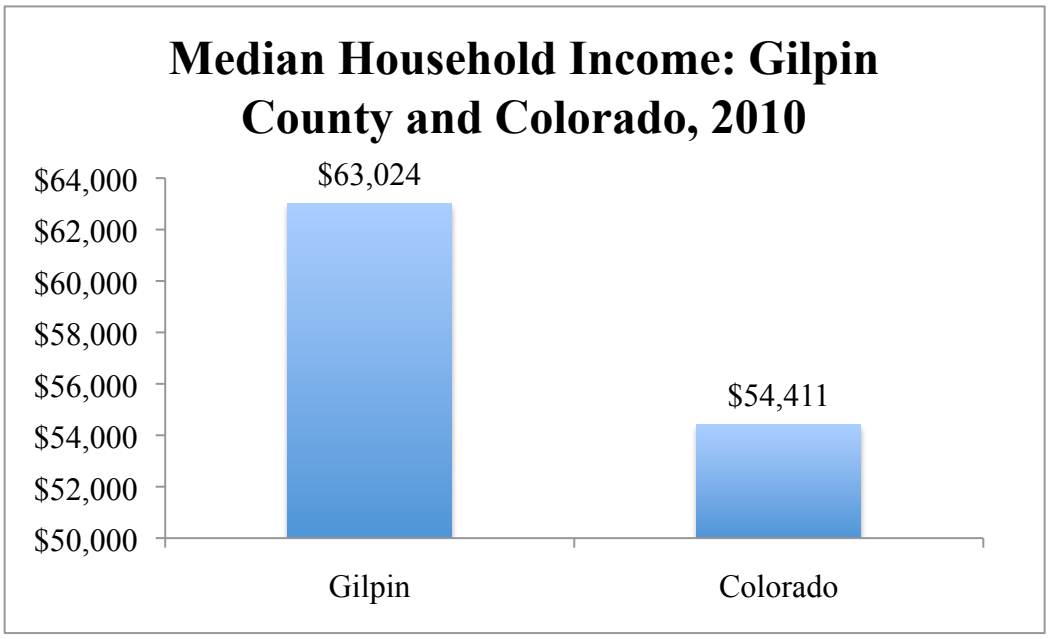
Percent of Adults in Gilpin County who Identify Themselves as Lesbian, Gay or Bisexual, 2007-2009[2]

		Upper Confidence Limit	Lower Confidence Limit
Gilpin County	5.4%	0.00%	11.60%
Region 17	2.3%	0.70%	3.90%
Colorado	2.4%	2.10%	2.60%

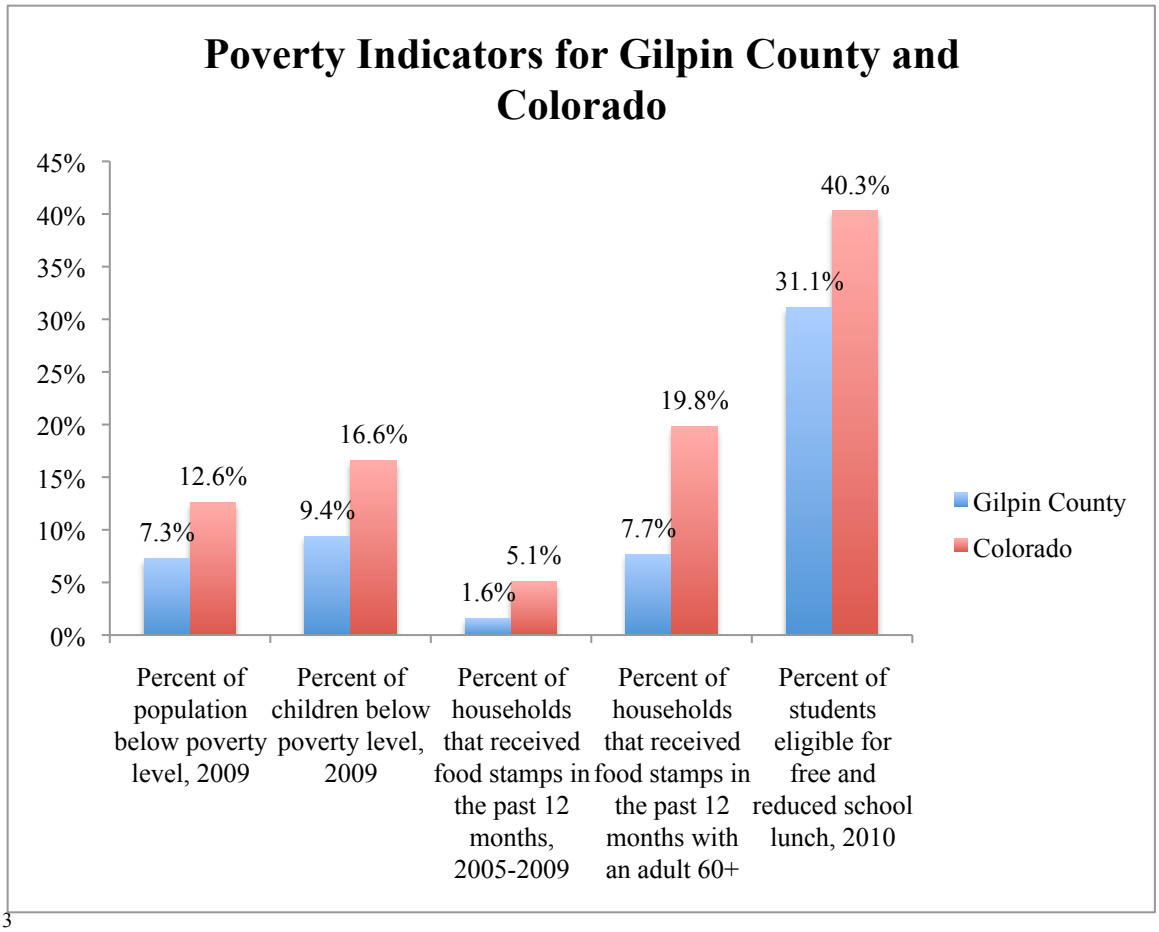
Region 17 is health statistics region designated by the state of Colorado that includes Clear Creek, Gilpin, Park and Teller counties.

Confidence intervals are statistics to describe the possible margin of error in a reported rate. Calculating a confidence interval provides a better indication of what the "true" rate might be. A 95 percent confidence interval indicates that the true rate will be a value between the lower and upper limits of the confidence interval 95% of the time.

Income



15.7% of households in Gilpin County are headed by a single adult, compared with 21.4% in Colorado (2005-2009).[2]


Poverty Indicators for Gilpin County and Colorado
45%
40%
35%
30%
25%
20%
15%
10%
5%
0%
7.3%
12.6%
9.4%
16.6%
1.6%
5.1%
7.7%
19.8%
31.1%
40.3%
Percent of population below poverty level, 2009
Percent of children below poverty level, 2009
Percent of households that received food stamps in the past 12 months, 2005-2009
Percent of households that received food stamps in the past 12 months with an adult 60+
Percent of students eligible for free and reduced school lunch, 2010
Gilpin County
Colorado

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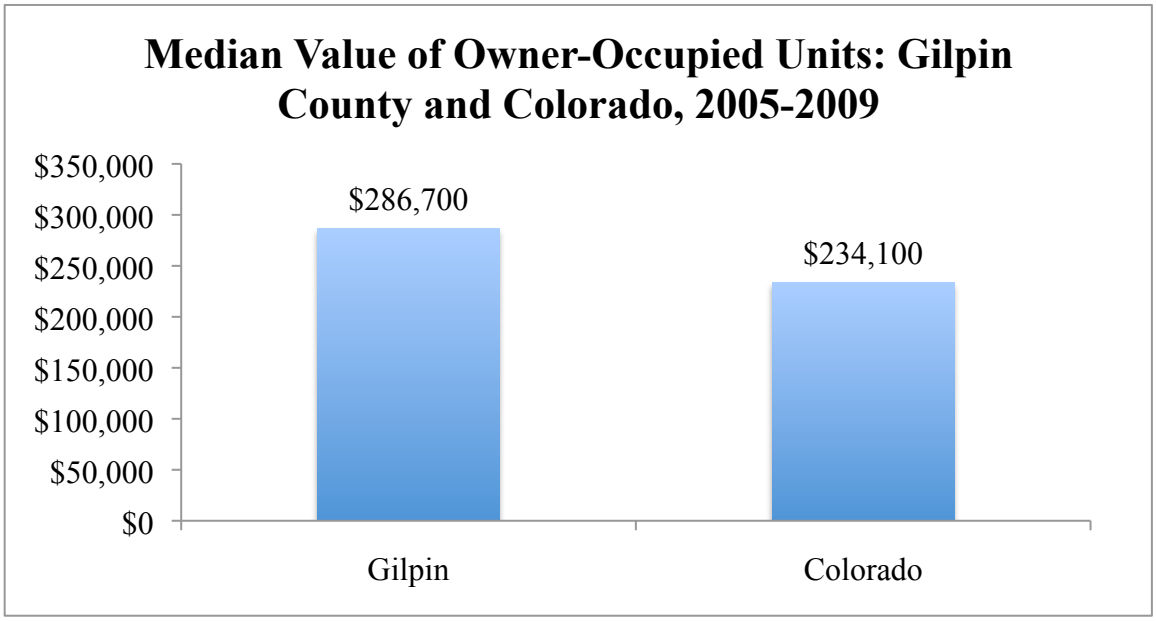
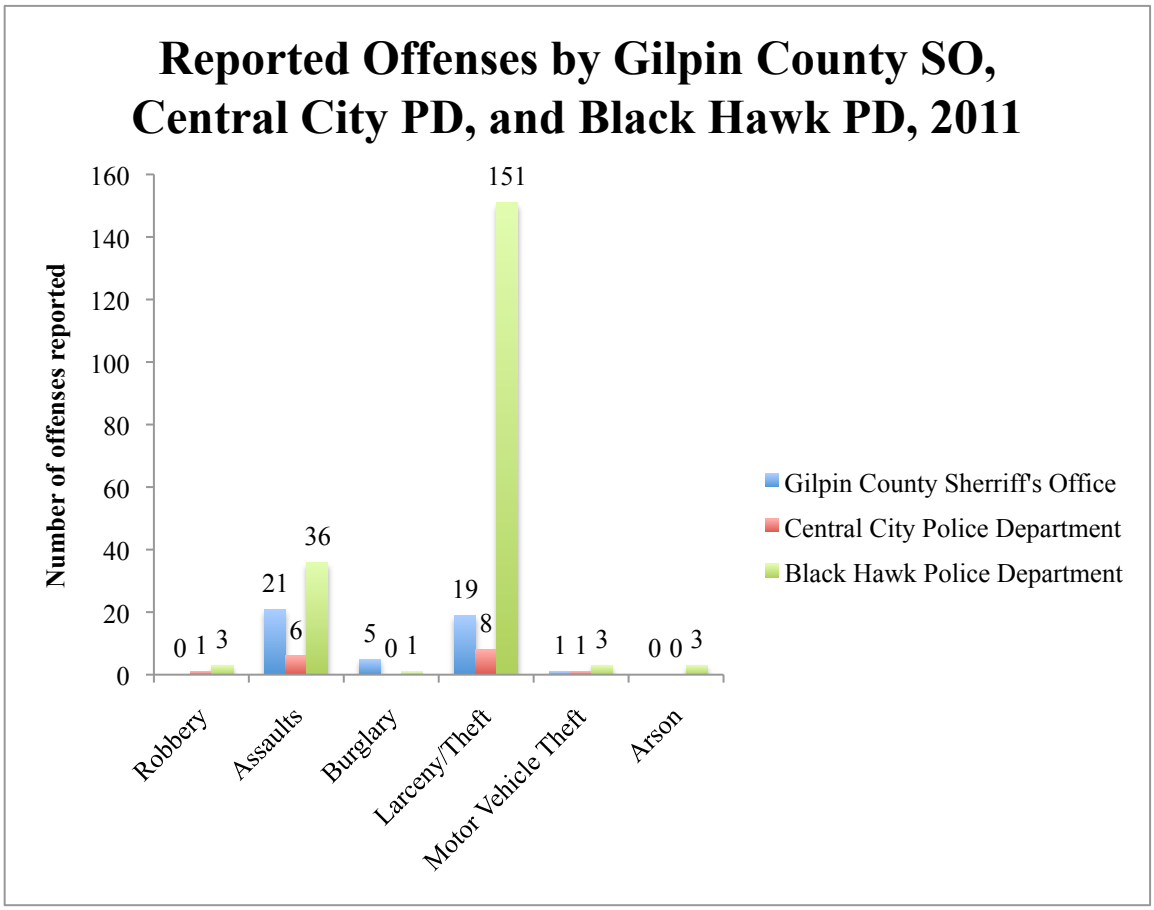
Housing

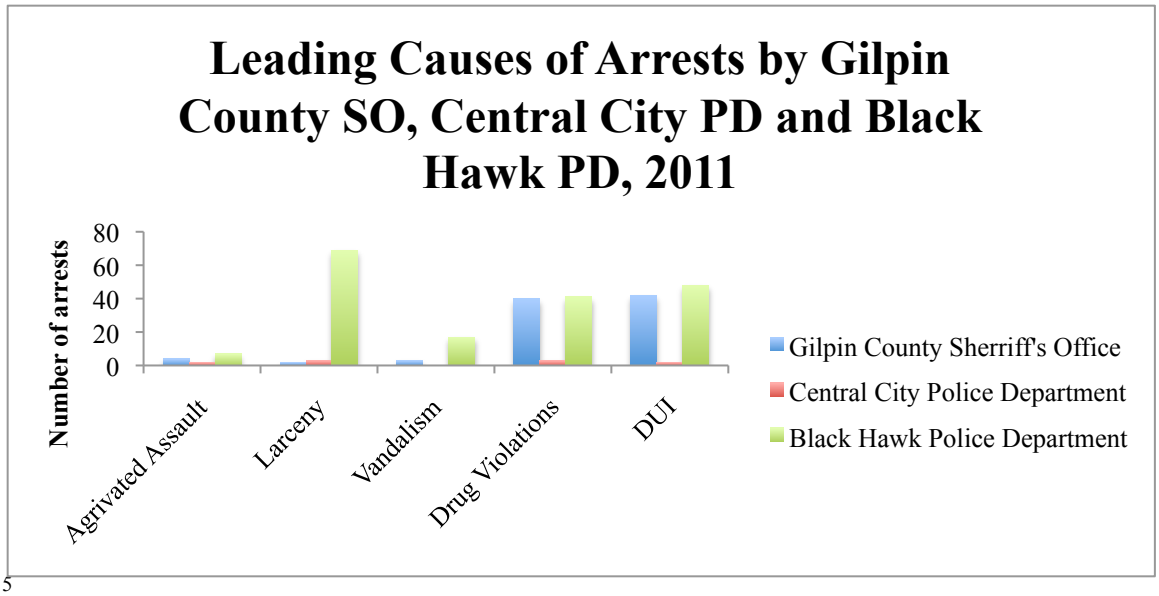

Median Value of Owner-Occupied Units: Gilpin County and Colorado, 2005-2009
$350,000
$300,000
$250,000
$200,000
$150,000
$100,000
$50,000
$0
$286,700
$234,100
Gilpin
Colorado

Crime and Victim Services

Adult and juvenile crime rates are higher in Gilpin County than in Colorado. Adult violent crime rate in Gilpin County measured in 2010 was 379.3 per 100,000 population versus 156.7 per 100,000 population in Colorado. Juvenile violent crime rate in Gilpin County in 2010 was 256.4 per 100,000 populations versus 158.9 per 100,000 population in Colorado.[4] These crime rates are based on arrests that occurred in Gilpin County, but do not distinguish whether arrests were of residents or non-residents.



This data does not distinguish whether offenses were committed by residents or non-residents.



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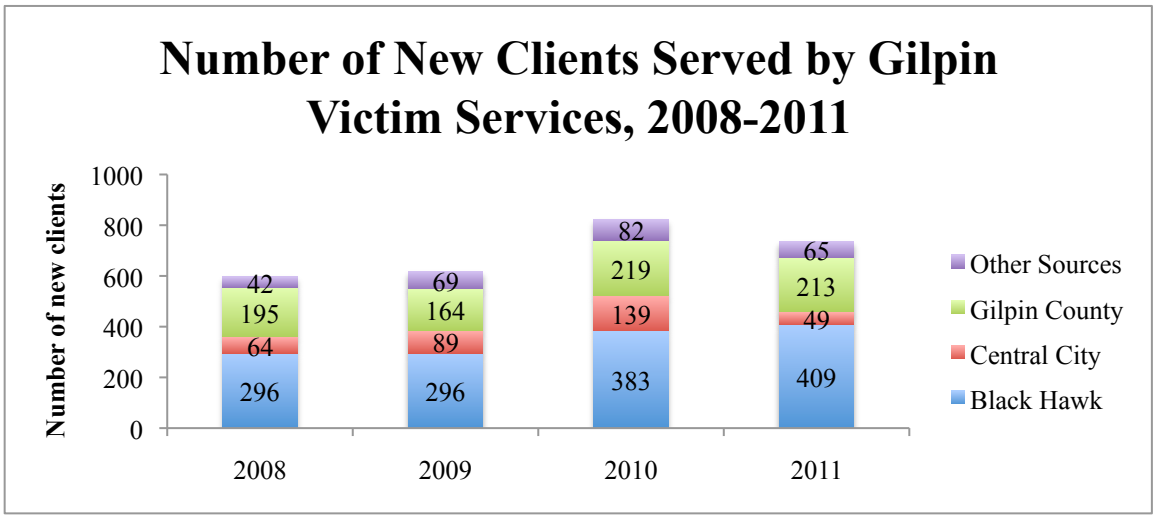
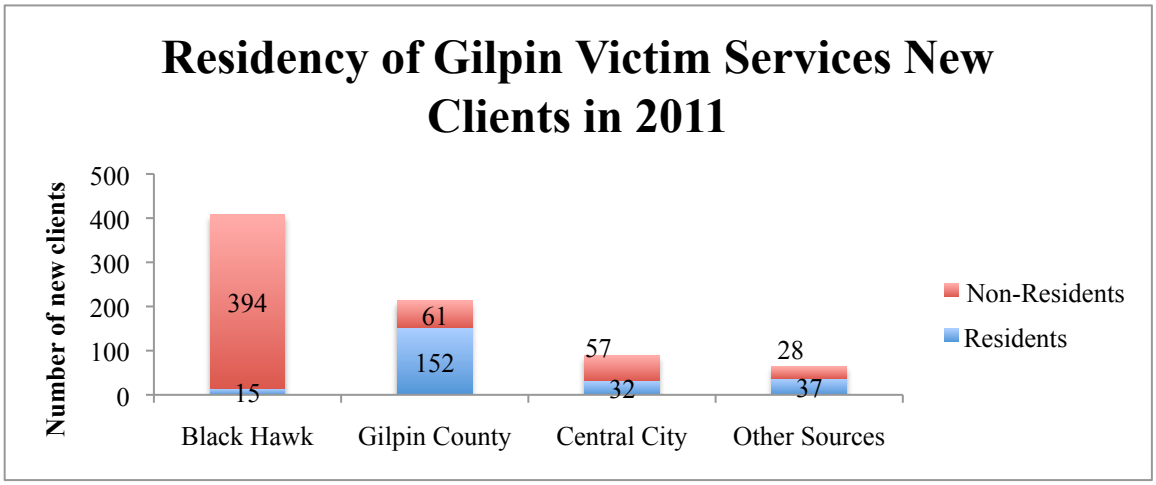
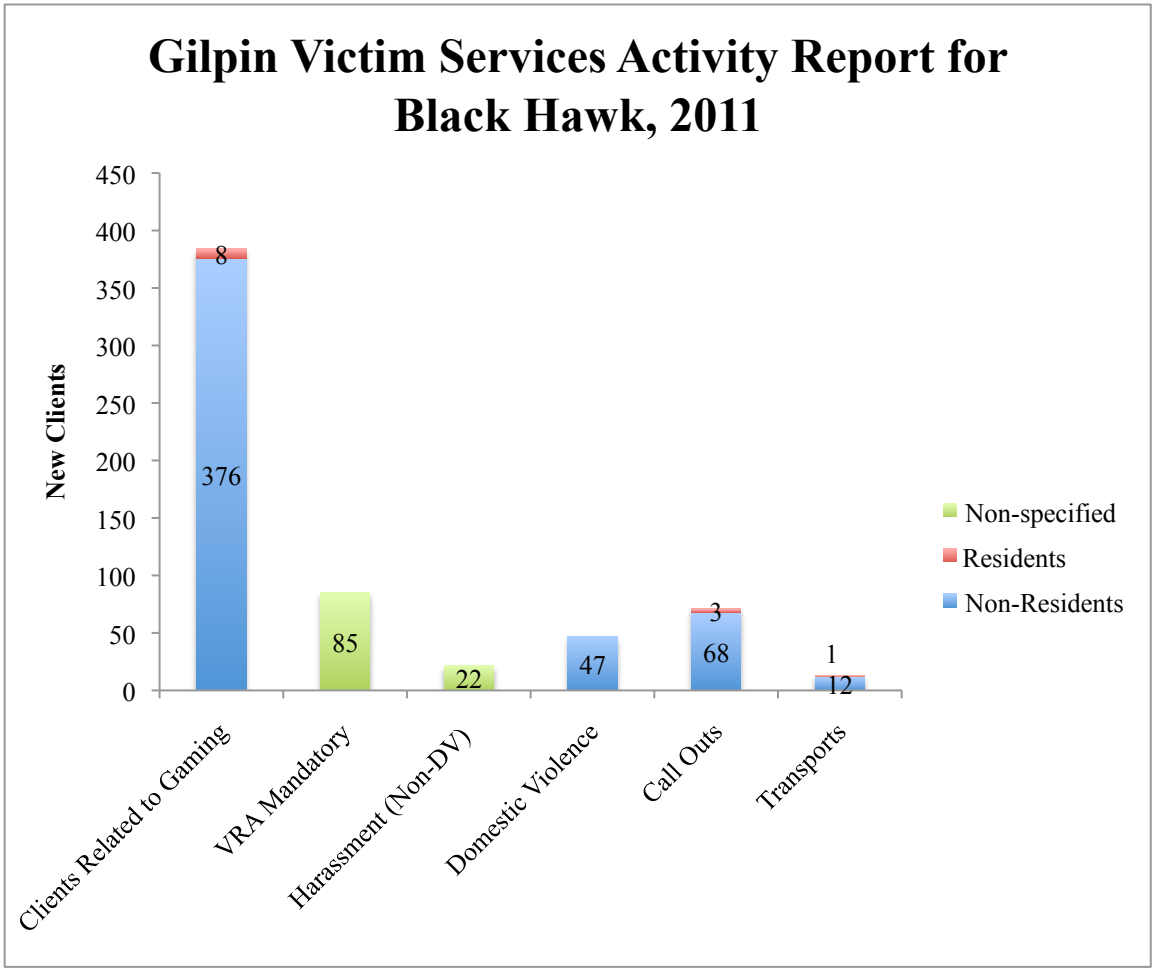
This data does not distinguish whether arrests were to residents or non-residents.

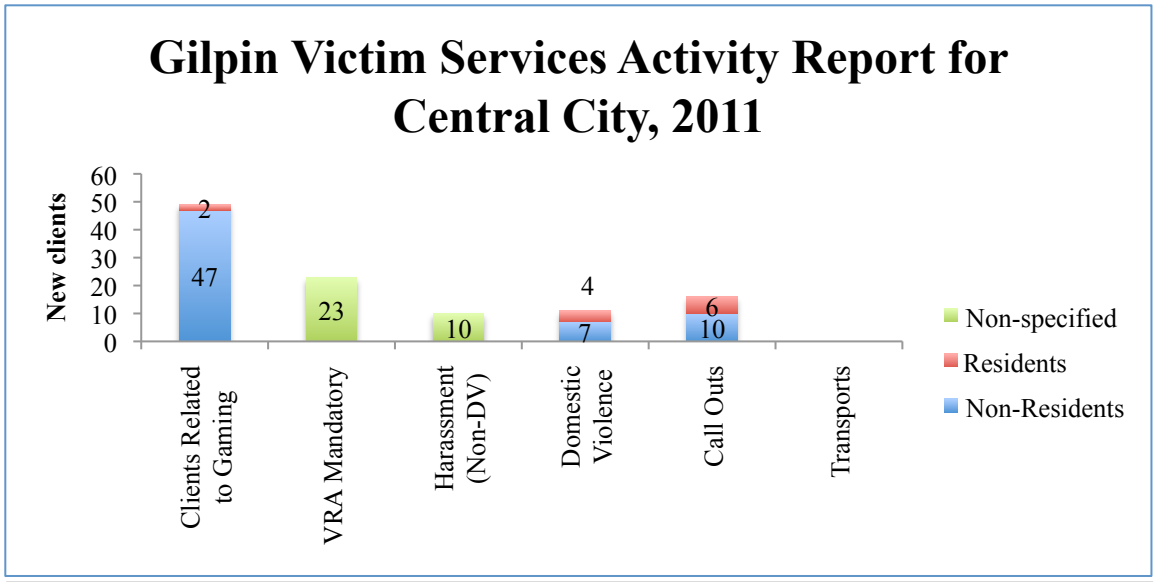


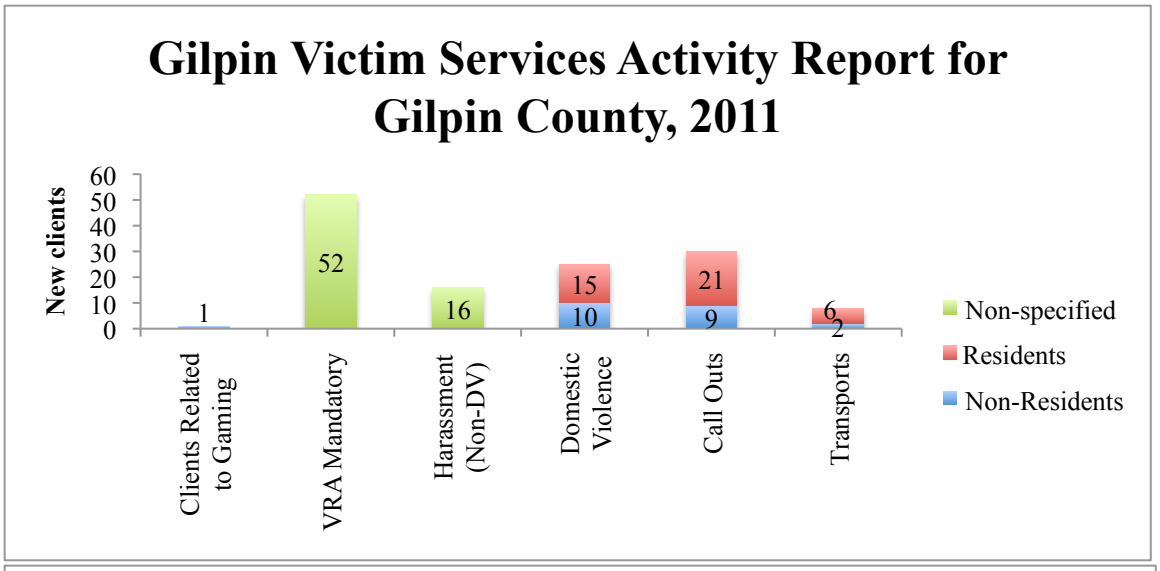
See the chart below to understand the breakdown of clients who were residents versus non-residents in 2011.

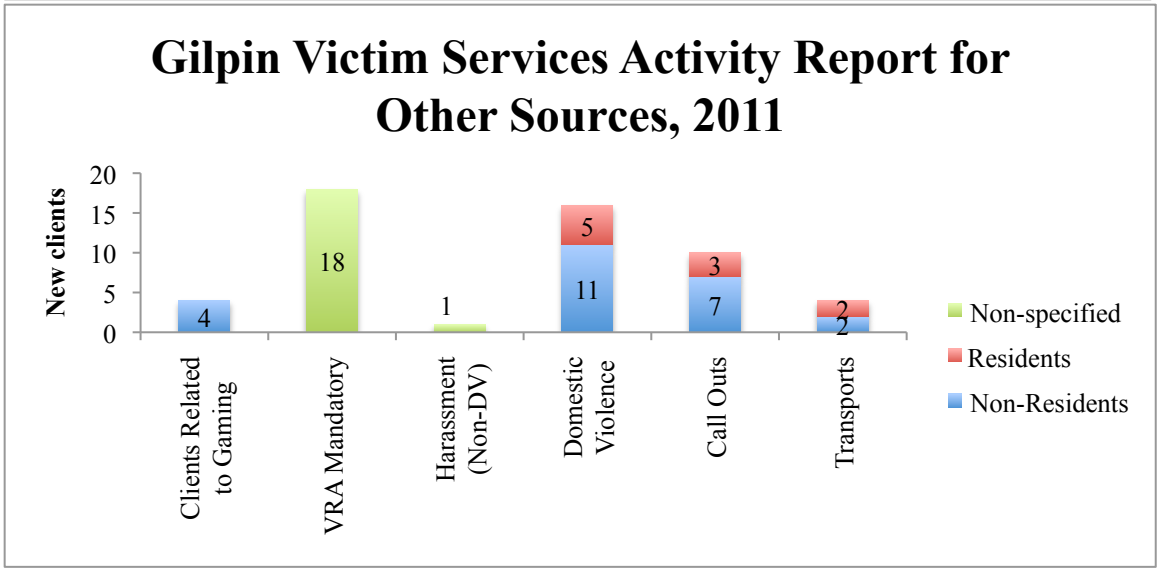


The vast majority of new clients in Black Hawk were non-residents and Central City served more non-residents than residents. Gilpin County and other sources served more residents than non-residents.




Gilpin Victim Services Activity Report for Central City, 2011
New clients
60
50
40
30
20
10
0
2
47
23
10
4
7
6
10
Clients Related to Gaming
VRA Mandatory
Harassment (Non-DV)
Domestic Violence
Call Outs
Transports
Non-specified
Residents
Non-Residents

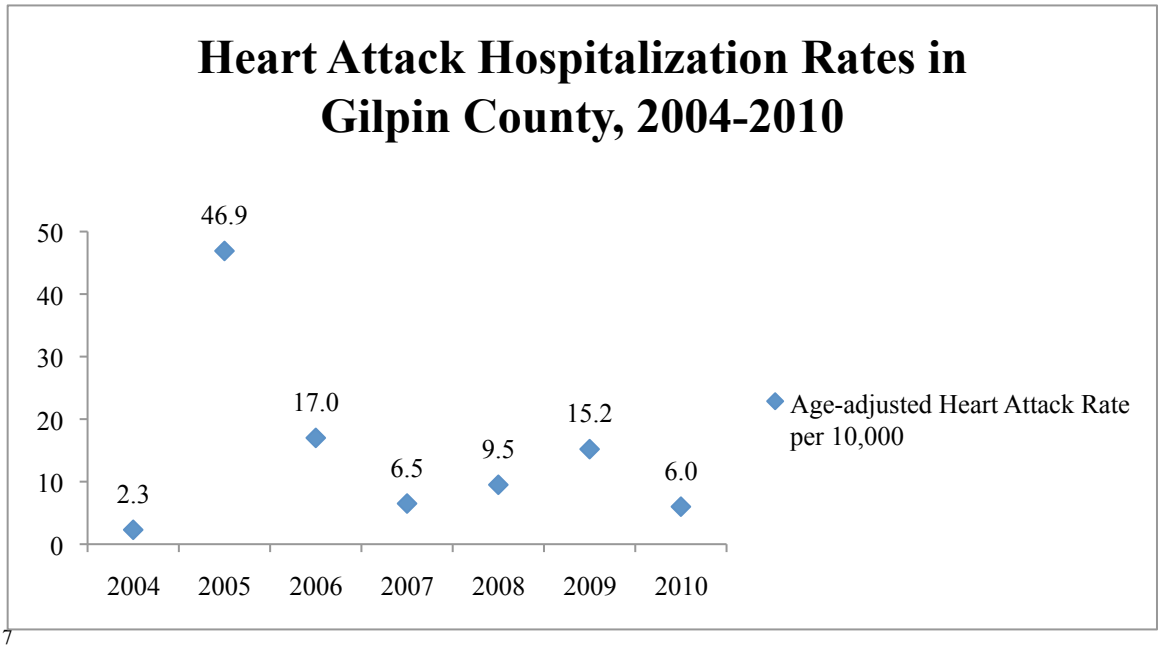

Gilpin Victim Services Activity Report for Gilpin County, 2011
New clients
60
50
40
30
20
10
0
1
52
16
15
10
21
9
6
2
Clients Related to Gaming
VRA Mandatory
Harassment (Non-DV)
Domestic Violence
Call Outs
Transports
Non-specified
Residents
Non-Residents


Gilpin Victim Services Activity Report for Other Sources, 2011
New clients
20
15
10
5
0
4
18
1
5
11
3
7
2
2
Clients Related to Gaming
VRA Mandatory
Harassment (Non-DV)
Domestic Violence
Call Outs
Transports
Non-specified
Residents
Non-Residents

Morbidity & Mortality

Leading Causes of Death in Gilpin County and Colorado, 2010[6]				
	Gilpin County		Colorado	
	Number of Deaths	Age-Adjusted Rate	Number of Deaths	Age-Adjusted Rate
All Causes	27	693.4	31,435	682.1
Cardiovascular Disease	8	252.4	8,283	181.6
Heart Disease	7	241.1	6,029	132.6
Malignant Neoplasms	8	136.0	7,029	145.9
Chronic Lower Respiratory Disease			2,119	49.7
Unintentional Injuries			2,102	43.4

Cardiovascular disease and cancer were the leading causes of death in Gilpin County in 2011, closely followed by heart disease.



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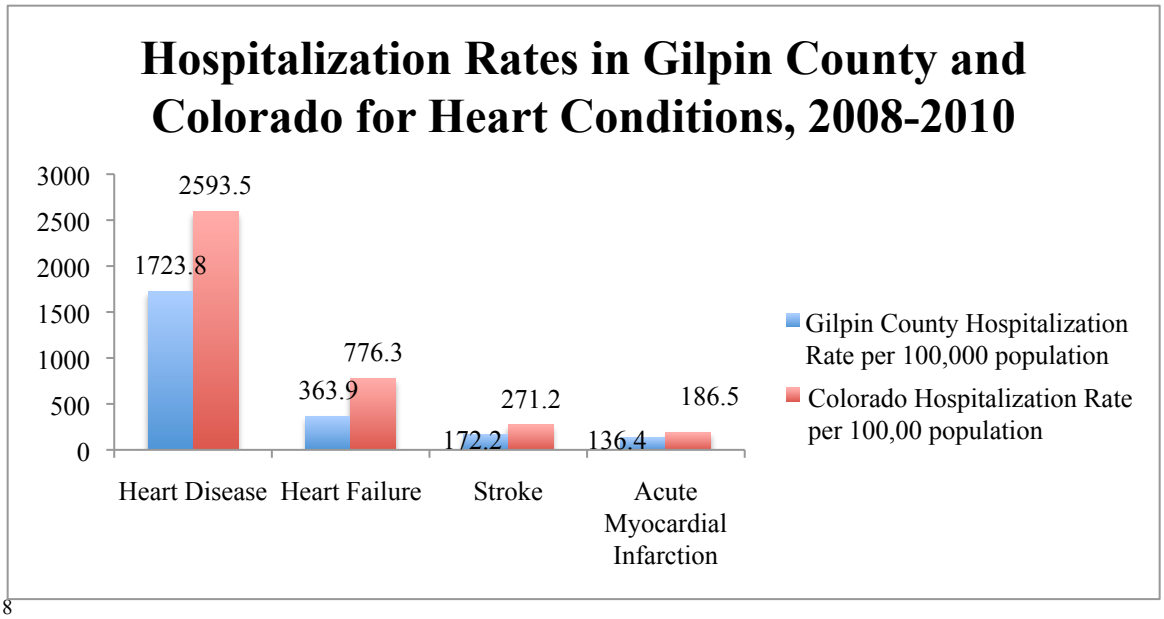
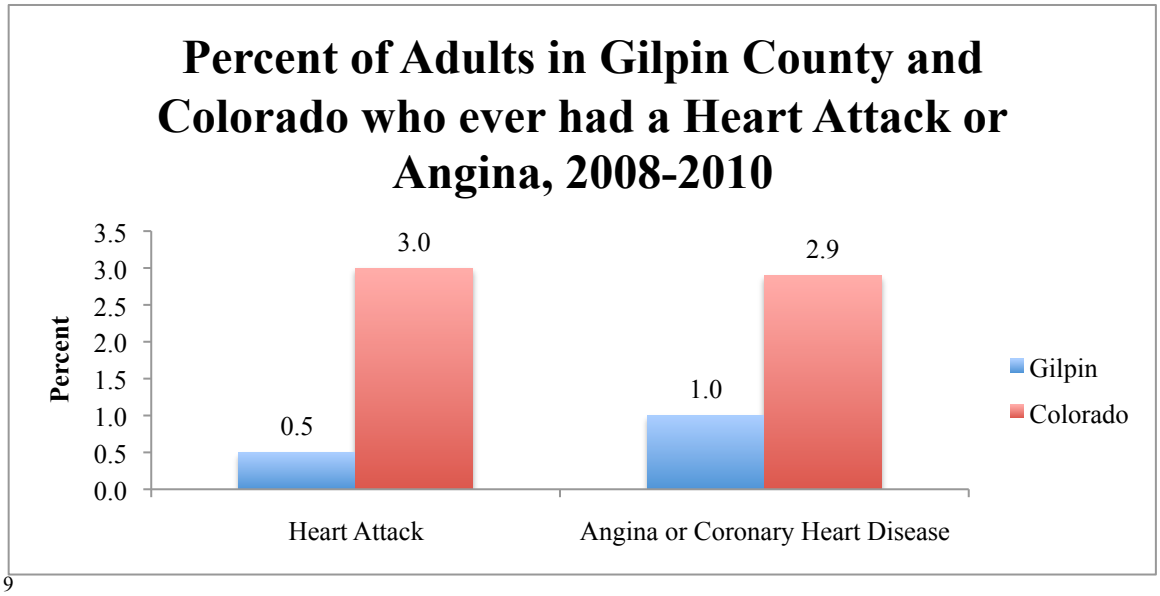

Hospitalization Rates in Gilpin County and Colorado for Heart Conditions, 2008-2010
3000
2500
2000
1500
1000
500
0
2593.5
1723.8
776.3
363.9
271.2
172.2
186.5
136.4
Heart Disease
Heart Failure
Stroke
Acute Myocardial Infarction
Gilpin County Hospitalization Rate per 100,000 population
Colorado Hospitalization Rate per 100,00 population

8


Percent of Adults in Gilpin County and Colorado who ever had a Heart Attack or Angina, 2008-2010
Percent
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
3.0
0.5
2.9
1.0
Heart Attack
Angina or Coronary Heart Disease
Gilpin
Colorado

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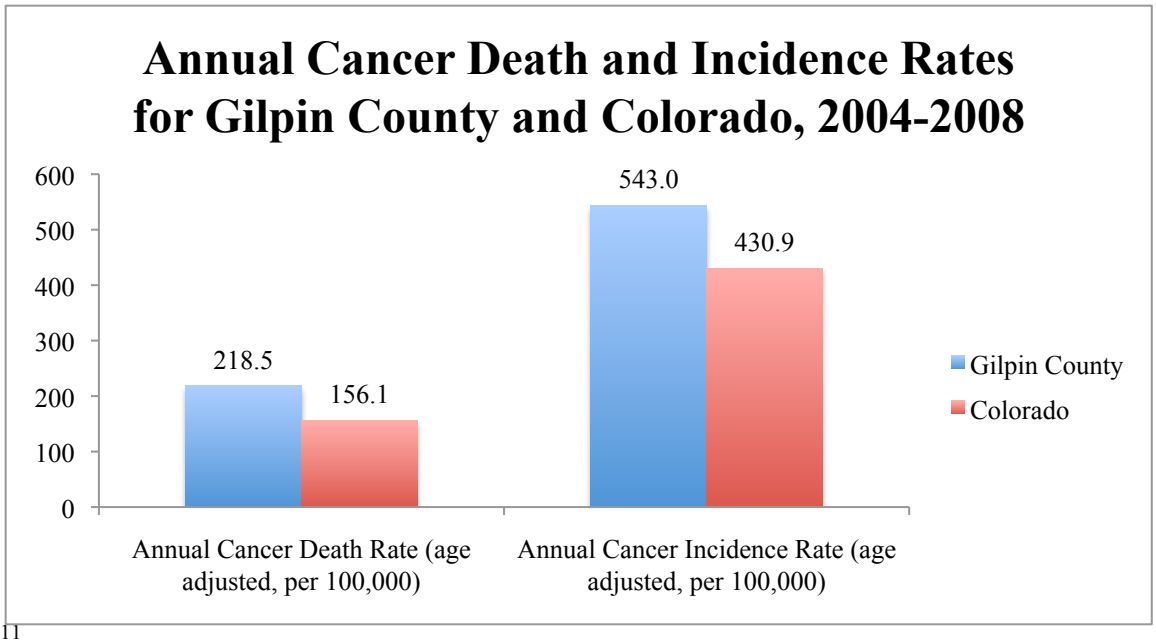
Clients Served by Colorado Heart Healthy Solutions in Gilpin County, January-December 2011[10]	
Summary Data	
Number of clients screened	93
Percent of clients at-risk	53%
Demographics of clients screened	
Average age	57.5 years
Female	55.9%
Male	44.1%
Underserved*	33.0%
Has health insurance	73.1%
Risk profile of clients served	
Framingham risk- moderate	18.3%
Framingham risk- high	11.8%
High blood pressure	12.9%
High cholesterol	40.9%
Overweight or obese	48.8%
Currently smoke	14.0%
Consume high fiber foods less than 5 times per day	67.7%
Consume high fat foods more than once per week	81.7%
Engage in physical activity less than 3 times per week	54.8%

*People who face disadvantages because of social, economic and/or geographic factors.



[11]

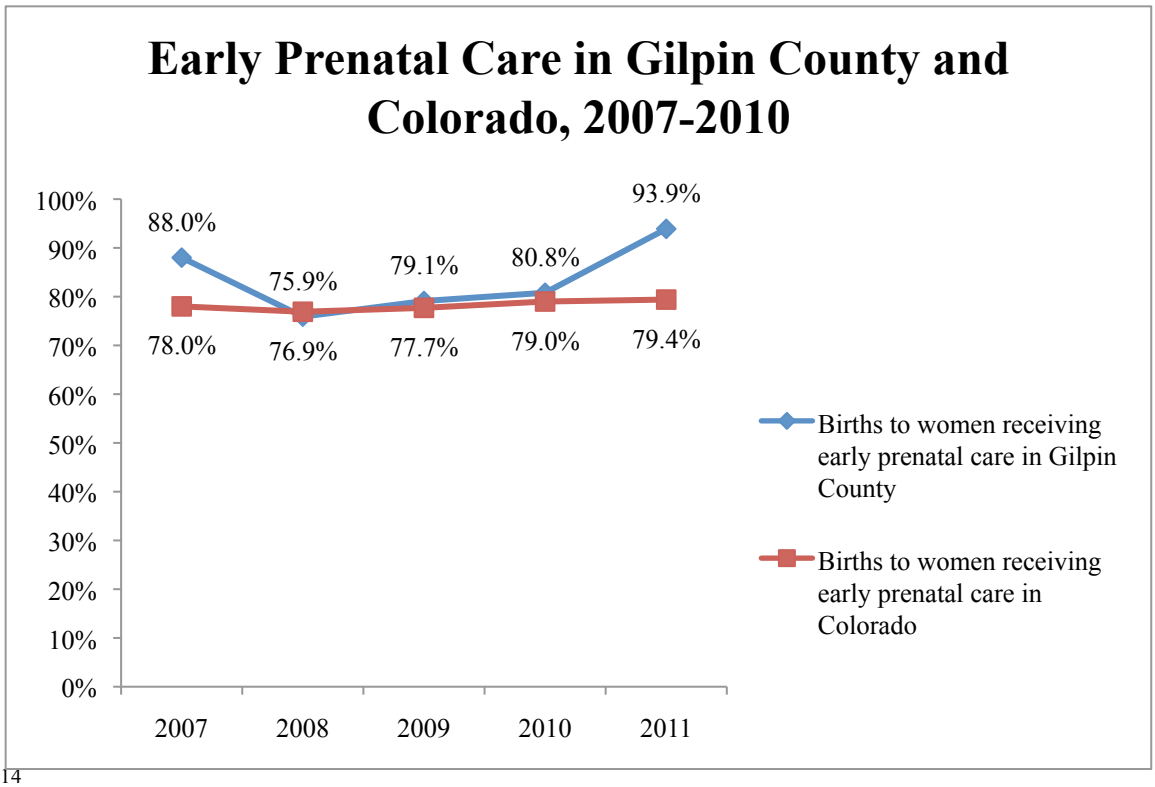
Cancer is the second leading cause of death in Gilpin County and the age adjusted cancer death rate and incidence rates are higher in Gilpin County compared with Colorado from 2004-2008. Gilpin had the second highest cancer death rate in the state and the second highest cancer incidence rate in the state according to data from 2004-2008, However, according to data from 2005-2009, Gilpin has the 19th highest cancer death rate in Colorado. These major fluctuations in ranking are due to Gilpin's small size and resulting wide confidence interval around the annual cancer death rate statistic.

Death Rate Report for Colorado by County, death years through 2009[12]							
Region	**Met Healthy People Objective of 160.6?**	**Annual Death Rate Over rate period deaths per 100,000 (95% Confidence Interval)**	**Average Deaths Per Year over rate period**	**Rate Period**	**Recent Trend**	**Recent Average Annual Percent Change in Death Rates (95% Confidence Interval)**	**Recent Trend Period**
United States	No	178.7 (178.4, 178.9)	563,025	2005-2009	falling ↓	-1.6 (-1.7, -1.5)	2005-2009
Colorado	Yes	154.6 (152.9, 156.3)	6,646	2005-2009	falling ↓	-1.3 (-1.5, -1.1)	2005-2009
Gilpin County	No	171.3 (108.2, 254.8)	7	2005-2009	**	**	**

** Data are too sparse to provide stable estimates of annual rates needed to calculate trend.

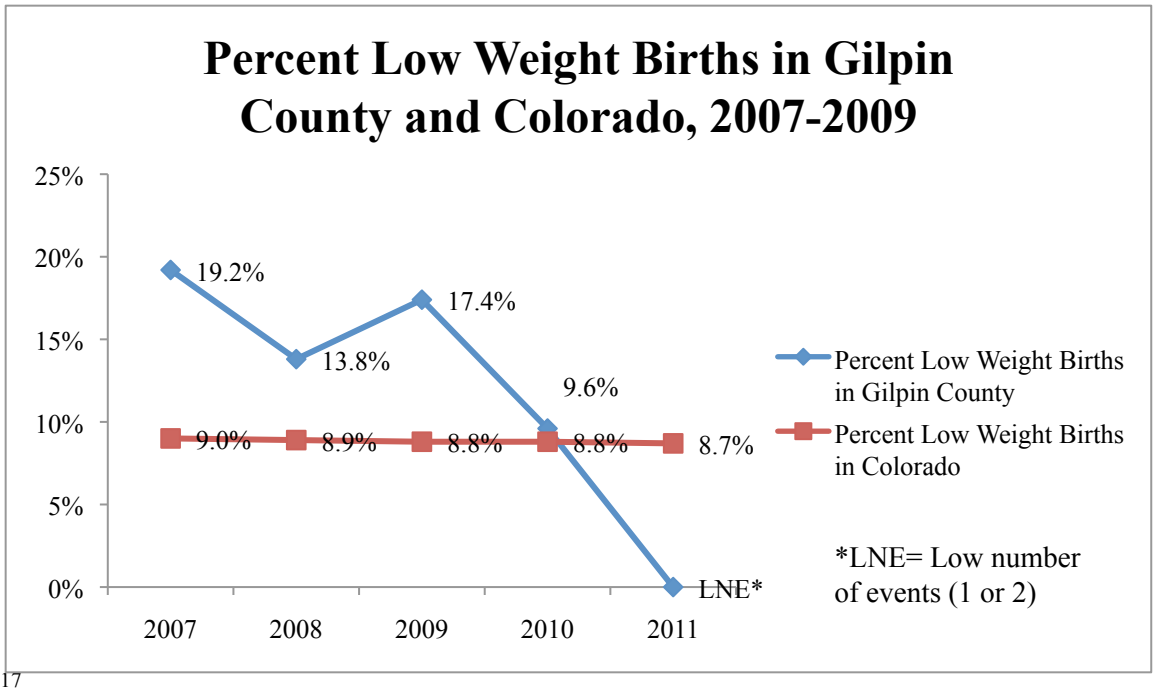
Maternal, Child Health and Adolescent Health

The health of mothers, infants and children is important because health behaviors before, during and after pregnancy have long lasting health effects for both mother and child. The percent of pregnancies resulting in live births that were unintended from 2007-2009 in Region 17 was 31.6 compared to 37.7 in Colorado.[13]



[14]

Gilpin County's infant mortality rate for 2010 could not be calculated due to a low number of events. The teen fertility rate per 1,000 women ages 15-17 years old, (2007-2009) in Gilpin County is 11.2 compared to Colorado at 21.2. Inadequate weight gain for mothers in Gilpin County was measured at 15.2% in 2009 which represents 7 individuals.[15] The percent of live births to mothers who were overweight or obese based on BMI before pregnancy (2007-2009) in Gilpin County was 35.3%, which is lower than the Colorado rate of 42.2%.[16]



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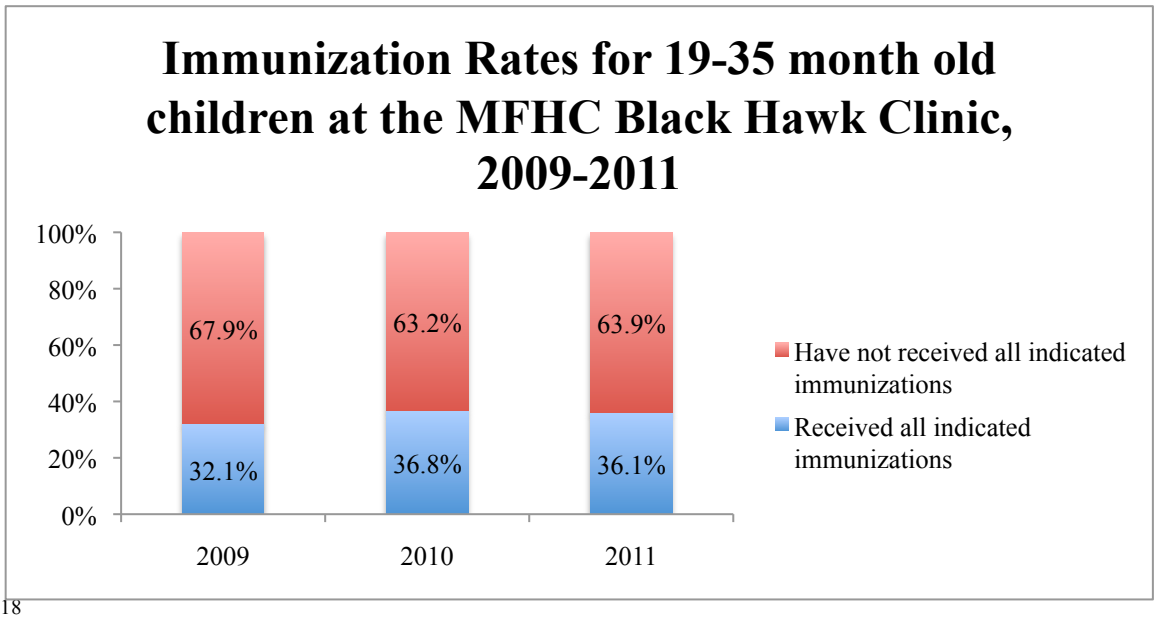

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56.1% of women reported that they were still breastfeeding their child at 6 months of age (2006-2010), but the rate for Gilpin County could not be calculated. Colorado.[19] Only 8.9% of children under 5 enrolled in WIC in 2010 in Gilpin compared to Colorado at 29.6%.[20] Gilpin County ranked as a "high risk" county in the 2011 Colorado Early Childhood Needs Assessment based on higher than average percent of premature birth weight, low birth weight and infant mortality, and a higher rate of reported crimes.[21]

Colorado Early Childhood Needs Assessment
Gilpin County Profile, 2011

	Gilpin	Colorado
POPULATION		
Total Population (2010)	5,690	5,160,189
Early Childhood Population (0 through 8 Years of Age) (2010)	604	652,974
Early Childhood Population (0 through 8 Years of Age) with Hispanic Ethnicity (2010)	47	200,378
Speaks Language Other than English at Home (2005 - 2009)	8.1%	16.6%
EARLY LEARNING		
3rd Grade Students Scoring Proficient or Above on Reading CSAP (2010)	85.7%	69.8%
3rd Grade Students Scoring Proficient or Above on Math CSAP (2010)	75.0%	70.6%
Individual Family Service Plan (0 through 3 Years of Age)§ (October 1, 2009)	2.1%	2.4%
Individual Education Plan (3 through 5 Years of Age)‡ (December 1, 2010)	NA	4.6%
Days of Full Attendance During Elementary School Year (2010)	92.9%	94.7%
Kindergarteners in Full-Day Program (2010)	63.3%	64.0%
FAMILY SUPPORT		
Families NOT Reading to Children 3 or More Days per week† (2006 - 2010)	*	9.9%
Families Relying on Low Cost Food† (2008 - 2010)	16.8%	26.9%
SOCIAL, EMOTIONAL, AND MENTAL HEALTH		
Children with Mental Health/Behavioral Issues† (2008 - 2010)	23.1%	23.1%
Children with Mental Health/Behavioral Issues Receiving Treatment† (2008 - 2010)	*	47.6%
3 or More Stressful Events During Pregnancy† (2007 - 2009)	27.8%	26.8%
Health Care Provider talked to Mother about Pregnancy-related Depression† (2009)	*	72.6%
Out of Home Placements (2010) Rate per 1,000	7.3	9.3
HEALTH		
Children Exposed to Secondhand Smoke† (2008 - 2010)	8.7%	6.8%
Women Smoking During the Last 3 Month of Pregnancy† (2007 - 2009)	11.3%	9.2%
Breastfeeding at 6 Months of Age† (2006 - 2010)	*	56.1%
Overweight and Obese Children† (2008 - 2010)	17.8%	25.8%
Provider Screening for Developmental, Communication, and Social Behavior Issues† (2008 - 2010)	*	45.0%
Dental Visit by Age 1† (2006 - 2010)	*	2.6%
Children with Health Insurance† (2008 - 2010)	92.0%	92.7%

§Regional data provided for all counties except Adams, Denver, Larimer, Mesa, Pueblo, and Weld

‡Individual Education Plans for services provided by BOCES are excluded

†Health Statistics Regional data provided (http://www.chd.dphe.state.co.us/healthProfiles.aspx)

*Data suppressed

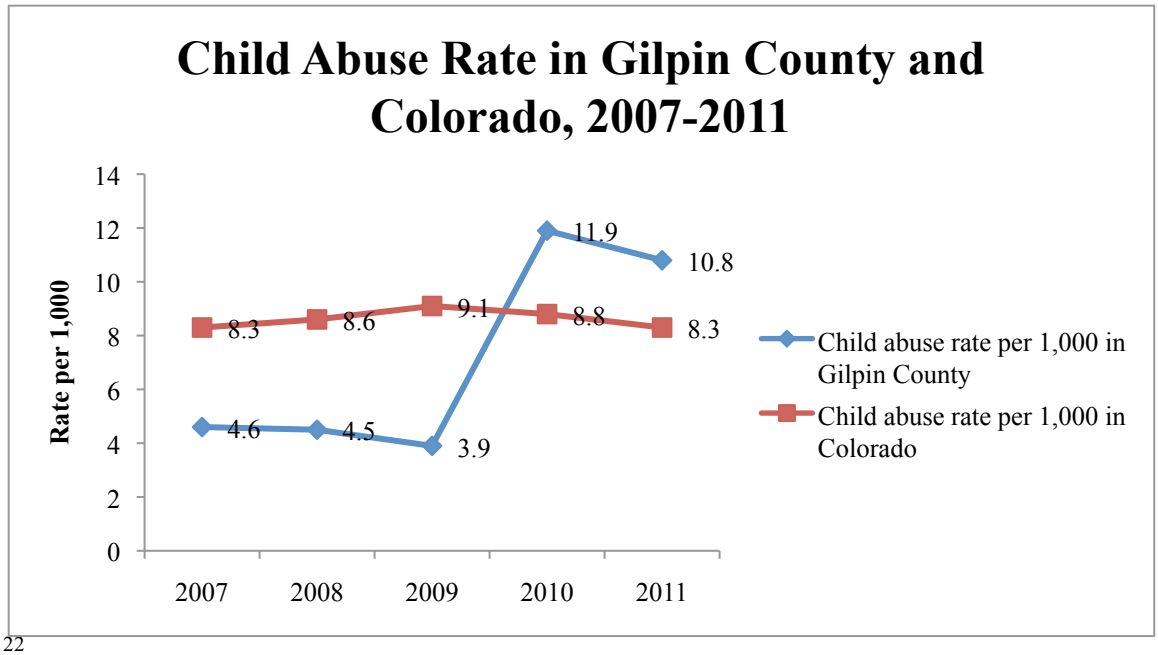
NA = Data Not Available

--No Data Collected

2012 Kids Count in Colorado Gilpin County Profile

	Gilpin	Colorado
POPULATION		
2010 Total Population	5,478	5,050,870
2010 Child Population (Under 18)	964	1,227,901
2010 Child Population as a Percentage of Total Population (Under 18)	17.6%	24.3%
2010 Young Child Population (Under 5)	281	343,538
2010 School-Aged Population (Ages 5-17)	683	884,363
VULNERABLE FAMILIES		
2010 Births to Single Women	23.5%	24.2%
2010 Births to Women with Less Than 12 Years Education	13.7%	18.5%
2010 Teen Births (rate per 1,000 female teens 15-19)	33.7	33.1
2010 Three Risk Factor Births	LNE	5.6%
2010 Out-of-Home Placements (rate per 1,000)	7.3	9.3
FY 10-11 Students Served by the McKinney-Vento Homeless Ed. Program	0	22,959
FAMILY ECONOMICS AND SUPPORTS		
2011 Children Qualifying for Free or Reduced Price Lunch	30.5%	40.9%
2011 Children Qualifying for Free Lunch	23.2%	33.8%
2011 Children Qualifying for Reduced Price Lunch	7.4%	7.1%
2010 Median Household Income	63,024	54,411
2010 Children (Under 18) in Poverty	10.5%	17.1%
2010 School-Aged Children (Ages 5-17) in Poverty	7.8%	15.1%
2010 Children Receiving TANF Basic Cash Assistance Payments	7.3%	4.3%
2010 Children Receiving WIC Program Vouchers	8.9%	29.6%
CHILD AND MATERNAL HEALTH		
2010 Low Weight Births	9.6%	8.8%
2010 Early Prenatal Care	80.8%	79.0%
2010 Women Smoking During Pregnancy	9.6%	8.1%
2010 Child Abuse and Neglect (rate per 1,000)	11.9	8.8
2010 Infant Mortality (rate per 1,000)	LNE	5.9
2010 Child (Ages 1-14) Deaths (rate per 100,000)	LNE	16.8
2010 Teen (Ages 15-19) Deaths (rate per 100,000)	LNE	47.1
2010 Child (Ages 1-14) Injury Deaths (rate per 100,000)	LNE	7.4
2010 Teen (Ages 15-19) Injury Deaths (rate per 100,000)	LNE	37.1
FY 10-11 Children (Ages 0-18) Enrolled in CHP+	10.6%	8.5%
FY 10-11 Children (Ages 0-18) Enrolled in Medicaid	23.8%	29.5%
2010 Uninsured Children (Ages 0-18)	6.1%	10.3%
EDUCATION		
Fall 2011 K-12 Pupil Enrollment	380	854,265
Fall 2011 Kindergarteners in a Full-Day Program	79.6%	67.2%
Fall 2011 English Language Learners	0.5%	14.4%
2011 High School Graduation Rate	75.0%	73.9%
2011 4th Grade Students NOT Proficient in Reading	23.1%	34.7%
2011 Students Scoring Proficient or Above on the Math CSAP	55.8%	55.7%
2011 Students Scoring Proficient or Above on the Reading CSAP	69.0%	67.9%
2011 Students Scoring Proficient or Above on the Science CSAP	44.6%	47.8%
2011 Students Scoring Proficient or Above on the Writing CSAP	52.3%	55.3%

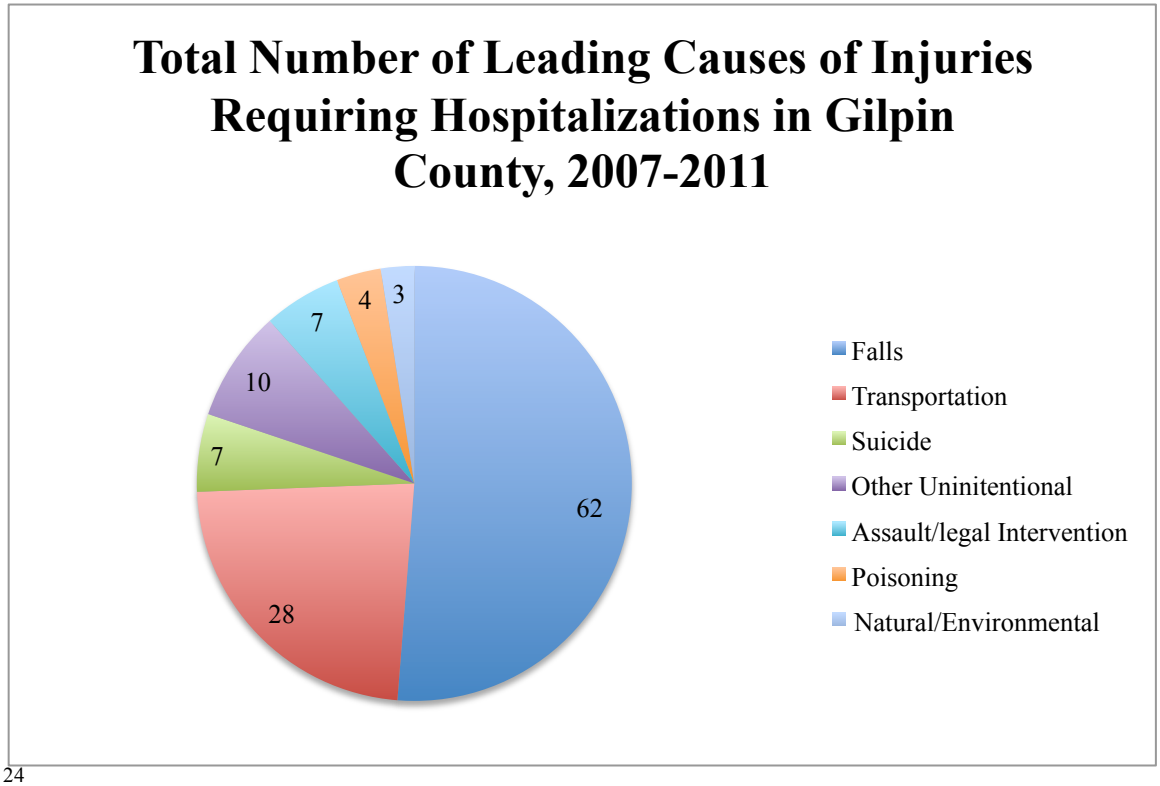
LNE = Low Number of Events
N/A = Not Applicable



22

Out-of-home placements for children 0-4 years of age (FY 2010-2011) was .7% in Gilpin County and 1.1% in Colorado.[23]

Injury

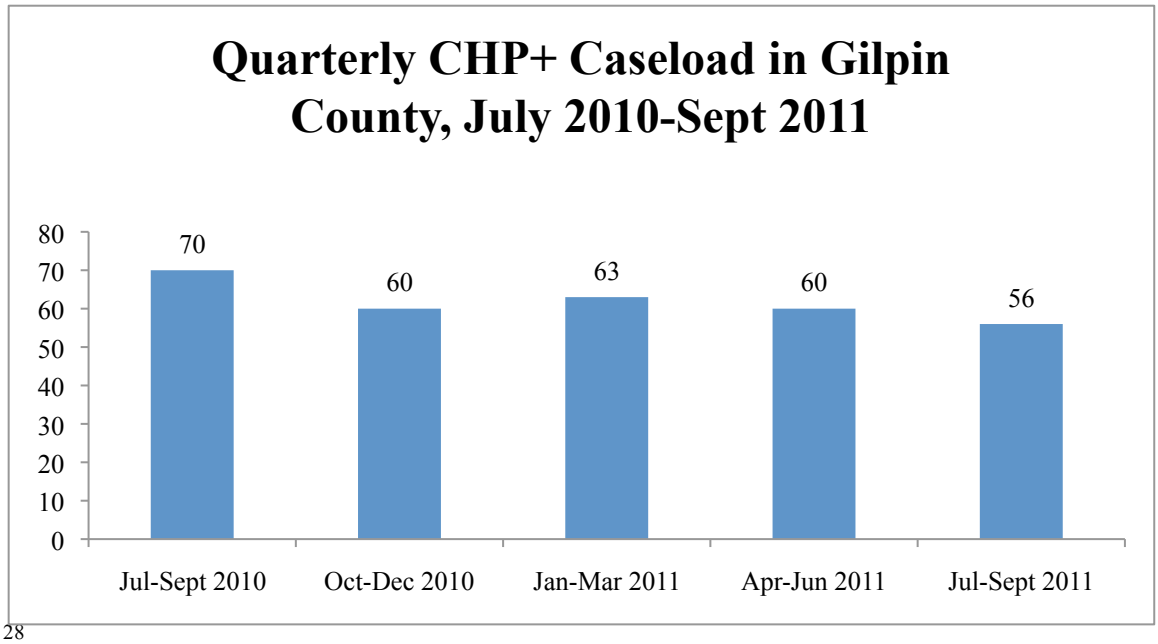


24

The total injury hospitalizations in Gilpin County from 2005-2010 occurred at a rate of 567.2 per 100,000 from 2005-2010, compared to Colorado at a rate of 704.0 per 100,000. Falls are the leading cause of hospitalization in both Gilpin County and Colorado.

Access to Care

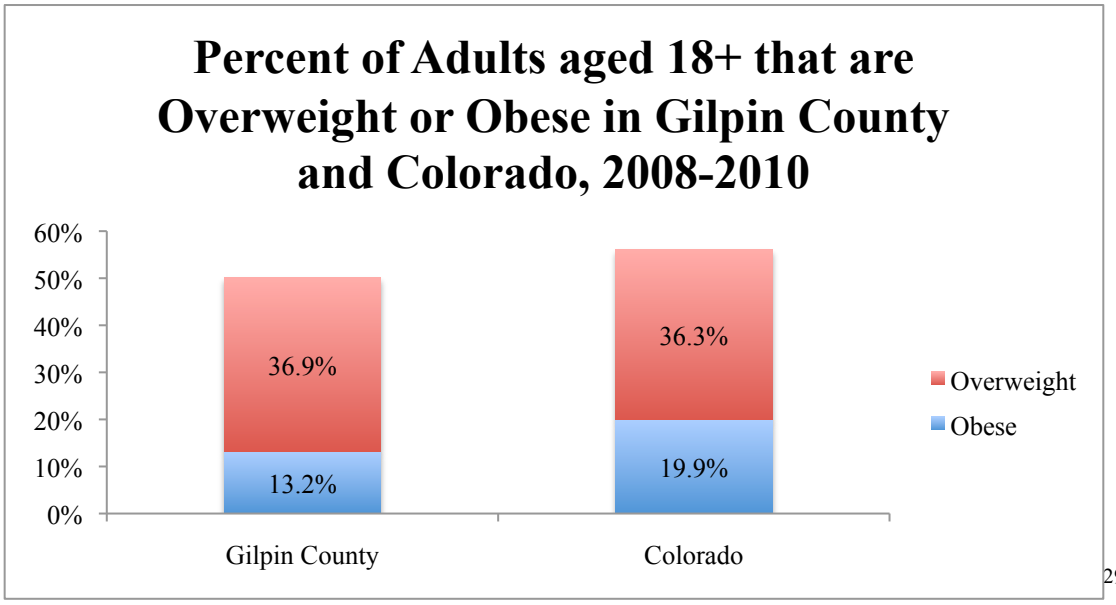
The percent of children that have health insurance in Gilpin County's Region is 92.0% which is similar to the rate throughout Colorado of 92.7% (2008-2010).[25] The early childhood population eligible but not enrolled in Child Health Plan Plus (CHP+) or Medicaid (2008-2009) in Gilpin is 15 out of 421 children ages 0-8, or 3.6%.[26] 33 children in Gilpin County (18 and under) were eligible but not enrolled in Medicaid or CHP in 2010. 24% of children from birth to 18 were enrolled in CHP in 2010.[27] Of the 393 Medicaid Clients in Gilpin County as of 1/31/2012, 218 are age 20 and under.



[28]

Healthy Eating, Active Living & Tobacco

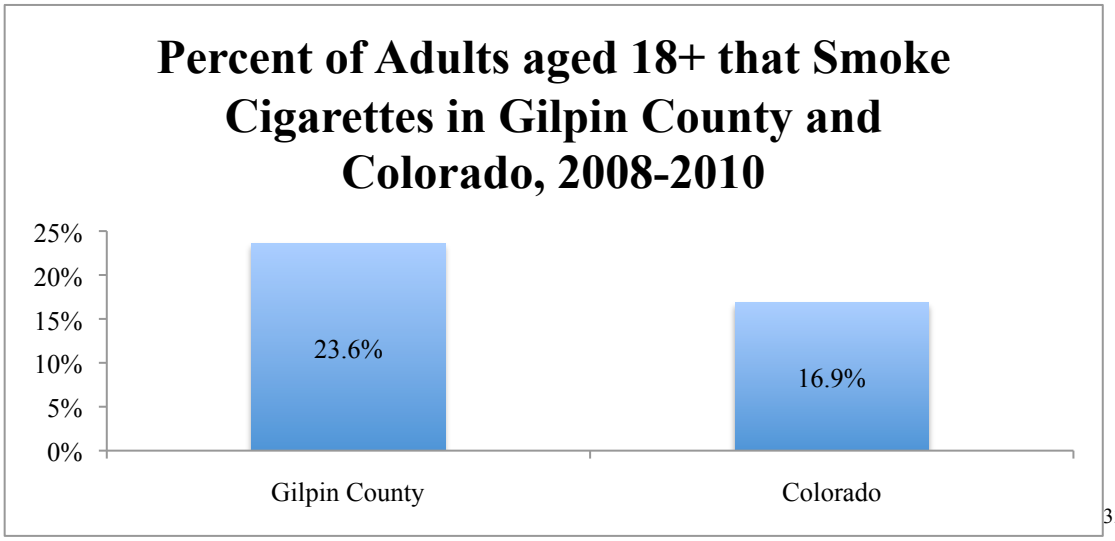
Healthy Weight



[29]

50.1% of adults in Gilpin County are overweight and obese compared to 56.2% in Colorado. 17.8% of children in Gilpin County are overweight or obese Children compared to Colorado at 25.8% (2008-2010).[30] The percent of adults aged 18+ with diabetes (2007-2009) in Gilpin is 2.4% and 5.7% in Colorado.[31] 73% or residents in Gilpin County have had a diabetic screening, less than the national benchmark of 89%.[32]

Tobacco Use



[33]

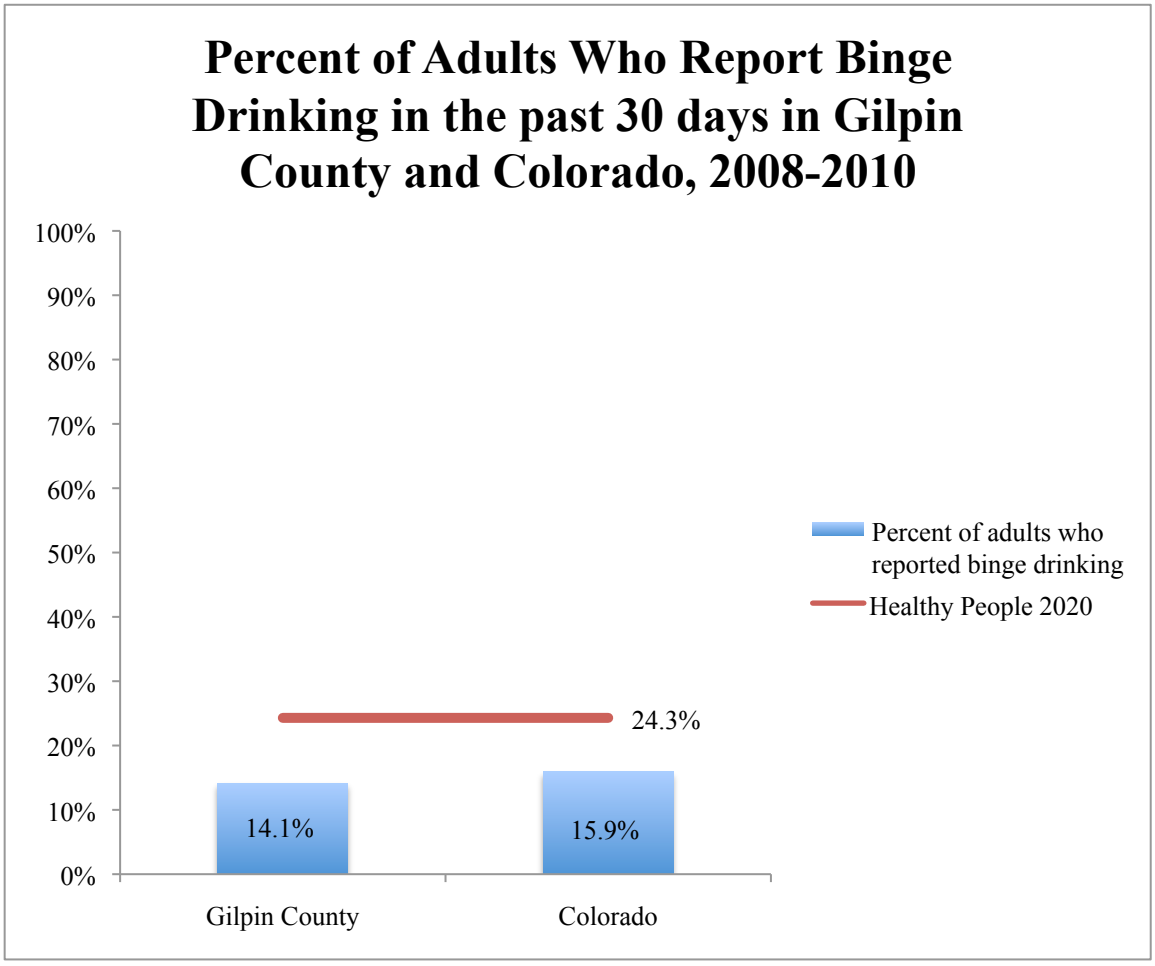
23.6% of adults in Gilpin County aged 18+ report being a smoker, compared to Colorado at 16.9% (2008-2010)[34] Children are exposed to secondhand smoke (2008-2010) in Gilpin, 8.7%, at a higher rate than in Colorado, 6.8%.[35] The percent of adults aged 18+ that currently have asthma (2007-2009) in Gilpin is 26.9%, much higher than Colorado at 8.0%.

Oral Health

A survey of Gilpin County 3rd grade children in 2006-2007 found that 46.7% of children had a history of dental caries, 47.2% had sealants, and 16.6% had untreated decay.[36]

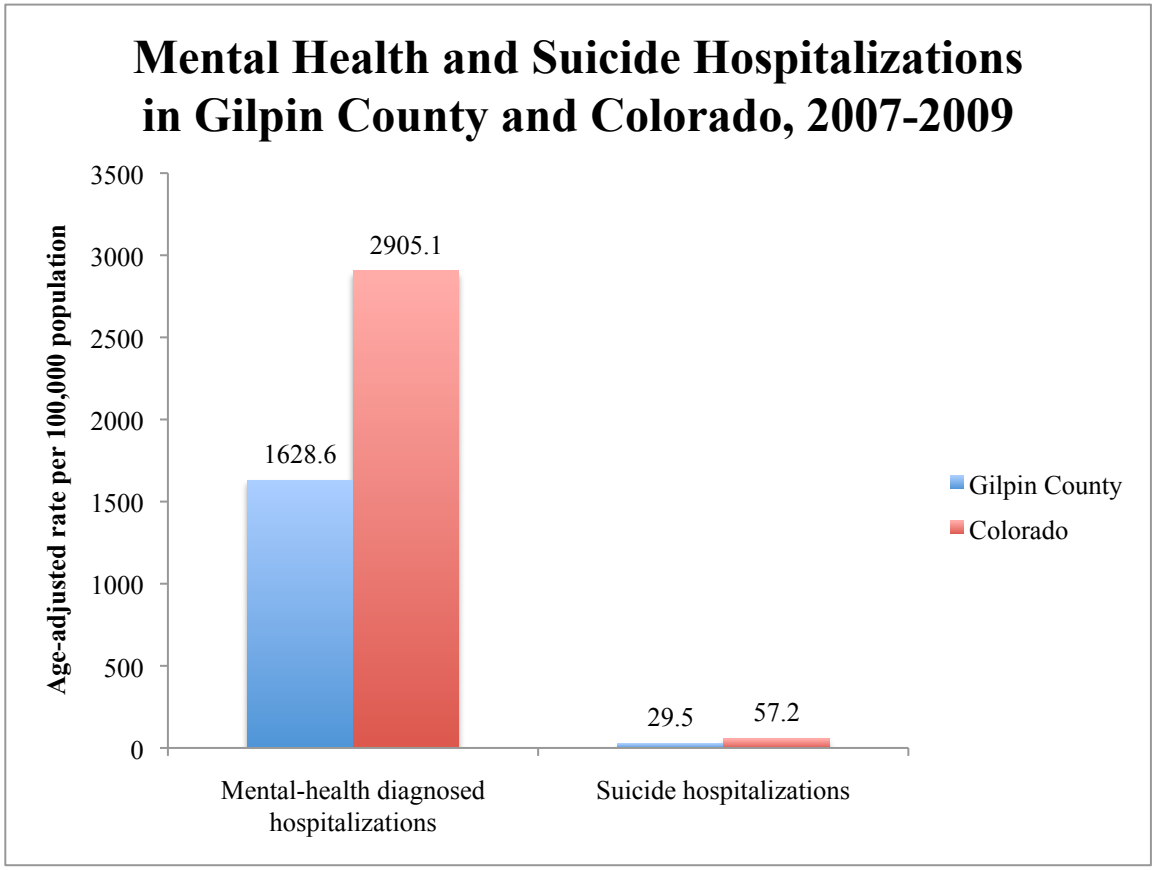
Mental Health & Substance Abuse

Mental health and behavioral issues (Regional data, 2008-2010) were reported in Gilpin at the same rate as Colorado, 23.1%.[37] 337 patients, or less than 1% of patients in Gilpin County are registered with the Medical Marijuana Registry (February 2012). [38] The rate of liquor stores per 10,000 population in Gilpin County (2009) is 3.6 versus 2.3 in Colorado. [39]



Age-adjusted rate of suicide hospitalizations per 100,000 population	2007-2009 Rate (95% Confidence Interval)	2008-2010 Rate (95% Confidence Interval)	2009-2011 Rate (95% Confidence Interval)
Gilpin County	29.5 (8.9-62.2)	37.3 (13.4-73.4)	44.5 (18.0-82.7)
Region 17	34.5 (24.8-44.2)	47.3 (35.3-59.4)	52.3 (39.5-65.1)
Colorado	57.2 (56.0-58.4)	59.6 (58.3-60.8)	57.6 (56.4-58.8)

Region 17 is health statistics region designated by the state of Colorado that includes Clear Creek, Gilpin, Park and Teller counties.



Number of Deaths Attributed to Suicide in Gilpin County, 2002-2011

	Total Deaths	Total Population	Total Crude Death Rate	---Suicide-all	Age-Adj Rate	95% Lower Limit	95% Upper Limit
RECORD YEAR							
2002	*	*	*	*	*	*	*
2003	5	4,851	103.1	5	106.0	9.0	203.1
2004	*	*	*	*	*	*	*
2005	*	*	*	*	*	*	*
2006	*	*	*	*	*	*	*
2007	*	*	*	*	*	*	*
2008	*	*	*	*	*	*	*
2009	*	*	*	*	*	*	*
2010	*	*	*	*	*	*	*
2011	*	*	*	*	*	*	*
All	11	50,708	21.7	11	22.2	8.1	36.2

Rates are per 100,000 population and are adjusted using the direct method applied to 10-year age groups.

Population figures are 2007-based estimates from the Demography Section,

Colorado Department of Local Affairs.

* Indicates there were too few to report.

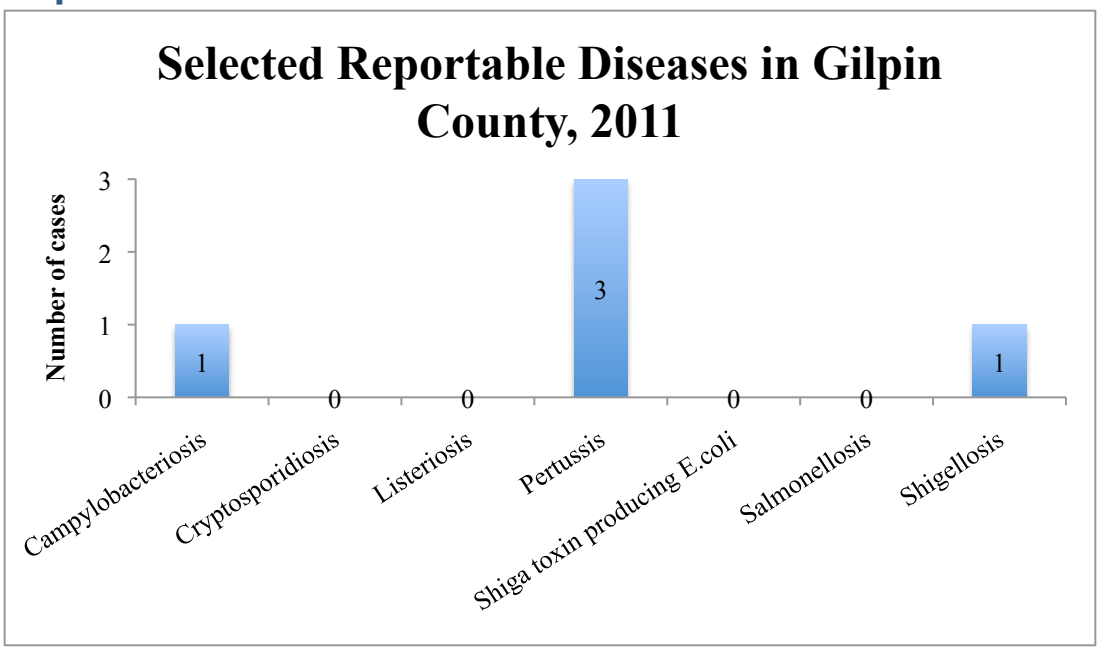
2002-2011 Age-adjusted suicide mortality rate per 100,000 population	Rate (95% Confidence Interval)
Gilpin County	22.2 (8.1-36.2)
Colorado	16.7 (16.3-17.0)

Environment

Radon

The average concentration of indoor radon in Gilpin County, based on test results reported to CDPHE is 10.41 pCi/L. The Environmental Protection Agency (EPA) recommended action limit is 4.0 pCi/L. The percent of household radon tests that were above the EPA recommended action limit of 4 pCi/L in Gilpin County is 54.67%. [40]

Reportable Diseases



Hepatitis C rate in Gilpin County in 2009 was between 90.41 and 116.60 in 2009.[41]

Resources

[1] Census
[2] CDPHE Health Indicators
[3] CDPHE Health Indicators
[4] CDPHE Health Indicators
[5] http://cbi.state.co.us
[6] Health Statistics Section, CDPHE
[7] http://www.coepht.dphe.state.co.us
[8] CO Health and Hospital Association
[9] CO BRFSS
[10] Colorado Heart Healthy Solutions Internal Report
[11] http://www.statecancerprofiles.cancer.gov
[12] http://statecancerprofiles.cancer.gov/cgi-bin/deathrates/deathrates.pl?08&001&00&0&001&1&1&1
[13] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[14] Colorado Children's Campaign
[15] Colorado Children's Campaign
[16] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[17] Colorado Children's Campaign
[18] CIIS
[19] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[20] Colorado Children's Campaign
[21] 2011 Colorado Early Childhood Needs Assessment
[22] Colorado Children's Campaign
[23] Colorado Children's Campaign
[24] COHID
[25] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[26] Colorado Health Institute (2008-2009)
[27] Colorado Children's Campaign
[28] http://www.colorado.gov/cs/satellite/HCPF/HCPF/1217230668087
[29] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[30] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[31] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[32] County Health Rankings
[33] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[34] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[35] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[36] Colorado Oral Health Survey 2006-2007
[37] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[38] http://www.cdphe.state.co.us/hs/medicalmarijuana/statistics.html
[39] http://www.chd.dphe.state.co.us/healthProfiles.aspx
[40] http://www.coepht.dphe.state.co.us/environment/radon.aspx
[41] CEDRS